# Appendix A

Background Information

			Rainfa	all Docur	nentati	ion			
Date: July 2020									
Weather station: <u>Seattle</u> <u>Airport</u>	e Tacom	<u>a_</u>					Period of R	ecord.: <u>1</u>	991-2020
County: <u>King County</u>		-	State <u>: WA</u>			Gro	owing seasor	n: 2/8 to 1	2/14, 309 days
		Long-ter	m rainfall	records	1				
	Month	3 yrs. in 10 less than	Normal	3 yrs. in 10 more than	Rain fall	Condition dry, wet, normal	Condition value	Month weight value	Product of previous two columns
1st prior month*	June	0.93	1.44	1.73	2.28	Wet	3	3	9
2nd prior month*		1.09	1.88	2.28		Wet	3	2	6
3rd prior month*	April	2.10	3.18	3.82	1.70	Normal	1	1 Sum <b>16</b>	1
	5-9 tl d -14 tl -18 tl w	nen prior peri rier thannorn nen prior peri ormal nen prior peri vetter thanno	nal od has been od has been rmal	n		ondition valu Dry =1 Normal =2 Wet =3			

			Rainfa	all Docur	nentati	ion			
Date: <u>August 2020</u>									
Weather station: <u>Seattle</u> <u>Airport</u>	e Tacom	<u>a_</u>					Period of R	ecord.: <u>1</u>	<u>991-2020</u>
County: <u>King County</u>		_	State <u>: WA</u>	<u>.</u>		Gro	owing seasor	n: 2/8 to 1	2/14, 309 days
		Turnet	· · · · · · · · · · · · · · · · · · ·		1				
	Month	Long-terr 3 yrs. in 10 less than	Normal	3 yrs. in 10 more than	Rain fall	Condition dry, wet, normal	Condition value	Month weight value	Product of previous two columns
1st prior month*	July	0.26	0.59	0.69	0.17	Dry	1	3	3
2nd prior month*	June	0.93	1.44	1.73	2.28	Wet	3	2	6
3rd prior month*	May	1.09	1.88	2.28	3.12	Wet	3	1	3
Note: If s 6 10 15 Conclusions: The period	5-9 tl d -14 tl -18 tl w	hen prior perior rier thannorr hen prior perio ormal hen prior perio vetter thanno o August 2020	nal od has been od has been rmal	n		ondition valu Dry =1 Normal =2 Wet =3			

			Rainfa	all Docur	nentati	ion			
Date: <u>September 2020</u>									
Weather station: <u>Seattle</u> <u>Airport</u>	Tacom	<u>a_</u>					Period of R	ecord.: <u>1</u>	<u>991-2020</u>
County: <u>King County</u>		_	State <u>: WA</u>			— Gro	owing season	n: 2/8 to 1	2/14, 309 days
					1				
	Month	Long-terr 3 yrs. in 10 less than	n rainfall Normal	3 yrs. in 10 more than	Rain fall	Condition dry, wet, normal	Condition value	Month weight value	Product of previous two columns
1st prior month*		0.30	0.97	1.12	0.31	Normal	2	3	6
2nd prior month*	July	0.26	0.59	0.69	0.17	Dry	1	2	2
3rd prior month*	June	0.93	1.44	1.73	2.28	Wet	3	1	3
Note: If s 6 10 - 15 - Conclusions: The period	-9 th d 14 th n 18 th w	nen prior perio rier thannor nen prior perio ormal nen prior perio vetter thanno o September 2	nal od has beer od has beer rmal	n		ondition valu Dry =1 Normal =2 Wet =3			

			Rainfa	all Docur	nentati	ion			
Date: October 2020									
Weather station: <u>Seattle</u> <u>Airport</u>	e Tacom	<u>a_</u>					Period of R	ecord.: <u>1</u>	<u>991-2020</u>
County: <u>King County</u>		_	State <u>WA</u>			Gro	owing seasor	n: 2/8 to 1	2/14, 309 days
		Long-terr	n rainfall :	recorde	1				
	Month	3 yrs. in 10 less	Normal	3 yrs. in 10 more than	Rain fall	Condition dry, wet, normal	Condition value	Month weight value	Product of previous two columns
1st prior month*	Sep	0.65	1.59	1.89	2.48	Wet	3	3	9
2nd prior month*	Aug	0.30	0.97	1.12	0.31	Normal	2	2	4
3 rd prior month*	July	0.26	0.59	0.69	0.17	Dry	1	1	1
Note: If s 6 10 15 Conclusions: The period	-9 tl d -14 tl n -18 tl w	hen prior perio rier thannor hen prior perio ormal hen prior perio vetter thanno o October 202	nal od has been od has been rmal	1		ondition valu Dry =1 Normal =2 Wet =3			

			Rainf	all Docur	nentat	ion			
Date: <u>November 2020</u>									
Weather station: <u>Seattle</u> <u>Airport</u>	e Tacom	<u>a_</u>					Period of R	ecord.: <u>1</u>	<u>991-2020</u>
County: <u>King County</u>		_	State <u>: WA</u>			Gro	owing seasor	n: 2/8 to 1	2/14, 309 days
		Long-terr	n rainfall	records	1				
	Month	3 yrs. in 10 less	Normal	3 yrs. in 10 more than	Rain fall	Condition dry, wet, normal	Condition value	Month weight value	Product of previous two columns
1st prior month*	Oct	2.58	3.91	4.70	2.58	Normal	2	3	6
2nd prior month*	Sep	0.65	1.59	1.89	2.48	Wet	3	2	6
3rd prior month*	Aug	0.30	0.97	1.12	0.31	Normal	2	1	2
10	6-9 tl d -14 tl -18 tl w	nen prior perior rier thannorm nen prior perior ormal nen prior perior zetter thanno o October 202	nal od has bee: od has bee: rmal	n		Condition valu Dry =1 Normal =2 Wet =3			

			Rainfa	all Docun	nentat	ion			
Date: <u>December 2020</u>									
Weather station: <u>Seattle</u> <u>Airport</u>	e Tacom	<u>a_</u>					Period of R	ecord.: <u>1</u>	<u>991-2020</u>
County: <u>King County</u>		_	State <u>: WA</u>			Gro	owing seasor	a: 2/8 to 1	2/14, 309 days
					1				
	Month	Long-terr 3 yrs. in 10 less than	n rainfall Normal	3 yrs. in 10 more than	Rain fall	Condition dry, wet, normal	Condition value	Month weight value	Product of previous two columns
1st prior month*	Nov	4.68	6.39	7.51	5.58	Normal	2	3	6
2nd prior month*	Oct	2.58	3.91	4.70	2.58	Normal	2	2	4
3rd prior month*	Sep	0.65	1.59	1.89	2.48	Wet	3	1	3
10	d -14 th -18 th w	nen prior perior rier thannorr nen prior perior ormal nen prior perior vetter thanno o December 20	nal od has beer od has beer rmal	n		Dry =1 Normal =2 Wet =3			

			Rainfa	all Docur	nentati	ion			
Date: January 2021									
Weather station: <u>Seattle</u> <u>Airport</u>	Tacom	<u>a_</u>					Period of R	ecord.: <u>1</u>	<u>991-2020</u>
County: <u>King County</u>		_	State <u>: WA</u>			Gro	owing seasor	n: 2/8 to 1	2/14, 309 days
		Turnet	· C 11		1				
	Month	3 yrs. in 10 less than	m rainfall Normal	3 yrs. in 10 more than	Rain fall	Condition dry, wet, normal	Condition value	Month weight value	Product of previous two columns
1st prior month*			5.43	6.37	6.65	Wet	3	3	9
2nd prior month*	Nov	4.68	6.39	7.51	5.58	Normal	2	2	4
3rd prior month*	Oct	2.58	3.91	4.70	2.58	Normal	2	1	2
Note: If s 6 10 - 15 - Conclusions: The period	-9 th d 14 th n 18 th w	hen prior peri rier than nor hen prior peri ormal hen prior peri zetter than no	mal od has been od has been ormal	n		Condition value Dry =1 Normal =2 Wet =3 Mal.			

			Rainfa	all Docun	nentat	ion			
Date: <u>May 2021</u>									
Weather station: <u>Seattle</u> <u>Airport</u>	e Tacom	<u>a_</u>					Period of Ro	ecord.: <u>1</u>	991-2020
County: <u>King County</u>		_	State <u>: WA</u>			— Gro	owing season	i: 2/8 to 1	2/14, 309 days
		Long-teri	n rainfall :	records	1	•			
	Month	3 yrs. in 10 less	Normal	3 yrs. in 10 more than	Rain fall	Condition dry, wet, normal	Condition value	Month weight value	Product of previous two columns
1st prior month*	-	2.10	3.18	3.82	0.92	Dry	1	3	3
2nd prior month*		3.01	4.16	4.91	2.61	Dry	1	2	2
3rd prior month*	Feb	2.38	3.76	4.53	4.68	Wet	3	1 Sum <b>8</b>	3
Note: If s 6 10 - 15 - Conclusions: The period	-9 th d -14 th -18 th w	nen prior peri rier thannorr nen prior peri ormal nen prior peri retter thanno	nal od has been od has been rmal	1		ondition valu Dry =1 Normal =2 Wet =3			

Precipitation two weeks prior to field work was 0.65 inches.

# **APPENDIX A-2**

# Daily Precipitation for 10 Days Preceding Fieldwork, SeaTac International Airport, Washington

To determine whether light, moderate, or heavy precipitation occurred in the 10 days prior to field work, the 10-day total is compared to one-third of the monthly average precipitation for the month evaluated (NRCS 2020a).

Date (2019)	Daily Precipitation (inches) <sup>a</sup>
April 29	0.00
April 28	0.00
April 27	0.14
April 26	0.00
April 25	0.00
April 24	0.00
April 23	0.00
April 22	0.13
April 21	0.00
April 20	т
Sum	0.27

## Daily precipitation data preceding field work for SeaTac International Airport, Washington

Conclusions: One-third of the monthly average precipitation for the month of April is 1.06 inches. Therefore, light precipitation was recorded in the 10 days preceding field work for April 30, 2019.

Date (2020)	Daily Precipitation (inches) <sup>a</sup>	Date (2020)	Daily Precipitation (inches) <sup>a</sup>
July 23	0.00	September 1	0.00
July 22	0.02	August 31	0.02
July 21	0.00	August 30	Т
July 20	0.00	August 29	0.00
July 19	0.00	August 28	0.00
July 18	0.00	August 27	0.00
July 17	0.13	August 26	0.00
July 16	0.00	August 25	0.00
July 15	0.00	August 24	0.00
July 14	0.00	August 23	0.00
Sum	0.15	Sum	0.02

<sup>a</sup> NRCS 2020a

"T" values indicate a trace value was recorded.

Conclusions: One-third of the monthly average precipitation for the month of July is 0.20 inch and for the month of August is 0.32 inch. Therefore, light precipitation was recorded in the 10 days preceding field work for July 24, 2020, and September 2, 2020.

Date (2020)	Daily Precipitation (inches) <sup>a</sup>
August 18	0.00
August 17	0.00
August 16	0.00
August 15	0.00
August 14	0.00
August 13	0.00
August 12	0.00
August 11	0.00
August 10	0.00
August 9	0.00
August 8	0.01
August 7	т
August 6	0.08
August 5	0.00
August 4	0.00
August 3	0.00
August 2	0.00
Sum	0.09
RCS 2020a	

"T" values indicate a trace value was recorded.

Conclusions: One-third of the monthly average precipitation for the month of August is 0.32 inch. Therefore, light precipitation was recorded in the 10 days preceding field work for August 13, 18, and 19, 2020.

## Daily precipitation data preceding field work for SeaTac International Airport, Washington

Date (2020)	Daily Precipitation (inches) <sup>a</sup>
November 10	0.04
November 9	0.06
November 8	0.00
November 7	0.01
November 6	т
November 5	0.32
November 4	0.18
November 3	0.90
November 2	0.00
November 1	0.00
Sum	1.51

Conclusions: One-third of the monthly average precipitation for the month of November is 2.10 inches. Therefore, light precipitation was recorded in the ten days preceding field work for November 11, 2020.

January 10       0.12         January 9       0.00         January 8       0.22         January 7       T         January 6       0.19         January 5       0.66         January 4       0.39
January 8         0.22           January 7         T           January 6         0.19           January 5         0.66           January 4         0.39
January 7         T           January 6         0.19           January 5         0.66           January 4         0.39
January 6         0.19           January 5         0.66           January 4         0.39
January 5         0.66           January 4         0.39
January 4 0.39
· · · · · · · · · · · · · · · · · · ·
0.44
January 3 0.44
January 2 1.71
January 1 0.42
December 31 (2020) 0.35
December 30 0.97
December 29 0.16
December 28 0.00
Sum 5.63

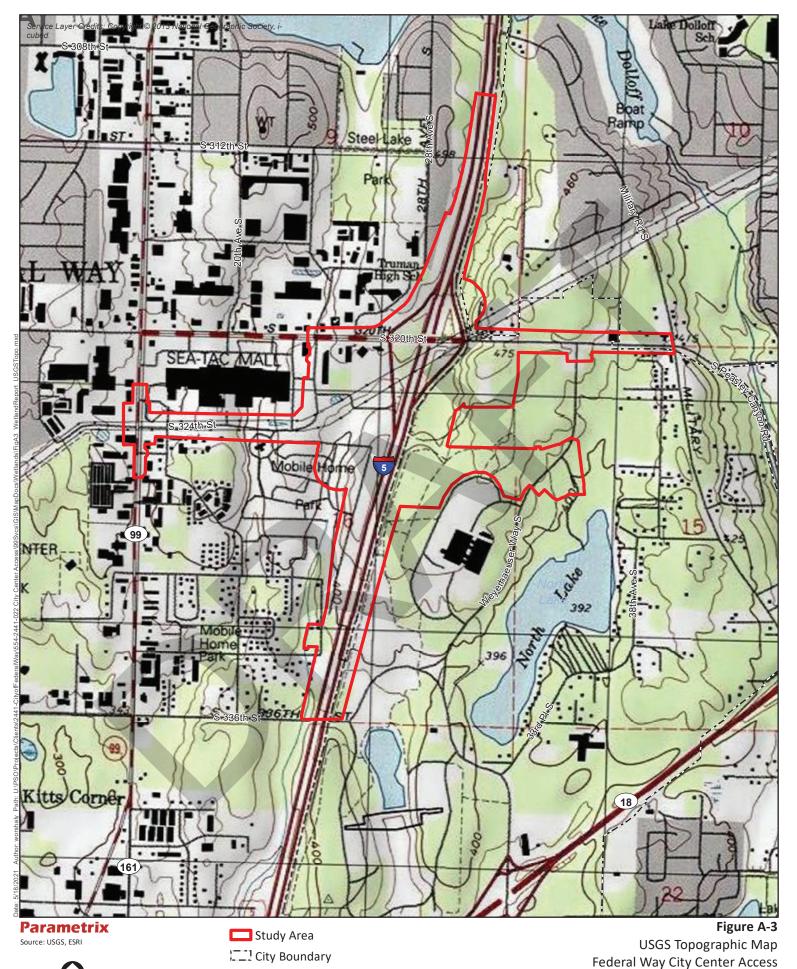
"T" values indicate a trace value was recorded.

Conclusions: One-third of the monthly average precipitation for the month of January is 2.92 inches. One-third of the monthly average precipitation for the month of December is 2.22 inches. Therefore, heavy precipitation was recorded in the 10 days preceding field work for January 7 and 11 2021.

Date (2021)	Daily Precipitation (inches) <sup>a</sup>	
May 4	0.03	
May 3	0.25	
May 2	0.00	
May 1	0.03	
April 30	0.11	
April 29	0.00	
April 28	0.00	
April 27	0.00	
April 26	0.00	
April 25	0.10	
April 24	0.51	
April 23	0.04	
Sum	1.07	

Conclusions: One-third of the monthly average precipitation for the month of May is 0.63 inches. One-third of the monthly average precipitation for the month of April is 1.06 inches. Therefore, normal precipitation was recorded in the 10 days preceding field work for May 3 and 5 2021.

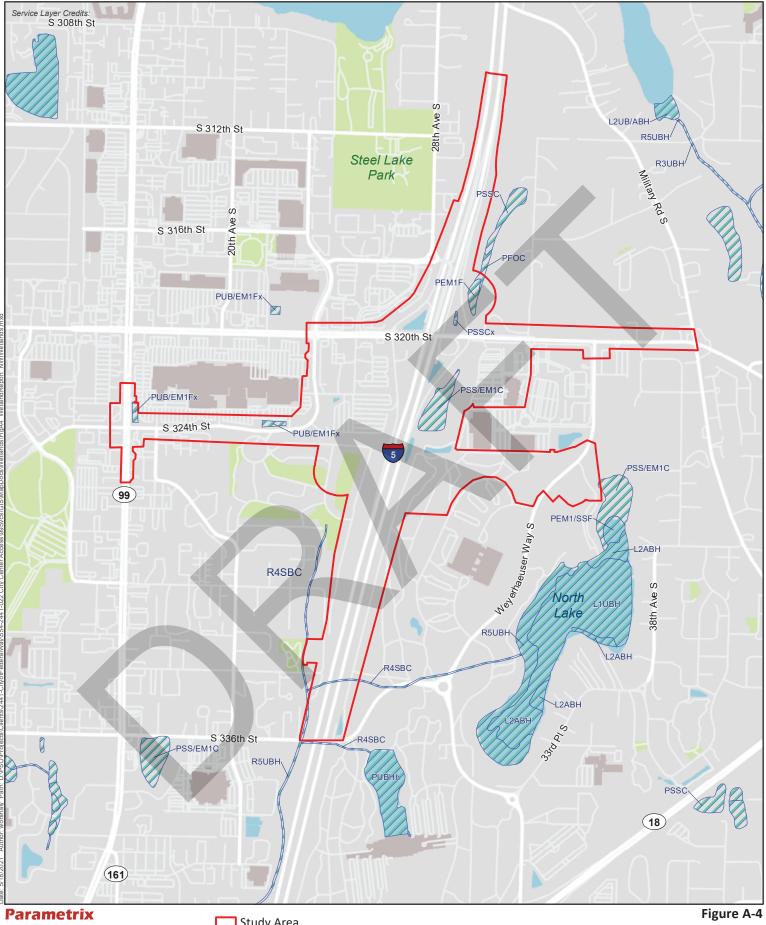




0 250 500 1,000 Feet

Federal Way, WA

Project: Wetland Report

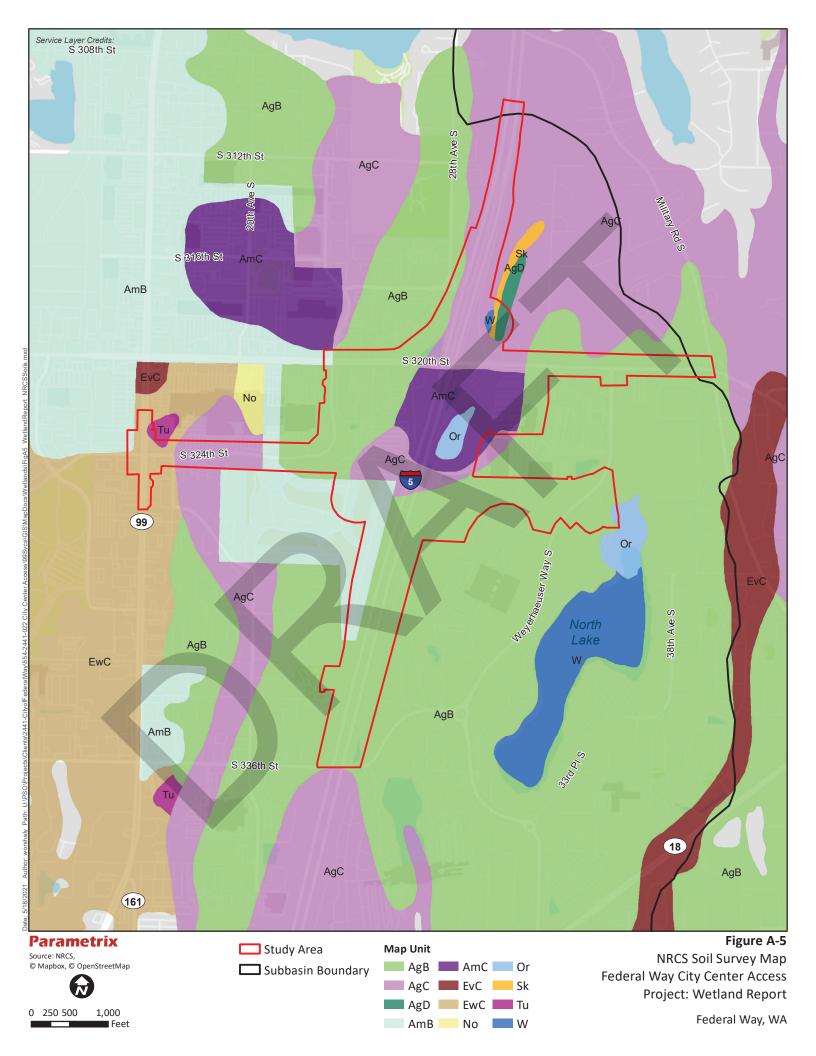


Source: USFWS, © Mapbox, © OpenStreetMap

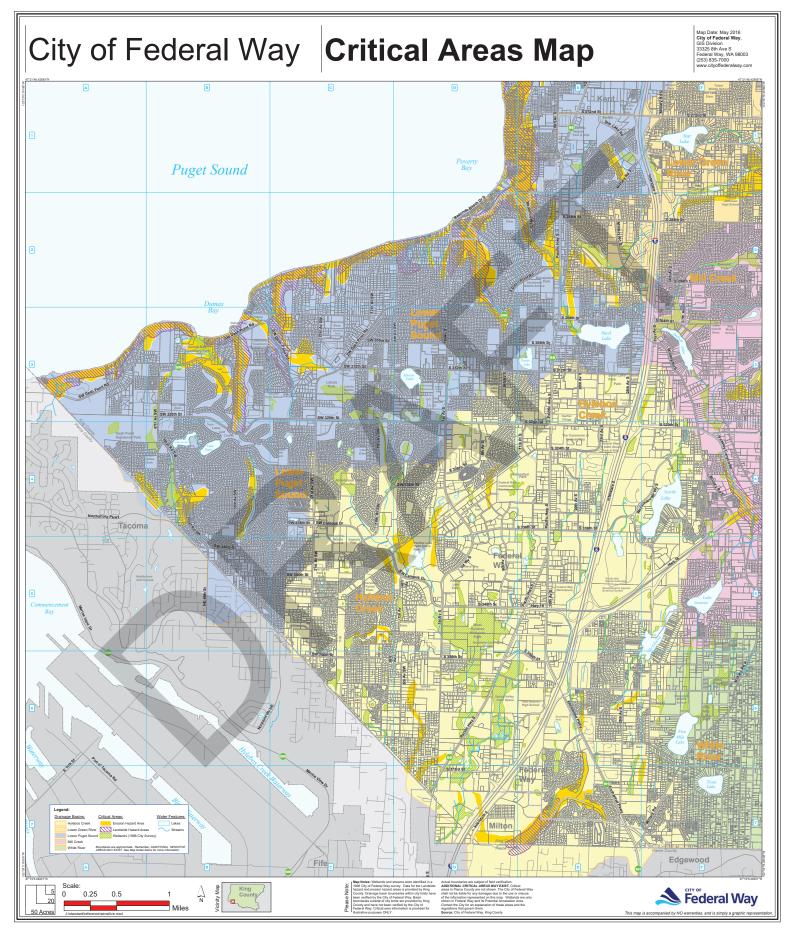
0 250 500 1,000 Feet Study Area

Figure A-4 NWI Wetland Map Federal Way City Center Access Project: Wetland Report

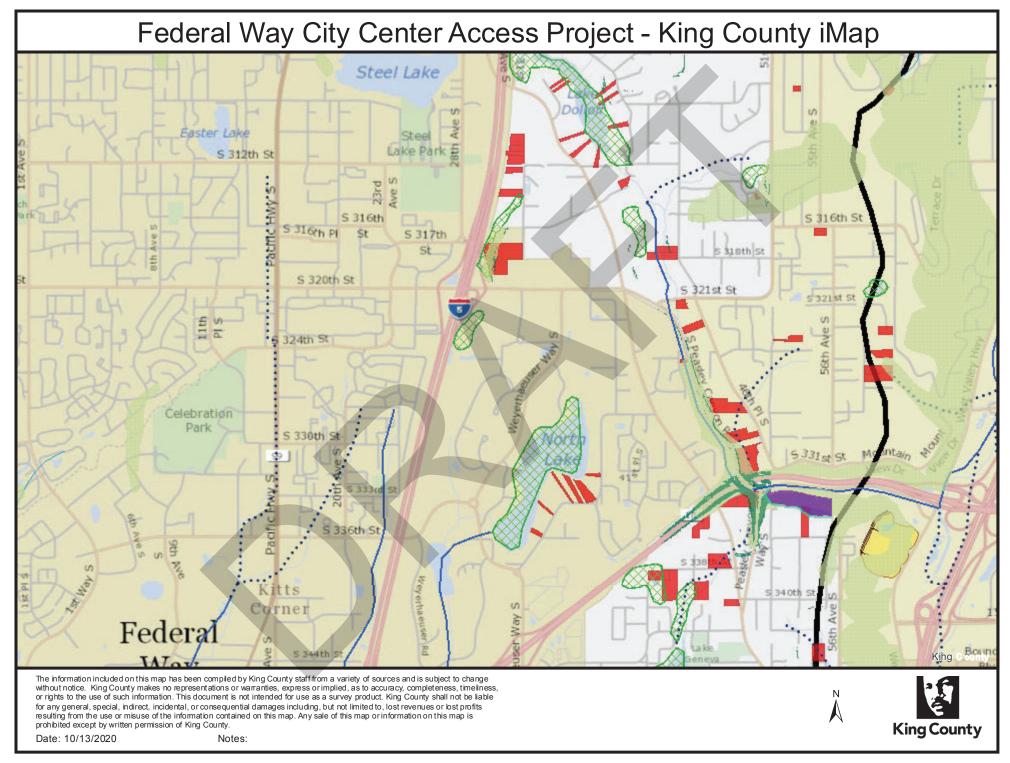
Federal Way, WA



# Appendix A-6



**Appendix A-7** 



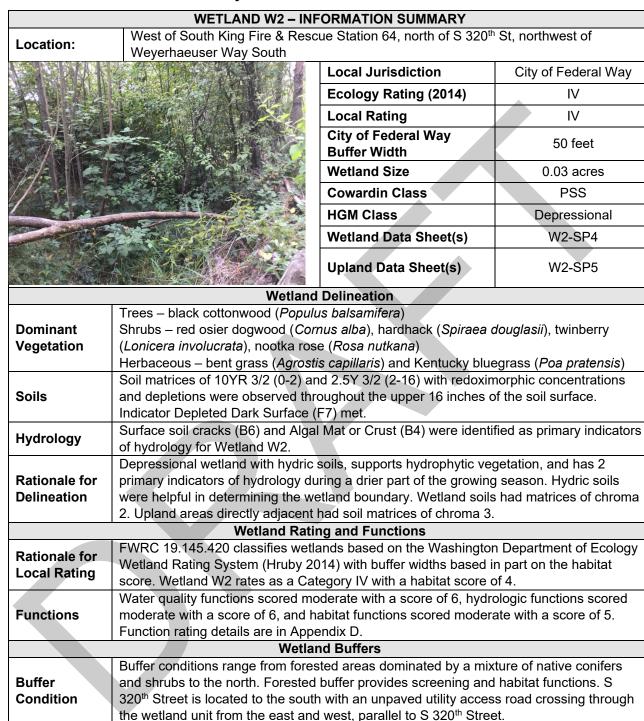
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# Appendix B

Wetland Descriptions

	WETLAND W1- INF	ORMATION SUMMARY		
Location:	West of Federal Way Fire Static	on 4, north of S 320 <sup>th</sup> St, north	east of Weyerhaeuser	
Location.	Way South			
		Local Jurisdiction	City of Federal Way	
	113 Marine States and States	Ecology Rating (2014)	III	
	Harling A. C. Sand Street	Local Rating	III	
	A PALLANE	City of Federal Way Buffer Width	80 feet	
		Wetland Size	0.16 acres*	
		Cowardin Class	PEM, PSS	
	CARLEN AND AND AND AND AND AND AND AND AND AN	HGM Class	Slope, Depressional	
		Wetland Data Sheet(s)	W1-SP1	
		Upland Data Sheet(s)	W1-SP2, W1-SP3	
Wetland Delineation				
Dominant Vegetation	Shrubs – Himalayan blackberry ( <i>Rubus armeniacus</i> ) Herbaceous – reed canarygrass ( <i>Phalaris arundinacea</i> ), small-fruited bulrush ( <i>Scirpus microcarpus</i> ), St. John's-wort ( <i>Hypericum perforatum</i> ), bedstraw ( <i>Galium aparine</i> ), common foxglove ( <i>Digitalis purpurea</i> ).			
Soils	A soil matrix color of 10YR 3/2 was observed from 0-12 inches below soil surface. From 12-14 inches, a soil matrix color of 2.5Y 4/2 with redoximorphic concentrations was observed. A compact gravel layer at 14 inches hindered further exploration, but it is presumed that the depleted matrix extends beyond 14 inches, thus meeting indicator Depleted Below Dark Surface (A11).			
Hydrology	No primary indicators were met for hydrology. Secondary indicators Geomorphic position (D2) and FAC-Neutral Test (D5) were recorded.			
Rationale for Delineation	Rationale for Depressional wetland with hydric soils, supports hydrophytic vegetation, and meets			
Wetland Rating and Functions				
Rationale for Local Rating	Wetland Rating System (Hruby 2014) with butter widths based in part on the babitat			
Functions	Water quality functions scored moderate with a score of 6, hydrologic functions scored moderate with a score of 6, and habitat functions scored moderate with a score of 5. Function rating details are in Appendix D.			
	Wetlar	nd Buffers		
Buffer Condition	Buffer ranges from forested areas dominated by native conifers to open grass. Forested buffer provides screening and habitat functions.			

# Table 1. Wetland W1 Summary



## Table 2. Wetland W2 summary

	WETLAND W3 – INF	FORMATION SUMMARY		
Location:	North of S 320 <sup>th</sup> St, west of 32 <sup>nd</sup>			
		Local Jurisdiction	City of Federal Way	
		Ecology Rating (2014)		
1 Chan	the state of the s	Local Rating		
		City of Federal Way Buffer Width	80 feet	
KI Z MA		Wetland Size	0.02 acres	
No ANT		Cowardin Class	PEM	
Here and the second	W-W-CARL	HGM Class	Depressional	
	NERSELLAZA	Wetland Data Sheet(s)	W3-SP6	
	NO ASSAM A SERVICE	Upland Data Sheet(s)	W3-SP7	
		Delineation		
Dominant	Herbaceous – reed canarygrass (Phalaris arundinacea), common rush (Juncus effusus),			
Vegetation	bent grass ( <i>Agrostis capillaris</i> ), and twinberry ( <i>Lotus corniculatus</i> ).			
Soils	Soils were not observed. Assume	,		
Hydrology	Wetland W3 was checked with "other" primary indicator and is assumed to be saturated for a minimum of 5% of the growing season given no stormwater controls on S 320 <sup>th</sup> Street allowing overland flow from uplands into the wetland with no observed outlet present. Wetland W3 also met secondary indicators geomorphic position (D2) and FAC-neutral test (D5).			
Rationale for Delineation	Depressional wetland with hydric soils, supports hydrophytic vegetation, and is assumed to be saturated for at least 5% of the growing season.			
Wetland Rating and Functions				
Rationale for Local RatingFWRC 19.145.420 classifies wetlands based on the Washington Department of Ecology Wetland Rating System (Hruby 2014) with buffer widths based in part on the habitat score. Wetland W3 rates as a Category III with a habitat score of 3.				
Functions	Water quality functions scored high with a score of 7, hydrologic functions scored moderate with a score of 6, and habitat functions scored low with a score of 4. Function rating details are in Appendix D.			
Wetland Buffers				
Buffer Condition	Buffer is a large hillslope of fill material, located on the north side of 320 <sup>th</sup> . The buffer consists mainly of invasive Himalayan blackberry ( <i>Rubus armeniacus</i> ) and native trailing blackberry ( <i>Rubus ursinus</i> ). This buffer is poor in condition and provides little screening or protection.			

## Table 3. Wetland W3 summary

	WETLAND W5 – INFORMATION SUMMARY			
•	East of I-5 exit 142 towards Fed		of Rockwell Collins,	
Location:	Seattle Service Center Parking	2	,	
		Local Jurisdiction	City of Federal Way	
		Ecology Rating (2014)	I/II	
		Local Rating	1/11	
		City of Federal Way Buffer Width	250 feet / 150 feet	
		Wetland Size	1.76 (bog, Cat I)/ 5.48 (Cat II)	
and the second		Cowardin Class	PEM, PSS, PFO	
A A A		HGM Class	Depressional	
		Wetland Data Sheet(s)	W5-SP8	
( * / A		Upland Data Sheet(s)	W5-SP9	
		Delineation		
Dominant Vegetation	Species within the mineral wetland component:         Trees – Red alder (Alnus rubra), Oregon Ash (Fraxinus latifolia), European Mountain         Ash (Sorbus aucuparia)         Shrubs – Salmonberry (Rubus spectabilis)         Species with the bog component:         Trees – Red alder         Shrubs – bog laurel (Kalmia microphylla) and Labrador tea (Rhododendron groenlandicum)         Herbaceous –fowl manna grass (Glyceria striata),			
Soils	A soil matrix of 10Y 5/1 with redoximorphic concentrations was observed throughout the upper 16 inches of the soil surface. These characteristics meet indicators Loamy Gleyed Matrix (F2) and Depleted Matrix (F3).			
Hydrology	<b>rology</b> A locally shallow water table and stream flow hydrologically support the wetlands. Inundation at two inches was observed. Indicators, High Water Table (A2), Saturation (A3), and Hydrogen Sulfide Odor (C1) were met. Secondary indicators, Dry-Season Water Table (C2), Geomorphic Position (D2), and FAC-Neutral Test (D5) were also met.			
Rationale for Delineation	Depressional wetland with hydric soils, supports hydrophytic vegetation, and has soils			
Delineation         saturation in late July during a drier part of the growing season.           Wetland Rating and Functions				
Rationale for Local Rating	FWRC 19.145.420 classifies wetlands based on the Washington Department of Ecology Wetland Rating System (Hruby 2014) with buffer widths based in part on the habitat score. Wetland W5 rates as a dual rating as Category I/II with a habitat score of 6.			
Functions	Water quality functions scored high with a score of 7, hydrologic functions scored high with a score of 7, and habitat functions scored high with a score of 7. Function rating details are in Appendix D.			
	Wetlar	nd Buffers		
Buffer Condition	Buffer consists of a forested area. Forested buffer provides screening and habitat functions protecting the Category II wetland and associated Category I bog.			

## Table 4. Wetland W5 summary

## Table 5. Wetland W6 summary

WETLAND W6 – INFORMATION SUMMARY				
Location: West of Oakland Hills Boulevard, east of Burning Tree Blvd				
		Local Jurisdiction	City of Federal Way	
		Ecology Rating (2014)	III	
		Local Rating	III	
		City of Federal Way Buffer Width	80 feet	
		Wetland Size	0.11 acres*	
		Cowardin Class	PEM, PSS	
A Star March		HGM Class	Riverine	
		Wetland Data Sheet(s)	W6-SP10	
		Upland Data Sheet(s)	W6-SP11	
		Delineation		
Dominant       Trees – Western red cedar ( <i>Thuja plicata</i> )         Shrubs – Himalayan blackberry and salmonberry ( <i>Rubus spectabilis</i> )         Herbaceous – reed canarygrass ( <i>Phalaris arundinacea</i> ), giant horsetail ( <i>Equisetum telmateia</i> ), bittersweet nightshade ( <i>Solanum dulcamara</i> )				
Soils	Soil matrices of 10YR 2/1 (0-5) and 10YR 2/2 (5-16) with 10GY 4/1 gleyed depletions in the 5 to 16 inch layer were observed. These characteristics met indicator Redox Dark Surface (F6).			
Hydrology	Hydrology Supposed by Steam 1 flows and locally high water table. Indicators High Water Table (A2) and Saturation (A3) were identified as primary indicators for Wetland W6. Secondary indicators Dry-Season Water Table (C2) and Geomorphic Position (D2), and FAC-Neutral Test (D5) were met.			
Rationale for DelineationRiverine wetland with hydric soils, supports hydrophytic vegetation, and has soils saturation in July during a drier part of the growing season. Hydric soils were helpful in determining the wetland boundary. Upland areas directly adjacent had soil matrices of chroma 3.				
Wetland Rating and Functions				
Rationale for Local RatingFWRC 19.145.420 classifies wetlands based on the Washington Department of Ecology Wetland Rating System (Hruby 2014) with buffer widths based in part on the habitat score. Wetland W6 rates as a Category III with a habitat score of 4.				
Functions	Water quality functions scored moderate with a score of 6, hydrologic functions scored moderate with a score of 6, and habitat functions scored moderate with a score of 5. Function rating details are in Appendix D.			
	Wetlar	nd Buffers		
Buffer Condition	<b>o</b> ,			

## Table 6. Wetland W7 summary

	WETLAND W7 – INFORMATION SUMMARY				
Location:	Along east shoulder of southbo	und I-5, adjacent to Exit 143 s	ignage.		
		Local Jurisdiction	City of Federal Way		
		Ecology Rating (2014)	IV		
		Local Rating	IV		
		City of Federal Way Buffer Width	50 feet		
		Wetland Size	0.03 acres*		
		Cowardin Class	PEM		
- AMERICA		HGM Class	Depressional		
A DAS		Wetland Data Sheet(s)	None (no entry permission)		
		Upland Data Sheet(s)	None (no entry permission)		
Wetland Delineation					
Dominant Vegetation	Herbaceous – cattail ( <i>Typha latifolia</i> )				
Soils	Soils were not observed due to buried power line and occurrence of wetland within I-5 fill prism. Soils presumed hydric.				
Hydrology	Hydrology provided by stormwater runoff from I-5 and overland flow from adjacent uplands. Outlet is a stormwater catch basin perched approximately 6-inches above wetland surface. Hydrology indicator, Saturation (A3), was present.				
Rationale for	Presence of obligate vegetation and saturated soils in geomorphic position with				
Delineation	Delineation presumed hydric soils.				
		ng and Functions	n Donortmont of Ecology		
Rationale for Local Rating	Wetland Rating System (Hruby 2014) with butter widths based in part on the babitat				
Functions	Water quality functions scored moderate with a score of 5, hydrologic functions scored moderate with a score of 5, and habitat functions scored low with a score of 4. Function rating details are in Appendix D.				
	Wetla	nd Buffers			
Buffer Condition					



	WETLAND W9 – INI	FORMATION SUMMARY		
Location:	South of 320 <sup>th</sup> street, located in	the inner portion of the I-5 No	rth on-ramp.	
	A DECEMBER OF THE PARTY OF THE	Local Jurisdiction	City of Federal Way	
and the second distance	AND S CARD OF THE PARTY AND A	Ecology Rating (2014)	IV	
	A Constantion of the second second	Local Rating	IV	
		City of XX/XX County Buffer Width	50 feet	
		Wetland Size	0.01 acres	
		Cowardin Class	PEM	
		HGM Class	Slope	
		Wetland Data Sheet(s)	W9-SP13	
		Upland Data Sheet(s)	W9-SP14	
	Wetland	I Delineation		
Dominant Vegetation	Herbaceous – reed canarygrass ( <i>Phalaris arundinacea</i> )			
Soils	Soil matrices of 10YR 4/1 (0-4.5 inches) and 10Y 5/1 (4.5-16 inches) with 10YR 4/6 redoximorphic concentrations observed throughout the soil profile. These characteristics meet soil indicators Depleted Below Dark Surface (A11), Loamy Gleyed Matrix (F2), and Depleted Matrix (F3).			
Hydrology	Surface Water (A1) and High Water Table (A2) were identified as primary indicators of hydrology for Wetland W9. Secondary indicators Drainage Patterns (B10) and Geomorphic Position (D2) met.			
Rationale for Delineation	Slope wetland with hydric soils, supports hydrophytic vegetation, and has soils saturation in August during a drier part of the growing season. Hydric soils were helpful in determining the wetland boundary.			
Wetland Rating and Functions				
Rationale for Local Rating	Vvetland Rating System (Hruby 2014) with butter widths based in part on the habitat			
Functions	Water quality functions scored moderate with a score of 6, hydrologic functions scored moderate with a score of 6, and habitat functions scored low with a score of 4. Function rating details are in Appendix D.			
	Wetla	nd Buffers		
Buffer Condition	Buffer is open grass that is confined within an on-ramp to I-5 north. Overall, the buffer provides some screening but is frequently mowed for roadside maintenance and safety.			

	WETLAND W10 – IN	FORMATION SUMMARY	
Location:	Located north of 320 <sup>th</sup> street ea	st of the I-5 north on-ramp.	
		Local Jurisdiction	City of Federal Way
		Ecology Rating (2014)	
		Local Rating	
		City of Federal Way Buffer Width	80 feet
		Wetland Size	0.15 acres
1		Cowardin Class	PAB, PEM, PSS, PFO
		HGM Class	Depressional
		Wetland Data Sheet(s)	W10-SP15
		Upland Data Sheet(s)	W10-SP16
	Wetland	Delineation	
Dominant Vegetation	<ul> <li>Shrubs – red osier dogwood (<i>Cornus sericea</i> = <i>C. alba</i>), pacific willow (<i>Salix lasiandra</i>),</li> <li>Himalayan blackberry (<i>Rubus armeniacus</i>)</li> <li>Herbaceous – slough sedge (<i>Carex obnupta</i>), reed canarygrass (<i>Phalaris arundinacea</i>),</li> <li>creeping buttercup (<i>Ranunculus repens</i>).</li> </ul>		
Soils	A soil matrix of 10YR 3/2 with redoximorphic concentrations were observed throughout the upper 16 inches of the soil surface. Indicator Redox Dark Surface (F6) met.		
Hydrology	High Water Table (A2) and Saturation (A3) were identified as primary indicators of hydrology for Wetland W10.		
Rationale for Delineation	Depressional wetland with hydric soils, supports hydrophytic vegetation, and has soils saturation in July during a drier part of the growing season.		
		ng and Functions	
Rationale for Local Rating	Wetland Rating System (Hruby 2014) with butter widths based in part on the babitat		
Functions	Water quality functions scored moderate with a score of 5, hydrologic functions scored high with a score of 7, and habitat functions scored moderate with a score of 6. Function rating details are in Appendix D.		
	Wetla	nd Buffers	
Buffer Condition	Buffer consists of large forested a buffer provides screening and hal		

## Table 8. Wetland W10 summary

#### WETLAND W11 - INFORMATION SUMMARY North of 320<sup>th</sup> Street, east of I-5 north on-ramp, and west of 32<sup>nd</sup> Ave S Location: **Local Jurisdiction** City of Federal Way Ш Ecology Rating (2014) Local Rating Ш City of Federal Way 150 feet **Buffer Width** Wetland Size 8.19 acres\* **Cowardin Class** PAB, PEM, PSS, PFO **HGM Class** Depressional Wetland Data Sheet(s) W11-SP17 Upland Data Sheet(s) W11-SP18 Wetland Delineation Trees – Oregon ash (Fraxinus latifolia), red alder (Alnus rubra), black cottonwood (Populus balsamifera) Dominant Shrubs – hardhack (Spiraea douglasii), Salmonberry (Rubus spectabilis), Oregon Ash Vegetation (Fraxinus latifolia), black cottonwood (Populus balsamifera) Herbaceous - slough sedge (Carex obnupta), large leaved avens (Geum macrophyllum) A soil matrix of 10YR 2/2 with redoximorphic concentrations starting at 4 inches below Soils soil surface were observed throughout the upper 18 inches of the soil surface. Indicators Redox Dark Surface (F6) and Depleted Dark Surface (F7) met. Secondary indicators Geomorphic position (D2) and FAC-Neutral Test (D5) were Hydrology obseved. Seasonally high water table assumed **Rationale for** Depressional wetland with hydric soils and supports hydrophytic vegetation. Delineation Wetland Rating and Functions FWRC 19.145.420 classifies wetlands based on the Washington Department of Ecology **Rationale for** Wetland Rating System (Hruby 2014) with buffer widths based in part on the habitat Local Rating score. Wetland W11 rates as a Category II with a habitat score of 6. Water quality functions scored moderate with a score of 6, hydrologic functions scored **Functions** high with a score of 8, and habitat functions scored moderate with a score of 6. Function rating details are in Appendix D. Wetland Buffers Buffer Buffer ranges from large forested areas dominated by a mixture of native conifers and Condition shrubs. Forested buffer provides screening and habitat functions.

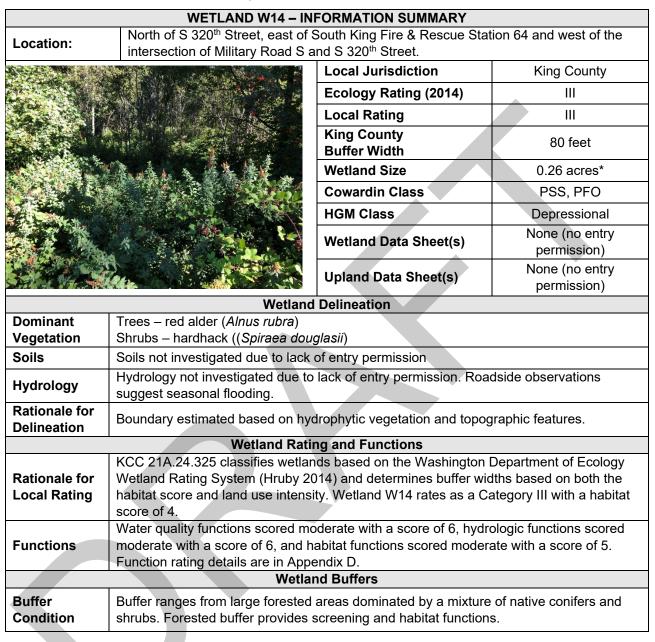
## Table 9. Wetland W11 summary

	WETLAND W12 – INFORMATION SUMMARY				
Location:	Between southbound I-5 and 32	0 <sup>th</sup> street onramp to southbou	nd I-5		
		Local Jurisdiction	City of Federal Way		
		Ecology Rating (2014)			
		Local Rating	III		
		City of Federal Way Buffer Width	80 feet		
a di inter		Wetland Size	0.04 acres		
		Cowardin Class	РЕМ		
		HGM Class	Depressional		
		Wetland Data Sheet(s)	W12-SP19		
		Upland Data Sheet(s)	W12-SP20		
	Wetland Delineation				
Dominant	Herbaceous – reed canarygrass (	Phalaris arundinacea), colonia	al bentgrass ( <i>Agrostis</i>		
Vegetation	stolonifera), common rush	build and big and a starting of			
Soils	Soil matrices of 10YR 4/1 with redoximorphic concentrations were observed throughout the upper 16 inches of the soil surface. Indicator Depleted Matrix (F3) met.				
Hydrology	Oxidized rhizospheres (C3) along living roots was the only primary indicator noted. Secondary indicators include Geomorphic Position (D2) and FAC-Neutral Test (D5).				
Rationale for Delineation	Depressional wetland with hydric soils, supports hydrophytic vegetation, and has oxidized rhizospheres along living roots. Oxidized rhizospheres were a strong indicator in determining the wetland boundary.				
Wetland Rating and Functions					
Rationale for Local Rating	FWRC 19.145.420 classifies wetlands based on the Washington Department of Ecology Wetland Rating System (Hruby 2014) with buffer widths based in part on the habitat score. Wetland W12 rates as a Category III with a habitat score of 3.				
Functions	<b>nctions</b> Water quality functions scored high with a score of 7, hydrologic functions scored moderate with a score of 6, and habitat functions scored low with a score of 4. Function rating details are in Appendix D.				
Wetland Buffers					
BufferBuffer is an open pasture that is confined by roadways. Overall, the buffer providesConditionminimal function and is frequently mowed for roadside maintenance and safety.					

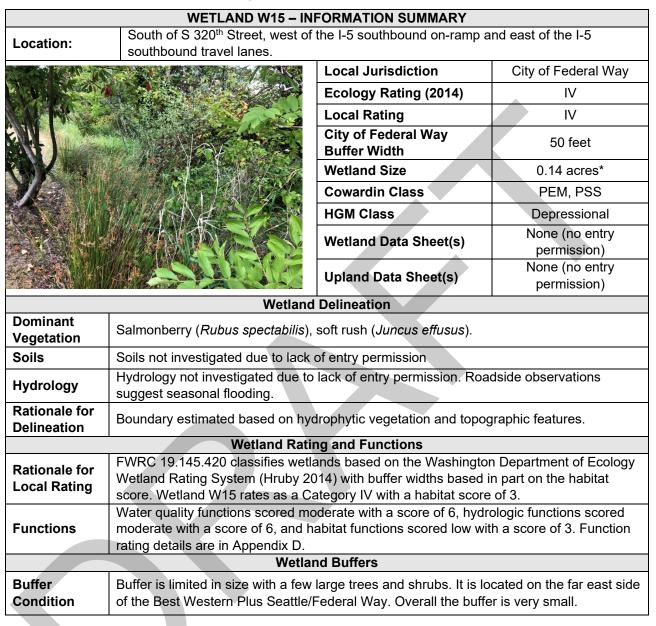
Table 10. Wetland W12 summary

	WETLAND W13 – INFORMATION SUMMARY				
Location:	Location: South of S 320 <sup>th</sup> Street and west of Weyerhaeuser Way S				
		Local Jurisdiction	City of Federal Way		
		Ecology Rating (2014)	III		
		Local Rating	III		
		City of Federal Way Buffer Width	80 feet		
		Wetland Size	0.45 acres*		
	的社会们会了中国是	Cowardin Class	PEM, PSS, PFO		
A REAL AND		HGM Class	Depressional		
		Wetland Data Sheet(s)	W13-SP21		
		Upland Data Sheet(s)	W13-SP22		
	Wetland Trees – Bitter cherry (Prunus ema	Delineation			
Dominant Vegetation	bin dogwood ( <i>Cornus sericea = C. alba</i> ), black cottonwood ( <i>Populus balsamitera</i> ) Herbaceous – piggyback plant ( <i>Tolmiea menziesii</i> ), soft rush ( <i>Juncus effusus</i> ), slough sedge ( <i>Carex obnupta</i> )				
Soils	A soil matrix of 10YR 3/2 with redoximorphic concentrations was observed in the first layer (0 to 7 inches). A soil matrix of 10YR 4/2 with redoximorphic depletions and concentrations were observed on the second layer (7 to 16 inches). Indicators Depleted Below Dark Surface (A11), Depleted Matrix (F3), and Redox Dark Surface (F6) were met.				
Hydrology	ydrology Primary indicators Sediment Deposits (B2) and Sparsely Vegetated Concave Surfaces (B8) met.				
Rationale for Delineation	for n Depressional wetland with hydric soils, supports hydrophytic vegetation, and has strong primary indicators for hydrology in July during a drier part of the growing season. Hydric soils were helpful in determining the wetland boundary. Wetland soils had matrices of chroma 2. Upland areas directly adjacent had soil matrices of chroma 3.				
Wetland Rating and Functions					
Rationale for Local Rating	FWRC 19.145.420 classifies wetlands based on the Washington Department of Ecology Wetland Rating System (Hruby 2014) with buffer widths based in part on the habitat score. Wetland W13 rates as a Category III with a habitat score of 4.				
Functions	Water quality functions scored moderate with a score of 6, hydrologic functions scored moderate with a score of 6, and habitat functions scored moderate with a score of 5. Function rating details are in Appendix D.				
	Wetlar	nd Buffers			
Buffer Condition	Buffer ranges from large forested areas dominated by a mixture of native conifers and shrubs. Forested buffer provides screening and habitat functions.				

Table 11. Wetland W13 summary



## Table 12. Wetland W14 summary



#### Table 13. Wetland W15 summary

\*Wetland boundary approximated; area calculation is approximate.

	WETLAND W17 – IN	FORMATION SUMMARY			
Location:	South of Weyerhaeuser Way S	and west of Fishing Access R	oad		
	NE ALTR	Local Jurisdiction	City of Federal Way		
		Ecology Rating (2014)			
La Charles D		Local Rating	III		
		City of Federal Way Buffer Width	80 feet		
S		Wetland Size	0.13 acres		
		Cowardin Class	PFO		
A TRACT		HGM Class	Depressional		
	A CARACTER CERTIN	Wetland Data Sheet(s)	W17-SP3		
		Upland Data Sheet(s)	W17-SP1, W17-SP2		
		Delineation	l		
Dominant	Trees – western red cedar (Thuja plicata), red alder (Alnus rubra)				
Vegetation	Shrubs – salmonberry ( <i>Rubus spectabilis</i> ), vine maple ( <i>Acer circinatum</i> )				
Soils	Soil matrices are 10YR 3/2 (0-7 inches) and 2.5YR 4/2 (7-16 inches) with redoximorphic concentrations in the lower layer. These characteristics meet indicator Depleted Matrix (F3).				
Hydrology	Indicators High Water Table (A2), Saturation (A3), Water Marks (B1), Sediment Deposits (B2) were met.				
Rationale for Delineation	Depressional wetland with hydric soils, supports hydrophytic vegetation, and has strong primary indicators for hydrology. Wetland boundary was distinct by the steep slope to upland conditions.				
		ng and Functions			
Rationale for Local Rating	FWRC 19.145.420 classifies wetlands based on the Washington Department of Ecology Wetland Rating System (Hruby 2014) with buffer widths based in part on the habitat score. Wetland W17 rates as a Category III with a habitat score of 5. Water quality functions scored moderate with a score of 6, hydrologic functions scored				
Functions	high with a score of 7, and habitat rating details are in Appendix D.		•		
		nd Buffers			
Buffer Condition	Buffer is a large forested area dominated by Douglas fir, western red cedar, big leaf maple, vine maple, salal, and swordfern. Southern buffer area includes Wetland 18. The buffer provides functions such as habitat and screening.				

## Table 14. Wetland W17 summary

	WETLAND W18 – IN	FORMATION SUMMARY			
Location:	South and east of Weyerhaeus	er Way S			
	-	Local Jurisdiction	City of Federal Way		
	NARAL	Ecology Rating (2014)	11		
SAMO		Local Rating	I		
	TRASULT	City of Federal Way Buffer Width	150 feet		
		Wetland Size	0.62 within study area, overall, approximately 13 acres		
NK AL		Cowardin Class	PAB, PSS, PFO		
		HGM Class	Depressional		
		Wetland Data Sheet(s)	W18-SP2, W18-SP3, W18-SP5		
		Upland Data Sheet(s)	W18-SP1, W18-SP4, W18-SP6		
Wetland Delineation           Trees – western red cedar ( <i>Thuja plicata</i> ), red alder ( <i>Alnus rubra</i> )					
Dominant Vegetation	<ul> <li>Shrubs – vine maple (<i>Acer circinatum</i>), salmonberry (<i>Rubus spectabilis</i>), hardhack</li> <li>(<i>Spiraea douglasii</i>)</li> <li>Herbaceous – soft rush (<i>Juncus effusus</i>), creeping buttercup (<i>Ranunculus repens</i>),</li> <li>Soils were examined at several locations within the wetland. Indicators met include</li> </ul>				
Soils	Redox Depressions (F8), Depleted Matrix (F3), and Depleted Below Dark Surface (A11).				
Hydrology	Indicators met include High Water Table (A2), Saturation (A3), and Water Marks (B1).				
Rationale for Delineation	Depressional wetland with hydric soils, supports hydrophytic vegetation, and has strong primary indicators for hydrology. Wetland boundaries are marked by a steep slope (north) and fishing access road (east). Wetland extends to water edge at North Lake.				
		ng and Functions			
Rationale for Local Rating	FWRC 19.145.420 classifies weth Wetland Rating System (Hruby 2 score. Wetland W18 rates as a C	014) with buffer widths based i	in part on the habitat		
Functions	Water quality functions scored moderate with a score of 6, hydrologic functions scored high with a score of 7, and habitat functions scored high with a score of 9. Function rating details are in Appendix D.				
		nd Buffers			
Buffer Condition	Buffer is a large forested area do maple, vine maple, salal, and swo Western buffer boundary is marke	ordfern. Southern buffer area i			

#### Table 15. Wetland 18 summary

	WETLAND W19 – IN	FORMATION SUMMARY		
Location:	South and west of Weyerhaeus			
	-	Local Jurisdiction	City of Federal Way	
		Ecology Rating (2014)		
		Local Rating		
		City of Federal Way Buffer Width	150 feet	
		Wetland Size	0.22 acres within study area, but part of larger system: approximately 15 acres	
		Cowardin Class	PAB, PEM, PSS, PFO	
		HGM Class	Depressional	
		Wetland Data Sheet(s)	W19-SP1	
		Upland Data Sheet(s)	W19-SP2	
Wetland Delineation				
Dominant Vegetation	Trees – western red cedar ( <i>Thuja plicata</i> ), red alder ( <i>Alnus rubra</i> ) Shrubs – vine maple ( <i>Acer circinatum</i> ), salmonberry ( <i>Rubus spectabilis</i> ), hardhack ( <i>Spiraea douglasii</i> ) Herbaceous – soft rush ( <i>Juncus effusus</i> ), creeping buttercup ( <i>Ranunculus repens</i> )			
Soils	Organic soils were observed from 0 to 8 inches below the soil surface. Below the organic layer a mineral layer with a matrix of 10YR 2/2 containing redoximorphic concentrations was observed. These characteristics meet soil indicator Histic Epipedon (A2).			
Hydrology	Indicators met include High Water Table (A2), Saturation (A3), and Water Marks (B1).			
Rationale for Delineation	Depressional wetland with hydric soils, supports hydrophytic vegetation, and has strong primary indicators for hydrology. Hydrology indicators and hydric soils helped to determine wetland boundary.			
		ng and Functions		
Rationale for Local Rating	FWRC 19.145.420 classifies wetlands based on the Washington Department of Ecology Wetland Rating System (Hruby 2014) with buffer widths based in part on the habitat score. Wetland W19 rates as a Category II with a habitat score of 7.			
Functions	Water quality functions scored moderate with a score of 6, hydrologic functions scored high with a score of 7, and habitat functions scored high with a score of 9. Function rating details are in Appendix D.			
		nd Buffers		
Buffer Condition	Buffer is a large forested area do maple, vine maple, salal, and swo Eastern buffer boundary is lined v	ordfern. Southern buffer area ir		

#### Table 16. Wetland 19 summary

	WETLAND W20 – IN	FORMATION SUMMARY	WETLAND W20 – INFORMATION SUMMARY				
Location:	East of I-5 northbound, within W						
	~ * L	Local Jurisdiction	City of Federal Way				
A BIA		Ecology Rating (2014)	IV				
	City Center Inc. Cameras	Local Rating	IV				
		City of Federal Way Buffer Width	50 feet				
	and the second second	Wetland Size	0.2				
	a state of the sta	Cowardin Class	PEM				
	in the state of the state	HGM Class	Slope				
and the second		Wetland Data Sheet(s)	W20-SP1				
ANTER AND	To the Aller	Upland Data Sheet(s)	W20-SP2, W20-SP3				
	Wetland	Delineation					
Dominant	Herbaceous – reed canarygrass (Phalaris arundinacea), Kentucky bluegrass (Poa						
Vegetation	pratensis), velvetgrass (Holcus la						
Soils	Soils were examined to have three layers. All layers are depleted with matrices of 2.5Y 4/1 (0 to 6 inches), 2.5Y 5/2 (6 to 10 inches), and 5Y 5/1 (10-16 inches). Redoximorphic features are present at 6 inches and below. These soil characteristics meet hydric soil indicator F3, Depleted Matrix.						
Hydrology	Indicators met include High Water Table (A2), Saturation (A3), Algal Mat or Crust (B4), and Oxidized Rhizospheres along Living Roots (C3).						
Rationale for	Slope wetland with hydric soils, si						
Delineation							
		ng and Functions					
Rationale for Local Rating	FWRC 19.145.420 classifies wetla Wetland Rating System (Hruby 20 score. Wetland W20 rates as a Ca	014) with buffer widths based i	n part on the habitat				
Functions	Water quality functions scored mo low with a score of 4, and habitat details are in Appendix D.						
	Wetla	nd Buffers					
	Buffer is a maintained mown ease	ement adjacent to I-5 northbou	nd. Southern buffer area				

#### Table 17. Wetland 20 Summary

Location: West of I-5 southbound;	Local Juri Ecology R Local Rati City of Fee Buffer Wid Wetland S Cowardin HGM Clas	sdiction lating (2014) ng deral Way dth size <sup>a</sup> Class s bata Sheet(s)	City of Federal Way III III 80 feet ~0.34 acre PEM, PFO Depressional None (no entry permission) None (no entry	
	Ecology R Local Rati City of Fee Buffer Wid Wetland S Cowardin HGM Clas Wetland D Upland Da	Rating (2014) ng deral Way dth size <sup>a</sup> Class s bata Sheet(s)	III III 80 feet ~0.34 acre PEM, PFO Depressional None (no entry permission)	
	Local Rati City of Fee Buffer Wid Wetland S Cowardin HGM Clas Wetland D Upland Da	ng deral Way dth bize <sup>a</sup> Class s s pata Sheet(s)	III 80 feet ~0.34 acre PEM, PFO Depressional None (no entry permission)	
	City of Fee Buffer Wid Wetland S Cowardin HGM Clas Wetland D Upland Da	deral Way dth size <sup>a</sup> Class s s pata Sheet(s)	80 feet ~0.34 acre PEM, PFO Depressional None (no entry permission)	
	Buffer Wid         Wetland S         Cowardin         HGM Class         Wetland D         Upland Da	dth Size <sup>a</sup> Class s s Pata Sheet(s)	~0.34 acre PEM, PFO Depressional None (no entry permission)	
	Cowardin HGM Clas Wetland D Upland Da	Class s pata Sheet(s)	PEM, PFO Depressional None (no entry permission)	
	HGM Clas Wetland D Upland Da	s vata Sheet(s)	Depressional None (no entry permission)	
	Wetland D Upland Da	ata Sheet(s)	None (no entry permission)	
	Upland Da		permission)	
		ta Shoot(c)	None (ne entry)	
	Notland Dolinoation		permission)	
Dominant Vegetationash (Fraxinus latifolia) Shrubs – Sitka willow (Sa blackberry (Rubus armenia)	Trees – back cottonwood ( <i>Populus balsamifera</i> ), red alder ( <i>Alnus rubra</i> ), and Oregon ash ( <i>Fraxinus latifolia</i> ) Shrubs – Sitka willow ( <i>Salix sitchensis</i> ), hardhack ( <i>Spiraea douglasii</i> ), and Himalayan blackberry ( <i>Rubus armeniacus</i> ) Herbaceous – reed canarygrass ( <i>Phalaris arundinacea</i> )			
Soils Soils not observed due to	lack of entry permise	sion.		
Hydrology Hydrology not observed d seasonal flooding.	Hydrology not observed due to lack of entry permission. Roadside observations suggest			
Rationale for DelineationDepressional wetland with boundary was estimated b		0	, .,	
	nd Rating and Fund			
Local Rating <sup>b</sup> Wetland Rating System (Find Stress of Content of C	Rationale for Wetland Rating System (Hruby 2014) with buffer widths based in part on the babitat			
Functions         Water quality and hydrolo review. Habitat functions	scored moderate wit		ith the preliminary	
	Wetland Buffers			
Buffer ConditionBuffer is limited to the sur includes residential development	<b>Q</b> .	0,	nd the upland forest	

#### Table 18. Wetland 21 Summary

<sup>a</sup> approximate size based on aerial photography

	WETLAND W22 – IN	WETLAND W22 – INFORMATION SUMMARY				
Location:	North of S 333 <sup>rd</sup> Street; west of	Cedar Grove Park				
		Local Jurisdiction	City of Federal Way			
		Ecology Rating (2014)	III			
		Local Rating	III			
No A	1 TAKA	City of Federal Way Buffer Width	80 feet			
		Wetland Size <sup>a</sup>	~0.81 acre			
		Cowardin Class	PFO			
		HGM Class	Depressional			
<b>MAN</b>		Wetland Data Sheet(s)	None (no entry permission)			
		Upland Data Sheet(s)	None (no entry permission)			
Wetland Delineation						
Dominant Vegetation	Trees – back cottonwood ( <i>Populus balsamifera</i> ), red alder ( <i>Alnus rubra</i> )					
Soils	Shrubs – Sitka willow ( <i>Salix sitchensis</i> ), Himalayan blackberry ( <i>Rubus armeniacus</i> ) Soils not observed due to lack of entry permission.					
Hydrology	Hydrology not observed due to lack of entry permission. Roadside observations suggest saturation in proximity to stream.					
Rationale for Delineation	Depressional wetland with observed hydrophytic vegetation and hydrology. Wetland boundary was estimated based on aerial photography and online resources.					
		ng and Functions				
Rationale for Local Rating <sup>b</sup>	Rationale for FWRC 19.145.420 classifies wetlands based on the Washington Department of Ecology Wetland Bating System (Hruby 2014) with buffer widths based in part on the babitat					
Functions	Water quality and hydrologic func review. Habitat functions scored n		with the preliminary			
	Wetla	nd Buffers				
Buffer Condition	Buffer is limited to the surrounding includes residential development		ridor. Extending beyond			

## Table 19. Wetland 22 Summary

<sup>a</sup> approximate size based on aerial photography

	WETLAND W23 – IN	FORMATION SUMMARY					
Location:	West of I-5 southbound; north o	West of I-5 southbound; north of S 336 <sup>th</sup> Street					
		Local Jurisdiction	City of Federal Way				
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ecology Rating (2014)					
	and the second	Local Rating	III				
		City of Federal Way Buffer Width	80 feet				
		Wetland Size <sup>a</sup>	0.27 acres				
		Cowardin Class	PFO				
		HGM Class	Riverine				
		Wetland Data Sheet(s)	None (no entry permission)				
		Upland Data Sheet(s)	None (no entry permission)				
Wetland Delineation							
Dominant Vegetation	Trees – quaking aspen ( <i>Populus tremuloides</i> ), red alder ( <i>Alnus rubra</i> ) Shrubs – Sitka willow ( <i>Salix sitchensis</i> ) and Himalayan blackberry ( <i>Rubus armeniacus</i> ) Herbaceous – reed canarygrass ( <i>Phalaris arundinacea</i> )						
Soils	Soils not observed due to lack of entry permission.						
Hydrology	Hydrology not observed due to lack of entry permission. Roadside observations suggest saturation in proximity to stream.						
Rationale for Delineation	Riverine wetland with hydrophytic vegetation and signs of hydrology (perennial stream). Wetland boundary was estimated based on aerial photography and online resources.						
	Wetland Ratio	ng and Functions					
Rationale for Local Rating <sup>b</sup>	Rationale for FWRC 19.145.420 classifies wetlands based on the Washington Department of Ecology Wetland Bating System (Hruby 2014) with buffer widths based in part on the babitat						
Functions	Water quality and hydrologic functions review. Habitat functions scored n		with the preliminary				
	Wetlar	nd Buffers					
Buffer Condition	Buffer is limited to the surrounding includes residential development		eyond the upland forest				

## Table 21. Wetland 23 Summary

<sup>a</sup> approximate size based on aerial photography

	WETLAND W24 – IN	FORMATION SUMMARY				
Location:	North of S 336 <sup>th</sup> Street					
	- <b>I</b>	Local Jurisdiction	City of Federal Way			
		Ecology Rating (2014)	IV			
		Local Rating	IV			
Wetland estimated based on aerial photography. No photos were taken.		City of Federal Way Buffer Width	50 feet			
		Wetland Size <sup>a</sup>	0.02 acres			
		Cowardin Class	PEM			
		HGM Class	Depressional			
		Wetland Data Sheet(s)	None (no entry permission)			
		Upland Data Sheet(s)	None (no entry permission)			
Wetland Delineation						
Dominant Vegetation	Herbaceous – Kentucky bluegrass ( <i>Poa pratensis</i> ), creeping buttercup ( <i>Ranunculus repens</i> )					
Soils	Soils not observed due to lack of entry permission.					
Hydrology	Hydrology not observed due to lack of entry permission.					
Rationale for Delineation	Depressional wetland with hydrophytic vegetation and observations of hydrology. Wetland boundary was estimated based on aerial photography and online resources.					
		ng and Functions				
Rationale for Local Rating <sup>b</sup>	Rationale for FWRC 19.145.420 classifies wetlands based on the Washington Department of Ecology Wetland Rating System (Hruby 2014) with buffer widths based in part on the babitat					
Functions	Water quality and hydrologic function preliminary review. Habitat function	ons scored moderate with a sc				
	Wetla	nd Buffers				
Buffer Condition	Buffer Buffer contains a narrow swath of forested habitat with residential development and city					

## Table 22. Wetland 24 Summary

<sup>a</sup> approximate size based on aerial photography

	WETLAND W25 – IN	FORMATION SUMMARY			
Location:	South of S 336 <sup>th</sup> Street				
		Local Jurisdiction	City of Federal Way		
	The laborer of	Ecology Rating (2014)	II		
	and the second second	Local Rating	I		
		City of Federal Way Buffer Width	150 feet		
		Wetland Size <sup>a</sup>	~1.50 acres		
		Cowardin Class	PFO		
		HGM Class	Riverine		
		Wetland Data Sheet(s)	None (no entry permission)		
		Upland Data Sheet(s)	None (no entry permission)		
Wetland Delineation					
Dominant	Trees – quaking aspen ( <i>Populus tremuloides</i> ), red alder ( <i>Alnus rubra</i> ), black cottonwood				
Vegetation	(Populus balsamifera)				
Soils	Soils not observed due to lack of				
Hydrology	Hydrology not observed due to la saturation in proximity to stream.	ck of entry permission. Roadsi	de observations suggest		
Rationale for	Riverine wetland with hydrophytic				
Delineation	Wetland boundary was estimated based on aerial photography and online resources.				
		ng and Functions			
Rationale for Local Rating <sup>b</sup>	FWRC 19.145.420 classifies weth Wetland Rating System (Hruby 20 score. Wetland W25 rates as a C	014) with buffer widths based i	n part on the habitat		
Functions	Water quality and hydrologic functor preliminary review. Habitat function	•	0		
	Wetla	nd Buffers			
Buffer Condition	Forested buffer extends for a limit highways fragmenting habitat.	ted distance east and west with	h county roads and		

## Table 23. Wetland 25 Summary

<sup>a</sup> approximate size based on aerial photography

	WETLAND W26 – INFORMATION SUMMARY					
Location:	North of S 330 <sup>th</sup> Street; west of Oakland Hills Blvd.					
		Local Jurisdiction	City of Federal Way			
		Ecology Rating (2014)	III			
		Local Rating	III			
Wetland estimated based on aerial photography. No photos were taken.		City of Federal Way Buffer Width	80 feet			
		Wetland Size <sup>a</sup>	~0.68 acres			
		Cowardin Class	PFO			
		HGM Class	Riverine			
		Wetland Data Sheet(s)	None (no entry permission)			
		Upland Data Sheet(s)	None (no entry permission)			
Wetland Delineation						
Dominant Venetation	Trees – back cottonwood ( <i>Populus balsamifera</i> ), red alder ( <i>Alnus rubra</i> )					
Vegetation Soils	Shrubs – Sitka willow ( <i>Salix sitchensis</i> ), Himalayan blackberry ( <i>Rubus armeniacus</i> )					
	Soils not observed due to lack of entry permission.					
Hydrology	Hydrology not observed due to lack of entry permission.					
Rationale for Delineation	Riverine wetland with hydrophytic was estimated based on aerial ph					
		ng and Functions				
Rationale for Local Rating <sup>b</sup>	Rationale for Wetland Rating System (Hruby 2014) with buffer widths based in part on the babitat					
Functions	Water quality and hydrologic func review. Habitat functions scored r		with the preliminary			
	Wetla	nd Buffers				
Buffer Condition	Buffer Buffer is limited to the surrounding upland forest and stream corridor. Extending beyond					

## Table 24. Wetland 26 Summary

<sup>a</sup> approximate size based on aerial photography



# Appendix C

Wetland Delineation Data Sheets

Project/Site:	Federal Way City Center Access		City/County:	Federal Way/K	ing	Sampling Date:	7/24/2020
Applicant/Owner:	City of Federal Way				State: Washington	Sampling Point:	W1-SP-1
Investigator(s):	Matt Murphy, Aaron Thom			s	ection, Township, Range:	T21N R04E S	10
Landform (hillslop	e, terrace, etc.):	Hillslope		Local rel	ief (concave, convex, none):co	ncave Slope	e (%): <3%
Subregion (LRR)	: Northwest Forests and Coast	(LRR A)	Lat: 47.315586	Lon	g: <u>-122.287857</u>	Datum: NAI	D 1983 (HARN)
Soil Unit (Name-I	D-Hydric Rating): Alde	erwood gravelly sand	y loam	- AgB -	Not Hydric NWI cla	ssification:	None
•	rologic conditions on the site typic	•				(If no, explain in Rema	-
Are Vegetation	, Soil				e "Normal Circumstances" preser		X No
Are Vegetation	, Soil				needed, explain any answers in R		
	OF FINDINGS – Attach sit			int locations,	transects, important feat	ures, etc.	
, , , ,	etation Present?	Yes X	No	la tha Sampla	d Aroo		
Hydric Soil Prese		Yes X	No	Is the Sample within a Wetla	and?		
Wetland Hydrolo	ogy Present?	Yes X	No		Yes X	No	_
Precipitation: According to the	Seattle Tacoma Airport NOAA wea	ather station, precipit	ation was above th	e normal range fo	r the three months prior to the site	e visit.	
Remarks:							
W1-SP-1 is locat	ed in the middle of a reed canaryg	rass ( <i>Phalaris arund</i>	<i>inacea</i> )patch withi	in a shallow depre	ssion approximately 120 feet nort	h of S 320th St and we	est of S King
County Fire and I	Rescue Station 64. A french drain	has been installed al	ong the eastern bou	undary of the Wetl	and W1 unit, extending north and	south.	
VEGETATIO	N						
		Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum	(Plot size: <u>r=3m)</u>	% Cover	Species?	Status	Number of Dominant Species		
1. none	, , , , , , , , , , , , , , , , , , ,				That Are OBL, FACW, or FAC	: 1	(A)
2.					,,,	·	(
3.					Total Number of Dominant		
4.					Species Across All Strata:	1	(B)
		0% =	Total Cover				
Sapling/Shrub S	Stratum (Plot size: <u>r=2m)</u>				Percent of Dominant Species		
1. <u>none</u>					That Are OBL, FACW, or FAC	<u>100%</u>	<u>́</u> (А/В)
2.					Prevalence Index worksheet	:	
3.					Total % Cover of:	Multiply by:	
4					OBL species	x 1 =	
5						x 2 =	
		=	Total Cover		· · · · · · · · · · · · · · · · · · ·	x 3 =	
<u>Herb Stratum</u>	(Plot size: <u>r=1m)</u>					x 4 =	
1. Phalaris aru	ndinacea	100%	Yes	FACW	· ·	x 5 =	
2. Juncus effus	sus		No	FACW		(A)	(B)
3. <u>Hypericum p</u>		1%	No	FACU	Prevalence Index =		
4. <u>Galium apar</u>		1%	No	FACU	Hydrophytic Vegetation India		
5. <u>Digitalis purp</u> o	ourea		No	FACU	1 - Rapid Test for Hydrop		
6		1			X 2 - Dominance Test is >50		
7. •					3 - Prevalence Index is ≤3		1
8. 9.		'			4 - Morphological Adaptat data in Remarks or on		ung
9 10					5 - Wetland Non-Vascular		
10					Problematic Hydrophytic \		
···			Total Cover		<sup>1</sup> Indicators of hydric soil and we		
Woody Vine Stra	atum (Plot size: <u>r=2m)</u>	=			be present.	sana nyarology must	
1. <u>none</u>							
2.					Hydrophytic		
% Bare Ground	in Herb Stratum 0%	=	Total Cover		Vegetation Yes Present?	XNo	
Remarks:							
Paran	netrix						

SOIL							Sampling Point:	W1-SP-1	
Profile Descrip	tion (Describe to the	depth needed	to document the ind	dicator or conf	firm the absence	e of indicators):			
Depth	Matrix				Features				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks	
0-12	10YR 3/2	100					CbL		
12-14	2.5Y 4/2	85	10YR 5/5	15	С	M	GrSiL		
1									
	entration, D=Depletion,					ation: PL=Pore Lining			
					= fine; vf = very f	• (	clay); - = light (less clay)		
Hydric Soil Indi	cators (Applicable to	all LRRs, uni	ess otherwise noted)	):		Indicators for Pro	oblematic Hydric Soils <sup>3</sup> :		
Histosol (A1	)		Sandy Redox (S5	)		2 cm Muck (A	A10)		
Histic Epipe	don (A2)		Stripped Matrix (S	6)		Red Parent N	Naterial (TF2)		
Black Histic	(A3)		Loamy Mucky Min	neral (F1) (exce	pt MLRA 1)	Very Shallow	Dark Surface (TF12)		
Hydrogen Si	ulfide (A4)		Loamy Gleyed Ma	atrix (F2)		Other (Explai	n in Remarks)		
X Depleted Be	low Dark Surface (A11	)	Depleted Matrix (F	=3)					
Thick Dark S	Surface (A12)		Redox Dark Surfa	ice (F6)		<sup>3</sup> Indicators of hydr	ophytic vegetation and wetland		
Sandy Muck	y Mineral (S1)		Depleted Dark Su	rface (F7)			present, unless disturbed or		
Sandy Gleye	ed Matrix (S4)		Redox Depression	ns (F8)		problematic.			
Restrictive Laye	er (if present):								
-	pe: compacted cobble	s				Hydric Soil			
Depth (inches):	·	5				Present?	Yes X	No	
1 ( )									
							•		
HYDROLOG									
Wetland Hydrol	ogy Indicators:								
Primary Indicator	s (minimum of one req	uired; check a	all that apply)			Secondary Indicat	ors (2 or more required)		
Surface Wat	ter (A1)		Water-Stained Le	aves (B9) (exc	ept MLRA	Water-Staine	d Leaves (B9) (MLRA 1, 2,		
High Water	Table (A2)		1, 2, 4A, and 4I	B)		4A, and 4E	3)		
Saturation (A	43)		Salt Crust (B11)			Drainage Pat	terns (B10)		
Water Marks	s (B1)		Aquatic Invertebra	ates (B13)		Dry-Season \	Water Table (C2)		
Sediment De	eposits (B2)		Hydrogen Sulfide	Odor (C1)		Saturation Vi	sible on Aerial Imagery (C9)		
Drift Deposit	ts (B3)		Oxidized Rhizospl	heres along Liv	ing Roots (C3)	X Geomorphic	Position (D2)		
Algal Mat or	Crust (B4)		Presence of Redu	iced Iron (C4)		Shallow Aqui	tard (D3)		
Iron Deposit	s (B5)		Recent Iron Redu	ction in Tilled S	ioils (C6)	X FAC-Neutral Test (D5)			
Surface Soil	Cracks (B6)		Stunted or Stress	ed Plants (D1)	(LRR A)	Raised Ant M	lounds (D6) (LRR A)		
Inundation V	isible on Aerial Imager	y (B7)	Other (Explain in I	Remarks)		Frost-Heave	Hummocks (D7)		
Sparsely Ve	getated Concave Surfa	ice (B8)							
Field Observation	ons:								
Surface Water F	Present? Yes		No <u>X</u>	Depth (inches	s):	Wetland			
Water Table Pre	esent? Yes		No X	Depth (inches		Hydrology	Yes X	No	
Saturation Prese	ent? Yes		No X		s):	Present?			
(includes capilla	ry fringe)								
Describe Recor	ded Data (stream gai	uge, monitori	ng well, aerial photos	s, previous ins	spections), if ava	ailable:			
Bomerke		Ŧ							
Remarks: Hydrology assum	ned to be present for 5°	% minimum of	growing season base	d on hydric vea	etetaion and hvdr	ric soil.			
, <u>,</u> <u>,</u> <u>,</u> <u>,</u>				,					

**Parametrix** ENGINEERING . PLANNING . ENVIRONMENTAL SCIENCES

Project No.: 554-2441-022

Project/Site:	Federal Way City Center Access		City/County:	Federal Way/ł	King	Sampling Date:	7/24/2020
Applicant/Owner	City of Federal Way				State: Washington	Sampling Point:	W1-SP-2
Investigator(s):	Matt Murphy, Aaron Thom			:	Section, Township, Range:	T21N R04E S	10
Landform (hillslop	e, terrace, etc.):	Hillslope		Local re	elief (concave, convex, none):	none Slope	e (%):<3%
Subregion (LRR)	: Northwest Forests and Coast	(LRR A)	Lat: 47.315468	Lo	ng: -122.287727	Datum: NAI	D 1983 (HARN)
Soil Unit (Name-	ID-Hydric Rating): A	lderwood gravelly sa	ndy loam	- AgB	- Not Hydric NWI cla	assification:	None
Are climatic / hyd	Irologic conditions on the site typic	al for this time of yea	ar?	Y	es X No	(If no, explain in Rema	arks)
Are Vegetation	, Soil	, or Hydrology	significantly dis	sturbed? A	re "Normal Circumstances" prese	nt? Yes	<u>X</u> No
Are Vegetation	, Soil	, or Hydrology	naturally proble	ematic? (I	f needed, explain any answers in	Remarks.)	
SUMMARY (	DF FINDINGS – Attach si	te map showing	g sampling poi	int locations	, transects, important fea	itures, etc.	
Hydrophytic Veg	etation Present?	Yes X	No				
Hydric Soil Pres	ent?	Yes X	No	Is the Sampl	ed Area		
Wetland Hydrold	ogy Present?	Yes	No X	within a Wet	land? Yes	No <u>X</u>	
Precipitation:							-
	Seattle Tacoma Airport NOAA we	ather station, precipi	tation was above th	e normal range fo	or the three months prior to the sit	e visit.	
Remarks:	let paired with W1 CD 2 and W1 6	D 2. Comple platic	leasted CE and day	unalona of W/1 C			
Opiano sample p	lot paired with W1-SP-2 and W1-S	5P-3. Sample plot is	located SE and dow	visiope of vv 1-SP	2-1.		
VEGETATIO	N						*
		Absolute	Dominant	Indicator	Dominance Test worksheet	:	
Tree Stratum	(Plot size: <u>r=3m)</u>	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant Species		
<sup>1.</sup> none					That Are OBL, FACW, or FAC	2	(A)
2.							
3.					Total Number of Dominant		
4.					Species Across All Strata:	2	(B)
		0% =	Total Cover				
Sapling/Shrub S	Stratum (Plot size: <u>r=2m)</u>				Percent of Dominant Species		
1. Rubus arme	niacus	40%	Yes	FAC	That Are OBL, FACW, or FAC	: <u>100%</u>	<u>e</u> (A/B)
2.					Prevalence Index workshee	t:	
3.					Total % Cover of:	Multiply by:	_
4.					OBL species	x 1 =	
5.					FACW species	x 2 =	
		40% =	Total Cover		FAC species	x 3 =	
Herb Stratum	(Plot size: <u>r=1m)</u>				FACU species	x 4 =	
1. Agrostis sto	lonifera	100%	Yes	FAC	UPL species	x 5 =	
2. Jacobaea vi	ulgaris	20%	No	FACU	Column Totals:	(A)	(B)
3. Hypericum p	perforatum	2%	No	FACU	Prevalence Index	= B/A =	
4. Juncus effus		1%	No	FACW	Hydrophytic Vegetation Ind	icators:	
5. Holcus lana	tus	1%	No	FAC	1 - Rapid Test for Hydro	ohytic Vegetation	
6.					X 2 - Dominance Test is >	50%	
7.					3 - Prevalence Index is ≤	3.0 <sup>1</sup>	
8.					4 - Morphological Adapta	tions <sup>1</sup> (Provide support	ina
9.					data in Remarks or o		5
10.		_			5 - Wetland Non-Vascula	. ,	
11.		_			Problematic Hydrophytic		
· · · ·		124% =	Total Cover		<sup>1</sup> Indicators of hydric soil and v		
Woody Vine Str	atum (Plot size: <u>r=2m)</u>	12470 =	Total Cover		be present.	ionalia nyarology mast	
1. none							
2.					Hydrophytic		
		0% =	Total Cover		Vegetation Yes	X No	
% Bare Ground	in Herb Stratum 0%				Present?		
Remarks:							

OIL							
ofile Description (Describe to	the depth neede	d to document the inc	dicator or confirm th	e absence of i	indicators):		
Depth N	/atrix		Redox Featur	es			
(inches) Color (moist)	%	Color (moist)	<u> </u>	ype <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remark
0-11 10YR 3/2	100					CbL	
11-13 2.5Y 4/2	85	10YR	15	С	Μ	GrSiL	
ype: C=Concentration, D=Deplet	tion, RM=Reduced	d Matrix, CS=Covered o	or Coated Sand Grains	s. <sup>2</sup> Location	: PL=Pore Lining, N	1=Matrix.	
exture: Sa = sand; Si = silt; C = c	clay; L = loam or lo	oamy. Texture Modifier:	: co = coarse; f = fine;	vf = very fine;	+ = heavy (more cla	y); - = light (less clay)	
dric Soil Indicators (Applicabl	e to all LRRs, un	less otherwise noted	):	h	ndicators for Prob	lematic Hydric Soils <sup>3</sup> :	
Histosol (A1)		Sandy Redox (S5	i)		2 cm Muck (A1	))	
Histic Epipedon (A2)		Stripped Matrix (S	56)	_	Red Parent Mat	erial (TF2)	
Black Histic (A3)		Loamy Mucky Min	neral (F1) (except MLF	RA 1)	Very Shallow D	ark Surface (TF12)	
Hydrogen Sulfide (A4)		Loamy Gleyed Ma	atrix (F2)		Other (Explain i	n Remarks)	
Depleted Below Dark Surface	(A11)	Depleted Matrix (F		_			
Thick Dark Surface (A12)		Redox Dark Surfa		3	Indianters of hude	hutio vocatation and well	
Sandy Mucky Mineral (S1)		Depleted Dark Su	ırface (F7)			hytic vegetation and wetland esent, unless disturbed or	
Sandy Gleyed Matrix (S4)		Redox Depression	ns (F8)		roblematic.	.,	
estrictive Layer (if present):							
······································							
Type: compacted co	hhles			E F	Ivdric Soil		
Type: <u>compacted co</u> Depth (inches): 13	bbles				lydric Soil Present?	Yes X	No
	bbles				-	Yes X	No
Depth (inches): 13	bbles				-	Yes <u>X</u>	No
Depth (inches): 13	bbles				-	Yes <u>X</u>	No
Depth (inches): 13 Pemarks: YDROLOGY etland Hydrology Indicators:				F	Present?		No
Depth (inches): 13 Pemarks: YDROLOGY Vetland Hydrology Indicators:		all that apply)		F	Present?	Yes X	No
Depth (inches): 13 Pemarks: YDROLOGY Vetland Hydrology Indicators:			- eaves (B9) (except ML	F	Secondary Indicators		No
Depth (inches): 13 emarks: YDROLOGY etland Hydrology Indicators: imary Indicators (minimum of one				F	Secondary Indicators	s (2 or more required)	No
Depth (inches): 13 emarks: YDROLOGY fetland Hydrology Indicators: imary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3)		Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11)	B)	F	Secondary Indicators Water-Stained I 4A, and 4B) Drainage Patter	<u>s (2 or more required)</u> Leaves (B9) (MLRA 1, 2, ms (B10)	No
Depth (inches): 13  emarks:  YDROLOGY  /etland Hydrology Indicators: rimary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)		Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra	B) ates (B13)	F	Secondary Indicators Water-Stained I 4A, and 4B) Drainage Patter Dry-Season Wa	s (2 or more required) Leaves (B9) (MLRA 1, 2, ms (B10) tter Table (C2)	No
Depth (inches): 13 emarks: YDROLOGY etland Hydrology Indicators: imary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)		Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide	B) ates (B13) Odor (C1)	RA	Secondary Indicators Water-Stained I 4A, and 4B) Drainage Patter Dry-Season Wa Saturation Visib	s (2 or more required) Leaves (B9) (MLRA 1, 2, ms (B10) tter Table (C2) le on Aerial Imagery (C9)	No
Depth (inches):       13         emarks:       13         YDROLOGY       13         etland Hydrology Indicators:       13         imary Indicators (minimum of one       14         Surface Water (A1)       14         High Water Table (A2)       14         Saturation (A3)       14         Water Marks (B1)       14         Sediment Deposits (B2)       14         Drift Deposits (B3)       14		Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl	B) ates (B13) Odor (C1) heres along Living Ro	RA	Secondary Indicators Water-Stained I 4A, and 4B) Drainage Patter Dry-Season Wa Saturation Visib Geomorphic Po	<u>s (2 or more required)</u> Leaves (B9) (MLRA 1, 2, ms (B10) Iter Table (C2) le on Aerial Imagery (C9) sition (D2)	No
Depth (inches):       13         emarks:       13         YDROLOGY       13         etland Hydrology Indicators:       13         imary Indicators (minimum of one       14         Surface Water (A1)       14         High Water Table (A2)       14         Saturation (A3)       14         Water Marks (B1)       14         Sediment Deposits (B2)       15         Drift Deposits (B3)       14         Algal Mat or Crust (B4)       13		Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl Presence of Redu	B) ates (B13) Odor (C1) heres along Living Rod uced Iron (C4)	RA	Secondary Indicators Water-Stained I 4A, and 4B) Drainage Patter Dry-Season Wa Saturation Visib Geomorphic Po Shallow Aquitar	s (2 or more required) Leaves (B9) (MLRA 1, 2, ms (B10) tter Table (C2) le on Aerial Imagery (C9) sition (D2) d (D3)	No
Depth (inches):       13         emarks:       13         emarks:       13         YDROLOGY       13         retland Hydrology Indicators:       13         rimary Indicators (minimum of one       14         Surface Water (A1)       14         High Water Table (A2)       14         Saturation (A3)       14         Water Marks (B1)       14         Sediment Deposits (B2)       14         Drift Deposits (B3)       14		Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl Presence of Redu	B) ates (B13) Odor (C1) heres along Living Ro	RA	Secondary Indicators Water-Stained I 4A, and 4B) Drainage Patter Dry-Season Wa Saturation Visib Geomorphic Po	s (2 or more required) Leaves (B9) (MLRA 1, 2, ms (B10) tter Table (C2) le on Aerial Imagery (C9) sition (D2) d (D3)	No
Depth (inches):       13         emarks:       13         emarks:       13         IYDROLOGY       13         /etland Hydrology Indicators:       13         rimary Indicators (minimum of one       14         Surface Water (A1)       14         High Water Table (A2)       14         Saturation (A3)       14         Water Marks (B1)       14         Sediment Deposits (B2)       14         Drift Deposits (B3)       14         Algal Mat or Crust (B4)       14		Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl Presence of Redu Recent Iron Redu	B) ates (B13) Odor (C1) heres along Living Rod uced Iron (C4)	RA ots (C3) 6)	Secondary Indicators Water-Stained I 4A, and 4B) Drainage Patter Dry-Season Wa Saturation Visib Geomorphic Po Shallow Aquitar FAC-Neutral Te	s (2 or more required) Leaves (B9) (MLRA 1, 2, ms (B10) tter Table (C2) le on Aerial Imagery (C9) sition (D2) d (D3)	No
Depth (inches): 13 marks: YDROLOGY etland Hydrology Indicators: imary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	e required; check	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl Presence of Redu Recent Iron Redu	B) ates (B13) Odor (C1) heres along Living Rod uced Iron (C4) action in Tilled Soils (Cr ed Plants (D1) (LRR A	RA ots (C3) 6)	Secondary Indicators Water-Stained I 4A, and 4B) Drainage Patter Dry-Season Wa Saturation Visib Geomorphic Po Shallow Aquitar FAC-Neutral Te	s (2 or more required) Leaves (B9) (MLRA 1, 2, ms (B10) Iter Table (C2) le on Aerial Imagery (C9) sition (D2) d (D3) st (D5) inds (D6) (LRR A)	No
Depth (inches):       13         emarks:       13         emarks:       13         YDROLOGY       13         retland Hydrology Indicators:       13         rimary Indicators (minimum of one Surface Water (A1)       14         High Water Table (A2)       14         Saturation (A3)       14         Water Marks (B1)       14         Sediment Deposits (B2)       15         Drift Deposits (B3)       14         Algal Mat or Crust (B4)       17         Iron Deposits (B5)       14         Surface Soil Cracks (B6)       14	e required; check	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl Presence of Redu Recent Iron Redu Stunted or Stress	B) ates (B13) Odor (C1) heres along Living Rod uced Iron (C4) action in Tilled Soils (Cr ed Plants (D1) (LRR A	RA ots (C3) 6)	Secondary Indicators Water-Stained 4A, and 4B) Drainage Patter Dry-Season Wa Saturation Visib Geomorphic Po Shallow Aquitar FAC-Neutral Te Raised Ant Mou	s (2 or more required) Leaves (B9) (MLRA 1, 2, ms (B10) Iter Table (C2) le on Aerial Imagery (C9) sition (D2) d (D3) st (D5) inds (D6) (LRR A)	No
Depth (inches):       13         emarks:       10         etand Hydrology Indicators:       10         surface Water (A1)       10         High Water Table (A2)       10         Saturation (A3)       10         Water Marks (B1)       10         Sediment Deposits (B2)       10         Drift Deposits (B3)       10         Algal Mat or Crust (B4)       10         Iron Deposits (B5)       10         Surface Soil Cracks (B6)       10         Inundation Visible on Aerial Im       10         Sparsely Vegetated Concave S       10	e required; check	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl Presence of Redu Recent Iron Redu Stunted or Stress	B) ates (B13) Odor (C1) heres along Living Rod uced Iron (C4) action in Tilled Soils (Cr ed Plants (D1) (LRR A	RA ots (C3) 6)	Secondary Indicators Water-Stained 4A, and 4B) Drainage Patter Dry-Season Wa Saturation Visib Geomorphic Po Shallow Aquitar FAC-Neutral Te Raised Ant Mou	s (2 or more required) Leaves (B9) (MLRA 1, 2, ms (B10) Iter Table (C2) le on Aerial Imagery (C9) sition (D2) d (D3) st (D5) inds (D6) (LRR A)	No
Depth (inches):       13         emarks:       13         emarks:       13         PyDROLOGY       13         retland Hydrology Indicators:       13         rimary Indicators (minimum of one       13         Surface Water (A1)       14         High Water Table (A2)       14         Saturation (A3)       14         Water Marks (B1)       14         Sediment Deposits (B2)       15         Drift Deposits (B3)       14         Algal Mat or Crust (B4)       11         Iron Deposits (B5)       16         Surface Soil Cracks (B6)       11         Inundation Visible on Aerial Im       15         Sparsely Vegetated Concave S       16         Algel Observations:       17	e required; check	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl Presence of Redu Recent Iron Redu Stunted or Stress	B) ates (B13) Odor (C1) heres along Living Rod uced Iron (C4) action in Tilled Soils (Cr ed Plants (D1) (LRR A	RA	Secondary Indicators Water-Stained 4A, and 4B) Drainage Patter Dry-Season Wa Saturation Visib Geomorphic Po Shallow Aquitar FAC-Neutral Te Raised Ant Mou	s (2 or more required) Leaves (B9) (MLRA 1, 2, ms (B10) Iter Table (C2) le on Aerial Imagery (C9) sition (D2) d (D3) st (D5) inds (D6) (LRR A)	No
Depth (inches):       13         emarks:       13         IYDROLOGY       13         Vetland Hydrology Indicators:       13         rimary Indicators (minimum of one       13         Surface Water (A1)       13         High Water Table (A2)       14         Saturation (A3)       14         Water Marks (B1)       14         Sediment Deposits (B2)       15         Drift Deposits (B3)       14         Algal Mat or Crust (B4)       17         Iron Deposits (B5)       11         Surface Soil Cracks (B6)       11         Inundation Visible on Aerial Im       15         Sparsely Vegetated Concave S       16         Guiface Water Present?       13	e required; check agery (B7) Surface (B8)	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in I	B) ates (B13) Odor (C1) heres along Living Rod uced Iron (C4) action in Tilled Soils (C ed Plants (D1) (LRR A Remarks)	RA	Secondary Indicators Water-Stained I 4A, and 4B) Drainage Patter Dry-Season Wa Saturation Visib Geomorphic Po Shallow Aquitar FAC-Neutral Te Raised Ant Mou Frost-Heave Hu	s (2 or more required) Leaves (B9) (MLRA 1, 2, ms (B10) Iter Table (C2) le on Aerial Imagery (C9) sition (D2) d (D3) st (D5) inds (D6) (LRR A)	No
Depth (inches):       13         emarks:       10         Surface Water Call (A3)       10         Water Table Present?       11         Surface Water Present?       11         Surface Water Present?       11	e required; check agery (B7) Surface (B8) Yes	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospi Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in I No X	B) ates (B13) Odor (C1) heres along Living Rod uced Iron (C4) action in Tilled Soils (C ed Plants (D1) (LRR A Remarks) Depth (inches):	RA ots (C3) 6)	Secondary Indicators Water-Stained I 4A, and 4B) Drainage Patter Dry-Season Wa Saturation Visib Geomorphic Po Shallow Aquitar FAC-Neutral Te Raised Ant Mou Frost-Heave Hu Wetland	s (2 or more required) Leaves (B9) (MLRA 1, 2, ms (B10) tter Table (C2) le on Aerial Imagery (C9) sition (D2) d (D3) st (D5) ands (D6) (LRR A) immocks (D7)	
Depth (inches):       13         emarks:       13         emarks:       13         IYDROLOGY       13         Vetland Hydrology Indicators:       13         rimary Indicators (minimum of one       13         Surface Water (A1)       14         High Water Table (A2)       14         Saturation (A3)       14         Water Marks (B1)       15         Sediment Deposits (B2)       15         Drift Deposits (B3)       15         Algal Mat or Crust (B4)       11         Iron Deposits (B5)       16         Surface Soil Cracks (B6)       10         Inundation Visible on Aerial Im	agery (B7) Surface (B8) Yes Yes	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospi Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in I No X No X	B) ates (B13) Odor (C1) heres along Living Rod uced Iron (C4) action in Tilled Soils (Ca ed Plants (D1) (LRR A Remarks) Depth (inches): Depth (inches):	RA ots (C3) 6)	Secondary Indicators Water-Stained I 4A, and 4B) Drainage Patter Dry-Season Wa Saturation Visib Geomorphic Po Shallow Aquitar FAC-Neutral Te Raised Ant Mou Frost-Heave Hu Wetland Hydrology	s (2 or more required) Leaves (B9) (MLRA 1, 2, ms (B10) tter Table (C2) le on Aerial Imagery (C9) sition (D2) d (D3) st (D5) ands (D6) (LRR A) immocks (D7)	
Depth (inches):       13         emarks:       IYDROLOGY         Vetland Hydrology Indicators:         rimary Indicators (minimum of one         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Im         Sparsely Vegetated Concave S         ield Observations:         Surface Water Present?         Vater Table Present?         Vater Table Present?         Saturation Present?         includes capillary fringe)	e required; check agery (B7) Surface (B8) Yes Yes Yes	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospi Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in I No X No X No X No X	B) ates (B13) Odor (C1) heres along Living Rod uced Iron (C4) action in Tilled Soils (C ed Plants (D1) (LRR A Remarks) Depth (inches): Depth (inches):	RA tots (C3) 6)	Secondary Indicators Water-Stained I 4A, and 4B) Drainage Patter Dry-Season Wa Saturation Visib Geomorphic Po Shallow Aquitar FAC-Neutral Te Raised Ant Mou Frost-Heave Hu Wetland Hydrology Present?	s (2 or more required) Leaves (B9) (MLRA 1, 2, ms (B10) tter Table (C2) le on Aerial Imagery (C9) sition (D2) d (D3) st (D5) ands (D6) (LRR A) immocks (D7)	
Depth (inches):       13         emarks:       13         emarks:       13         emarks:       13         etland Hydrology Indicators:       13         fimary Indicators (minimum of one       13         Surface Water (A1)       14         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 Im       Sparsely Vegetated Concave S         eld Observations:       Surface Water Present?         vater Table Present?       Vater Table Present?	e required; check agery (B7) Surface (B8) Yes Yes Yes	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospi Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in I No X No X No X No X	B) ates (B13) Odor (C1) heres along Living Rod uced Iron (C4) action in Tilled Soils (C ed Plants (D1) (LRR A Remarks) Depth (inches): Depth (inches):	RA tots (C3) 6)	Secondary Indicators Water-Stained I 4A, and 4B) Drainage Patter Dry-Season Wa Saturation Visib Geomorphic Po Shallow Aquitar FAC-Neutral Te Raised Ant Mou Frost-Heave Hu Wetland Hydrology Present?	s (2 or more required) Leaves (B9) (MLRA 1, 2, ms (B10) tter Table (C2) le on Aerial Imagery (C9) sition (D2) d (D3) st (D5) ands (D6) (LRR A) immocks (D7)	
Depth (inches):       13         emarks:       13         emarks:       13         emarks:       13         etland Hydrology Indicators:       13         imary Indicators (minimum of one       13         Surface Water (A1)       14         High Water Table (A2)       14         Saturation (A3)       14         Water Marks (B1)       14         Sediment Deposits (B2)       15         Drift Deposits (B3)       14         Algal Mat or Crust (B4)       11         Iron Deposits (B5)       15         Surface Soil Cracks (B6)       11         Inundation Visible on Aerial Im       15         Sparsely Vegetated Concave S       15         eld Observations:       15         water Table Present?       15         Vater Table Present?       16         Vater Table Present?       17         Vaturation Present?       16         Maturation Present?       16	e required; check agery (B7) Surface (B8) Yes Yes Yes	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospi Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in I No X No X No X No X	B) ates (B13) Odor (C1) heres along Living Rod uced Iron (C4) action in Tilled Soils (C ed Plants (D1) (LRR A Remarks) Depth (inches): Depth (inches):	RA tots (C3) 6)	Secondary Indicators Water-Stained I 4A, and 4B) Drainage Patter Dry-Season Wa Saturation Visib Geomorphic Po Shallow Aquitar FAC-Neutral Te Raised Ant Mou Frost-Heave Hu Wetland Hydrology Present?	s (2 or more required) Leaves (B9) (MLRA 1, 2, ms (B10) tter Table (C2) le on Aerial Imagery (C9) sition (D2) d (D3) st (D5) ands (D6) (LRR A) immocks (D7)	

**Parametrix** 

ENGINEERING . PLANNING . ENVIRONMENTAL SCIENCES

Project No.: 554-2441-022

US Army Corps of Engineers Western Mountains, Valleys, and Coast Region (Version 2.0)

Project/Site:	City Center Access		City/County:	Federal Way	/ King	Sampling Date:	5/03/2021
Applicant/Owner	KC Fire Protection Dist 39				State: WA	Sampling Po	int: W1-SP-2.1
Investigator(s):	Josh Wozniak, Amanda We	iss		_	Section, Township, Range:	T21N R04E	E S10
Landform (hillslop	e, terrace, etc.):	Terrace		Local r	elief (concave, convex, none):	concave SI	ope (%): <u>None</u>
Subregion (LRR)	: Northwest Forests and Coa	st (LRR A))	Lat: 47.315678	Lo	ong: -122.288620	Datum: N	NAD 1983 (HARN)
Soil Unit (Name-	D-Hydric Rating): Al	derwood gravelly sar	idy loam -	AgB		VI classification:	None
Are climatic / hyd	rologic conditions on the site ty	•				(If no, explain in Re	
Are Vegetation	, Soil	, or Hydrology	significantly dis	turbed? A	re "Normal Circumstances" ہ		es <u>X</u> No
Are Vegetation	, Soil				If needed, explain any answe		
SUMMARY C	F FINDINGS – Attach s	ite map showin	g sampling poir	nt locations	, transects, important	features, etc.	
Hydrophytic Veg	etation Present?	Yes X	No				
Hydric Soil Pres		Yes	No <u>X</u>	Is the Samp			
Wetland Hydrold	ogy Present?	Yes	No X	within a We	tiand? Yes	<u> </u>	
Precipitation: According to the	Tacoma NOAA weather station	, precipitation was be	low the normal range	e for the three r	months prior to the site visit.		
Remarks:							
	t is located upslope of Wetland	1. It is in proximity to	Scouler's willow and	salmonberry.			
VEGETATIO	N						-
		Absolute	Dominant	Indicator	Dominance Test works	heet:	
Tree Stratum	(Plot size: <u>r=3m)</u>	<u>% Cover</u>	Species?	Status	Number of Dominant Sp		
1. Salix scoule	riana	20%	Yes	FAC	That Are OBL, FACW, o		3 (A)
2.							( )
3.					Total Number of Domina	nt	
4.					Species Across All Strata	a:	4 (B)
		20%	= Total Cover				、
Sapling/Shrub S	Stratum (Plot size: <u>r=2m)</u>				Percent of Dominant Spe	ecies	
1. Rubus arme	niacus	20%	Yes	FAC	That Are OBL, FACW, o	r FAC: <u>75</u>	<u>5%</u> (A/B)
2. Rubus spec	tabilis	10%	Yes	FAC	Prevalence Index work	sheet:	
3.					Total % Cover of:	Multiply by:	
4.					OBL species	x 1 =	
5.					FACW species	x 2 =	
		<u> </u>	= Total Cover		FAC species	x 3 =	
<u>Herb Stratum</u>	(Plot size: <u>r=1m)</u>				FACU species	x 4 =	
1. Dicentra form	nosa	40%	Yes	FACU	UPL species	x 5 =	
2. Polystichum	munitum	10%	No	FACU	Column Totals:	(A)	(B)
3. Carex bolan	deri	3%	No	FAC	Prevalence In	dex = B/A =	
4. Hypericum p	perforatum	1%	No	FACU	Hydrophytic Vegetation		
5.					1 - Rapid Test for H	ydrophytic Vegetation	
6.					X 2 - Dominance Test	is >50%	
7					3 - Prevalence Inde	x is ≤3.0 <sup>1</sup>	
8.						daptations <sup>1</sup> (Provide sup	
9.					data in Remarks	or on a separate sheet)	
10					5 - Wetland Non-Va		
11						hytic Vegetation (Explain	
	(Dist sizes r=2m)	<u> </u>	= Total Cover		<sup>1</sup> Indicators of hydric soil	and wetland hydrology m	nust
Woody Vine Str 1.	<u>atum</u> (Plot size: <u>r=2m)</u>				be present.		
2.				·	Hydrophytic		
		0%	= Total Cover		Vegetation	Yes X No	
% Bare Ground	in Herb Stratum 0%				Present?		
Remarks:							
Nemarks.							

**Parametrix** ENGINEERING . PLANNING . ENVIRONMENTAL SCIENCES

Project No.: 554-2441-022

SOIL						Sampling Point:	W1-SP-2.1
Profile Description (Desc	cribe to the depth need	ded to document the in	dicator or co	nfirm the absend	ce of indicators):		
Depth	Matrix			Features	· - /		
	(moist) %	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
	R 3/2 100					GrL	
	R 6/1					GrSL	
	R 4/4					CoL	
<sup>1</sup> Type: C=Concentration, E	)=Depletion_RM=Reduc	ed Matrix CS=Covered	or Coated Sa	nd Grains <sup>2</sup> l o	cation: PL=Pore Lini	ng M=Matrix	
<sup>3</sup> Texture: Sa = sand; Si = s	•						
Hydric Soil Indicators (Ap						blematic Hydric Soils <sup>3</sup> :	
Histosol (A1)		Sandy Redox (S5			2 cm Muck (A		
Histic Epipedon (A2)		Stripped Matrix (S			Red Parent M		
				opt ML DA 1)			
Black Histic (A3) Hydrogen Sulfide (A4)		Loamy Mucky Mir Loamy Gleyed Ma		-ριινιεκκ I)	Other (Explain	Dark Surface (TF12)	
Depleted Below Dark \$	Surface ( $\Delta 11$ )	Depleted Matrix (F	. ,				
Thick Dark Surface (A		Redox Dark Surfa					
Sandy Mucky Mineral		Depleted Dark Su				ophytic vegetation and wetlan	
Sandy Gleyed Matrix (		Redox Depression			hydrology must be problematic.	present, unless disturbed or	
	-				prositionality		
Restrictive Layer (if prese	ent):				Undria Cail		
Type:					Hydric Soil	Vac	No X
Depth (inches):					Present?	Yes	No <u>X</u>
HYDROLOGY							
Wetland Hydrology Indica							
Primary Indicators (minimu	<u>m of one required; chec</u>	k all that apply)			Secondary Indicate	ors (2 or more required)	
Surface Water (A1)		Water-Stained Le	aves (B9) (exc	ept MLRA	Water-Stained	d Leaves (B9) (MLRA 1, 2,	
High Water Table (A2)		1, 2, 4A, and 4I	3)		4A, and 4B	,	
Saturation (A3)		Salt Crust (B11)			Drainage Patt		
Water Marks (B1)		Aquatic Invertebra	. ,			Vater Table (C2)	
Sediment Deposits (B2	2)	Hydrogen Sulfide				ible on Aerial Imagery (C9)	
Drift Deposits (B3)		Oxidized Rhizosp	-	ving Roots (C3)	Geomorphic F		
Algal Mat or Crust (B4		Presence of Redu		/	Shallow Aquit		
Iron Deposits (B5)		Recent Iron Redu		( )	FAC-Neutral		
Surface Soil Cracks (E		Stunted or Stress		(LRR A)		ounds (D6) (LRR A)	
Inundation Visible on A		Other (Explain in I	Remarks)		Frost-Heave I	Hummocks (D7)	
Sparsely Vegetated Co	oncave Surface (B8)						
Field Observations:							
Surface Water Present?	Yes	NoX		s):	Wetland		
Water Table Present?	Yes	No <u>X</u>	Depth (inches		Hydrology	Yes	No <u>X</u>
Saturation Present? (includes capillary fringe)	Yes	NoX	Depth (inches	;):	Present?		
Describe Recorded Data	(stream gauge, monit	oring well, aerial photo	os, previous ir	nspections), if av	vailable:		
Remarks:							
Remarks:							

Project/Site: F	Federal Way City Center Acce	ess	City/County:	Federal Way/Kir	ng	Sampling Date:	7/24/2020
Applicant/Owner:	City of Federal Way				State: Washington	Sampling Point:	W2-SP-3
Investigator(s):	Per Johnson, Matt Murphy	/, Aaron Thom		Se	ection, Township, Range:	T21N R04E S	10
Landform (hillslope	e, terrace, etc.):	Hillslop	e	Local relie	ef (concave, convex, none): co	oncave Slope	e (%): 3-5%
Subregion (LRR):	Northwest Forests and Co	oast (LRR A)	Lat: 47.315296	 Long	: -122.290276	Datum: NAI	D 1983 (HARN)
Soil Unit (Name-II	D-Hydric Rating):	Alderwood gravelly sa	ndy loam -	- AgB -	Not hydric NWI cla	ssification:	None
Are climatic / hydr	rologic conditions on the site t	ypical for this time of y	ear?	Yes	X No	(If no, explain in Rema	arks)
Are Vegetation	, Soil	, or Hydrology	significantly dis	sturbed? Are	"Normal Circumstances" preser	nt? Yes	<u>X</u> No
Are Vegetation	, Soil	, or Hydrology	naturally proble	ematic? (If n	needed, explain any answers in F	≀emarks.)	
SUMMARY O	F FINDINGS – Attach	site map showi	ng sampling poi	nt locations, t	transects, important fea	tures, etc.	
Hydrophytic Vege	etation Present?	Yes X	No				
Hydric Soil Prese	ent?	Yes	No <b>X</b>	Is the Sampled			
Wetland Hydrolog	gy Present?	Yes X	No	within a Wetla	nd? Yes	<u>No X</u>	-
Precipitation:							
According to the S	Seattle Tacoma Airport NOAA	weather station, preci	pitation was above the	e normal range for	the three months prior to the site	e visit.	
Remarks:							
	ed north of S. 320th St., north	n of upland berm with e	vidence of ponding up	to 6-inches above	e surface.		
VEGETATION	N						
	- 3m s	emi- Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum	(Plot size: circ		Species?	<u>Status</u>	Number of Dominant Species		
1. Malus fusca	Υ.	100%	Yes	FACW	That Are OBL, FACW, or FAC	. 2	(A)
2.						·	
3.					Total Number of Dominant		
4.					Species Across All Strata:	3	(B)
	2m s	omi 100%	= Total Cover				( )
Sapling/Shrub S					Percent of Dominant Species		
1. Rubus leuco	dermis	20%	Yes	FACU	That Are OBL, FACW, or FAC	: <u>67%</u>	(A/B)
2. Spiraea doug	ylasii	15%	Yes	FACW	Prevalence Index worksheet		, <i>,</i> ,
3. Rubus armer	niacus	5%	No	FAC	Total % Cover of:	Multiply by:	_
4. Rubus lacinia	atus	5%	No	FACU	OBL species	x 1 =	
5.					FACW species	x 2 =	
		45%	= Total Cover		FAC species	x 3 =	
<u>Herb Stratum</u>	(Plot size: <u>r=1m)</u>				FACU species	x 4 =	
1. <u>none</u>					UPL species	x 5 =	
2.					Column Totals:	(A)	(B)
3.					Prevalence Index =	= B/A =	
4.					Hydrophytic Vegetation Indi	cators:	
5.					1 - Rapid Test for Hydrop	hytic Vegetation	
6.					X 2 - Dominance Test is >5	0%	
7					3 - Prevalence Index is ≤	3.0 <sup>1</sup>	
8.					4 - Morphological Adaptat	ions <sup>1</sup> (Provide support	ing
9.					data in Remarks or on	a separate sheet)	
10					5 - Wetland Non-Vascular	r Plants <sup>1</sup>	
11					Problematic Hydrophytic	√egetation (Explain) <sup>1</sup>	
	2m s		= Total Cover		<sup>1</sup> Indicators of hydric soil and w	etland hydrology must	
Woody Vine Stra	atum (Plot size: circ	cle			be present.		
1. <u>none</u> 2.					Hydrophytic		
		0%	= Total Cover		Vegetation Yes	X No	
% Bare Ground i	in Herb Stratum 09	%			Present?		
Remarks:							
Nemarks.							
	_						

SOIL							Sampling Point:	W2-SP-3
	tion (Describe to the	depth needed t	to document the inc	dicator or confirm	n the absence	of indicators):	eunping roma	
Depth	Matrix			Redox Fe		· · · · · · <b>,</b>		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-10	10YR 3/3	,,,			. 71		L	Homanio
10-16	10YR 3/6	90	7.5YR 4/6	10	С	M	L	
10 10	10111 0/0		1.011(4)0				<u> </u>	
	· · · · · · · · · · · · · · · · · · ·							
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	· · · · · · · · · · · · · · · · · · ·							
1								
	entration, D=Depletion,					tion: PL=Pore Lining		
					ine; vf = very fi		clay); - = light (less clay)	
Hydric Soil Indi	cators (Applicable to	all LRRs, unles	ss otherwise noted)	):		Indicators for Pr	oblematic Hydric Soils <sup>3</sup> :	
Histosol (A1	)		Sandy Redox (S5)	)		2 cm Muck (	A10)	
Histic Epipe	don (A2)		Stripped Matrix (S	6)		Red Parent I	Material (TF2)	
Black Histic	(A3)	_	Loamy Mucky Min	eral (F1) (except l	MLRA 1)	Very Shallow	Dark Surface (TF12)	
Hydrogen S	ulfide (A4)		Loamy Gleyed Ma	atrix (F2)		Other (Expla	in in Remarks)	
Depleted Be	elow Dark Surface (A11	)	Depleted Matrix (F	=3)				
Thick Dark S	Surface (A12)		Redox Dark Surfa	ice (F6)		<sup>3</sup> Indicators of hydr	ophytic vegetation and wetland	
Sandy Muck	ky Mineral (S1)		Depleted Dark Su	rface (F7)			e present, unless disturbed or	
Sandy Gleye	ed Matrix (S4)	_	Redox Depression	ns (F8)		problematic.		
Restrictive Laye	er (if present):							
Ту	/pe:					Hydric Soil		
Depth (inches)	:					Present?	Yes	No X
Remarks:								
							*	
HYDROLOG	V						*	
Wetland Hydrol							•	
_	ogy Indicators:							
Primary Indicator		uired; check all	that apply)			Secondary Indica	ors (2 or more required)	
Primary Indicator	ogy Indicators: rs (minimum of one req	uired; check all	that apply) Water-Stained Le:	aves (B9) (except	MLRA	-	ors (2 or more required) ed Leaves (B9) (MLRA 1, 2,	
-	l <b>ogy Indicators:</b> rs (minimum of one req ter (A1)	uired; check all.			MLRA	-	d Leaves (B9) (MLRA 1, 2,	
Surface Wai High Water Saturation (/	l <b>ogy Indicators:</b> r <u>s (minimum of one req</u> ter (A1) Table (A2) A3)	uired; check all	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11)	В)	MLRA	Water-Staine	ed Leaves (B9) (MLRA 1, 2, 3)	
Surface Water	l <b>ogy Indicators:</b> r <u>s (minimum of one req</u> ter (A1) Table (A2) A3)	uired; check all	Water-Stained Lea 1, 2, 4A, and 4B Salt Crust (B11) Aquatic Invertebra	B) ates (B13)	MLRA	Water-Staine 4A, and 4 Drainage Pa	ed Leaves (B9) (MLRA 1, 2, 3)	
Surface Wai High Water Saturation (/	l <b>ogy Indicators:</b> r <u>s (minimum of one req</u> ter (A1) Table (A2) A3) s (B1)	uired; check all	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11)	B) ates (B13)	MLRA	Water-Staine 4A, and 4 Drainage Pa Dry-Season	ed Leaves (B9) (MLRA 1, 2, 3) tterns (B10)	
Surface Wa High Water Saturation (/ Water Marks	logy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2)	uired; check all	Water-Stained Lea 1, 2, 4A, and 4B Salt Crust (B11) Aquatic Invertebra	B) ates (B13) Odor (C1)		Water-Staine 4A, and 4 Drainage Pa Dry-Season Saturation V	ed Leaves (B9) (MLRA 1, 2, 3) tterns (B10) Water Table (C2)	
Surface Wai High Water Saturation (/ Water Marks X Sediment Do	logy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3)	uired; check all	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide	B) ates (B13) Odor (C1) heres along Living		Water-Staine 4A, and 4 Drainage Pa Dry-Season Saturation V	ed Leaves (B9) (MLRA 1, 2, 3) Itterns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2)	
Surface War High Water Saturation (/ Water Marks X Sediment De Drift Deposit	logy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) · Crust (B4)	uired; check all	Water-Stained Lea 1, 2, 4A, and 4B Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph	B) ates (B13) Odor (C1) heres along Living uced Iron (C4)	Roots (C3)	Water-Staine 4A, and 4 Drainage Pa Dry-Season Saturation V Geomorphic	ed Leaves (B9) (MLRA 1, 2, 3) tterns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3)	
Surface Wai High Water Saturation (/ Water Marks X Sediment De Drift Deposit Algal Mat or Iron Deposit	logy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) · Crust (B4)	uired; check all	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu	B) Odor (C1) heres along Living uced Iron (C4) ction in Tilled Soils	Roots (C3) s (C6)	Water-Staine 4A, and 4 Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutral	ed Leaves (B9) (MLRA 1, 2, 3) tterns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3)	
Surface Wai High Water Saturation (/ Water Marks X Sediment Do Drift Deposit Algal Mat or Iron Deposit Surface Soil	logy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) <sup>c</sup> Crust (B4) ts (B5)		Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Redu	B) Odor (C1) heres along Living uced Iron (C4) ction in Tilled Soils ed Plants (D1) (LF	Roots (C3) s (C6)	Water-Staine 4A, and 4 Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutral Raised Ant N	ed Leaves (B9) (MLRA 1, 2, 3) tterns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5)	
Surface Wai High Water Saturation (/ Water Marks X Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V	logy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) • Crust (B4) ts (B5) I Cracks (B6)	y (B7)	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Stunted or Stresso	B) Odor (C1) heres along Living uced Iron (C4) ction in Tilled Soils ed Plants (D1) (LF	Roots (C3) s (C6)	Water-Staine 4A, and 4 Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutral Raised Ant N	ed Leaves (B9) (MLRA 1, 2, 3) Itterns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) Mounds (D6) (LRR A)	
Surface Wai High Water Saturation (/ Water Marks X Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V	logy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) • Crust (B4) ts (B5) I Cracks (B6) /isible on Aerial Imager egetated Concave Surfa	y (B7)	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Stunted or Stresso	B) Odor (C1) heres along Living uced Iron (C4) ction in Tilled Soils ed Plants (D1) (LF	Roots (C3) s (C6)	Water-Staine 4A, and 4 Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutral Raised Ant N	ed Leaves (B9) (MLRA 1, 2, 3) Itterns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) Mounds (D6) (LRR A)	
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Surface Wai High Water Saturation (/ Water Marks X Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V Sparsely Ve Field Observatio Surface Water F Water Table Press	logy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) • Crust (B4) ts (B5) I Cracks (B6) /isible on Aerial Imager egetated Concave Surfa ons: Present? Yes esent? Yes	y (B7) ace (B8)	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresso Other (Explain in F	B) ates (B13) Odor (C1) heres along Living uced Iron (C4) ction in Tilled Soils ed Plants (D1) (LF Remarks) Depth (inches): Depth (inches):	Roots (C3) s (C6) RR A)	Water-Staine 4A, and 4 Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutral Raised Ant M Frost-Heave	ed Leaves (B9) (MLRA 1, 2, 3) tterns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) founds (D6) (LRR A) Hummocks (D7)	No
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Project/Site: Federal Way City	Center Access	City/County:	Federal Way/Ki	ng	Sampling Date: 7/24/2020
Applicant/Owner: City of Federa	al Way			State: Washington	Sampling Point: W2-SP-4
Investigator(s): Per Johnson,	Matt Murphy, Aaron Thom		Se	ection, Township, Range:	T21N R04E S10
Landform (hillslope, terrace, etc.):	Depress	ion	Local reli	ef (concave, convex, none):co	ncave Slope (%): <3%
Subregion (LRR): Northwest Fo	rests and Coast (LRR A)	Lat: 47.315216	Long	g: <u>-122.290916</u>	Datum: NAD 1983 (HARN)
Soil Unit (Name-ID-Hydric Rating):				,	ssification: None
Are climatic / hydrologic conditions					(If no, explain in Remarks)
Are Vegetation , S	Soil, or Hydrology Soil, or Hydrology	significantly dist	Curbed? Are	e "Normal Circumstances" preser needed, explain any answers in F	
SUMMARY OF FINDINGS		* * * *	it locations,	transects, important fea	tures, etc.
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes X Yes X	No No	Is the Sample	d Area	
Wetland Hydrology Present?	Yes X	No	within a Wetla		No
Precipitation:	100 <u>X</u>				
According to the Seattle Tacoma A	Airport NOAA weather station, prec	pitation was above the	normal range for	the three months prior to the site	e visit.
Demoder					
Remarks: W2-SP-4 is located approximately	500 feet west of Weverhaeuser W	av S and S 320th St. w	est of a ditch.		
VEGETATION					
	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot	size: <u>r=3m) % Cover</u>	Species?	<u>Status</u>	Number of Dominant Species	
1. Populus balsamifera	65%	Yes	FAC	That Are OBL, FACW, or FAC	: 5 (A)
2.					
3.				Total Number of Dominant	
4.				Species Across All Strata:	<u> </u>
	65%	= Total Cover			
A	size: <u>r=2m)</u>			Percent of Dominant Species	400%
<ol> <li><u>Cornus alba</u></li> <li>Spiraea douglasii</li> </ol>	60%	Yes	FACW	That Are OBL, FACW, or FAC	
2	20%	Yes	FACW	Prevalence Index worksheet Total % Cover of:	: Multiply by:
<ul> <li><u>Lonicera involucrata</u></li> <li>4. Rosa nutkana</li> </ul>	15%	No No	FAC FAC		x 1 = 0
5.	5%	No	FAC	· · · · · ·	x 2 = 160
	100%	= Total Cover			x 3 = 465
Herb Stratum (Plot	size: <u>r=1m)</u>			FACU species 0	x 4 = 0
1. Agrostis capillaris	35%	Yes	FAC		x 5 = 0
2. Poa pratensis	35%	Yes	FAC	Column Totals: 235	(A) 625 (B)
3.				Prevalence Index	
4.				Hydrophytic Vegetation Indi	cators:
5.				1 - Rapid Test for Hydrop	hytic Vegetation
6.				X 2 - Dominance Test is >5	0%
7.				3 - Prevalence Index is ≤	3.0 <sup>1</sup>
8				4 - Morphological Adaptat	ions <sup>1</sup> (Provide supporting
9.				data in Remarks or on	a separate sheet)
10				5 - Wetland Non-Vascular	
11				Problematic Hydrophytic	
Marsha Mars Otratana (Dist		= Total Cover		<sup>1</sup> Indicators of hydric soil and w	etland hydrology must
Woody Vine Stratum (Plot 1. none	size: <u>r=2m)</u>			be present.	
2.				Hydrophytic	
	0%	= Total Cover		Vegetation Yes	X No
% Bare Ground in Herb Stratum	30%			Present?	
Remarks:					
Area appears to be planted given t	hat the trees have collars around t	nem.			

Parametrix

SOIL							Sampling Point:	W2-SP-4
	tion (Describe to the	depth needec	to document the ind	licator or conf	firm the absence o	of indicators):		
Depth	` Matrix	•			Features			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-2	10YR 3/2	100					CbGrL	
2-16	2.5Y 3/2	60	2.5Y 5/2	35	D	M	CbGrL	
	·		10YR 5/8	5	С	М		
	entration, D=Depletion,	RM-Reduced	Matrix CS-Covered o	or Coated Sand	Crains <sup>2</sup> Locati	on: PL=Pore Lining	M=Matrix	
••	•						clay); - = light (less clay)	
	cators (Applicable to				– IIIIe, VI – Very III	•	oblematic Hydric Soils <sup>3</sup> :	
-		an Lixixs, uni						
Histosol (A1)	,		Sandy Redox (S5)			2 cm Muck (		
Histic Epipeo			Stripped Matrix (S				Material (TF2)	
Black Histic		•	Loamy Mucky Min		pt MLRA 1)		/ Dark Surface (TF12)	
Hydrogen Su			Loamy Gleyed Ma			Other (Expla	in in Remarks)	
	low Dark Surface (A11 Surface (A12)	)	X Depleted Matrix (F Redox Dark Surfa	-				
	y Mineral (S1)		Depleted Dark Sulla				rophytic vegetation and wetland	
	ed Matrix (S4)		Redox Depression			hydrology must be problematic.	e present, unless disturbed or	
				IS (FO)		problematic.		
Restrictive Laye								
Tvi	pe:					Hydric Soil		
Depth (inches):	:					Present?	Yes <u>X</u>	No
Depth (inches):						Present?	Yes <u>X</u>	No
Depth (inches):						Present?	Yes <u>X</u>	No
Depth (inches):	Υ					Present?	Yes X	No
Depth (inches): Remarks: HYDROLOG	Υ	uired; check a	ill that apply)				Yes X tors (2 or more required)	No
Depth (inches): Remarks: HYDROLOG	Y ogy Indicators: rs (minimum of one req	uired; check a	Il that apply)	aves (B9) (exc	ept MLRA	Secondary Indica		No
Depth (inches): Remarks: HYDROLOG Wetland Hydrolo Primary Indicator	Y ogy Indicators: rs (minimum of one req ter (A1)	uired; check a			ept MLRA	Secondary Indica	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2,	No
Depth (inches): Remarks: HYDROLOG Wetland Hydrold Primary Indicator Surface Wat High Water Saturation (A	<b>Y</b> ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3)	uired; check a	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11)	3)	ept MLRA	Secondary Indica Water-Stain	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, B)	No
Depth (inches): Remarks: HYDROLOG' Wetland Hydrold Primary Indicator Surface Wat High Water	<b>Y</b> ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3)	uired; check a	Water-Stained Lea 1, 2, 4A, and 4E	3)	ept MLRA	Secondary Indica Water-Staine 4A, and 4 Drainage Pa	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, B)	No
Depth (inches): Remarks: HYDROLOG Wetland Hydrold Primary Indicator Surface Wat High Water Saturation (A	Y ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1)	uired; check a	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11)	3) ates (B13)	ept MLRA	Secondary Indica Water-Stain 4A, and 4 Drainage Pa Dry-Season	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, B) tterns (B10)	No
Depth (inches): Remarks: HYDROLOG Wetland Hydrold Primary Indicator Surface Wat High Water Saturation (A Water Marks	Y ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2)	uired; check a	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra	3) ates (B13) Odor (C1)		Secondary Indica Water-Stain 4A, and 4 Drainage Pa Dry-Season Saturation V	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2)	No
Depth (inches): Remarks: HYDROLOG' Wetland Hydrold Primary Indicator Surface Wat High Water Saturation (A Water Marks Sediment De	Y ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3)	uired; check a	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide (	3) ates (B13) Odor (C1) heres along Liv		Secondary Indica Water-Stain 4A, and 4 Drainage Pa Dry-Season Saturation V	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9) Position (D2)	No
Depth (inches): Remarks: HYDROLOG Wetland Hydrold Primary Indicator Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposit X Algal Mat or Iron Deposit	Y ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5)	uired; check a	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduc	ates (B13) Odor (C1) heres along Liv ced Iron (C4) ction in Tilled S	ing Roots (C3) coils (C6)	Secondary Indica Water-Staine 4A, and 4 Drainage Pa Dry-Season Saturation V Geomorphic	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9) Position (D2) itard (D3)	No
Depth (inches): Remarks: HYDROLOG Wetland Hydrold Primary Indicator Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposit X Algal Mat or Iron Deposits X Surface Soil	Y ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) Cracks (B6)		Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide ( Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse	a) Ates (B13) Odor (C1) heres along Liv ced Iron (C4) ction in Tilled S ced Plants (D1)	ing Roots (C3) coils (C6)	Secondary Indica Water-Stain 4A, and 4 Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutral	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9) Position (D2) itard (D3)	No
Depth (inches): Remarks: HYDROLOG <sup>1</sup> Wetland Hydrold Primary Indicator Surface Wat High Water <sup>-</sup> Saturation (A Water Marks Sediment De Drift Deposit X Algal Mat or Iron Deposits X Surface Soil Inundation V	Y ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) Cracks (B6) 'isible on Aerial Imager	y (B7)	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduc	a) Ates (B13) Odor (C1) heres along Liv ced Iron (C4) ction in Tilled S ced Plants (D1)	ing Roots (C3) coils (C6)	Secondary Indica Water-Staine 4A, and 4 Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutral Raised Ant N	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9) Position (D2) itard (D3) Test (D5)	No
Depth (inches): Remarks: HYDROLOG <sup>1</sup> Wetland Hydrold Primary Indicator Surface Wat High Water <sup>-</sup> Saturation (A Water Marks Sediment De Drift Deposit X Algal Mat or Iron Deposits X Surface Soil Inundation V	Y ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) Cracks (B6)	y (B7)	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide ( Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse	a) Ates (B13) Odor (C1) heres along Liv ced Iron (C4) ction in Tilled S ced Plants (D1)	ing Roots (C3) coils (C6)	Secondary Indica Water-Staine 4A, and 4 Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutral Raised Ant N	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9) Position (D2) itard (D3) Test (D5) <i>I</i> ounds (D6) (LRR A)	No
Depth (inches): Remarks: HYDROLOG <sup>1</sup> Wetland Hydrold Primary Indicator Surface Wat High Water <sup>-</sup> Saturation (A Water Marks Sediment De Drift Deposit X Algal Mat or Iron Deposits X Surface Soil Inundation V	Y ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) Cracks (B6) 'isible on Aerial Imager getated Concave Surfa	y (B7)	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide ( Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse	a) Ates (B13) Odor (C1) heres along Liv ced Iron (C4) ction in Tilled S ced Plants (D1)	ing Roots (C3) coils (C6)	Secondary Indica Water-Staine 4A, and 4 Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutral Raised Ant N	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9) Position (D2) itard (D3) Test (D5) <i>I</i> ounds (D6) (LRR A)	No
Depth (inches): Remarks: HYDROLOG Wetland Hydrold Primary Indicator Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposit X Algal Mat or Iron Deposits X Surface Soil Inundation V Sparsely Veg	Y ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) Cracks (B6) 'isible on Aerial Imager getated Concave Surfa	y (B7) ace (B8)	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide ( Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse Other (Explain in F	a) Ates (B13) Odor (C1) heres along Liv ced Iron (C4) ction in Tilled S ced Plants (D1)	ing Roots (C3) coils (C6) (LRR A)	Secondary Indica Water-Staine 4A, and 4 Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutral Raised Ant N	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9) Position (D2) itard (D3) Test (D5) <i>I</i> ounds (D6) (LRR A)	No
Depth (inches): Remarks: HYDROLOG <sup>1</sup> Wetland Hydrold Primary Indicator Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposit X Algal Mat or Iron Deposits X Surface Soil Inundation V Sparsely Veg Field Observatio	Y ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) Crust (B4) s (B5) Cracks (B6) 'isible on Aerial Imager getated Concave Surfa ons: Present? Yes	y (B7) ice (B8)	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide ( Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse Other (Explain in F	a) odor (C1) neres along Liv ced Iron (C4) ction in Tilled S ed Plants (D1) Remarks)	ing Roots (C3) colls (C6) (LRR A)	Secondary Indica Water-Staine 4A, and 4 Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutral Raised Ant N Frost-Heave	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9) Position (D2) itard (D3) Test (D5) <i>I</i> ounds (D6) (LRR A)	No
Depth (inches): Remarks: HYDROLOG Wetland Hydrold Primary Indicator Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposit X Algal Mat or Iron Deposits X Surface Soil Inundation V Sparsely Veg Field Observatio Surface Water P Water Table Pre Saturation Prese	Y ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) Cracks (B6) 'isible on Aerial Imager getated Concave Surfa ons: Present? Yes sent? Yes	y (B7) ace (B8)	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse Other (Explain in F	a) ates (B13) Odor (C1) heres along Liv ced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) Depth (inches	ing Roots (C3) coils (C6) (LRR A)	Secondary Indica Water-Staine 4A, and 4 Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutral Raised Ant N Frost-Heave	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9) Position (D2) itard (D3) Test (D5) Aounds (D6) (LRR A) Hummocks (D7)	
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Depth (inches): Remarks: HYDROLOG <sup>1</sup> Wetland Hydrold Primary Indicator Surface Water High Water Saturation (A Water Marks Sediment De Drift Deposit X Algal Mat or Iron Deposits X Surface Soil Inundation V Sparsely Vee Field Observatio Surface Water P Water Table Pre Saturation Prese (includes capillar	Y ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) Cracks (B6) risible on Aerial Imager getated Concave Surfa ons: Present? Yes esent? Yes ry fringe)	y (B7) ace (B8)	Water-Stained Lea         1, 2, 4A, and 4E         Salt Crust (B11)         Aquatic Invertebra         Hydrogen Sulfide         Oxidized Rhizosph         Presence of Redu         Recent Iron Reduc         Stunted or Stresse         Other (Explain in F         No       X         No       X         No       X	a) htes (B13) Odor (C1) heres along Liv ced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) Depth (inches Depth (inches	ing Roots (C3) soils (C6) (LRR A)	Secondary Indica Water-Staine 4A, and 4 Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutral Raised Ant N Frost-Heave Wetland Hydrology Present?	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9) Position (D2) itard (D3) Test (D5) Aounds (D6) (LRR A) Hummocks (D7)	
Depth (inches): Remarks: HYDROLOG <sup>1</sup> Wetland Hydrold Primary Indicator Surface Water High Water Saturation (A Water Marks Sediment De Drift Deposit X Algal Mat or Iron Deposits X Surface Soil Inundation V Sparsely Vee Field Observatio Surface Water P Water Table Pre Saturation Prese (includes capillar	Y ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) Cracks (B6) 'isible on Aerial Imager getated Concave Surfa ons: Present? Yes sent? Yes	y (B7) ace (B8)	Water-Stained Lea         1, 2, 4A, and 4E         Salt Crust (B11)         Aquatic Invertebra         Hydrogen Sulfide         Oxidized Rhizosph         Presence of Redu         Recent Iron Reduc         Stunted or Stresse         Other (Explain in F         No       X         No       X         No       X	a) htes (B13) Odor (C1) heres along Liv ced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) Depth (inches Depth (inches	ing Roots (C3) soils (C6) (LRR A)	Secondary Indica Water-Staine 4A, and 4 Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutral Raised Ant N Frost-Heave Wetland Hydrology Present?	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9) Position (D2) itard (D3) Test (D5) Aounds (D6) (LRR A) Hummocks (D7)	
Depth (inches): Remarks: HYDROLOG <sup>1</sup> Wetland Hydrold Primary Indicator Surface Water High Water Saturation (A Water Marks Sediment De Drift Deposit X Algal Mat or Iron Deposits X Surface Soil Inundation V Sparsely Vee Field Observatio Surface Water P Water Table Pre Saturation Prese (includes capillar	Y ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) Cracks (B6) risible on Aerial Imager getated Concave Surfa ons: Present? Yes esent? Yes ry fringe)	y (B7) ace (B8)	Water-Stained Lea         1, 2, 4A, and 4E         Salt Crust (B11)         Aquatic Invertebra         Hydrogen Sulfide         Oxidized Rhizosph         Presence of Redu         Recent Iron Reduc         Stunted or Stresse         Other (Explain in F         No       X         No       X         No       X	a) htes (B13) Odor (C1) heres along Liv ced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) Depth (inches Depth (inches	ing Roots (C3) soils (C6) (LRR A)	Secondary Indica Water-Staine 4A, and 4 Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutral Raised Ant N Frost-Heave Wetland Hydrology Present?	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9) Position (D2) itard (D3) Test (D5) Aounds (D6) (LRR A) Hummocks (D7)	
Depth (inches): Remarks: HYDROLOG <sup>3</sup> Wetland Hydrolo Primary Indicator Surface Wate High Water <sup>-1</sup> Saturation (A Water Marks Sediment De Drift Deposit X Algal Mat or Iron Deposits X Surface Soil Inundation V Sparsely Veg Field Observatio Surface Water P Water Table Pre Saturation Prese (includes capillar Describe Recor	Y ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) Cracks (B6) risible on Aerial Imager getated Concave Surfa ons: Present? Yes esent? Yes ry fringe)	y (B7) ace (B8)	Water-Stained Lea         1, 2, 4A, and 4E         Salt Crust (B11)         Aquatic Invertebra         Hydrogen Sulfide         Oxidized Rhizosph         Presence of Redu         Recent Iron Reduc         Stunted or Stresse         Other (Explain in F         No       X         No       X         No       X	a) htes (B13) Odor (C1) heres along Liv ced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) Depth (inches Depth (inches	ing Roots (C3) soils (C6) (LRR A)	Secondary Indica Water-Staine 4A, and 4 Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutral Raised Ant N Frost-Heave Wetland Hydrology Present?	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9) Position (D2) itard (D3) Test (D5) Aounds (D6) (LRR A) Hummocks (D7)	
Depth (inches): Remarks: HYDROLOG <sup>3</sup> Wetland Hydrolo Primary Indicator Surface Wate High Water <sup>-1</sup> Saturation (A Water Marks Sediment De Drift Deposit X Algal Mat or Iron Deposits X Surface Soil Inundation V Sparsely Veg Field Observatio Surface Water P Water Table Pre Saturation Prese (includes capillar Describe Recor	Y ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) Cracks (B6) risible on Aerial Imager getated Concave Surfa ons: Present? Yes esent? Yes ry fringe)	y (B7) ace (B8)	Water-Stained Lea         1, 2, 4A, and 4E         Salt Crust (B11)         Aquatic Invertebra         Hydrogen Sulfide         Oxidized Rhizosph         Presence of Redu         Recent Iron Reduc         Stunted or Stresse         Other (Explain in F         No       X         No       X         No       X	a) htes (B13) Odor (C1) heres along Liv ced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) Depth (inches Depth (inches	ing Roots (C3) soils (C6) (LRR A)	Secondary Indica Water-Staine 4A, and 4 Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutral Raised Ant N Frost-Heave Wetland Hydrology Present?	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9) Position (D2) itard (D3) Test (D5) Aounds (D6) (LRR A) Hummocks (D7)	

Project/Site: Federal Way City Cer	nter Access	City/County:	Federal Way/Ki	ng	Sampling Date: 7/24	4/2020
Applicant/Owner: City of Federal W	/ay			State: Washington	Sampling Point:	W2-SP-5
Investigator(s): Per Johnson, Ma	tt Murphy, Aaron Thom		Se	ection, Township, Range:	T21N R04E S10	
Landform (hillslope, terrace, etc.):	hillslope		Local relie	ef (concave, convex, none): c	onvex Slope (%)	): <3%
Subregion (LRR): Northwest Forest	s and Coast (LRR A)	_at: 47.315205	 Long	g: -122.290703	Datum: NAD 19	
Soil Unit (Name-ID-Hydric Rating):	Alderwood gravelly sand	y loam -	AgB -	Not Hydric NWI cla	ssification: Non	e
Are climatic / hydrologic conditions on	the site typical for this time of year	r?	Yes	x No	(If no, explain in Remarks)	
Are Vegetation, Soil	, or Hydrology	significantly dis	turbed? Are	e "Normal Circumstances" prese	nt? Yes X	No
Are Vegetation, Soil	, or Hydrology	naturally proble	matic? (If r	needed, explain any answers in F	Remarks.)	
SUMMARY OF FINDINGS -	Attach site map showing	sampling poir	nt locations, t	transects, important fea	tures, etc.	
Hydrophytic Vegetation Present?	Yes X	No				
Hydric Soil Present?	Yes	No X	Is the Sample	d Area		
Wetland Hydrology Present?	Yes	No X	within a Wetla	nd? Yes	No <u>X</u>	
Precipitation:			-			
According to the Seattle Tacoma Airpo	ort NOAA weather station, precipit	ation was above the	normal range for	the three months prior to the site	e visit.	
<b>Remarks:</b> W2-SP-5 is the paired upland pit to W2	2 SD 4 It is located asst of W2 S	D 1 on a billalana				
	2-3P-4. It is located east of w2-3	P-4 on a missiope.				
VEGETATION					*	
	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size	e: <u>r=3m) % Cover</u>	Species?	<u>Status</u>	Number of Dominant Species		
1. Populus balsamifera	80%	Yes	FAC	That Are OBL, FACW, or FAC	3	(A)
2.						
3.				Total Number of Dominant		
4.				Species Across All Strata:	5	(B)
	80% =	Total Cover				
Sapling/Shrub Stratum (Plot size	e: <u>r=2m)</u>			Percent of Dominant Species		
1. Mahonia nervosa	20%	Yes	FACU	That Are OBL, FACW, or FAC	<u>60%</u>	(A/B)
2. Oemleria cerasiformis	15%	Yes	FACU	Prevalence Index worksheet		
3. Rubus armeniacus	9%	Yes	FAC	Total % Cover of:	Multiply by:	
4. Populus balsamifera	1%	No	FAC	OBL species	x 1 =	
5.				FACW species	x 2 =	
	45% =	Total Cover		FAC species	x 3 =	
Herb Stratum (Plot size				FACU species	x 4 =	
1. Poa pratensis	85%	Yes	FAC	UPL species	x 5 =	
2. Agrostis capillaris	15%	No	FAC	Column Totals:	(A)	(B)
3.				Prevalence Index	·	
4.				Hydrophytic Vegetation Indi	cators:	
5.				1 - Rapid Test for Hydrop		
6.				X 2 - Dominance Test is >5		
7.				3 - Prevalence Index is ≤		
8.					tions <sup>1</sup> (Provide supporting	
9.				data in Remarks or or	· · · •	
10.				5 - Wetland Non-Vascula	· · ·	
11.				Problematic Hydrophytic		
····		Total Cover		<sup>1</sup> Indicators of hydric soil and w		
Woody Vine Stratum (Plot size	e: <u>r=2m)</u>	Total Cover		be present.	enana nyarology musi	
1. none						
2.				Hydrophytic		
	=	Total Cover		Vegetation Yes	<u>X</u> No	
% Bare Ground in Herb Stratum				Present?		
Remarks:						

SOIL							Sampling Point:	W2-SP-5
Profile Descript	tion (Describe to the	depth needed	to document the inc	dicator or conf	firm the absence	of indicators):		
Depth	Matrix	•			Features	,		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-16	10YR 3/3	100					CbGrL	
						·		
						·		
17 0.0					2			
	ntration, D=Depletion,					ation: PL=Pore Lining,		
					= fine; vf = very fi	ine; + = heavy (more cl		
Hydric Soil Indic	cators (Applicable to	all LRRs, unle	ess otherwise noted	):			olematic Hydric Soils <sup>3</sup> :	
Histosol (A1)		-	Sandy Redox (S5			2 cm Muck (A		
Histic Epiped		-	Stripped Matrix (S			Red Parent Ma		
Black Histic (	. ,	-	Loamy Mucky Mir		pt MLRA 1)		Dark Surface (TF12)	
Hydrogen Su		-	Loamy Gleyed Ma			Other (Explain	in Remarks)	
	low Dark Surface (A11	) _	Depleted Matrix (	-				
Thick Dark S		-	Redox Dark Surfa			<sup>3</sup> Indicators of hydro	phytic vegetation and wetland	
	y Mineral (S1)	-	Depleted Dark Su				present, unless disturbed or	*
Sandy Gleye	d Matrix (S4)	_	Redox Depressio	ns (F8)		problematic.		
Restrictive Laye	r (if present):							
Тур	<sup>pe:</sup> <u>road - compacted</u>	cobble				Hydric Soil		
Depth (inches):	8"	_				Present?	Yes	No X
Remarks:								
HYDROLOGY	Y							
Wetland Hydrolo	ogy Indicators:							
Primary Indicators	s (minimum of one req	uired; check al	ll that apply)			Secondary Indicator	rs (2 or more required)	
Surface Wate	er (A1)	_	Water-Stained Le	aves (B9) (exce	ept MLRA	Water-Stained	Leaves (B9) (MLRA 1, 2,	
High Water T	Table (A2)		1, 2, 4A, and 4	B)		4A, and 4B)		
Saturation (A	(3)		Salt Crust (B11)			Drainage Patte	erns (B10)	
Water Marks	s (B1)	_	Aquatic Invertebra	ates (B13)		Dry-Season W	ater Table (C2)	
Sediment De	eposits (B2)		Hydrogen Sulfide	Odor (C1)		Saturation Visi	ble on Aerial Imagery (C9)	
Drift Deposits	s (B3)	_	Oxidized Rhizosp	heres along Liv	ing Roots (C3)	Geomorphic P	osition (D2)	
Algal Mat or 0	Crust (B4)	_	Presence of Redu	uced Iron (C4)		Shallow Aquita	rd (D3)	
Iron Deposits	s (B5)		Recent Iron Redu	ction in Tilled S	oils (C6)	FAC-Neutral T	est (D5)	
Surface Soil	Cracks (B6)	_	Stunted or Stress	ed Plants (D1)	(LRR A)	Raised Ant Mo	unds (D6) (LRR A)	
Inundation Vi	isible on Aerial Imager	y (B7)	Other (Explain in	Remarks)		Frost-Heave H	ummocks (D7)	
Sparsely Veg	getated Concave Surfa	ace (B8)						
Field Observatio	ons:							
Surface Water P	resent? Yes		No X	Depth (inches	s):	Wetland		
Water Table Pres			No X	Depth (inches		Hydrology	Yes	No X
Saturation Prese			No X	Depth (inches		Present?		<u> </u>
(includes capillar			<u> </u>	2000				
Describe Record	ded Data (stream gau	uge, monitorir	ng well, aerial photo	s, previous ins	spections), if ava	ailable:		
Remarks:								
Remarks:								
Remarks:								

Project/Site: F	ederal Way City Center Access		City/County:	Federal Way/K	ing	Sampling Date: 7/24/2020
Applicant/Owner:	City of Federal Way				State: Washington	Sampling Point: W3-SP-6
Investigator(s):	Matt Murphy, Aaron Thom			S	ection, Township, Range:	T21N R04E S09
Landform (hillslope	e, terrace, etc.):	depression		Local rel	ief (concave, convex, none):	none Slope (%): <3%
Subregion (LRR):	Northwest Forests and Coast	(LRR A) La	at: 47.315193	Lon	g: <u>-122.293503</u>	Datum: NAD 1983 (HARM
Soil Unit (Name-II	D-Hydric Rating): Ald	erwood gravelly sandy	loam	- AgC -	Not Hydric NWI cla	ssification: None
Are climatic / hydr	ologic conditions on the site typic					(If no, explain in Remarks)
Are Vegetation	, Soil, Soil	, or Hydrology	significantly dis	sturbed? Are	e "Normal Circumstances" preser	
Are Vegetation					needed, explain any answers in F	· ·
SUMMARY O	F FINDINGS – Attach sit	te map showing	sampling poi	nt locations,	transects, important fea	tures, etc.
Hydrophytic Vege	etation Present?	Yes X N	lo			
Hydric Soil Prese	nt?	Yes X N	lo	Is the Sample		
Wetland Hydrolog	gy Present?	Yes X	lo	within a Wetla	and? Yes <u>X</u>	No
Precipitation:						
According to the S	Seattle Tacoma Airport NOAA we	ather station, precipitat	ion was above th	e normal range fo	r the three months prior to the site	e visit.
Remarks:						
	ectively a vegetated roadside dite	ch with no apparent out	let north of S 320	)th Street and eas	t of NB I-5 onramp. W3-SP-6 loc	ated within wetland unit. Due to
						nan debris (e.g., hyperdermic needle
a soils and hydrol	ogy conditions below grade were	not explored.				
VEGETATION						
		Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum 1. none	(Plot size: <u>r=3m)</u>	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant Species	
<sup>1.</sup> <u>none</u> 2.					That Are OBL, FACW, or FAC	2 (A)
3.						
4.					Total Number of Dominant	
4.					Species Across All Strata:	<u> </u>
		<u>    0%    </u> = T	otal Cover			
Sapling/Shrub Si 1. none	tratum (Plot size: <u>r=2m)</u>				Percent of Dominant Species	· <u>100%</u> (A/B)
<sup>1.</sup> <u>none</u> 2.					That Are OBL, FACW, or FAC	
3.					Prevalence Index worksheet Total % Cover of:	: Multiply by:
4						x 1 =
4. 5.						x 2 =
5.					FAC species	x 3 =
Herb Stratum	(Plot size: <u>r=1m)</u>	<u>    0%    </u> = T	otal Cover		FACU species	x 4 =
	· ·	4000/	N	FACIN	UPL species	x 5 =
Phalaris arun     Juncus effusi		<u> </u>	Yes	FACW	Column Totals:	(A) (B)
-	-		Yes		Prevalence Index	· · /
		30%	No	FAC	Hydrophytic Vegetation Indi	
<ol> <li>Lotus cornicu</li> <li>5.</li> </ol>	lialus	15%	No	FAC	X 1 - Rapid Test for Hydrop	
6					X 2 - Dominance Test is >5	•
7.					3 - Prevalence Index is ≤	
8.						tions <sup>1</sup> (Provide supporting
9.					data in Remarks or on	· · · •
10.					5 - Wetland Non-Vascula	
11.		_			Problematic Hydrophytic	
····			otal Cover		<sup>1</sup> Indicators of hydric soil and w	
Woody Vine Stra	tum (Plot size: <u>r=2m)</u>	<u> </u>	olai Covei		be present.	eliand hydrology must
1. none						
2.					Hydrophytic	
		0%= T	otal Cover		Vegetation Yes	<u>X</u> No
% Bare Ground i	n Herb Stratum 0%				Present?	
Remarks:					1	

# **Parametrix**

ENGINEERING . PLANNING . ENVIRONMENTAL SCIENCES Project No.: 554-2441-022

	US Army Corps of Engineers
Western Mountains,	Valleys, and Coast Region (Version 2.0)

SOIL Profile Description (Describe to the depth per	eded to document the indicator or confirm the absence	of indicators):		
		of indicators):		
Depth Matrix	Redox Features	. 2	<b>-</b> , 3	
(inches) Color (moist) %	Color (moist) % Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remark
Not observed	<u> </u>			
Type: C=Concentration, D=Depletion, RM=Redu	uced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup> Loca	ation: PL=Pore Lining, M=Ma	atrix.	
Fexture: S = sand; Si = silt; C = clay; L = loam or	r loamy. Texture Modifier: co = coarse; f = fine; vf = very fir			
ydric Soil Indicators (Applicable to all LRRs,	unless otherwise noted):	Indicators for Problema	atic Hydric Soils <sup>3</sup> :	
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)		
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material	(TF2)	
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark S		
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Re		
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)		and KS)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)			
		<sup>3</sup> Indicators of hydrophytic	-	
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	hydrology must be preser	nt, unless disturbed or	
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	problematic.		
Restrictive Layer (if present):				
Type:				
- 71		Hydric Soil		
Depth (inches):		Hydric Soll Present?	Yes X	lo
	s reasons.		Yes <u>X</u> N	lo
Depth (inches):	s reasons.		Yes <u>X</u> N	lo
Depth (inches):	s reasons.		Yes <u>X</u> N	lo
Depth (inches): Remarks: Issumed hydric. No soil was pit dug for numerou: HYDROLOGY	s reasons.		Yes <u>X</u> N	lo
Depth (inches):  Remarks:  Assumed hydric. No soil was pit dug for numerou:  HYDROLOGY  Vetland Hydrology Indicators:		Present?		lo
Depth (inches): Remarks: Assumed hydric. No soil was pit dug for numerous HYDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required; che	eck all that apply)	Present? Secondary Indicators (2 c	or more required)	lo
Depth (inches):  Remarks:  Assumed hydric. No soil was pit dug for numerou:  HYDROLOGY  Vetland Hydrology Indicators:  Primary Indicators (minimum of one required; che _Surface Water (A1)	eck all that apply) Water-Stained Leaves (B9) (except MLRA	Present? <u>Secondary Indicators (2 c</u> <u>Water-Stained Leave</u>	or more required)	lo
Depth (inches):   Remarks:  Assumed hydric. No soil was pit dug for numerou:  HYDROLOGY  Vetland Hydrology Indicators:  Primary Indicators (minimum of one required; che  Surface Water (A1)  High Water Table (A2)	eck all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	Present? <u>Secondary Indicators (2 c</u> Water-Stained Leave 4A, and 4B)	or more required) res (B9) (MLRA 1, 2,	lo
Depth (inches):   Remarks:  Assumed hydric. No soil was pit dug for numerous  HYDROLOGY  Vetland Hydrology Indicators:  Primary Indicators (minimum of one required; che  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11)	Present? <u>Secondary Indicators (2 c</u> <u>Water-Stained Leave</u> 4A, and 4B) <u>Drainage Patterns (E</u>	<u>or more required)</u> res (B9) (MLRA 1, 2, B10)	lo
Depth (inches):  Remarks:  Assumed hydric. No soil was pit dug for numerou:  HYDROLOGY  Vetland Hydrology Indicators:  Primary Indicators (minimum of one required; che Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	Present?  Secondary Indicators (2 of the second ary Indicators	or more required) res (B9) (MLRA 1, 2, B10) Fable (C2)	lo
Depth (inches):	eck all that apply)        Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)        Salt Crust (B11)        Aquatic Invertebrates (B13)        Hydrogen Sulfide Odor (C1)	Present?  Secondary Indicators (2 of a second	or more required) res (B9) (MLRA 1, 2, B10) Table (C2) n Aerial Imagery (C9)	lo
Depth (inches):  Remarks:  Assumed hydric. No soil was pit dug for numerous  HYDROLOGY  Vetland Hydrology Indicators:  Primary Indicators (minimum of one required; che  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3)	Present? <u>Secondary Indicators (2 of</u> Water-Stained Leave 4A, and 4B) Drainage Patterns (B Dry-Season Water T Saturation Visible on X Geomorphic Position	or more required) res (B9) (MLRA 1, 2, B10) Table (C2) n Aerial Imagery (C9) n (D2)	lo
Depth (inches):  Remarks:  Assumed hydric. No soil was pit dug for numerous  HYDROLOGY  Vetland Hydrology Indicators:  Primary Indicators (minimum of one required; che Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4)	Present?  Secondary Indicators (2 of the secondary Indicators	or more required) res (B9) (MLRA 1, 2, B10) Table (C2) n Aerial Imagery (C9) n (D2) 3)	lo
Depth (inches):	eck all that apply)	Present?  Secondary Indicators (2 of the second sec	or more required) res (B9) (MLRA 1, 2, B10) Fable (C2) n Aerial Imagery (C9) n (D2) 3) D5)	lo
Depth (inches):  Remarks:  Assumed hydric. No soil was pit dug for numerous  HYDROLOGY  Vetland Hydrology Indicators:  Primary Indicators (minimum of one required; che Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4)	Present?  Secondary Indicators (2 of the second ary Indicators	or more required) res (B9) (MLRA 1, 2, B10) Fable (C2) n Aerial Imagery (C9) n (D2) 3) D5)	lo
Depth (inches):	eck all that apply)	Present?  Secondary Indicators (2 of a second	or more required) res (B9) (MLRA 1, 2, B10) Table (C2) n Aerial Imagery (C9) n (D2) 3) D5) (D6) (LRR A)	lo
Depth (inches):	eck all that apply)         Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C3)         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)	Secondary Indicators (2 of the	or more required) res (B9) (MLRA 1, 2, B10) Table (C2) n Aerial Imagery (C9) n (D2) 3) D5) (D6) (LRR A)	lo
Depth (inches):	eck all that apply)         Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C3)         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)	Secondary Indicators (2 of the	or more required) res (B9) (MLRA 1, 2, B10) Table (C2) n Aerial Imagery (C9) n (D2) 3) D5) (D6) (LRR A)	lo
Depth (inches):  Remarks:  Assumed hydric. No soil was pit dug for numerous  HYDROLOGY  Vetland Hydrology Indicators:  Primary Indicators (minimum of one required; che Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)  Field Observations:	ack all that apply)	Secondary Indicators (2 of Water-Stained Leave 4A, and 4B)         Drainage Patterns (E         Dry-Season Water T         Saturation Visible on X Geomorphic Position Shallow Aquitard (DC X FAC-Neutral Test (D Raised Ant Mounds Frost-Heave Hummer	or more required) res (B9) (MLRA 1, 2, B10) Table (C2) n Aerial Imagery (C9) n (D2) 3) D5) (D6) (LRR A)	lo
Depth (inches):  Remarks:  Assumed hydric. No soil was pit dug for numerous  HYDROLOGY  Vetland Hydrology Indicators:  Primary Indicators (minimum of one required; che Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)  Field Observations: Surface Water Present? Yes	eck all that apply)	Secondary Indicators (2 of Water-Stained Leave 4A, and 4B)         Drainage Patterns (E         Dry-Season Water T         Saturation Visible on X Geomorphic Position         X FAC-Neutral Test (D         Raised Ant Mounds         Frost-Heave Hummed         Wetland	Dr more required) res (B9) (MLRA 1, 2, B10) Table (C2) n Aerial Imagery (C9) n (D2) 3) D5) (D6) (LRR A) ocks (D7)	
Depth (inches):	eck all that apply)	Secondary Indicators (2 of Water-Stained Leave 4A, and 4B)         Drainage Patterns (E         Dry-Season Water T         Saturation Visible on X Geomorphic Position Shallow Aquitard (D3 X FAC-Neutral Test (D Raised Ant Mounds Frost-Heave Hummed         Wetland Hydrology	or more required) res (B9) (MLRA 1, 2, B10) Table (C2) n Aerial Imagery (C9) n (D2) 3) D5) (D6) (LRR A) ocks (D7)	lo
Depth (inches):	eck all that apply)	Secondary Indicators (2 of Water-Stained Leave 4A, and 4B)         Drainage Patterns (E         Dry-Season Water T         Saturation Visible on X Geomorphic Position         X FAC-Neutral Test (D         Raised Ant Mounds         Frost-Heave Hummed         Wetland	Dr more required) res (B9) (MLRA 1, 2, B10) Table (C2) n Aerial Imagery (C9) n (D2) 3) D5) (D6) (LRR A) ocks (D7)	
Depth (inches):	eck all that apply)	Secondary Indicators (2 of Water-Stained Leave 4A, and 4B)         Drainage Patterns (E         Dry-Season Water T         Saturation Visible on X Geomorphic Position Shallow Aquitard (D3 X FAC-Neutral Test (D Raised Ant Mounds Frost-Heave Hummed         Wetland Hydrology	Dr more required) res (B9) (MLRA 1, 2, B10) Table (C2) n Aerial Imagery (C9) n (D2) 3) D5) (D6) (LRR A) ocks (D7)	
Depth (inches):	eck all that apply)	Secondary Indicators (2 of Water-Stained Leave 4A, and 4B)         Drainage Patterns (E         Dry-Season Water T         Saturation Visible on X Geomorphic Position Shallow Aquitard (D3 X FAC-Neutral Test (D Raised Ant Mounds Frost-Heave Hummed         Wetland Hydrology Present?	Dr more required) res (B9) (MLRA 1, 2, B10) Table (C2) n Aerial Imagery (C9) n (D2) 3) D5) (D6) (LRR A) ocks (D7)	
Depth (inches):	eck all that apply)	Secondary Indicators (2 of Water-Stained Leave 4A, and 4B)         Drainage Patterns (E         Dry-Season Water T         Saturation Visible on X Geomorphic Position Shallow Aquitard (D3 X FAC-Neutral Test (D Raised Ant Mounds Frost-Heave Hummed         Wetland Hydrology Present?	Dr more required) res (B9) (MLRA 1, 2, B10) Table (C2) n Aerial Imagery (C9) n (D2) 3) D5) (D6) (LRR A) ocks (D7)	
Depth (inches):	eck all that apply)	Secondary Indicators (2 of Water-Stained Leave 4A, and 4B)         Drainage Patterns (E         Dry-Season Water T         Saturation Visible on X Geomorphic Position Shallow Aquitard (D: X FAC-Neutral Test (D Raised Ant Mounds Frost-Heave Hummed         Wetland Hydrology Present?         Wetland Hydrology         Present?	Dr more required)         res (B9) (MLRA 1, 2,         B10)         Fable (C2)         n Aerial Imagery (C9)         n (D2)         3)         D5)         (D6) (LRR A)         ocks (D7)	lo

Project/Site:	Federal Way City Center Access		City/County:	Federal Way/K	ing	Sampling Date:	7/24/2020
Applicant/Owner:	City of Federal Way				State: Washington	Sampling Point	:: W3-SP-7
Investigator(s):	Matt Murphy, Aaron Thom			s	Section, Township, Range:	- T21N R04E S	309
Landform (hillslope		hillslope			· · · ·		be (%): <3%
Subregion (LRR)	Northwest Forests and Coast		.at: 47.315208		g: -122.292679		D 1983 (HARN)
• • •		ر lerwood gravelly sand	/ loam	— - AgB -		assification:	None
	rologic conditions on the site typic	<b>v</b> , ,		Ye		(If no, explain in Rem	arks)
Are Vegetation	, Soil	•		sturbed? Ar	e "Normal Circumstances" prese	- • •	X No
Are Vegetation	, Soil				needed, explain any answers in F	Remarks.)	
SUMMARY C	F FINDINGS – Attach si	te map showing	sampling poi	nt locations.	transects, important fea	tures, etc.	
Hydrophytic Veg			No		· •		
Hydric Soil Prese	ent?		No X	Is the Sample	ed Area		
Wetland Hydrolo			No X	within a Wetla	and? Yes	No <u>X</u>	
-							
Precipitation: According to the	Seattle Tacoma Airport NOAA we	ather station, precipita	ation was above the	e normal range fo	r the three months prior to the site	e visit.	
Remarks:				c	1.1.5		<b>6 1 1 1 1 1 1 1 1</b>
					el driveway and adjacent to power safe human debris (e.g., hyperder		
	grade were not explored.		il embankement, a		sale numan debris (e.g., hyperder	The fleedes), a solis a	and hydrology
VEGETATIO	N						
		Absolute	Dominant	Indicator	Dominance Test worksheet:	1	
Tree Stratum	(Plot size: <u>r=3m)</u>	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant Species		
1. none	,				That Are OBL, FACW, or FAC		(A)
2.							(')
3.					Total Number of Dominant		
4.					Species Across All Strata:	3	(B)
			Total Cover		opeoles Across Air otrata.		(D)
Sapling/Shrub S	tratum (Plot size: <u>r=2m)</u>	070 -			Percent of Dominant Species		
1		00%	Vee	FAC	That Are OBL, FACW, or FAC	. 67%	, , , , , , , , , , , , , , , , , , ,
<ol> <li><u>Rubus arme</u></li> <li>2.</li> </ol>	niacus	90%	Yes	FAC			• (A/B)
3.					Prevalence Index worksheet Total % Cover of:	r: Multiply by:	
4. 		_			OBL species	x1=	
5					FACW species	x 2 =	
		90% = 7	Fotal Cover		FAC species	x 3 =	
Herb Stratum	(Plot size: <u>r=1m)</u>				FACU species	x 4 =	
1. <u>Agrostis cap</u>		65%	Yes	FAC	UPL species	x 5 =	(D)
2. Anthoxanthu			Yes	FACU	Column Totals:	(A)	(B)
3. Poa pratensi	S	10%	No	FAC	Prevalence Index		
4. <u>Hypericum p</u>	erforatum	5%	No	FACU	Hydrophytic Vegetation Indi		
5.					1 - Rapid Test for Hydrop		
6.					X 2 - Dominance Test is >5	0%	
7					3 - Prevalence Index is ≤	3.0 <sup>1</sup>	
8.					4 - Morphological Adapta	tions <sup>1</sup> (Provide suppor	ting
9.			·		data in Remarks or or	i a separate sheet)	
10.					5 - Wetland Non-Vascula	r Plants <sup>1</sup>	
11.					Problematic Hydrophytic	Vegetation (Explain) <sup>1</sup>	
		100% =	Total Cover		<sup>1</sup> Indicators of hydric soil and w	etland hydrology must	I
Woody Vine Stra	atum (Plot size: <u>r=2m)</u>				be present.		
1. <u>none</u>							
2					Hydrophytic	Y No	
% Bare Ground	in Herb Stratum 0%		Fotal Cover		Vegetation Yes Present?	<u> </u>	<u> </u>
					11636111:		
Remarks:							

SOIL		Sampling Point: W3-	SP-7
Profile Description (Describe to the depth n	eeded to document the indicator or confirm the absence	of indicators):	
Depth Matrix	Redox Features		
(inches) Color (moist) %	1	Loc <sup>2</sup> Texture <sup>3</sup> Rem	narks
Not observed			
<sup>1</sup> Type: C=Concentration. D=Depletion. RM=Re	duced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup> Loca	ation: PL=Pore Lining, M=Matrix.	
	or loamy. Texture Modifier: co = coarse; f = fine; vf = very fi		
Hydric Soil Indicators (Applicable to all LRR		Indicators for Problematic Hydric Soils <sup>3</sup> :	-
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)	
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)	
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)	
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)	
Depleted Below Dark Surface (A11)	Depleted Matrix (F2)		
Thick Dark Surface (A12)	Redox Dark Surface (F6)		
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	<sup>3</sup> Indicators of hydrophytic vegetation and wetland	
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	hydrology must be present, unless disturbed or problematic.	
Restrictive Layer (if present):		Hydric Soil	
Type:			x
Depth (inches):			
HYDROLOGY			
Wetland Hydrology Indicators:			
Primary Indicators (minimum of one required; cl	neck all that apply)	Secondary Indicators (2 or more required)	
Surface Water (A1)	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,	
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 Imagery (C9)	
Drift Deposits (B3)	Oxidized Rhizospheres along Living Roots (C3)	Geomorphic Position (D2)	
Algal Mat or Crust (B4)			
	Presence of Reduced Iron (C4)	Shallow Aquitard (D3)	
Iron Deposits (B5)	Recent Iron Reduction in Tilled Soils (C6)	FAC-Neutral Test (D5)	
Iron Deposits (B5) Surface Soil Cracks (B6)	Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)	
Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7)	Recent Iron Reduction in Tilled Soils (C6)	FAC-Neutral Test (D5)	
Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)	Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)	
Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations:	Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)	
Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes	Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)         No       X         Depth (inches):	FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland	
Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes Water Table Present? Yes	Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)         No       X         Depth (inches):         No       Depth (inches):	FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland Hydrology Yes No _ >	<u>x</u>
Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes	Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)         No       X         Depth (inches):	FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland	<u>x</u>
Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes Water Table Present? Yes	Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)         No       X         Depth (inches):         No       Depth (inches):	FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland Hydrology Yes No _ >	<u>×</u>
Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)         No       X         Depth (inches):         No       Depth (inches):	FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland Hydrology Yes No> Present?	<u>×</u>
Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)         No       X         Depth (inches):         No       Depth (inches):         No       Depth (inches):         No       Depth (inches):	FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland Hydrology Yes No> Present?	x
Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes Cincludes capillary fringe) Describe Recorded Data (stream gauge, mo Remarks:	Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)         No       X         Depth (inches):         No       Depth (inches):	FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland Hydrology Yes No> Present?	<u>×</u>
Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo	Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)         No       X         Depth (inches):         No       Depth (inches):	FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland Hydrology Yes No> Present?	<u>×</u>
Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo Remarks:	Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)         No       X         Depth (inches):         No       Depth (inches):	FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland Hydrology Yes No> Present?	<u>x</u>

**Parametrix** ENGINEERING . PLANNING . ENVIRONMENTAL SCIENCES

Project No.: 554-2441-022

Project/Site: Fe	deral Way City Center Acces	S	City/County:	Federal Way/Kir	ng	Sampling Date: 8/13/2020
Applicant/Owner:	City of Federal Way				State: Washington	Sampling Point: W5-SP-8
Investigator(s):	Per Johnson			Se	ction, Township, Range:	T21N R04E S16
Landform (hillslope, t	terrace, etc.):	depression		Local relie	ef (concave, convex, none):	none Slope (%): None
Subregion (LRR):	Northwest Forests and Coa	st (LRR A) l	_at: 47.313820	 Long	-122.296265	Datum: NAD 1983 (HARN)
Soil Unit (Name-ID-	Hydric Rating):	Arents, Alderwood mat	erial -	AmC -	Not Hydric NWI cla	ssification: None
Are climatic / hydrol	logic conditions on the site typ	pical for this time of year	?	Yes	X No	(If no, explain in Remarks)
Are Vegetation	, Soil	, or Hydrology	significantly dis	turbed? Are	"Normal Circumstances" preser	nt? Yes <u>X</u> No
Are Vegetation	, Soil	, or Hydrology	naturally proble	matic? (If n	eeded, explain any answers in F	Remarks.)
SUMMARY OF	FINDINGS – Attach	site map showing	sampling poir	nt locations, t	ransects, important fea	tures, etc.
Hydrophytic Vegeta	ation Present?	Yes X	No			
Hydric Soil Present	t?	Yes X	No	Is the Sampled	l Area	
Wetland Hydrology	/ Present?		No	within a Wetla	nd? Yes X	No
Precipitation:				-		
	eattle Tacoma Airport NOAA v	weather station, precipita	ation was within the	normal range for t	the three months prior to the site	visit.
Remarks: Sample plot is within	n the mineral edge of a large	previously identified wet	land the inner porti	on of which is a bo	og (see W5-SP-24). W5-SP-8 k	ocation is approximately 20 feet
						the eastern toe of a fill slope, west of
the Olympic Pipeline			. ,			
VEGETATION						*
	3m ser	mi- Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum	(Plot size: circle	e) <u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant Species	
1. Alnus rubra		90%	Yes	FAC	That Are OBL, FACW, or FAC	: <u> </u>
2. Fraxinus latifoli	ia	10%	No	FACW		
3. Sorbus aucupa	aria	2%	No	NOL	Total Number of Dominant	
4.					Species Across All Strata:	<u> </u>
	3m ser	mi- <u>102%</u> = <sup>-</sup>	Total Cover			
Sapling/Shrub Stra					Percent of Dominant Species	
1. none					That Are OBL, FACW, or FAC	: <u>100%</u> (A/B)
2.					Prevalence Index worksheet	:
3.					Total % Cover of:	Multiply by:
4.					OBL species	x 1 =
5.					FACW species	x 2 =
	0		Total Cover		FAC species	x 3 =
Herb Stratum	2m ser Plot size: circle)	····-			FACU species	x 4 =
1. none	(	,			UPL species	x 5 =
2.					Column Totals:	(A) (B)
3.					Prevalence Index	
4.				·	Hydrophytic Vegetation Indi	
5.					1 - Rapid Test for Hydrop	
6.					X 2 - Dominance Test is >5	
7.					3 - Prevalence Index is ≤	
8.		— —			4 - Morphological Adaptat	
9.		`		·	data in Remarks or on	( II 0
				·		·
10		_			5 - Wetland Non-Vascula	
11					Problematic Hydrophytic	
Maadu Mina Otuatu	1m ser		Total Cover		<sup>1</sup> Indicators of hydric soil and w	etland hydrology must
Woody Vine Stratu 1. none	um (Plot size: circle	.)			be present.	
2.				·	Hydrophytic	
		0% =	Total Cover		Vegetation Yes	X No
% Bare Ground in	Herb Stratum 100%				Present?	
Remarks:						
Kennar No.						
<u> </u>						

Depth							Sampling Point:	W5-SP-8
· · · · · ·	(Describe to the d	lepth needed	to document the inc	dicator or confi	rm the absence	of indicators):		
(inches)	Matrix			Redox F	Features			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-16	10Y 5/1	80	10YR 4/6	20	С	M	SiL	
<u>-</u>								
<u> </u>								
<u> </u>								
Type: C=Concentral	tion, D=Depletion, F	RM=Reduced	Matrix, CS=Covered o	or Coated Sand	Grains. <sup>2</sup> Loca	ation: PL=Pore Lining, N	M=Matrix.	
					= fine; vf = very f	ine; + = heavy (more cla	ay); - = light (less clay)	
Hydric Soil Indicato	rs (Applicable to a	all LRRs, unle	ess otherwise noted	):		Indicators for Prob	lematic Hydric Soils <sup>3</sup> :	
Histosol (A1)		_	Sandy Redox (S5	)		2 cm Muck (A1	0)	
Histic Epipedon (	(A2)	_	Stripped Matrix (S	6)		Red Parent Ma	terial (TF2)	
Black Histic (A3)	1	-	Loamy Mucky Mir	neral (F1) (excep	ot MLRA 1)		ark Surface (TF12)	
Hydrogen Sulfide		-	X Loamy Gleyed Ma			Other (Explain	in Remarks)	
	Dark Surface (A11)	-	X Depleted Matrix (I	-				
Thick Dark Surfa		-	Redox Dark Surfa			<sup>3</sup> Indicators of hydrop	hytic vegetation and wetland	ł
Sandy Mucky Mir		-	Depleted Dark Su				resent, unless disturbed or	
Sandy Gleyed Ma	atrix (S4)		Redox Depression	ns (F8)		problematic.		
Restrictive Layer (if	present):							
Туре:						Hydric Soil		
Depth (inches):						Present?	Yes X	No
Remarks:								
HYDROLOGY								
Wetland Hydrology	Indicators:							
Primary Indicators (m	ninimum of one requ	<u>iired; check al</u>	I that apply)			Secondary Indicator	s (2 or more required)	
Primary Indicators (mSurface Water (A		uired; check al	<u>I that apply)</u> Water-Stained Le	aves (B9) (exce	pt MLRA		<u>s (2 or more required)</u> Leaves (B9) (MLRA 1, 2,	
	A1)	<u>iired; check al</u> -			pt MLRA			
Surface Water (A X High Water Table X Saturation (A3)	A1) e (A2)	<u>uired; check al</u>	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11)	В)	pt MLRA	Water-Stained 4A, and 4B) Drainage Patte	Leaves (B9) (MLRA 1, 2, rns (B10)	
Surface Water (A X High Water Table X Saturation (A3) Water Marks (B1	A1) e (A2) 1)	uired; check al - -	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra	B) ates (B13)	pt MLRA	Water-Stained 4A, and 4B) Drainage Patte X Dry-Season Wa	Leaves (B9) (MLRA 1, 2, rns (B10) ater Table (C2)	
Surface Water (A X High Water Table X Saturation (A3) Water Marks (B1 Sediment Depos	A1) e (A2) 1) .its (B2)	<u>uired; check al</u> - - -	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra X Hydrogen Sulfide	B) ates (B13) Odor (C1)		Water-Stained 4A, and 4B) Drainage Patte X Dry-Season Wa Saturation Visit	Leaves (B9) (MLRA 1, 2, rns (B10) ater Table (C2) ble on Aerial Imagery (C9)	
Surface Water (A X High Water Table X Saturation (A3) Water Marks (B1 Sediment Depos Drift Deposits (B	A1) e (A2) 1) its (B2) 3)	<u>iired; check al</u> - - -	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra X Hydrogen Sulfide Oxidized Rhizosp	B) ates (B13) Odor (C1) heres along Livir		Water-Stained 4A, and 4B) Drainage Patte X Dry-Season Wa Saturation Visit X Geomorphic Po	Leaves (B9) (MLRA 1, 2, rns (B10) ater Table (C2) ble on Aerial Imagery (C9) bsition (D2)	
Surface Water (A X High Water Table X Saturation (A3) Water Marks (B1 Sediment Depos Drift Deposits (B Algal Mat or Crus	A1) e (A2) 1) iits (B2) 3) st (B4)	<u>uired; check al</u> - - - - - -	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra X Hydrogen Sulfide Oxidized Rhizosp Presence of Redu	B) ates (B13) Odor (C1) heres along Livir uced Iron (C4)	ng Roots (C3)	Water-Stained 4A, and 4B) Drainage Patte X Dry-Season Wa Saturation Visite X Geomorphic Po Shallow Aquita	Leaves (B9) (MLRA 1, 2, rns (B10) ater Table (C2) ble on Aerial Imagery (C9) osition (D2) rd (D3)	
Surface Water (A X High Water Table X Saturation (A3) Water Marks (B1 Sediment Depos Drift Deposits (B Algal Mat or Crus Iron Deposits (B	A1) e (A2) 1) iits (B2) 3) st (B4) 5)	<u>iired; check al</u>	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra X Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu	B) ates (B13) Odor (C1) heres along Livir aced Iron (C4) ction in Tilled Sc	ng Roots (C3) bils (C6)	Water-Stained 4A, and 4B) Drainage Patte X Dry-Season Wa Saturation Visit X Geomorphic Po Shallow Aquitar X FAC-Neutral Te	Leaves (B9) (MLRA 1, 2, rns (B10) ater Table (C2) ble on Aerial Imagery (C9) osition (D2) rd (D3) est (D5)	
Surface Water (A X High Water Table X Saturation (A3) Water Marks (B1 Sediment Depos Drift Deposits (B Algal Mat or Crus Iron Deposits (B Surface Soil Cras	A1) e (A2) 1) iits (B2) 3) st (B4) 5) cks (B6)		Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra X Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress	B) ates (B13) Odor (C1) heres along Livir uced Iron (C4) ction in Tilled Sc ed Plants (D1) (I	ng Roots (C3) bils (C6)	Water-Stained 4A, and 4B) Drainage Patte X Dry-Season Wa Saturation Visit X Geomorphic Po Shallow Aquitau X FAC-Neutral Te Raised Ant More	Leaves (B9) (MLRA 1, 2, rns (B10) ater Table (C2) ble on Aerial Imagery (C9) bsition (D2) rd (D3) est (D5) unds (D6) (LRR A)	
Surface Water (A X High Water Table X Saturation (A3) Water Marks (B1 Sediment Depos Drift Deposits (B Algal Mat or Crus Iron Deposits (B Surface Soil Cras Inundation Visible	A1) e (A2) 1) iits (B2) 3) st (B4) 5) cks (B6) e on Aerial Imagery	- - - - - - - - - - - - - - - - - - -	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra X Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu	B) ates (B13) Odor (C1) heres along Livir uced Iron (C4) ction in Tilled Sc ed Plants (D1) (I	ng Roots (C3) bils (C6)	Water-Stained 4A, and 4B) Drainage Patte X Dry-Season Wa Saturation Visit X Geomorphic Po Shallow Aquitar X FAC-Neutral Te	Leaves (B9) (MLRA 1, 2, rns (B10) ater Table (C2) ble on Aerial Imagery (C9) bsition (D2) rd (D3) est (D5) unds (D6) (LRR A)	
Surface Water (A X High Water Table X Saturation (A3) Water Marks (B1 Sediment Depos Drift Deposits (B Algal Mat or Crus Iron Deposits (B Surface Soil Cras Inundation Visible Sparsely Vegeta	A1) e (A2) 1) iits (B2) 3) st (B4) 5) cks (B6) e on Aerial Imagery ted Concave Surfac	- - - - - - - - - - - - - - - - - - -	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra X Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress	B) ates (B13) Odor (C1) heres along Livir uced Iron (C4) ction in Tilled Sc ed Plants (D1) (I	ng Roots (C3) bils (C6)	Water-Stained 4A, and 4B) Drainage Patte X Dry-Season Wa Saturation Visit X Geomorphic Po Shallow Aquitau X FAC-Neutral Te Raised Ant More	Leaves (B9) (MLRA 1, 2, rns (B10) ater Table (C2) ble on Aerial Imagery (C9) bsition (D2) rd (D3) est (D5) unds (D6) (LRR A)	
Surface Water (A X High Water Table X Saturation (A3) Water Marks (B1 Sediment Depos Drift Deposits (B Algal Mat or Crus Iron Deposits (B Surface Soil Cras Inundation Visible Sparsely Vegeta Field Observations:	A1) e (A2) 1) iits (B2) 3) st (B4) 5) cks (B6) e on Aerial Imagery ted Concave Surfac	- 	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra X Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress X Other (Explain in I	B) odor (C1) heres along Livir uced Iron (C4) ction in Tilled Sc ed Plants (D1) (I Remarks)	ng Roots (C3) bils (C6) LRR A)	Water-Stained 4A, and 4B) Drainage Patte X Dry-Season Wa Saturation Visit X Geomorphic Po Shallow Aquitan X FAC-Neutral Ta Raised Ant Mon Frost-Heave Hu	Leaves (B9) (MLRA 1, 2, rns (B10) ater Table (C2) ble on Aerial Imagery (C9) bsition (D2) rd (D3) est (D5) unds (D6) (LRR A)	
Surface Water (A X High Water Table X Saturation (A3) Water Marks (B1 Sediment Depos Drift Deposits (B Algal Mat or Crus Iron Deposits (B Surface Soil Cras Inundation Visible Sparsely Vegeta Field Observations:	A1) e (A2) 1) iits (B2) 3) st (B4) 5) cks (B6) e on Aerial Imagery ted Concave Surface ent? Yes	(B7) ce (B8)	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra X Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress X Other (Explain in I	B) ates (B13) Odor (C1) heres along Livir uced Iron (C4) ction in Tilled Sc ed Plants (D1) (I Remarks) Depth (inches)	ng Roots (C3) bils (C6) LRR A)	Water-Stained 4A, and 4B) Drainage Patte X Dry-Season Wa Saturation Visit X Geomorphic Po Shallow Aquitar X FAC-Neutral Te Raised Ant Mon Frost-Heave He Wetland	Leaves (B9) (MLRA 1, 2, rns (B10) ater Table (C2) ble on Aerial Imagery (C9) osition (D2) rd (D3) est (D5) unds (D6) (LRR A) ummocks (D7)	
Surface Water (A X High Water Table X Saturation (A3) Water Marks (B1 Sediment Depos Drift Deposits (B Algal Mat or Crus Iron Deposits (B Surface Soil Cras Inundation Visible Sparsely Vegeta Field Observations: Surface Water Present	A1) e (A2) 1) iits (B2) 3) st (B4) 5) cks (B6) e on Aerial Imagery ted Concave Surface ent? Yes	(B7) ce (B8)	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra X Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress X Other (Explain in I No X No X	B) ates (B13) Odor (C1) heres along Livir uced Iron (C4) ction in Tilled Sc ed Plants (D1) (I Remarks) Depth (inches) Depth (inches)	ng Roots (C3) bils (C6) LRR A)	Water-Stained 4A, and 4B) Drainage Patte X Dry-Season Wa Saturation Visit X Geomorphic Po Shallow Aquitar X FAC-Neutral Te Raised Ant Mo Frost-Heave He Wetland Hydrology	Leaves (B9) (MLRA 1, 2, rns (B10) ater Table (C2) ble on Aerial Imagery (C9) bsition (D2) rd (D3) est (D5) unds (D6) (LRR A)	No
Surface Water (A X High Water Table X Saturation (A3) Water Marks (B1 Sediment Depos Drift Deposits (B Algal Mat or Crus Iron Deposits (B Surface Soil Cras Inundation Visible Sparsely Vegeta Field Observations: Surface Water Present Water Table Present?	A1) e (A2) 1) iits (B2) 3) st (B4) 5) cks (B6) e on Aerial Imagery ted Concave Surface ent? Yes Yes Yes	(B7) ce (B8)	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra X Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress X Other (Explain in I	B) ates (B13) Odor (C1) heres along Livir uced Iron (C4) ction in Tilled Sc ed Plants (D1) (I Remarks) Depth (inches)	ng Roots (C3) bils (C6) LRR A)	Water-Stained 4A, and 4B) Drainage Patte X Dry-Season Wa Saturation Visit X Geomorphic Po Shallow Aquitar X FAC-Neutral Te Raised Ant Mon Frost-Heave He Wetland	Leaves (B9) (MLRA 1, 2, rns (B10) ater Table (C2) ble on Aerial Imagery (C9) osition (D2) rd (D3) est (D5) unds (D6) (LRR A) ummocks (D7)	No
Surface Water (A X High Water Table X Saturation (A3) Water Marks (B1 Sediment Depos Drift Deposits (B Algal Mat or Crus Iron Deposits (B Surface Soil Cras Inundation Visible Sparsely Vegeta Field Observations: Surface Water Present	A1) e (A2) 1) iits (B2) 3) st (B4) 5) cks (B6) e on Aerial Imagery ted Concave Surface ent? Yes Yes Yes	(B7) ce (B8)	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra X Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress X Other (Explain in I No X No X	B) ates (B13) Odor (C1) heres along Livir uced Iron (C4) ction in Tilled Sc ed Plants (D1) (I Remarks) Depth (inches) Depth (inches)	ng Roots (C3) bils (C6) LRR A)	Water-Stained 4A, and 4B) Drainage Patte X Dry-Season Wa Saturation Visit X Geomorphic Po Shallow Aquitar X FAC-Neutral Te Raised Ant Mo Frost-Heave He Wetland Hydrology	Leaves (B9) (MLRA 1, 2, rns (B10) ater Table (C2) ble on Aerial Imagery (C9) osition (D2) rd (D3) est (D5) unds (D6) (LRR A) ummocks (D7)	No
Surface Water (A X High Water Table X Saturation (A3) Water Marks (B1 Sediment Depos Drift Deposits (B Algal Mat or Crus Iron Deposits (B Surface Soil Crai Inundation Visible Sparsely Vegeta Field Observations: Surface Water Present Saturation Present? (includes capillary frii	A1) e (A2) 1) iits (B2) 3) st (B4) 5) cks (B6) e on Aerial Imagery ted Concave Surfac ent? Yes t? Yes t? Yes yes	(B7) ce (B8) X X	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra X Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress X Other (Explain in I No X No X	B) ates (B13) Odor (C1) heres along Livir uced Iron (C4) ction in Tilled Sc ed Plants (D1) (I Remarks) Depth (inches) Depth (inches) Depth (inches)	ng Roots (C3) bils (C6) LRR A)	Water-Stained 4A, and 4B) Drainage Patte X Dry-Season Wa Saturation Visit X Geomorphic Po Shallow Aquitan X FAC-Neutral Ta Raised Ant Mou Frost-Heave Hu Wetland Hydrology Present?	Leaves (B9) (MLRA 1, 2, rns (B10) ater Table (C2) ble on Aerial Imagery (C9) osition (D2) rd (D3) est (D5) unds (D6) (LRR A) ummocks (D7)	No
Surface Water (A X High Water Table X Saturation (A3) Water Marks (B1 Sediment Depos Drift Deposits (B Algal Mat or Crus Iron Deposits (B Surface Soil Crai Inundation Visible Sparsely Vegeta Field Observations: Surface Water Present Saturation Present? (includes capillary frii	A1) e (A2) 1) iits (B2) 3) st (B4) 5) cks (B6) e on Aerial Imagery ted Concave Surfac ent? Yes t? Yes t? Yes yes	(B7) ce (B8) X X	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra X Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress X Other (Explain in I No X No No	B) ates (B13) Odor (C1) heres along Livir uced Iron (C4) ction in Tilled Sc ed Plants (D1) (I Remarks) Depth (inches) Depth (inches) Depth (inches)	ng Roots (C3) bils (C6) LRR A)	Water-Stained 4A, and 4B) Drainage Patte X Dry-Season Wa Saturation Visit X Geomorphic Po Shallow Aquitan X FAC-Neutral Ta Raised Ant Mou Frost-Heave Hu Wetland Hydrology Present?	Leaves (B9) (MLRA 1, 2, rns (B10) ater Table (C2) ble on Aerial Imagery (C9) osition (D2) rd (D3) est (D5) unds (D6) (LRR A) ummocks (D7)	No
Surface Water (A X High Water Table X Saturation (A3) Water Marks (B1 Sediment Depos Drift Deposits (B Algal Mat or Crus Iron Deposits (B Surface Soil Cras Inundation Visible Sparsely Vegeta Field Observations: Surface Water Present Saturation Present? (includes capillary frint Describe Recorded	A1) e (A2) 1) iits (B2) 3) st (B4) 5) cks (B6) e on Aerial Imagery ted Concave Surface ent? Yes ted Concave Surface ent? Yes Yes nge)	(B7) ce (B8) x x ge, monitorir	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra X Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress X Other (Explain in I No X No	B) ates (B13) Odor (C1) heres along Livir uced Iron (C4) ction in Tilled Sc ed Plants (D1) (I Remarks) Depth (inches) Depth (inches) Depth (inches) S, previous insp	ng Roots (C3) bils (C6) LRR A) : :2 : :2 : surface	Water-Stained 4A, and 4B) Drainage Patte X Dry-Season Wa Saturation Visit X Geomorphic Po Shallow Aquitan X FAC-Neutral Ta Raised Ant Mou Frost-Heave Hu Wetland Hydrology Present?	Leaves (B9) (MLRA 1, 2, rns (B10) ater Table (C2) ble on Aerial Imagery (C9) osition (D2) rd (D3) est (D5) unds (D6) (LRR A) ummocks (D7)	No

Project/Site: Fe	ederal Way City Center Access		City/County:	Federal Way	/King	Sampling Date:	8/13/2020
Applicant/Owner:	City of Federal Way				State: Washingto	n Sampling Point:	W5-SP-9
Investigator(s):	Per Johnson, Aaron Thom			_	Section, Township, Range:	T21N R04E S	16
Landform (hillslope,	terrace, etc.):	hillslope	•	Local r	elief (concave, convex, none):	none Slope	e (%): <u>3-5%</u>
Subregion (LRR):	Northwest Forests and Coast	(LRR A)	Lat: 47.313866	Lo	ong: -122.296394		D 1983 (HARN)
	-Hydric Rating): A			AmC		classification:	None
•	logic conditions on the site typic	•			Yes X No	(If no, explain in Rema	-
Are Vegetation Are Vegetation	, Soil, Soil	, or Hydrology	significantly dis	matic?	Are "Normal Circumstances" pres (If needed, explain any answers i		<u>X</u> No
					s, transects, important fe		
Hydrophytic Vegeta		Yes X			s, transects, important is	ealures, etc.	
Hydric Soil Presen		Yes		Is the Samp	oled Area		
Wetland Hydrology		Yes	No X	within a We	tland? Yes	No X	
	eattle Tacoma Airport NOAA we	ather station, precip	itation was within the	normal range f	for the three months prior to the s	site visit.	
Remarks: Sample plot is withi	in the uplands adjacent to W5-S	P-8.					•
VEGETATION							
		Absolute	Dominant	Indicator	Dominance Test workshee	et:	
Tree Stratum	(Plot size: <u>r=3m)</u>	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant Specie	es	
<sup>1.</sup> Alnus rubra		70%	Yes	FAC	That Are OBL, FACW, or FA	AC: <u>3</u>	(A)
2. <u>Thuja plicata</u>		30%	Yes	FAC			
3.					Total Number of Dominant		
4.					Species Across All Strata:	5	(B)
	(Dlataina, r=2m)	100%	= Total Cover		Demonstrat Deminant Creasia	_	
Sapling/Shrub Str		50%	Nee	FACU	Percent of Dominant Specie	000/	
<ol> <li><u>Rubus ursinus</u></li> <li>Rubus spectat</li> </ol>		<u> </u>	Yes Yes	FACU FAC	That Are OBL, FACW, or F/ Prevalence Index workshe		(A/B)
3. Oemleria ceras		<u> </u>	No	FACU	Total % Cover of:		
4.				17,00	OBL species	x 1 =	
5.					FACW species	x 2 =	
		90%	= Total Cover		FAC species	x 3 =	
<u>Herb Stratum</u>	(Plot size: <u>r=1m)</u>				FACU species	x 4 =	
1. Polystichum m	nunitum	30%	Yes	FACU	UPL species	x 5 =	
2. Equisetum hye	emale	2%	No	FACW	Column Totals:	(A)	(B)
3.					Prevalence Inde		
4					Hydrophytic Vegetation In		
5.		_			1 - Rapid Test for Hydr		
6.		_			X 2 - Dominance Test is		
/					3 - Prevalence Index is		
8.						otations <sup>1</sup> (Provide support	ung
9. 10.					5 - Wetland Non-Vasci	on a separate sheet)	
11.						ic Vegetation (Explain) <sup>1</sup>	
		32%	= Total Cover		<sup>1</sup> Indicators of hydric soil and		
Woody Vine Stratu	um(Plot size: r=2m)	0270			be present.		
1. <u>none</u>							
2 % Bare Ground in	Herb Stratum 20%	0%	= Total Cover		Hydrophytic Vegetation Yo Present?	es <u>X</u> No	
Remarks: 40% moss cover in	herb strata						

SOIL							Sampling Point:	W5-SP-9
Profile Descript	ion (Describe to the	depth needed t	to document the ind	licator or conf	irm the absence	of indicators):	ĨŪ	
Depth	Matrix	-			Features	,		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-8	10YR 4/2	100					GrCbSiL	. temane
				<u> </u>				
					·			
<sup>1</sup> Type: C=Concer	ntration, D=Depletion,	RM=Reduced M	latrix, CS=Covered o	or Coated Sand	Grains. <sup>2</sup> Loca	tion: PL=Pore Lining,	M=Matrix.	
<sup>3</sup> Texture: Sa = sa	nd; Si = silt; C = clay;	L = loam or loar	ny. Texture Modifier:	co = coarse; f	= fine; vf = very fi	ne; + = heavy (more cl	ay); - = light (less clay)	
Hydric Soil Indic	ators (Applicable to	all LRRs, unles	ss otherwise noted	:		Indicators for Prot	olematic Hydric Soils <sup>3</sup> :	
Histosol (A1)	)		Sandy Redox (S5	)		2 cm Muck (A1	0)	
Histic Epiped	lon (A2)		Stripped Matrix (S	6)		Red Parent Ma	iterial (TF2)	
Black Histic (	(A3)		Loamy Mucky Mir	eral (F1) (exce	pt MLRA 1)	Very Shallow D	oark Surface (TF12)	
Hydrogen Su	ılfide (A4)		Loamy Gleyed Ma	ıtrix (F2)		Other (Explain	in Remarks)	
	ow Dark Surface (A11	)	Depleted Matrix (I					
Thick Dark S		·	Redox Dark Surfa	-		3		
	y Mineral (S1)		 Depleted Dark Su				ohytic vegetation and wetland present, unless disturbed or	
Sandy Gleye		_	Redox Depression			problematic.	desent, unless disturbed of	
				( )				
Restrictive Laye						Utudaia Cail		
	be: gravel/cobbles/roo	ts				Hydric Soil	N	
Depth (inches):	8	-				Present?	Yes	No <u>X</u>
Remarks:								
Soil appears to be	e fill for I-5 embankme	nt.						
HYDROLOG								
Wetland Hydrold								
Primary Indicators	<u>s (minimum of one req</u>	uired; check all	that apply)			Secondary Indicator	s (2 or more required)	
Surface Wate	er (A1)	_	Water-Stained Le	aves (B9) (exce	ept MLRA	Water-Stained	Leaves (B9) (MLRA 1, 2,	
High Water 1	Γable (A2)		1, 2, 4A, and 4	3)		4A, and 4B)		
Saturation (A	(3)		Salt Crust (B11)			Drainage Patte	erns (B10)	
Water Marks	; (B1)		Aquatic Invertebra	ates (B13)		Dry-Season W	ater Table (C2)	
Sediment De	eposits (B2)		Hydrogen Sulfide	Odor (C1)		Saturation Visi	ble on Aerial Imagery (C9)	
Drift Deposite	s (B3)		Oxidized Rhizosp	neres along Livi	ing Roots (C3)	Geomorphic P	osition (D2)	
Algal Mat or	Crust (B4)		Presence of Redu	ced Iron (C4)		Shallow Aquita	rd (D3)	
Iron Deposits			Recent Iron Redu		oils (C6)	FAC-Neutral T	est (D5)	
Surface Soil							unds (D6) (LRR A)	
	isible on Aerial Imager	v (B7)	Other (Explain in I		(,		ummocks (D7)	
	getated Concave Surfa			,,				
Field Observatio				<b>D</b> <i>a a</i> -	、			
Surface Water P				Depth (inches		Wetland		•• •
Water Table Pre				Depth (inches		Hydrology	Yes	No <u>X</u>
Saturation Prese		N	lo <u>X</u>	Depth (inches	.):	Present?		
(includes capillar	y minge)							
Describe Recor	ded Data (stream gai	uge, monitoring	g well, aerial photo	s, previous ins	spections), if ava	ilable:		
				., p. e nouo inc				
Remarks:								

Project/Site:	Federal Way City Center Access		City/County:	Federal W	/ay/King	Sampling Date:	4/30/2019
Applicant/Owner:	City of Federal Way				State: Washington	Sampling Point	W5-SP-23
Investigator(s):	Per Johnson				Section, Township, Range:		516
Landform (hillslope	e, terrace, etc.):	Depression		Local re	lief (concave, convex, none):c	oncave Slop	e (%): <u>None</u>
Subregion (LRR):	Northwest Forests and Coast (LI	RR A)	_at: 47.312046	Lor	ng: -122.296600	Datum: NA	D 1983 (HARN)
Soil Unit (Name-I		nts, Alderwood ma					SS/EM1C
•	rologic conditions on the site typical	•		Ye		(If no, explain in Rem	-
Are Vegetation	, Soil, Soil				re "Normal Circumstances" prese needed, explain any answers in		<u>X</u> No
Are Vegetation							
	F FINDINGS – Attach site			nt locations,	transects, important fea	itures, etc.	
Hydrophytic Vege Hydric Soil Prese		Yes X Yes X	No No	Is the Sample	ed Area		
Wetland Hydrolo		Yes X	No	within a Wetl	and?	No	
	gy Flesent?	1es <u>A</u>			Yes X		_
Precipitation: According to the S	Seattle Tacoma Airport NOAA weath	ner station, precipit	ation was within the	normal range for	r the three months prior to the site	e visit.	
				0			
Remarks:	ated within Wetland 5, 15 feet east o	of dolingated bag	dao Corrospondo d	to DD 1 from 201	0 has delineation		
Sample plot is loc		or delineated bog e	age. Corresponds i	10 DP-1 11011 201	9 bog deilheation.		
VEGETATION	1						
VEGETATION	N	Absolute	Dominant	Indicator	Dominance Test worksheet		
Tree Stratum	(Plot size: <u>r=3m)</u>	% Cover	Species?	<u>Status</u>	Number of Dominant Species		
<sup>1.</sup> Alnus rubra	(FIOUSIZE. 1-311)	<u>90%</u>	Yes	FAC	That Are OBL, FACW, or FAC		(A)
2.		9078	165	TAC	That Are ODE, FACW, of FAC	<u> </u>	(A)
3.					Total Number of Dominant		
4.					Species Across All Strata:	3	(B)
		90% =	Total Cover	_			(5)
Sapling/Shrub S	tratum (Plot size: r=2m)				Percent of Dominant Species		
1. Oemleria cer		50%	Yes	FACU	That Are OBL, FACW, or FAC	C: <u>67%</u>	<u>e</u> (A/B)
2.					Prevalence Index workshee		
3.					Total % Cover of:	Multiply by:	
4.					OBL species	x 1 =	
5.					FACW species	x 2 =	
		=	Total Cover		FAC species	x 3 =	
<u>Herb Stratum</u>	(Plot size: <u>r=1m)</u>				FACU species	x 4 =	
1. Glyceria stria	ata	40%	Yes	OBL	UPL species	x 5 =	
2. Urtica dioica		5%	No	FAC	Column Totals:	(A)	(B)
3.					Prevalence Index		
4.					Hydrophytic Vegetation Ind		
5.					1 - Rapid Test for Hydro		
6.					X 2 - Dominance Test is >		
7.					3 - Prevalence Index is ≤		<b>1</b> <sup>1</sup>
8. 9.		· · · · · · · · · · · · · · · · · · ·			4 - Morphological Adapta data in Remarks or o		ung
3 10					5 - Wetland Non-Vascula		
11		_			Problematic Hydrophytic		
· · · · · · · · · · · · · · · · · · ·		45% =	Total Cover		<sup>1</sup> Indicators of hydric soil and v		
Woody Vine Stra	tum (Plot size: <u>r=2m)</u>	4070 -			be present.	i saana nyarology musi	
1. <u>none</u>					· ·		
2			T 1 1 0		Hydrophytic	V N	
% Bare Ground i	in Herb Stratum 0%	=	Total Cover		Vegetation Yes Present?	<u> </u>	
Remarks:	shoop to contine wetlend ware	land hummeric					
vegeration plots (	chosen to capture wetland versus up	nanu nummocks.					
-							
	ootriv						

SOIL							Sampling Point:	W5-SP-23
	tion (Describe to the	depth needed	to document the ind	licator or cor	firm the absence	of indicators):	oumphing Found	
Depth	Matrix	•			x Features	· · · · · · · · · · · · · · · · · · ·		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
+2-0				,,,				Organic debris
0-8	10YR 3/2	98	10YR 4/6	2	С	M	SiL	
8-14	10YR 3/2	80	2.5Y 6/2	15	D	M	SiL	
			10YR 4/6	5	C	M		
17 0.0	· · · · · · · · · · · · · · · · · · ·		·	0 1 10				
	entration, D=Depletion,					tion: PL=Pore Lining		
					t = fine; vf = very fir		clay); - = light (less clay)	
-	cators (Applicable to	all LRRS, unio					oblematic Hydric Soils <sup>3</sup> :	
Histosol (A1		-	Sandy Redox (S5)			2 cm Muck (		
Histic Epipe		-	Stripped Matrix (S				Material (TF2)	
Black Histic		-	Loamy Mucky Min		ept MLRA 1)		v Dark Surface (TF12)	
Hydrogen S		-	Loamy Gleyed Ma	trix (F2)		Other (Expla	in in Remarks)	
	low Dark Surface (A11	-	Depleted Matrix (F	-				
	Surface (A12)	-	X Redox Dark Surfa			<sup>3</sup> Indicators of hyd	rophytic vegetation and wetlan	d
	y Mineral (S1)	-	Depleted Dark Su			hydrology must b	e present, unless disturbed or	~
Sandy Gleye	ed Matrix (S4)	-	Redox Depression	ns (F8)		problematic.		
Restrictive Laye	er (if present):							
Ту	/pe: <sub>n/a</sub>					Hydric Soil		
Depth (inches)	: n/a					Present?	Yes X	No
Remarks:								
HYDROLOG	Y							
Wetland Hydrol	ogy Indicators:							
Primary Indicator	rs (minimum of one req	uired: check a	ll that apply)			Secondary Indica	tors (2 or more required)	
X Surface Wa			Water-Stained Lea	aves (B9) (eve	cent MI RA	-	ed Leaves (B9) (MLRA 1, 2,	
X High Water		-	1, 2, 4A, and 4E			4A, and 4		
X Saturation (/			Salt Crust (B11)			Drainage Pa	,	
Water Mark	,		Aquatic Invertebra	ites (B13)			Water Table (C2)	
Sediment De			X Hydrogen Sulfide				isible on Aerial Imagery (C9)	
Drift Deposi		-	Oxidized Rhizosph		ving Roots (C3)		Position (D2)	
Algal Mat or			Presence of Redu	0	g : :::::: (00)	Shallow Aqu		
Iron Deposit		-	Recent Iron Reduc	. ,	Soils (C6)	FAC-Neutra		
	Cracks (B6)	-	Stunted or Stresse				Mounds (D6) (LRR A)	
	/isible on Aerial Imager	v (B7)	Other (Explain in F		()		Hummocks (D7)	
	getated Concave Surfa							
						1		
Field Observation		Y		Dan the Circular	-) 0			
Surface Water F Water Table Pre				Depth (inche	·	Wetland	Vec V	No
			No	Depth (inche		Hydrology	Yes X	No
Saturation Prese (includes capilla		<u> </u>	No	Depth (inche	s): <u>0</u>	Present?		
Describe Reco	rded Data (stream gau	uge, monitorir	ng well, aerial photos	s, previous in	spections), if avai	l ilable:		
Remarks:								
	between bog and rest	of wetland.						

Project No.: 554-2441-022

US Army Corps of Engineers Western Mountains, Valleys, and Coast Region (Version 2.0)

Project/Site: F	Federal Way City Center Access		City/County:		Sampling Date: 4/30/2019
Applicant/Owner:	City of Federal Way			State: Washington	Sampling Point: W5-SP-24
Investigator(s):	Jeff Meyer and Kaylee Moser			Section, Township, Range:	T21N R04E S16
Landform (hillslope		Depr	ession		oncave Slope (%): 3-5%
Subregion (LRR):	Northwest Forests and Coast	(LRR A)	Lat: 47.312042	Long: -122.296822	Datum: NAD 1983 (HARN)
Soil Unit (Name-II	D-Hydric Rating):	Orcas P	eat -		assification: PSS/EM1C
	rologic conditions on the site typic	al for this time	of year?	Yes X No	(If no, explain in Remarks)
Are Vegetation	, Soil			rbed? Are "Normal Circumstances" prese	nt? Yes <u>X</u> No
Are Vegetation	, Soil	, or Hydrolo	gy naturally proble	atic? (If needed, explain any answers in I	Remarks.)
SUMMARY O	F FINDINGS – Attach sit	e map sho	wing sampling poi	locations, transects, important fea	tures, etc.
Hydrophytic Vege	etation Present?	Yes X	No		
Hydric Soil Prese	ent?	Yes X	No	Is the Sampled Area	
Wetland Hydrolo	gy Present?	Yes X	No	within a Wetland? Yes X	No
Precipitation:					
•	Seattle Tacoma Airport NOAA we	ather station, p	recipitation was within the	ormal range for the three months prior to the site	ə visit.
Remarks:	ted incide a delineated has within	Vational VVE	annewing stally 10 fact was	f the costorn edge of the beg. Corresponde to	DD 2 from 2010 has delineation
W5-5P-24 IS IOCA	ted inside a delineated bog within	vveliand vvo, a	approximately to leet wes	of the eastern edge of the bog. Corresponds to	JP-2 from 2019 bog delineation.
VEGETATION	N				•
		Absolu	te Dominant	Indicator Dominance Test worksheet:	
Tree Stratum	(Plot size: <u>r=3m)</u>	<u>% Cov</u>	er Species?	Status Number of Dominant Species	
1. Tsuga hetero	ophylla	100%	6 Yes	FACU That Are OBL, FACW, or FAC	C: <u> </u>
2.					
3.				Total Number of Dominant	
4.				Species Across All Strata:	3 (B)
		100%	6 = Total Cover		
Sapling/Shrub S	tratum (Plot size: r=2m)		_	Percent of Dominant Species	
1. Sambucus ra	acemosa	30%	Yes	FACU That Are OBL, FACW, or FAC	: <u>33%</u> (A/B)
2. Rubus spect		15%		FAC Prevalence Index worksheet	
3.				Total % Cover of:	Multiply by:
4.				OBL species	x 1 =
5.				FACW species	x 2 =
		45%	= Total Cover	FAC species	x 3 =
Herb Stratum	(Plot size: r=1m)			FACU species	x 4 =
1. none	(**************************************			UPL species	x 5 =
2.				Column Totals:	(A) (B)
3.				Prevalence Index	· · · · · · · · · · · · · · · · · · ·
4.				Hydrophytic Vegetation Indi	
5.				1 - Rapid Test for Hydrop	
6.				2 - Dominance Test is >5	
7.				2 = Definition of the test is ≤3 - Prevalence Index is ≤	
8.				X 4 - Morphological Adapta	
9.				data in Remarks or or	
10.				5 - Wetland Non-Vascula	
11.		-		Problematic Hydrophytic	
· · · · · · · · · · · · · · · · · · ·					
Woody Vine Stra	ntum (Plot size: <u>r=2m)</u>	0%	= Total Cover	<sup>1</sup> Indicators of hydric soil and w	etiand hydrology must
1. none				be present.	
2.				Hydrophytic	
		0%	= Total Cover	Vegetation Yes	X No
% Bare Ground	in Herb Stratum 10%			Present?	
Remarks:					
	la meets special characteristics; is	a boa adante	d species.		
			r		
Paran	netrix				

SOIL						Sampling Point:	W5-SP-24
Profile Descrip	tion (Describe to the	depth needed	I to document the indicator	or confirm the abser	nce of indicators):		
Depth	Matrix	(		Redox Features			
(inches)	Color (moist)	%	Color (moist)	% Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-6	7.5YR 3/3	100				Organic debris	
6-12	7.5YR 2.5/2	100				sapric peat	
12-28+	7.5YR 3/4	100				hemic peat	
<sup>1</sup> Type: C=Conce	ntration D-Doplation	PM-Poducod	Matrix, CS=Covered or Coat	od Sand Grains <sup>2</sup> L	ocation: PL=Pore Lining	M-Matrix	
•••			amy. Texture Modifier: co = c				
			ess otherwise noted):	oarse, i – iirie, vi – ver			
-		all LKKS, ulli				oblematic Hydric Soils <sup>3</sup> :	
X Histosol (A1	,	-	Sandy Redox (S5)		2 cm Muck (A		
Histic Epipe		-	Stripped Matrix (S6)		Red Parent M		
Black Histic		-	Loamy Mucky Mineral (F			Dark Surface (TF12)	
Hydrogen S			Loamy Gleyed Matrix (F2	2)	Other (Explain	n in Remarks)	
	elow Dark Surface (A11	) -	Depleted Matrix (F3)				
	Surface (A12)	-	Redox Dark Surface (F6		<sup>3</sup> Indicators of hydro	ophytic vegetation and wetland	
	y Mineral (S1)	-	Depleted Dark Surface (I	-7)		present, unless disturbed or	
Sandy Gleye	ed Matrix (S4)	-	Redox Depressions (F8)		problematic.		
Restrictive Lay	er (if present):						
Ту	rpe: <u>n/a</u>				Hydric Soil		
Depth (inches)	: n/a	-			Present?	Yes X	No
Remarks:							
						•	
HYDROLOG							
Wetland Hydrol							
Primary Indicato	rs (minimum of one req	uired; check a	Il that apply)		Secondary Indicate	ors (2 or more required)	
Surface Wa	ter (A1)	-	Water-Stained Leaves (E	39) (except MLRA	Water-Staine	d Leaves (B9) (MLRA 1, 2,	
X High Water	Table (A2)		1, 2, 4A, and 4B)		4A, and 4E	3)	
X Saturation (	,		Salt Crust (B11)		Drainage Pat	terns (B10)	
Water Mark	s (B1)		Aquatic Invertebrates (B	13)	Dry-Season V	Vater Table (C2)	
Sediment D	eposits (B2)		Hydrogen Sulfide Odor (	C1)	Saturation Vis	sible on Aerial Imagery (C9)	
Drift Deposi	ts (B3)	-	Oxidized Rhizospheres a	long Living Roots (C3)	) Geomorphic I	Position (D2)	
Algal Mat or	Crust (B4)	-	Presence of Reduced Irc	on (C4)	Shallow Aquit	ard (D3)	
Iron Deposit	s (B5)		Recent Iron Reduction in	Tilled Soils (C6)	FAC-Neutral	Test (D5)	
Surface Soi	Cracks (B6)		Stunted or Stressed Plar	ts (D1) (LRR A)	Raised Ant M	lounds (D6) (LRR A)	
Inundation V	isible on Aerial Imager	y (B7)	Other (Explain in Remark	(s)	Frost-Heave	Hummocks (D7)	
Sparsely Ve	getated Concave Surfa	ace (B8)					
Field Observati	ons:						
Surface Water	Present? Yes		No X Depth	n (inches):	Wetland		
Water Table Pre	esent? Yes	Х		n (inches): 8	Hydrology	Yes X	No
Saturation Prese	ent? Yes	X		(inches): 8	Present?		
(includes capilla	ry fringe)				-		
Describe Reco	rded Data (stream ga	uge, monitorii	ng well, aerial photos, prev	ious inspections), if a	available:		
Remarks:							
Nomarka.							

Project/Site:	Federal Way City Center Access		City/County:	Federal Way/K	ing	Sampling Date:	8/18/2020
Applicant/Owner:	City of Federal Way				State: Washington	Sampling Point	W6-SP-10
Investigator(s):	Matt Murphy, Aaron Thom			s	Section, Township, Range:	T21N R04E S	516
Landform (hillslop	e, terrace, etc.):	valley nar	OW			none Slop	e (%): 3-5%
Subregion (LRR)	Northwest Forests and Coast	(LRR A)	Lat: 47.310406	 Lon	g: -122.302139		D 1983 (HARN)
		rents, Alderwood m	aterial -	AmB -		assification:	None
	rologic conditions on the site typic			Ye	es X No	(If no, explain in Rem	arks)
Are Vegetation	, Soil	-		turbed? Ar	e "Normal Circumstances" prese	nt? Yes	X No
Are Vegetation	, Soil				needed, explain any answers in I	Remarks.)	
SUMMARY C	F FINDINGS – Attach sit	te map showir	ig sampling poi	nt locations,	transects, important fea	tures, etc.	
Hydrophytic Veg	etation Present?	Yes X	No				
Hydric Soil Prese	ent?	Yes X	No	Is the Sample	ed Area		
Wetland Hydrolo	gy Present?	Yes X	No	within a Wetla	and? Yes X	No	_
Precipitation: According to the	Seattle Tacoma Airport NOAA we	ather station, preci	pitation was within the	normal range for	the three months prior to the site	e visit.	
Remarks: Sample plot locat steep slopes.	ed within Wetland W6, along right	(west) bank of Stro	eam 1 (East Fork Hyle	ebos Creek) in Be	elmor Park. Located along narrov	/ floodbench adjacent t	to channel with
VEGETATIO	N						
		Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum	(Plot size: 3m x 1m		Species?	Status	Number of Dominant Species		
1. Thuja plicata		5%	Yes	FAC	That Are OBL, FACW, or FAC	: 4	(A)
2.						···	(
3.					Total Number of Dominant		
4.					Species Across All Strata:	4	(B)
		5%	= Total Cover				(D)
Sapling/Shrub S	tratum (Plot size: <u>2m x 1m</u>				Percent of Dominant Species		
<sup>1.</sup> Rubus arme		20%	Yes	FAC	That Are OBL, FACW, or FAC	. 100%	6 (A/B)
<ol> <li>Rubus spect</li> </ol>		<u>20 %</u> 10%	Yes	FAC	Prevalence Index workshee	··	= (AB)
3.	abilis	1078	<u> </u>		Total % Cover of:	Multiply by:	
4.					OBL species	x 1 =	
5.		_			FACW species	x 2 =	
		30%	= Total Cover		FAC species	x 3 =	
Herb Stratum	(Plot size: <u>1m x 1m</u>				FACU species	x 4 =	
	,	50%	Van	FACW	UPL species	x 5 =	
<ol> <li><u>Phalaris arui</u></li> <li>Equisetum te</li> </ol>		<u></u>	Yes No	FACW	Column Totals:	(A)	(B)
		<u>15%</u>			Prevalence Index	· · · · · · · · · · · · · · · · · · ·	(2)
<ol> <li><u>Solanum dul</u></li> <li>4.</li> </ol>	camara		No	FAC	Hydrophytic Vegetation Ind		
 5.					1 - Rapid Test for Hydrop		
6					X 2 - Dominance Test is >5		
7.					3 - Prevalence Index is ≤		
							tin a
8.					4 - Morphological Adapta data in Remarks or or		ung
9							
10.		_			5 - Wetland Non-Vascula		
11.		_			Problematic Hydrophytic		
Woody Vine Stra	atum (Plot size: <u>r=2m)</u>	80%	= Total Cover		<sup>1</sup> Indicators of hydric soil and w be present.	etland hydrology must	
1 none					•		
2.					Hydrophytic		
			= Total Cover		Vegetation Yes	<u> </u>	
% Bare Ground	in Herb Stratum open wate	er			Present?		
Remarks:							
Deve							
raran	netrix						

SOIL								
Profile Descripti	ion (Describe to the	depth needec	to document the inc	licator or con	firm the absence	of indicators):		
Depth	Matrix	(		Redox	x Features			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-5	10YR 2/1	100					SiL	
5-16+	10YR 2/2	95	10GY 4/1	5	D	М	SiL	
	-tration D-Depletion	DM-Daduced	Matrix, CS=Covered of	- Cooted San	d Craina <sup>2</sup> l oca	tion: PL=Pore Lining	- MA-Matrix	
	•					-	clay); - = light (less clay)	
			ess otherwise noted)		r = nne, vi = very n	• `		
-		ali LKRS, um					oblematic Hydric Soils <sup>3</sup> :	
Histosol (A1)			Sandy Redox (S5	·		2 cm Muck (		
Histic Epiped			Stripped Matrix (S	,	. –		Material (TF2)	
Black Histic (			Loamy Mucky Min		ept MLRA 1)		Dark Surface (TF12)	
Hydrogen Sul			Loamy Gleyed Ma			Other (Expla	in in Remarks)	
	ow Dark Surface (A11		Depleted Matrix (F					
Thick Dark Su			X Redox Dark Surfa				ophytic vegetation and wetland	
Sandy Mucky		·	Depleted Dark Su				e present, unless disturbed or	Ŧ
Sandy Gleyed	d Matrix (S4)		Redox Depression	ns (F8)		problematic.		
Restrictive Layer	r (if present):							
Тур	be:					Hydric Soil		
Depth (inches):						Present?	Yes X	No
Depth (inches): Remarks:						Present?	Yes X	No
Depth (inches): Remarks: HYDROLOGY	(					Present?	Yes X	No
Depth (inches): Remarks: HYDROLOGY Netland Hydrolo	/ bgy Indicators:							No
Depth (inches): Remarks: HYDROLOGY Wetland Hydrolo Primary Indicators	f pgy Indicators: s (minimum of one req	uired; check a	ill that apply)				Yes X x tors (2 or more required)	No
Depth (inches): Remarks: HYDROLOGY Netland Hydrolo	f pgy Indicators: s (minimum of one req	<u>uired; check a</u>	Water-Stained Le		cept MLRA	Secondary Indicat		No
Depth (inches): Remarks: HYDROLOGY Netland Hydrolo Primary Indicators Surface Wate X High Water T	f pgy Indicators: s (minimum of one req er (A1) Table (A2)	uired; check a	Water-Stained Le 1, 2, 4A, and 4		cept MLRA	Secondary Indicat	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2,	No
Depth (inches): Remarks: HYDROLOGY Vetland Hydrolo Primary Indicators Surface Wate X High Water T X Saturation (A:	<b>f</b> <b>ogy Indicators:</b> <u>as (minimum of one req</u> er (A1) able (A2) 3)	<u>uired; check a</u>	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11)	3)	cept MLRA	Secondary Indicat Water-Staine 4A, and 4I Drainage Pa	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, 3) tterns (B10)	No
Depth (inches): Remarks: HYDROLOGY Netland Hydrolo Primary Indicators Surface Wate X High Water T X Saturation (A: Water Marks	f ogy Indicators: s (minimum of one req er (A1) Table (A2) 3) (B1)	uired; check a	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra	3) ates (B13)	cept MLRA	Secondary Indicat Water-Staine 4A, and 4I Drainage Pa X Dry-Season	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, 3) tterns (B10) Water Table (C2)	No
Depth (inches): Remarks: HYDROLOGY Vetland Hydrolo Primary Indicators Surface Wate X High Water T X Saturation (A:	f ogy Indicators: s (minimum of one req er (A1) Table (A2) 3) (B1)	uired; check a	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11)	3) ates (B13)	cept MLRA	Secondary Indicat Water-Staine 4A, and 4I Drainage Pa X Dry-Season	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, 3) tterns (B10)	No
Depth (inches): Remarks: HYDROLOGY Netland Hydrolo Primary Indicators Surface Wate X High Water T X Saturation (A: Water Marks	f pgy Indicators: s (minimum of one req er (A1) Table (A2) 3) (B1) posits (B2)	<u>uired; check a</u>	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra	3) ates (B13) Odor (C1)		Secondary Indicat Water-Staine 4A, and 4I Drainage Pa X Dry-Season	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, 3) tterns (B10) Water Table (C2) sible on Aerial Imagery (C9)	No
Depth (inches): Remarks: HYDROLOGY Vetland Hydrolo Primary Indicators Surface Wate X High Water T X Saturation (A: Water Marks Sediment Dep	y Indicators: s (minimum of one requer (A1) Table (A2) 3) (B1) posits (B2) s (B3)	uired; check a	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide	3) ates (B13) Odor (C1) neres along Liv		Secondary Indicat Water-Staine 4A, and 4I Drainage Pa X Dry-Season Saturation Vi	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, 3) tterns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2)	No
Depth (inches): Remarks: HYDROLOGY Wetland Hydrolo Primary Indicators Surface Water X High Water T X Saturation (A: Water Marks Sediment Dep Drift Deposits	<b>f</b> <b>bgy Indicators:</b> <b>a</b> (minimum of one req er (A1) Table (A2) 3) (B1) posits (B2) <b>a</b> (B3) Crust (B4)	uired; check a	Water-Stained Le 1, 2, 4A, and 4B Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl	3) ates (B13) Odor (C1) neres along Lin aced Iron (C4)	ving Roots (C3)	Secondary Indicat Water-Staine 4A, and 4I Drainage Pa X Dry-Season Saturation Vi X Geomorphic	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, 3) tterns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3)	No
Depth (inches): Remarks: HYDROLOGY Vetland Hydrolo Primary Indicators Surface Wate X High Water T X Saturation (A: Water Marks Sediment Dep Drift Deposits Algal Mat or 0	<b>f</b> <b>pgy Indicators:</b> <u>a (minimum of one req</u> er (A1) Table (A2) 3) (B1) posits (B2) <u>a</u> (B3) Crust (B4) <u>a</u> (B5)	uired; check a	Water-Stained Lee 1, 2, 4A, and 4B Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl Presence of Redu	3) ates (B13) Odor (C1) neres along Lin aced Iron (C4) ction in Tilled S	ving Roots (C3) Soils (C6)	Secondary Indicat Water-Staine 4A, and 4I Drainage Pa X Dry-Season Saturation Vi X Geomorphic Shallow Aqui X FAC-Neutral	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, 3) tterns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3)	No
Depth (inches): Remarks: HYDROLOGY Netland Hydrolo Primary Indicators Surface Water X High Water T X Saturation (A: Water Marks Sediment Dep Drift Deposits Algal Mat or O Iron Deposits Surface Soil O	<b>f</b> <b>pgy Indicators:</b> <u>a (minimum of one req</u> er (A1) Table (A2) 3) (B1) posits (B2) <u>a</u> (B3) Crust (B4) <u>a</u> (B5)		Water-Stained Lee 1, 2, 4A, and 4B Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl Presence of Redu Recent Iron Redu	ates (B13) Odor (C1) neres along Liv aced Iron (C4) ction in Tilled S ed Plants (D1)	ving Roots (C3) Soils (C6)	Secondary Indicat Water-Staine 4A, and 4 Drainage Pa X Dry-Season Saturation Vi X Geomorphic Shallow Aqui X FAC-Neutral Raised Ant M	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, 3) tterns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5)	No
Depth (inches): Remarks: HYDROLOGY Metland Hydrolo Primary Indicators Surface Water X High Water T X Saturation (A: Water Marks Sediment Dep Drift Deposits Algal Mat or ( Iron Deposits Surface Soil ( Inundation Vis	y Indicators: <u>a (minimum of one req</u> er (A1) Table (A2) 3) (B1) posits (B2) s (B3) Crust (B4) 5 (B5) Cracks (B6)	y (B7)	Water-Stained Lee 1, 2, 4A, and 4B Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl Presence of Redu Recent Iron Redu Stunted or Stresse	ates (B13) Odor (C1) neres along Liv aced Iron (C4) ction in Tilled S ed Plants (D1)	ving Roots (C3) Soils (C6)	Secondary Indicat Water-Staine 4A, and 4 Drainage Pa X Dry-Season Saturation Vi X Geomorphic Shallow Aqui X FAC-Neutral Raised Ant M	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, 3) tterns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) <i>f</i> ounds (D6) (LRR A)	No
Depth (inches): Remarks: HYDROLOGY Metland Hydrolo Primary Indicators Surface Water X High Water T X Saturation (A: Water Marks Sediment Dep Drift Deposits Algal Mat or ( Iron Deposits Surface Soil ( Inundation Vis	( pgy Indicators: <u>a (minimum of one req</u> er (A1) Table (A2) 3) (B1) posits (B2) a (B3) Crust (B4) a (B5) Cracks (B6) sible on Aerial Imager petated Concave Surfa	y (B7)	Water-Stained Lee 1, 2, 4A, and 4B Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl Presence of Redu Recent Iron Redu Stunted or Stresse	ates (B13) Odor (C1) neres along Liv aced Iron (C4) ction in Tilled S ed Plants (D1)	ving Roots (C3) Soils (C6)	Secondary Indicat Water-Staine 4A, and 4 Drainage Pa X Dry-Season Saturation Vi X Geomorphic Shallow Aqui X FAC-Neutral Raised Ant M	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, 3) tterns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) <i>f</i> ounds (D6) (LRR A)	No
Depth (inches): Remarks: HYDROLOGY Netland Hydrolo Primary Indicators Surface Water X High Water T X Saturation (A: Water Marks Sediment Dep Drift Deposits Algal Mat or O Iron Deposits Surface Soil O Inundation Vis Sparsely Veg	<b>f</b> <b>rgy Indicators:</b> <b>a</b> (minimum of one req er (A1) Table (A2) 3) (B1) posits (B2) <b>a</b> (B3) Crust (B4) <b>a</b> (B5) Cracks (B6) sible on Aerial Imager petated Concave Surfa	y (B7) nce (B8)	Water-Stained Lee 1, 2, 4A, and 4B Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl Presence of Redu Recent Iron Redu Stunted or Stresse Other (Explain in F	ates (B13) Odor (C1) neres along Liv aced Iron (C4) ction in Tilled S ed Plants (D1)	ving Roots (C3) Soils (C6) (LRR A)	Secondary Indicat Water-Staine 4A, and 4 Drainage Pa X Dry-Season Saturation Vi X Geomorphic Shallow Aqui X FAC-Neutral Raised Ant M	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, 3) tterns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) <i>f</i> ounds (D6) (LRR A)	No
Depth (inches): Remarks: HYDROLOGY Vetland Hydrolo Primary Indicators Surface Water X High Water T X Saturation (A: Water Marks Sediment Dep Drift Deposits Algal Mat or (C Iron Deposits Surface Soil (C Inundation Vis Sparsely Veg Field Observation	y gy Indicators: s (minimum of one req er (A1) Table (A2) 3) (B1) posits (B2) s (B3) Crust (B4) s (B5) Cracks (B6) sible on Aerial Imager getated Concave Surfa ns: resent? Yes	y (B7) ice (B8)	Water-Stained Le 1, 2, 4A, and 4H Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Redu Stunted or Stresse Other (Explain in F	ates (B13) Odor (C1) neres along Liv aced Iron (C4) ction in Tilled S ed Plants (D1) Remarks)	ving Roots (C3) Soils (C6) (LRR A)	Secondary Indicat Water-Staine 4A, and 4I Drainage Pa X Dry-Season Saturation Vi X Geomorphic Shallow Aqui X FAC-Neutral Raised Ant M Frost-Heave	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, 3) tterns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) Mounds (D6) (LRR A) Hummocks (D7)	No 
Depth (inches): Remarks: HYDROLOGY Netland Hydrolo Primary Indicators Surface Water X High Water T X Saturation (A: Water Marks Sediment Dep Drift Deposits Algal Mat or ( Iron Deposits Surface Soil ( Inundation Vis Sparsely Veg Field Observation Surface Water Pr	( pgy Indicators: <u>s (minimum of one req</u> er (A1) Table (A2) 3) (B1) posits (B2) s (B3) Crust (B4) s (B5) Cracks (B6) sible on Aerial Imager jetated Concave Surfa ns: resent? Yes	y (B7) ace (B8)	Water-Stained Let         1, 2, 4A, and 4E         Salt Crust (B11)         Aquatic Invertebra         Hydrogen Sulfide         Oxidized Rhizospl         Presence of Redu         Recent Iron Redu         Stunted or Stress         Other (Explain in F         No	3) ates (B13) Odor (C1) neres along Liv aced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) Depth (inche Depth (inche	ving Roots (C3) Soils (C6) 0 (LRR A) ss):	Secondary Indicat Water-Staine 4A, and 4I Drainage Pa X Dry-Season Saturation Vi X Geomorphic Shallow Aqui X FAC-Neutral Raised Ant M Frost-Heave	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, 3) tterns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) <i>f</i> ounds (D6) (LRR A) Hummocks (D7)	
Depth (inches): Remarks: HYDROLOGY Netland Hydrolo Primary Indicators Surface Water X High Water T X Saturation (A: Water Marks Sediment Dep Drift Deposits Algal Mat or O Iron Deposits Surface Soil O Inundation Vis Sparsely Veg Field Observation Surface Water Pr Water Table Press	( pgy Indicators: <u>a (minimum of one req</u> er (A1) Table (A2) 3) (B1) posits (B2) a (B3) Crust (B4) a (B5) Cracks (B6) sible on Aerial Imager petated Concave Surfa ns: resent? Yes sent? Yes	y (B7) ace (B8)	Water-Stained Le 1, 2, 4A, and 4B Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl Presence of Redu Recent Iron Redu Stunted or Stresso Other (Explain in R	3) ates (B13) Odor (C1) neres along Liv aced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) Depth (inche Depth (inche	ving Roots (C3) Soils (C6) (LRR A)	Secondary Indicat Water-Staine 4A, and 4I Drainage Pa X Dry-Season Saturation Vi X Geomorphic Shallow Aqui X FAC-Neutral Raised Ant M Frost-Heave	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, 3) tterns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) <i>f</i> ounds (D6) (LRR A) Hummocks (D7)	
Depth (inches): Remarks: HYDROLOGY Vetland Hydrolo Primary Indicators Surface Water X High Water T X Saturation (A: Water Marks Sediment Dep Drift Deposits Algal Mat or (C Iron Deposits Surface Soil (C Inundation Vis Sparsely Veg Field Observation Surface Water Press Saturation Preser (includes capillary)	f         regy Indicators:         as (minimum of one requests)         er (A1)         Table (A2)         3)         (B1)         posits (B2)         s (B3)         Crust (B4)         s (B5)         Cracks (B6)         sible on Aerial Imagery         petated Concave Surfa         ns:         resent?       Yes         sent?       Yes         yfringe)	y (B7) nce (B8) X X	Water-Stained Lee 1, 2, 4A, and 4H Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Redu Stunted or Stresse Other (Explain in H	ates (B13) Odor (C1) neres along Liv aced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) Depth (inche Depth (inche Depth (inche	ving Roots (C3) Soils (C6) (LRR A) (LRR A) (s):	Secondary Indicat Water-Staine 4A, and 4I Drainage Pa X Dry-Season Saturation Vi X Geomorphic Shallow Aqui X FAC-Neutral Raised Ant M Frost-Heave Wetland Hydrology Present?	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, 3) tterns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) <i>f</i> ounds (D6) (LRR A) Hummocks (D7)	
Depth (inches): Remarks: HYDROLOGY Vetland Hydrolo Primary Indicators Surface Water X High Water T X Saturation (A: Water Marks Sediment Dep Drift Deposits Algal Mat or (C Iron Deposits Surface Soil (C Inundation Vis Sparsely Veg Field Observation Surface Water Press Saturation Preser (includes capillary)	f         regy Indicators:         as (minimum of one requests)         er (A1)         Table (A2)         3)         (B1)         posits (B2)         s (B3)         Crust (B4)         s (B5)         Cracks (B6)         sible on Aerial Imagery         petated Concave Surfa         ns:         resent?       Yes         sent?       Yes         yfringe)	y (B7) nce (B8) X X	Water-Stained Let         1, 2, 4A, and 4E         Salt Crust (B11)         Aquatic Invertebra         Hydrogen Sulfide         Oxidized Rhizospl         Presence of Redu         Recent Iron Redu         Stunted or Stress         Other (Explain in F         No	ates (B13) Odor (C1) neres along Liv aced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) Depth (inche Depth (inche Depth (inche	ving Roots (C3) Soils (C6) (LRR A) (LRR A) (s):	Secondary Indicat Water-Staine 4A, and 4I Drainage Pa X Dry-Season Saturation Vi X Geomorphic Shallow Aqui X FAC-Neutral Raised Ant M Frost-Heave Wetland Hydrology Present?	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, 3) tterns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) <i>f</i> ounds (D6) (LRR A) Hummocks (D7)	
Depth (inches): Remarks: HYDROLOGY Netland Hydrolo Primary Indicators Surface Water X High Water T X Saturation (A: Water Marks Sediment Dep Drift Deposits Algal Mat or ( Iron Deposits Surface Soil ( Inundation Vis Sparsely Veg Field Observation Surface Water Press Saturation Preser (includes capillary) Describe Record	f         regy Indicators:         as (minimum of one requests)         er (A1)         Table (A2)         3)         (B1)         posits (B2)         s (B3)         Crust (B4)         c (B5)         Cracks (B6)         sible on Aerial Imagery         petated Concave Surfa         ns:         resent?       Yes         sent?       Yes         yfringe)	y (B7) nce (B8) X X	Water-Stained Lee 1, 2, 4A, and 4H Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Redu Stunted or Stresse Other (Explain in H	ates (B13) Odor (C1) neres along Liv aced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) Depth (inche Depth (inche Depth (inche	ving Roots (C3) Soils (C6) (LRR A) (LRR A) (s):	Secondary Indicat Water-Staine 4A, and 4I Drainage Pa X Dry-Season Saturation Vi X Geomorphic Shallow Aqui X FAC-Neutral Raised Ant M Frost-Heave Wetland Hydrology Present?	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, 3) tterns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) <i>f</i> ounds (D6) (LRR A) Hummocks (D7)	
Depth (inches): Remarks: HYDROLOGY Vetland Hydrolo Primary Indicators Surface Water X High Water T X Saturation (A: Water Marks Sediment Dep Drift Deposits Algal Mat or ( Iron Deposits Surface Soil ( Inundation Vis Sparsely Veg Field Observation Surface Water Press Saturation Preser (includes capillary Describe Record Remarks:	y y y y line line line line line line line line	y (B7) ince (B8) X X Ige, monitori	Water-Stained Lee 1, 2, 4A, and 4H Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl Presence of Redu Recent Iron Redu Stunted or Stresse Other (Explain in H No X No	ates (B13) Odor (C1) heres along Liv aced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) Depth (inche Depth (inche Depth (inche S, previous in	ving Roots (C3) Soils (C6) (LRR A) s): s):6 s):6 s):0, surface	Secondary Indicat Water-Staine 4A, and 4I Drainage Pa X Dry-Season Saturation Vi X Geomorphic Shallow Aqui X FAC-Neutral Raised Ant M Frost-Heave Wetland Hydrology Present?	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, 3) tterns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) <i>f</i> ounds (D6) (LRR A) Hummocks (D7)	

**Parametrix** ENGINEERING . PLANNING . ENVIRONMENTAL SCIENCES

Project No.: 554-2441-022

Project/Site: Fe	ederal Way City Center Access		City/County:	Federal Way/K	King Sampling Date: 8/18/2020
Applicant/Owner:	City of Federal Way				State: Washington Sampling Point: W6-SP-11
Investigator(s):	Per Johnson, Aaron Thom			S	Section, Township, Range: T21N R04E S16
Landform (hillslope,	terrace, etc.):	hillslope			lief (concave, convex, none): convex Slope (%): >10%
Subregion (LRR):		LRR A)	Lat: 47.310421	_	ng: -122.302277 Datum: NAD 1983 (HARN
Soil Unit (Name-ID	-Hydric Rating): Ar	ents, Alderwood m	aterial		- Not Hydric NWI classification: None
Are climatic / hydro	blogic conditions on the site typica	l for this time of ye	ar?	Ye	es X No (If no, explain in Remarks)
Are Vegetation	, Soil	, or Hydrology	significantly dis		re "Normal Circumstances" present? Yes X No
Are Vegetation	, Soil	, or Hydrology	naturally proble	ematic? (If	needed, explain any answers in Remarks.)
SUMMARY OF	F FINDINGS – Attach site	e map showin	g sampling poi	nt locations,	transects, important features, etc.
Hydrophytic Veget	tation Present?	Yes X	No		
Hydric Soil Presen	nt?	Yes	No X	Is the Sample	ed Area
Wetland Hydrolog	y Present?	Yes	No X	within a Wetl	and? Yes NoX
Precipitation:					
According to the Se	eattle Tacoma Airport NOAA wea	ther station, precip	itation was within the	e normal range for	r the three months prior to the site visit.
Remarks:					
Paired upland pit fo	or Wetland W6				
VEGETATION					
		Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum	(Plot size: <u>r=3m)</u>	% Cover	Species?	Status	Number of Dominant Species
<sup>1.</sup> Salix scouleria		80%	Yes	FAC	That Are OBL, FACW, or FAC: 4 (A)
2. Thuja plicata		30%	Yes	FAC	
3.		50%	163		Total Number of Dominant
4.					
		110%	= Total Cover		Species Across All Strata: <u>6</u> (B)
Sapling/Shrub Str	ratum (Plot size: r=2m)	11076			Percent of Dominant Species
4	<u> </u>	200/	Vee	FAC	
<ol> <li><u>Rubus armenia</u></li> <li><u>Rubus ursinus</u></li> </ol>		30%	Yes	FAC	
<ol> <li><u>Rubus ursinus</u></li> <li>3.</li> </ol>	5	15%	Yes	FACU	Prevalence Index worksheet: Total % Cover of: Multiply by:
4.					OBL species x 1 =
					FACW species x 2 =
J.		450/	Tatal Causes		FAC species x 3 =
Herb Stratum	(Plot size: <u>r=1m</u>	45%	= Total Cover		FACU species x 4 =
	,	50/	N	FACIN	UPL species x 5 =
<ol> <li><u>Equisetum teli</u></li> <li>2.</li> </ol>	matela		Yes	FACW	Column Totals: (A) (B)
3.					Prevalence Index = B/A =
4.					Hydrophytic Vegetation Indicators:
4 5					1 - Rapid Test for Hydrophytic Vegetation
6					X 2 - Dominance Test is >50%
7					$3$ - Prevalence Index is $\leq 3.0^{1}$
8.					4 - Morphological Adaptations <sup>1</sup> (Provide supporting
9.					data in Remarks or on a separate sheet)
		-			
10.					5 - Wetland Non-Vascular Plants <sup>1</sup> Problematic Hydrophytic Vegetation (Explain) <sup>1</sup>
11.			T ( 10		
Woody Vine Strat	um (Plot size: <u>r=2m)</u>	<u> </u>	= Total Cover		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.
1. Ilex aquifolium		2%	Yes	FACU	
2.					Hydrophytic
		2%	= Total Cover		Vegetation Yes X No
% Bare Ground in	Herb Stratum 55%				Present?
Remarks:					1
Param	otriv				

SOIL			Sampling Point:	W6-SP-11
Profile Description (Desc	ribe to the depth neede	d to document the indicator or confirm the absend	ce of indicators):	
Depth	Matrix	Redox Features		
(inches) Color	(moist) %	Color (moist) % Type <sup>1</sup>	Loc <sup>2</sup> Texture <sup>3</sup>	Remarks
0-8 101	′R 4/3 100		CbL	
<sup>1</sup> Type: C=Concentration, D	=Depletion, RM=Reduced	Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup> Lo	cation: PL=Pore Lining, M=Matrix.	
	•	pamy. Texture Modifier: co = coarse; f = fine; vf = very		
Hydric Soil Indicators (Ap			Indicators for Problematic Hydric Soils <sup>3</sup> :	
Histosol (A1)		Sandy Redox (S5)	2 cm Muck (A10)	
Histic Epipedon (A2)		Stripped Matrix (S6)	Red Parent Material (TF2)	
Black Histic (A3)		Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)	
Hydrogen Sulfide (A4)		Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)	
Depleted Below Dark S	Surface (A11)	Depleted Matrix (F3)		
Thick Dark Surface (A	12)	Redox Dark Surface (F6)	3	
Sandy Mucky Mineral (	S1)	Depleted Dark Surface (F7)	<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or	
Sandy Gleyed Matrix (	54)	Redox Depressions (F8)	problematic.	
Restrictive Layer (if prese	ent):			
Туре:	, <b>,</b> .		Hydric Soil	
Depth (inches):			Present? Yes N	οX
HYDROLOGY				
Wetland Hydrology Indica				
Primary Indicators (minimu	m of one required; check		Secondary Indicators (2 or more required)	
Surface Water (A1)		Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,	
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	2)	Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)	
Drift Deposits (B3)		Oxidized Rhizospheres along Living Roots (C3)	Geomorphic Position (D2)	
Algal Mat or Crust (B4		Presence of Reduced Iron (C4)	Shallow Aquitard (D3)	
Iron Deposits (B5)		Recent Iron Reduction in Tilled Soils (C6)	FAC-Neutral Test (D5)	
Surface Soil Cracks (E		Stunted or Stressed Plants (D1) (LRR A)	Raised Ant Mounds (D6) (LRR A)	
Inundation Visible on A		Other (Explain in Remarks)	Frost-Heave Hummocks (D7)	
Sparsely Vegetated Co	ncave Sunace (Bo)			
Field Observations:				
Surface Water Present?	Yes	No X Depth (inches):	Wetland	
Water Table Present?	Yes	No X Depth (inches):		o <u>X</u>
Saturation Present? (includes capillary fringe)	Yes	No X Depth (inches):	Present?	
Describe Recorded Data	(stream gauge monitor	ing well, aerial photos, previous inspections), if a	vailable:	
	(ottoutin gaugo, monitor			
Remarks:				

US Army Corps of Engineers Western Mountains, Valleys, and Coast Region (Version 2.0)

Project/Site:	Federal Way City Center	Access	City/County:	Federal Way/Ki	ng	Sampling Date: 8/18/2020
Applicant/Owner:	City of Federal Way				State: Washington	Sampling Point: SP-12
Investigator(s):	Per Johnson, Aaron	Thom		S	ection, Township, Range:	T21N R04E S16
Landform (hillslope	e, terrace, etc.):	flat		Local reli	ef (concave, convex, none):	none Slope (%): <3%
Subregion (LRR):	Northwest Forests ar	nd Coast (LRR A)	Lat: 47.305656	Long	g: -122.301895	Datum: NAD 1983 (HARN)
Soil Unit (Name-I	D-Hydric Rating):	Alderwood gravelly sar	idy loam -			assification: None
Are climatic / hyd	rologic conditions on the	site typical for this time of ye	ar?	Ye	s X No	(If no, explain in Remarks)
Are Vegetation	, Soil	, or Hydrology	significantly dis	turbed? Are	e "Normal Circumstances" prese	nt? Yes <u>X</u> No
Are Vegetation	, Soil	, or Hydrology	naturally proble	ematic? (If	needed, explain any answers in F	Remarks.)
SUMMARY C	F FINDINGS – Att	tach site map showin	g sampling poi	nt locations,	transects, important fea	tures, etc.
Hydrophytic Veg	etation Present?	Yes X	No			
Hydric Soil Prese	ent?	Yes	No X	Is the Sample		
Wetland Hydrolo	gy Present?	Yes	No <u>X</u>	within a Wetla	and? Yes	No <u>X</u>
Precipitation: According to the s	Seattle Tacoma Airport N	NOAA weather station, precip	itation was within the	normal range for	the three months prior to the site	e visit.
Remarks:						
						vegetation community, suggesting observed below grade. Sample plot
not associated wi						
VEGETATIO	N	<b>A</b> Is a short s	Densisent	lu d'antaŭ		
Tues Chustum		Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum	(Plot size:	<u>r=3m) % Cover</u>	<u>Species?</u>	<u>Status</u>	Number of Dominant Species	
<ol> <li>Populus bals</li> <li>Salix scouler</li> </ol>		70%	Yes	FAC	That Are OBL, FACW, or FAC	: <u>4</u> (A)
<ol> <li>Salix scouler</li> <li>3.</li> </ol>	nana	30%	Yes	FAC		
4.					Total Number of Dominant	
4.					Species Across All Strata:	<u> </u>
			= Total Cover			
Sapling/Shrub S		<u>r=2m)</u>			Percent of Dominant Species	200/
<ol> <li>Rubus ursinu</li> <li>Rubus armei</li> </ol>	us	15%	Yes	FACU	That Are OBL, FACW, or FAC	
2		10%	Yes	FAC	Prevalence Index worksheet	
<u>/////////////////////////////////////</u>	bhyllum	2%	No	FACU	Total % Cover of:	Multiply by:
4.					· · · · · · · · · · · · · · · · · · ·	x 1 =
5.					· · ·	x 2 =
			= Total Cover		FAC species	x 3 =
Herb Stratum	(Plot size: <u>r=</u>				FACU species	x 4 =
1. <u>Agrostis stol</u>	onifera		Yes	FAC	UPL species	x 5 =
2					Column Totals:	(A) (B)
3.					Prevalence Index	
4.					Hydrophytic Vegetation Indi	
5.					1 - Rapid Test for Hydrop	
6.					X 2 - Dominance Test is >5	i0%
7.					3 - Prevalence Index is ≤	3.0 <sup>1</sup>
8.					4 - Morphological Adapta	tions <sup>1</sup> (Provide supporting
9.			·		data in Remarks or or	n a separate sheet)
10.					5 - Wetland Non-Vascula	r Plants <sup>1</sup>
11.					Problematic Hydrophytic	Vegetation (Explain) <sup>1</sup>
			= Total Cover		<sup>1</sup> Indicators of hydric soil and w	etland hydrology must
Woody Vine Stra	atum (Plot size: r=	<u>=2m)</u>			be present.	
1. <u>none</u> 2.					Hydrophytic	
<u> </u>		0%	= Total Cover		Vegetation Yes	X No
% Bare Ground	in Herb Stratum	0%			Present?	
Remarks:						

SOIL							Sampling Point:	SP-12
	tion (Describe to the	depth needed	to document the inc	dicator or conf	irm the absence	of indicators):		
Depth	Matri				Features			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-4	10YR 4/2	100					GrL	with angular rocks
							-	5
	ntration D-Donlation		Actrix CC=Covered	ar Cootod Sand		tion: PL=Pore Lining,	Mandatrix	
	ntration, D=Depletion,							
					– line, vi – very li		lay); - = light (less clay) blematic Hydric Soils <sup>3</sup> :	
-	cators (Applicable to	all LRRS, unle						
Histosol (A1		—	Sandy Redox (S5	·		2 cm Muck (A		
Histic Epipe		—	Stripped Matrix (S			Red Parent Ma		
Black Histic		_	Loamy Mucky Mir		ot MLRA 1)		Dark Surface (TF12)	
Hydrogen Si			Loamy Gleyed Ma			Other (Explain	in Remarks)	
	low Dark Surface (A11	l)	Depleted Matrix (I	-				
	Surface (A12)	_	Redox Dark Surfa				phytic vegetation and wetlan	d
	y Mineral (S1)	-	Depleted Dark Su				present, unless disturbed or	
Sandy Gleye	ed Matrix (S4)		Redox Depressio	ns (F8)		problematic.		
Restrictive Laye	er (if present):						·	
Ту	pe:					Hydric Soil		
Depth (inches):		_				Present?	Yes	No <u>X</u>
Wetland Hydrol							(2)	
-	<u>s (minimum of one rec</u>	quired; check all				-	<u>rs (2 or more required)</u>	
Surface Wat	( )	-	Water-Stained Le		ept MLRA		Leaves (B9) (MLRA 1, 2,	
High Water			1, 2, 4A, and 4	В)		4A, and 4B)		
Saturation (A	,	_	Salt Crust (B11)	(540)		Drainage Patte		
Water Marks		-	Aquatic Invertebra				/ater Table (C2)	
Sediment De			Hydrogen Sulfide				ble on Aerial Imagery (C9)	
Drift Deposit		-	Oxidized Rhizosp	-	ng Roots (C3)	Geomorphic P		
Algal Mat or		-	Presence of Redu	. ,		Shallow Aquita		
Iron Deposit		_	Recent Iron Redu			FAC-Neutral T		
Surface Soil			Stunted or Stress		LKK A)		ounds (D6) (LRR A) łummocks (D7)	
	isible on Aerial Image		Other (Explain in	Remarks)			Iuminocks (D7)	
	getated Concave Surfa					1		
Field Observation								
Surface Water F			No <u>X</u>	Depth (inches		Wetland		
Water Table Pre			No <u>X</u>	Depth (inches		Hydrology	Yes	No <u>X</u>
Saturation Prese (includes capillat		۱ ــــــــــــــــــــــــــــــــــــ	No <u>X</u>	Depth (inches	):	Present?		
	y mige)							
Describe Recor	ded Data (stream ga	uge, monitorin	g well, aerial photo	s, previous ins	pections), if ava	ilable:		
Remarks:		•						

Project/Site:	Federal Way City Center Access		City/County:	Federal Way/K	ing	Sampling Date: 8/18/2020	0 & 11/11/2020
Applicant/Owner:	City of Federal Way				State: Washington	Sampling Point:	W9-SP-13
Investigator(s):	Per Johnson, Aaron Thom			s	Section, Township, Range:	T21N R04E S16	
Landform (hillslop	e, terrace, etc.):	sloped depre	ession	Local rel	ief (concave, convex, none): cc	oncave Slope (%	%): <3%
Subregion (LRR)	Northwest Forests and Coast	(LRR A)	Lat: 47.314583	Lon	g: -122.296806	Datum: NAD 1	
Soil Unit (Name-I	D-Hydric Rating): A	rents, Alderwood m	naterial -	- AmC -	Not Hydric NWI cla	ssification: No	
Are climatic / hyd	rologic conditions on the site typic	al for this time of ye	ear?	Ye	s X No	(If no, explain in Remarks	s)
Are Vegetation	, Soil	, or Hydrology	significantly dis	sturbed? Are	e "Normal Circumstances" preser	nt? Yes 🔉	KNo
Are Vegetation	, Soil				needed, explain any answers in F	≀emarks.)	
SUMMARY C	OF FINDINGS – Attach sit	e map showin	ig sampling poi	nt locations,	transects, important fea	tures, etc.	
Hydrophytic Veg	etation Present?	Yes X	No				
Hydric Soil Prese	ent?	Yes X	No	Is the Sample	ed Area		
Wetland Hydrolo	gy Present?	Yes X	No	within a Wetla	and? Yes <u>X</u>	No	
Precipitation:							
According to the	Seattle Tacoma Airport NOAA we	ather station, precip	pitation was within the	e normal range for	the three months prior to the 8/1	8/2020 and 11/11/2020 sit	e visits.
Remarks:							
	located within the looping northbo	und I-5 on-ramp, s	outh of S 320th Stree	t. This SP was of	bserved on both 8/18/2020 and 1	1/11/2020.	
VEGETATIO	N						
		Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum	(Plot size: r=3m)	% Cover	Species?	Status	Number of Dominant Species		
1	(1 lot 0/20. <u>1 0/11/</u>	<u> // 00/01</u>		Oldido		· 1	(A)
1. <u>none</u> 2.					That Are OBL, FACW, or FAC	·: <u> </u>	_(A)
3				. <u> </u>			
4.					Total Number of Dominant		
 					Species Across All Strata:	1	(B)
		0%	= Total Cover				
Sapling/Shrub S	<u>stratum</u> (Plot size: <u>r=2m)</u>				Percent of Dominant Species	400%	
1. <u>none</u> 2.					That Are OBL, FACW, or FAC		(A/B)
					Prevalence Index worksheet		
3.						Multiply by:	
4.					· · · · · · · · · · · · · · · · · · ·	x 1 =	
5.					FACW species	x 2 =	
		0%	= Total Cover		FAC species	x 3 =	
Herb Stratum	(Plot size: <u>r=1m)</u>				FACU species	x 4 =	
1. Phalaris aru	ndinacea	100%	Yes	FACW	UPL species	x 5 =	
2.					Column Totals:	(A)	(B)
3.					Prevalence Index	= B/A =	
4.		_		<u> </u>	Hydrophytic Vegetation Indi	cators:	
5.					1 - Rapid Test for Hydrop	hytic Vegetation	
6.					X 2 - Dominance Test is >5	0%	
7.					3 - Prevalence Index is ≤	3.0 <sup>1</sup>	
8.					4 - Morphological Adaptat	tions <sup>1</sup> (Provide supporting	
9.					data in Remarks or on		
10.					5 - Wetland Non-Vascula	r Plants <sup>1</sup>	
11.		_			Problematic Hydrophytic		
		100%	= Total Cover		<sup>1</sup> Indicators of hydric soil and w		
Woody Vine Stra	atum (Plot size: <u>r=2m)</u>				be present.	, ,	
1							
2.					Hydrophytic		
		0%	= Total Cover		Vegetation Yes	<u> </u>	
% Bare Ground	in Herb Stratum 0%				Present?		
Remarks:					1		
	ns did not change between the 8/	18/2020 and 11/11/	2020 field visit.				
D	<b>-</b>						
raran	netrix						

SOIL						<b></b>		
Profile Descript	tion (Describe to the	depth needed	I to document the ind	licator or cor	firm the absence	of indicators):		
Depth	Matrix	(		Redo	x Features			
(inches)	Color (moist)	%	Color (moist)	%	Туре	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-4.5	10YR 4/1	100	<u> </u>		·			
4.5-16+	10Y 5/0	80	10YR 4/6	20	C	M		
			<u> </u>		·			
			<u> </u>		·			
			<u> </u>		·			
			<u> </u>		·			
			<u> </u>		. <u> </u>			
<sup>1</sup> Type: C=Conce	ntration, D=Depletion,	RM=Reduced	Matrix, CS=Covered of	or Coated San	d Grains. <sup>2</sup> Locat	tion: PL=Pore Lining	, M=Matrix.	
<sup>3</sup> Texture: Sa = sa	and; Si = silt; C = clay;	L = loam or loa	amy. Texture Modifier:	co = coarse;	f = fine; vf = very fir	ne; + = heavy (more	clay); - = light (less clay)	
Hydric Soil India	cators (Applicable to	all LRRs, unl	ess otherwise noted)	:		Indicators for Pr	oblematic Hydric Soils <sup>3</sup> :	
Histosol (A1)	)		Sandy Redox (S5)	)		2 cm Muck (	A10)	
Histic Epiped		-	Stripped Matrix (S	6)			Material (TF2)	
Black Histic		-	Loamy Mucky Min		ept MLRA 1)		Dark Surface (TF12)	
Hydrogen Su		-	X Loamy Gleyed Ma		, ,		in in Remarks)	
	low Dark Surface (A11	-	X Depleted Matrix (F				,	
 Thick Dark S		-	' Redox Dark Surfa	-		2		
	y Mineral (S1)	-	Depleted Dark Su				ophytic vegetation and wetlan present, unless disturbed or	d
	d Matrix (S4)	-	Redox Depressior			problematic.	e present, unless disturbed of	
	. ,	-	·	( )				
Restrictive Laye						Liudria Cail		
Ту	Je.					Hydric Soil		
Denth (Sectors)						Dura 10	Mar M	NL -
	bserved on 11/11/2020	).				Present?	Yes X	No
Remarks:		).				Present?	Yes X	No
Remarks: Soils were only ol HYDROLOG	bserved on 11/11/2020	).				Present?	Yes X	No
Remarks: Soils were only of HYDROLOG <sup>*</sup> Wetland Hydrold	bserved on 11/11/2020 Y ogy Indicators:							No
Remarks: Soils were only of HYDROLOG <sup>*</sup> Wetland Hydrolo Primary Indicator	bserved on 11/11/2020 Y ogy Indicators: s (minimum of one req		ll that apply)				Yes X	No
Remarks: Soils were only of HYDROLOG <sup>*</sup> Wetland Hydrold	bserved on 11/11/2020 Y ogy Indicators: s (minimum of one req		ll that apply) Water-Stained Lea	aves (B9) (exc	cept MLRA	Secondary Indicat		No
Remarks: Soils were only of HYDROLOG <sup>*</sup> Wetland Hydrolo Primary Indicator	bserved on 11/11/2020 Y ogy Indicators: s (minimum of one req er (A1)				cept MLRA	Secondary Indicat	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2,	No
Remarks: Soils were only of HYDROLOG <sup>*</sup> Wetland Hydrold Primary Indicator Surface Wat X High Water	bserved on 11/11/2020 Y bogy Indicators: s (minimum of one req er (A1) Γable (A2) \3)		Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11)	3)	cept MLRA	Secondary Indicat Water-Staine 4A, and 4t X Drainage Pat	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, 3) tterns (B10)	No
Remarks: Soils were only of HYDROLOG <sup>*</sup> Wetland Hydrold Primary Indicator Surface Wat X High Water	bserved on 11/11/2020 Y bogy Indicators: s (minimum of one req er (A1) Γable (A2) \3)		Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra	3) ates (B13)	cept MLRA	Secondary Indicat Water-Staine 4A, and 4t X Drainage Pat	t <u>ors (2 or more required)</u> ed Leaves (B9) (MLRA 1, 2, 3)	No
Remarks: Soils were only of HYDROLOG <sup>*</sup> Wetland Hydrold Primary Indicator Surface Wat X High Water	bserved on 11/11/2020 Y pgy Indicators: s (minimum of one req er (A1) Γable (A2) \3) s (B1)		Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11)	3) ates (B13)	cept MLRA	Secondary Indicat Water-Staine 4A, and 4t X Drainage Pai Dry-Season	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, 3) tterns (B10)	No
Remarks: Soils were only of HYDROLOG <sup>*</sup> Wetland Hydrold Primary Indicator Surface Wat X High Water X Saturation (A Water Marks Sediment De Drift Deposit	y y y y y y y y y y y y y y		Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph	3) ates (B13) Odor (C1) heres along Li	ving Roots (C3)	Secondary Indicat Water-Staine 4A, and 4t X Drainage Pai Dry-Season	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, 3) tterns (B10) Water Table (C2) sible on Aerial Imagery (C9)	No
Remarks: Soils were only of HYDROLOG Wetland Hydrold Primary Indicator Surface Wat X High Water X Saturation (A Water Marks Sediment De	y y y y y y y y y y y y y y		Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide	3) ates (B13) Odor (C1) heres along Li	ving Roots (C3)	Secondary Indicat Water-Staine 4A, and 4t X Drainage Pai Dry-Season Saturation Vi	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, 3) tterns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2)	No
Remarks: Soils were only of HYDROLOG Wetland Hydrold Primary Indicator Surface Wat X High Water X Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit	bserved on 11/11/2020 Y pgy Indicators: s (minimum of one reg er (A1) Γable (A2) \3) s (B1) eposits (B2) s (B3) Crust (B4) s (B5)		Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph	ates (B13) Odor (C1) heres along Li iced Iron (C4)	ving Roots (C3)	Secondary Indicat Water-Staine 4A, and 4t X Drainage Par Dry-Season Saturation Vi X Geomorphic	terns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3)	No
Remarks: Soils were only of HYDROLOG Wetland Hydrold Primary Indicator Surface Wat X High Water X Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposits Surface Soil	Y pogy Indicators: <u>s (minimum of one req</u> er (A1) Table (A2) v3) s (B1) eposits (B2) s (B3) Crust (B4) s (B5) Cracks (B6)	uired; check a	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu	3) Odor (C1) heres along Li iced Iron (C4) ction in Tilled 3	ving Roots (C3) Soils (C6)	Secondary Indicat Water-Staine 4A, and 4t X Drainage Par Dry-Season Vi Saturation Vi X Geomorphic Shallow Aqui FAC-Neutral	terns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3)	No
Remarks: Soils were only of HYDROLOG Wetland Hydrold Primary Indicator Surface Wat X High Water X Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposits Surface Soil	bserved on 11/11/2020 Y pgy Indicators: s (minimum of one reg er (A1) Γable (A2) \3) s (B1) eposits (B2) s (B3) Crust (B4) s (B5)	uired; check a	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduc	a) ates (B13) Odor (C1) neres along Li aced Iron (C4) action in Tilled S action in Tilled S action (D1)	ving Roots (C3) Soils (C6)	Secondary Indicat Water-Staine 4A, and 4t X Drainage Par Dry-Season Vi Saturation Vi X Geomorphic Shallow Aqui FAC-Neutral Raised Ant M	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, 3) tterns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5)	No
Remarks:         Soils were only of         HYDROLOGY         Wetland Hydrold         Primary Indicator         Surface Wat         X         High Water T         X         Saturation (A         Water Marks         Sediment De         Drift Deposit         Algal Mat or         Iron Deposits         Surface Soil         Inundation V	y y bserved on 11/11/2020 y by Indicators: s (minimum of one req er (A1) Γable (A2) (A3) s (B1) posits (B2) s (B3) Crust (B4) s (B5) Cracks (B6)	uired; check a	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse	a) ates (B13) Odor (C1) neres along Li aced Iron (C4) action in Tilled S action in Tilled S action (D1)	ving Roots (C3) Soils (C6)	Secondary Indicat Water-Staine 4A, and 4t X Drainage Par Dry-Season Vi Saturation Vi X Geomorphic Shallow Aqui FAC-Neutral Raised Ant M	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, 3) tterns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) founds (D6) (LRR A)	No
Remarks:         Soils were only of         HYDROLOGY         Wetland Hydrold         Primary Indicator         Surface Wat         X         High Water T         X         Saturation (A         Water Marks         Sediment De         Drift Deposit         Algal Mat or         Iron Deposits         Surface Soil         Inundation V	Y pogy Indicators: s (minimum of one req er (A1) Table (A2) A3) s (B1) eposits (B2) s (B3) Crust (B4) s (B5) Cracks (B6) isible on Aerial Imager getated Concave Surfa	uired; check a	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse	a) ates (B13) Odor (C1) neres along Li aced Iron (C4) action in Tilled S action in Tilled S action (D1)	ving Roots (C3) Soils (C6)	Secondary Indicat Water-Staine 4A, and 4t X Drainage Par Dry-Season Vi Saturation Vi X Geomorphic Shallow Aqui FAC-Neutral Raised Ant M	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, 3) tterns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) founds (D6) (LRR A)	No
Remarks: Soils were only of HYDROLOG Wetland Hydrold Primary Indicator Surface Wat X High Water X Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposits Surface Soil Inundation V Sparsely Veg	Y pgy Indicators: s (minimum of one req er (A1) Table (A2) A3) s (B1) eposits (B2) s (B3) Crust (B4) s (B5) Cracks (B6) isible on Aerial Imager getated Concave Surfa	<u>uired; check a</u> - - - - - - - - - - - - - - - - - - -	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse	a) ates (B13) Odor (C1) neres along Li aced Iron (C4) action in Tilled S action in Tilled S action (D1)	ving Roots (C3) Soils (C6) ) (LRR A)	Secondary Indicat Water-Staine 4A, and 4t X Drainage Par Dry-Season Vi Saturation Vi X Geomorphic Shallow Aqui FAC-Neutral Raised Ant M	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, 3) tterns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) founds (D6) (LRR A)	No
Remarks: Soils were only of HYDROLOG Wetland Hydrold Primary Indicator Surface Wat X High Water X Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposits Surface Soil Inundation V Sparsely Veg	Y pgy Indicators: s (minimum of one req er (A1) Table (A2) (A3) s (B1) posits (B2) s (B3) Crust (B4) s (B5) Cracks (B6) isible on Aerial Imager getated Concave Surfa ons: resent? Yes	<u>uired; check a</u> - - - - - - - - - - - - - - - - - - -	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse Other (Explain in F	ates (B13) Odor (C1) neres along Li iced Iron (C4) ction in Tilled ed Plants (D1) Remarks)	ving Roots (C3) Soils (C6) ) (LRR A) es): <u>N/A</u>	Secondary Indicat Water-Staine 4A, and 4F X Drainage Pai Dry-Season Saturation Vi X Geomorphic Shallow Aqui FAC-Neutral Raised Ant M Frost-Heave	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, 3) tterns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) founds (D6) (LRR A)	No
Remarks: Soils were only of HYDROLOG Wetland Hydrold Primary Indicator Surface Wat X High Water T X Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposits Surface Soil Inundation V Sparsely Veg Field Observatio Surface Water P Water Table Pre Saturation Prese	y pgy Indicators: <u>s (minimum of one req</u> er (A1) Table (A2) v3) s (B1) posits (B2) s (B3) Crust (B4) s (B5) Cracks (B6) isible on Aerial Imager getated Concave Surfa ons: resent? Yes sent? Yes	<u>uired; check a</u> - - y (B7) 	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse Other (Explain in F	3) Attes (B13) Odor (C1) heres along Li aced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) Depth (inche	ving Roots (C3) Soils (C6) ) (LRR A) es): <u>N/A</u> es): <u>8.5</u>	Secondary Indicat Water-Staine 4A, and 4f X Drainage Par Dry-Season V Saturation Vi X Geomorphic Shallow Aqui FAC-Neutral Raised Ant M Frost-Heave Wetland	Cors (2 or more required) ed Leaves (B9) (MLRA 1, 2, 3) tterns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) founds (D6) (LRR A) Hummocks (D7)	
Remarks: Soils were only of Metland Hydrolo Primary Indicator Surface Wate X High Water X Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposits Surface Soil Inundation V Sparsely Veg Field Observatio Surface Water P Water Table Pre Saturation Prese (includes capillar	Y         ogy Indicators:         s (minimum of one requests)         er (A1)         Table (A2)         \3)         s (B1)         eposits (B2)         s (B3)         Crust (B4)         s (B5)         Cracks (B6)         isible on Aerial Imager         getated Concave Surfactors:         resent?       Yes         sent?       Yes         y fringe)	<u>uired; check a</u>	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse Other (Explain in F	a) ates (B13) Odor (C1) neres along Li ced Iron (C4) ction in Tilled 3 ed Plants (D1) Remarks) Depth (inche Depth (inche	ving Roots (C3) Soils (C6) ) (LRR A) es): <u>N/A</u> es): <u>8.5</u> es): <u>0</u>	Secondary Indicat Water-Staine 4A, and 4f X Drainage Pai Dry-Season Saturation Vi X Geomorphic Shallow Aqui FAC-Neutral Raised Ant N Frost-Heave Wetland Hydrology Present?	Cors (2 or more required) ed Leaves (B9) (MLRA 1, 2, 3) tterns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) founds (D6) (LRR A) Hummocks (D7)	
Remarks: Soils were only of Metland Hydrolo Primary Indicator Surface Wate X High Water X Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposits Surface Soil Inundation V Sparsely Veg Field Observatio Surface Water P Water Table Pre Saturation Prese (includes capillar	y pgy Indicators: <u>s (minimum of one req</u> er (A1) Table (A2) v3) s (B1) posits (B2) s (B3) Crust (B4) s (B5) Cracks (B6) isible on Aerial Imager getated Concave Surfa ons: resent? Yes sent? Yes	<u>uired; check a</u>	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse Other (Explain in F	a) ates (B13) Odor (C1) neres along Li ced Iron (C4) ction in Tilled 3 ed Plants (D1) Remarks) Depth (inche Depth (inche	ving Roots (C3) Soils (C6) ) (LRR A) es): <u>N/A</u> es): <u>8.5</u> es): <u>0</u>	Secondary Indicat Water-Staine 4A, and 4f X Drainage Pai Dry-Season Saturation Vi X Geomorphic Shallow Aqui FAC-Neutral Raised Ant N Frost-Heave Wetland Hydrology Present?	Cors (2 or more required) ed Leaves (B9) (MLRA 1, 2, 3) tterns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) founds (D6) (LRR A) Hummocks (D7)	
Remarks:         Soils were only of         HYDROLOGY         Wetland Hydrold         Primary Indicator         Surface Wat         X         High Water Table Pre         Drift Deposits         Algal Mat or         Iron Deposits         Surface Soil         Inundation V         Sparsely Vec         Field Observation         Surface Water P         Water Table Pre         Saturation Prese         (includes capillar         Describe Recor         Remarks:	Y pgy Indicators: <u>s (minimum of one req</u> er (A1) Table (A2) (A3) (B1) posits (B2) s (B3) Crust (B4) s (B5) Cracks (B6) isible on Aerial Imager getated Concave Surfators: Iresent? Yes sent? Yes sent? Yes int? Yes int? Yes	uired; check a	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse Other (Explain in F No X No No No	a) ates (B13) Odor (C1) heres along Li ced Iron (C4) ction in Tilled 3 ed Plants (D1) Remarks) Depth (inche Depth (inche Depth (inche S, previous in	ving Roots (C3) Soils (C6) ) (LRR A) es): <u>N/A</u> es): <u>8.5</u> es): <u>0</u>	Secondary Indicat Water-Staine 4A, and 4f X Drainage Pai Dry-Season V Saturation Vi X Geomorphic Shallow Aqui FAC-Neutral Raised Ant M Frost-Heave Wetland Hydrology Present?	Cors (2 or more required) ed Leaves (B9) (MLRA 1, 2, 3) tterns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) founds (D6) (LRR A) Hummocks (D7) Yes X	
Remarks:         Soils were only of         HYDROLOGY         Wetland Hydrold         Primary Indicator         Surface Wat         X         High Water T         X         Saturation (A         Water Marks         Sediment De         Drift Deposits         Algal Mat or         Iron Deposits         Surface Soil         Inundation V         Sparsely Vec         Field Observation         Surface Water P         Water Table Pre         Saturation Prese         (includes capillar         Describe Recor         Remarks:         During the 8/18/2	Y         ogy Indicators:         s (minimum of one requests)         er (A1)         Table (A2)         \3)         s (B1)         oposits (B2)         s (B3)         Crust (B4)         s (B5)         Cracks (B6)         isible on Aerial Imager         getated Concave Surfactors:         vresent?       Yes         sent?       Yes         sent?       Yes         ons:       Yes         virt?       Yes         ont?       Yes         ofded Data (stream gat       020 field visit, surface	uired; check a	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse Other (Explain in F No X No No x no s (e.g., rills) were obse	a) ates (B13) Odor (C1) heres along Li ced Iron (C4) ction in Tilled 3 ed Plants (D1) Remarks) Depth (inche Depth (inche Depth (inche S, previous in rved upslope	ving Roots (C3) Soils (C6) ) (LRR A) es): <u>N/A</u> es): <u>8.5</u> es): <u>0</u> nspections), if avait with drainage mark	Secondary Indicat Water-Staine 4A, and 4F X Drainage Pai Dry-Season V Saturation Vi X Geomorphic Shallow Aqui FAC-Neutral Raised Ant M Frost-Heave Wetland Hydrology Present?	ors (2 or more required) ed Leaves (B9) (MLRA 1, 2, 3) tterns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) founds (D6) (LRR A) Hummocks (D7) Yes X W9 providing two secondary	No
Remarks: Soils were only of HYDROLOG Wetland Hydrolo Primary Indicator Surface Wat X High Water T X Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposits Surface Soil Inundation V Sparsely Veg Field Observatio Surface Water P Water Table Pre Saturation Prese (includes capillar Describe Recor Remarks: During the 8/18/2 hydrology (draina	Y         ogy Indicators:         s (minimum of one requests)         er (A1)         Table (A2)         \3)         s (B1)         oposits (B2)         s (B3)         Crust (B4)         s (B5)         Cracks (B6)         isible on Aerial Imager         opsits         y fringe)         ded Data (stream gat         020 field visit, surface         ge patterns [B10] and	uired; check a	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse Other (Explain in F No X No No No Startal photos	a) ates (B13) Odor (C1) heres along Li ced Iron (C4) ction in Tilled 3 ed Plants (D1) Remarks) Depth (inche Depth (inche Depth (inche S, previous in rved upslope e 11/11/2020	ving Roots (C3) Soils (C6) ) (LRR A) es): <u>N/A</u> es): <u>8.5</u> es): <u>0</u> <b>Ispections), if avai</b> with drainage mark field visit, surface d	Secondary Indicat Water-Staine 4A, and 4F X Drainage Pai Dry-Season 1 Saturation Vi X Geomorphic Shallow Aqui FAC-Neutral Raised Ant N Frost-Heave Wetland Hydrology Present?	Cors (2 or more required) ed Leaves (B9) (MLRA 1, 2, 3) tterns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) founds (D6) (LRR A) Hummocks (D7) Yes X	No

## **Parametrix** ENGINEERING . PLANNING . ENVIRONMENTAL SCIENCES

Project/Site: Fed	leral Way City Center Access		City/County:	Federal Way	/King	Sampling Date: 8/18/2020 & 11/11/2020
Applicant/Owner:	City of Federal Way				State: Washington	Sampling Point: W9-SP-14
Investigator(s):	Per Johnson, Aaron Thom				Section, Township, Range:	T21N R04E S16
Landform (hillslope, te	errace, etc.):	hillslope		Local r	relief (concave, convex, none):	none Slope (%): <3%
Subregion (LRR):	Northwest Forests and Coast (I	LRR A) I	_at: 47.314621	Lo	ong: -122.296700	Datum: NAD 1983 (HARN)
Soil Unit (Name-ID-H	Hydric Rating): Are	ents, Alderwood mat	erial	- AmC	- Not Hydric NWI cla	ssification: None
Are climatic / hydrolc	ogic conditions on the site typica	l for this time of yea	?	י	Yes X No	(If no, explain in Remarks)
Are Vegetation	, Soil	, or Hydrology	significantly dis	sturbed?	Are "Normal Circumstances" preser	nt? Yes <u>X</u> No
Are Vegetation	, Soil	, or Hydrology	naturally proble	ematic? (	(If needed, explain any answers in F	≀emarks.)
SUMMARY OF	FINDINGS – Attach site	e map showing	sampling poi	nt locations	s, transects, important fea	tures, etc.
Hydrophytic Vegetat	tion Present?	Yes X	No			
Hydric Soil Present?	?	Yes X	No	Is the Samp		
Wetland Hydrology	Present?	Yes X	No	within a We	etland? Yes	No <u>X</u>
Precipitation:						
According to the Sea	attle Tacoma Airport NOAA wea	ther station, precipita	ation was within the	e normal range f	for the three months prior to the 8/1	8/2020 and 11/11/2020 site visits.
Remarks:						
	W9 located just north and upslo	pe of W9 within I-5	footprint. This sam	ple plot was ob	served on both 8/18/2020 and 11/1	1/2020.
VEGETATION						
		Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum	(Plot size: r=3m)	% Cover	Species?	Status	Number of Dominant Species	
<sup>1.</sup> none		<u>// 00/01</u>		olulus	That Are OBL, FACW, or FAC	: 2 (A)
2.					That Ale OBL, PACW, OF PAC	·(A)
3.					Total Number of Dominant	
4.					Species Across All Strata:	
		0% =	Total Cover	_	Species Across All Strata.	<u>     2    (B)</u>
Sapling/Shrub Stra	<b>tum</b> (Plot size: r=2m)		Total Cover		Percent of Dominant Species	
1	tum (Plot size: <u>r=2m)</u>					· 100% (A/B)
<sup>1.</sup> <u>none</u> 2.					That Are OBL, FACW, or FAC	
3.					Prevalence Index worksheet Total % Cover of:	Multiply by:
4.						x 1 =
4. 		-			FACW species	
J.					FAC species	x 2 =
Harb Stratum		=	Total Cover		FACU species	x 4 =
Herb Stratum	(Plot size: <u>r=1m)</u>					·
1. <u>Holcus lanatus</u>		60%	Yes	FAC	UPL species Column Totals:	x 5 =(D)
2. <u>Agrostis stolonif</u>		40%	Yes	FAC	Prevalence Index	(A) (B)
<ol> <li>Hypochaeris rac</li> <li>Plantago lanceo</li> </ol>		5%	No	FACU	Hydrophytic Vegetation Indi	
	olata	2%	No	FACU		
5.					1 - Rapid Test for Hydrop	
6 7		]			X 2 - Dominance Test is >5	
					3 - Prevalence Index is ≤	
8.						tions <sup>1</sup> (Provide supporting
9.		-			data in Remarks or or	
10.		-			5 - Wetland Non-Vascula	
11.		-			Problematic Hydrophytic	
Woody Vino Straty	<u>m</u> (Plot size: <u>r=2m)</u>	<u>    107%    </u> =	Total Cover		<sup>1</sup> Indicators of hydric soil and w	etland hydrology must
Woody Vine Stratur 1. none	<u>III.</u> (1 101 5126. <u>1-2111)</u>				be present.	
2.					Hydrophytic	
		0% =	Total Cover		Vegetation Yes	X No
% Bare Ground in H	Herb Stratum				Present?	
Remarks:						
	s did not change between the 8/	/18/2020 and 11/11/2	2020 field visits.			
-	-					
Param	OTTIV					

Parametrix ENGINEERING . PLANNING . ENVIRONMENTAL SCIENCES Project No.: 554-2441-022

US Army Corps of Engineers Western Mountains, Valleys, and Coast Region (Version 2.0)

rofile Description (Describe to th Depth Mat	e depin needed it		11 4 <b></b>	4 le	£ 1		
Depth Mat		o document the ind			of indicators):		
· · · · · · · · · · · · · · · · · · ·			Redox Feat		<u></u>	2	
(inches) Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-4 10YR 3/2	100						
4-8 10YR 4/2	95	10YR 4/6	5	С	M	GrL	
8-16+ 10YR 5/1	85	10YR 4/6	15	С	M	GrL	
ype: C=Concentration, D=Depletion	n, RM=Reduced M	atrix, CS=Covered o	or Coated Sand Gra	ins. <sup>2</sup> Locati	on: PL=Pore Lining	, M=Matrix.	
exture: Sa = sand; Si = silt; C = clay				e; vf = very fin			
ydric Soil Indicators (Applicable t	to all LRRs, unles	s otherwise noted)	):		Indicators for Pro	oblematic Hydric Soils <sup>3</sup> :	
Histosol (A1)		_Sandy Redox (S5)	)		2 cm Muck (#	A10)	
Histic Epipedon (A2)	_	Stripped Matrix (S	6)		Red Parent N	laterial (TF2)	
Black Histic (A3)	_	Loamy Mucky Mine	eral (F1) (except M	LRA 1)	Very Shallow	Dark Surface (TF12)	
Hydrogen Sulfide (A4)	_	Loamy Gleyed Ma	trix (F2)		Other (Explai	n in Remarks)	
C Depleted Below Dark Surface (A	11) <u>X</u>	Depleted Matrix (F	-3)				
Thick Dark Surface (A12)	_	Redox Dark Surfac	ce (F6)		<sup>3</sup> Indicators of hudr	ophytic vegetation and wetla	nd
Sandy Mucky Mineral (S1)	_	Depleted Dark Sur	rface (F7)			present, unless disturbed or	
Sandy Gleyed Matrix (S4)	_	Redox Depression	ns (F8)		problematic.		
estrictive Layer (if present):							
Туре:					Hydric Soil		
Depth (inches):					Present?	Yes X	No
emarks: oils were observed on 11/11/2020.							
oils were observed on 11/11/2020.							
oils were observed on 11/11/2020.							
	equired; check all t	hat apply)			Secondary Indicat	ors (2 or more required)	
oils were observed on 11/11/2020. IYDROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one re	<u>equired; check all t</u>		aves (B9) (except M	ILRA		· · · ·	
oils were observed on 11/11/2020. IYDROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one reSurface Water (A1)	<u>equired; check all t</u>	Water-Stained Lea	aves (B9) (except M	ILRA	Water-Staine	d Leaves (B9) (MLRA 1, 2,	
oils were observed on 11/11/2020. IYDROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one re Surface Water (A1) High Water Table (A2)	equired; check all t	_Water-Stained Lea 1, 2, 4A, and 4E		ILRA	Water-Staine 4A, and 4E	d Leaves (B9) (MLRA 1, 2, 3)	
oils were observed on 11/11/2020.         IYDROLOGY         Vetland Hydrology Indicators:         rimary Indicators (minimum of one regeneration (A1)         High Water Table (A2)         Saturation (A3)	equired; check all t	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11)	3)	ILRA	Water-Staine 4A, and 4E Drainage Pat	d Leaves (B9) (MLRA 1, 2, 3) terns (B10)	
Vetland Hydrology Indicators: Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	equired; check all t	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra	3) ates (B13)	ILRA	Water-Staine 4A, and 4E Drainage Pat	d Leaves (B9) (MLRA 1, 2, 3) terns (B10) Vater Table (C2)	
oils were observed on 11/11/2020.         IYDROLOGY         /etland Hydrology Indicators:         rimary Indicators (minimum of one regeneric)         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)	equired; check all t	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide (	3) ates (B13) Odor (C1)		Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vis	d Leaves (B9) (MLRA 1, 2, 3) terns (B10) Vater Table (C2) sible on Aerial Imagery (C9)	
IYDROLOGY         Vetland Hydrology Indicators:         rimary Indicators (minimum of one regeneric surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)	equired; check all t	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide ( Oxidized Rhizosph	3) ates (B13) Odor (C1) neres along Living F		Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vis Geomorphic	d Leaves (B9) (MLRA 1, 2, 3) terns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2)	
IYDROLOGY         Vetland Hydrology Indicators:         rimary Indicators (minimum of one regeneric surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)	equired; check all t	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide ( Oxidized Rhizosph Presence of Redu	3) ates (B13) Odor (C1) neres along Living F aced Iron (C4)	Roots (C3)	Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vis Geomorphic Shallow Aquit	d Leaves (B9) (MLRA 1, 2, 3) terns (B10) Vater Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3)	
VERIANCE (B2) Verland Hydrology Indicators: rimary Indicators (minimum of one re 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)	equired; check all t	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc Recent Iron Reduc	3) ates (B13) Odor (C1) heres along Living R aced Iron (C4) ction in Tilled Soils (	Roots (C3) (C6)	Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vis Geomorphic Shallow Aquit FAC-Neutral	d Leaves (B9) (MLRA 1, 2, 3) terns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5)	
IYDROLOGY         Vetland Hydrology Indicators:         rimary Indicators (minimum of one regeneric surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)		Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Stunted or Stresse	3) ates (B13) Odor (C1) heres along Living R aced Iron (C4) ction in Tilled Soils ( ed Plants (D1) (LRR	Roots (C3) (C6)	Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vis Geomorphic Shallow Aquit FAC-Neutral Raised Ant M	d Leaves (B9) (MLRA 1, 2, 3) terns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) lounds (D6) (LRR A)	
IYDROLOGY         /etland Hydrology Indicators:         rimary Indicators (minimum of one regeneric 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 Imag	lery (B7)	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc Recent Iron Reduc	3) ates (B13) Odor (C1) heres along Living R aced Iron (C4) ction in Tilled Soils ( ed Plants (D1) (LRR	Roots (C3) (C6)	Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vis Geomorphic Shallow Aquit FAC-Neutral Raised Ant M	d Leaves (B9) (MLRA 1, 2, 3) terns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5)	
IYDROLOGY         /etland Hydrology Indicators:         rimary Indicators (minimum of one regeneric 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 Imag         Sparsely Vegetated Concave Surface	lery (B7)	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Stunted or Stresse	3) ates (B13) Odor (C1) heres along Living R aced Iron (C4) ction in Tilled Soils ( ed Plants (D1) (LRR	Roots (C3) (C6)	Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vis Geomorphic Shallow Aquit FAC-Neutral Raised Ant M	d Leaves (B9) (MLRA 1, 2, 3) terns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) lounds (D6) (LRR A)	
IYDROLOGY         /etland Hydrology Indicators:         rimary Indicators (minimum of one regeneric 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 Imag         Sparsely Vegetated Concave Surfield Observations:	lery (B7) rface (B8)	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Stunted or Stresse Other (Explain in F	3) ates (B13) Odor (C1) neres along Living R aced Iron (C4) ction in Tilled Soils ( ed Plants (D1) (LRR Remarks)	Roots (C3) (C6) R A)	Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vis Geomorphic Shallow Aquit FAC-Neutral Raised Ant M Frost-Heave	d Leaves (B9) (MLRA 1, 2, 3) terns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) lounds (D6) (LRR A)	
IYDROLOGY         Vetland Hydrology Indicators:         rimary Indicators (minimum of one regeneric 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 Imag         Sparsely Vegetated Concave Surface Water Present?	lery (B7) Irface (B8)	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Stunted or Stresse Other (Explain in F	3) ates (B13) Odor (C1) neres along Living R iced Iron (C4) ction in Tilled Soils ( ed Plants (D1) (LRR Remarks) Depth (inches):	Roots (C3) (C6) R A)	Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vis Geomorphic Shallow Aquit FAC-Neutral Raised Ant M Frost-Heave	d Leaves (B9) (MLRA 1, 2, 3) terns (B10) Vater Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) lounds (D6) (LRR A) Hummocks (D7)	
IYDROLOGY         Vetland Hydrology Indicators:         rimary Indicators (minimum of one regeneric 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 Imag         Sparsely Vegetated Concave Surface Water Present?	ery (B7) rface (B8) esNo	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Stunted or Stresse Other (Explain in F	3) ates (B13) Odor (C1) heres along Living R aced Iron (C4) ction in Tilled Soils ( ed Plants (D1) (LRR Remarks) Depth (inches): Depth (inches):	Roots (C3) (C6) R A)	Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vis Geomorphic Shallow Aquit FAC-Neutral Raised Ant M Frost-Heave	d Leaves (B9) (MLRA 1, 2, 3) terns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) lounds (D6) (LRR A)	No X
IYDROLOGY         Vetland Hydrology Indicators:         rimary Indicators (minimum of one regeneration of the second secon	lery (B7) Irface (B8)	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Stunted or Stresse Other (Explain in F	3) ates (B13) Odor (C1) neres along Living R iced Iron (C4) ction in Tilled Soils ( ed Plants (D1) (LRR Remarks) Depth (inches):	Roots (C3) (C6) R A)	Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vis Geomorphic Shallow Aquit FAC-Neutral Raised Ant M Frost-Heave	d Leaves (B9) (MLRA 1, 2, 3) terns (B10) Vater Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) lounds (D6) (LRR A) Hummocks (D7)	No X
IYDROLOGY         /etland Hydrology Indicators:         rimary Indicators (minimum of one regeneric 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 Imag         Sparsely Vegetated Concave Surface Water Present?         Yeter Table Present?	ery (B7) rface (B8) esNo esNo	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Stunted or Stresse Other (Explain in F	3) ates (B13) Odor (C1) heres along Living R aced Iron (C4) ction in Tilled Soils ( ed Plants (D1) (LRR Remarks) Depth (inches): Depth (inches): Depth (inches):	Roots (C3) (C6) R A)	Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vis Geomorphic Shallow Aquit FAC-Neutral Raised Ant M Frost-Heave Wetland Hydrology Present?	d Leaves (B9) (MLRA 1, 2, 3) terns (B10) Vater Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) lounds (D6) (LRR A) Hummocks (D7)	No <u>X</u>
IVDROLOGY         /etland Hydrology Indicators:         rimary Indicators (minimum of one regeneration of the second secon	ery (B7) rface (B8) esNo esNo	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Stunted or Stresse Other (Explain in F	3) ates (B13) Odor (C1) heres along Living R aced Iron (C4) ction in Tilled Soils ( ed Plants (D1) (LRR Remarks) Depth (inches): Depth (inches): Depth (inches):	Roots (C3) (C6) R A)	Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vis Geomorphic Shallow Aquit FAC-Neutral Raised Ant M Frost-Heave Wetland Hydrology Present?	d Leaves (B9) (MLRA 1, 2, 3) terns (B10) Vater Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) lounds (D6) (LRR A) Hummocks (D7)	No X

**Parametrix** 

ENGINEERING . PLANNING . ENVIRONMENTAL SCIENCES Project No.: 554-2441-022

US Army Corps of Engineers Western Mountains, Valleys, and Coast Region (Version 2.0)

Project/Site:	Federal Way City Center Acc	cess	City/County:	Federal Way/K	ing	Sampling Date:	8/19/2020
Applicant/Owner:	City of Federal Way				State: Washington	Sampling Point:	W10-SP-15
Investigator(s):	Per Johnson, Aaron Tho	m		s	Section, Township, Range:	T21N R04E S0	09
Landform (hillslop	e, terrace, etc.):	hillslope	9				e (%): >10%
Subregion (LRR)		Coast (LRR A)	Lat: 47.315601	 Lon	g: -122.296219		D 1983 (HARN)
Soil Unit (Name-I	D-Hydric Rating):	Alderwood gravelly sar	ndy loam -	AgC -	Not Hydric NWI cla	ssification: F	PSSCx
Are climatic / hyd	rologic conditions on the site	typical for this time of ye	ear?	Ye	es X No	(If no, explain in Rema	arks)
Are Vegetation	, Soil	, or Hydrology	significantly dis	turbed? Ar	e "Normal Circumstances" preser	nt? Yes	XNo
Are Vegetation	, Soil	, or Hydrology	naturally proble	ematic? (If	needed, explain any answers in F	(emarks.)	
SUMMARY C	OF FINDINGS – Attac	h site map showin	g sampling poi	nt locations,	transects, important feat	tures, etc.	
Hydrophytic Veg	etation Present?	Yes X	No				
Hydric Soil Prese	ent?	Yes X	No	Is the Sample	ed Area		
Wetland Hydrolo	gy Present?	Yes X	No	within a Wetla	and? Yes <u>X</u>	No	
Precipitation:							
	Seattle Tacoma Airport NOA	A weather station, precip	oitation was within the	normal range for	the three months prior to the site	visit.	
Remarks:	foot east of ponded area, alo	ng parrow band of seaso	nally to occasionally i	nnundated Wetla	nd 10		
	loot east of ponded area, alo	ng harrow band of sease	nany to occasionally i		nu to.		
VEGETATIO	N						
		Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum	(Plot size: <u>r=</u>	<u>3m) % Cover</u>	Species?	<u>Status</u>	Number of Dominant Species		
<sup>1.</sup> <u>Alnus rubra</u> 2.		85%	Yes	FAC	That Are OBL, FACW, or FAC	: 5	(A)
3.							
а. Д					Total Number of Dominant	_	
+. 			T 1 10		Species Across All Strata:	5	(B)
Comline/Church C			= Total Cover		Descent of Descincent Operation		
Sapling/Shrub S		<u>2m)</u>	N	FAOM	Percent of Dominant Species	. 100%	
2		30%	Yes	FACW	That Are OBL, FACW, or FAC	•	<u>e</u> (A/B)
2		25%	Yes	FACW	Prevalence Index worksheet Total % Cover of:	: Multiply by:	
Tubus anne	niacus	5%	<u>No</u>	FAC		x 1 =	—
4. 5.					· · ·	x 2 =	
J						x 3 =	
Herb Stratum	(Plot size: r=		= Total Cover		· · · · · · · · · · · · · · · · · · ·	x 4 =	
	· · · · ·	<u>1m)</u>	N			x 5 =	
<ol> <li><u>Carex obnup</u></li> <li><u>Phalaris aru</u></li> </ol>		25%	Yes	OBL		(A)	(B)
-		20%	Yes	FACW	Prevalence Index :	· · · · · · · · · · · · · · · · · · ·	(D)
<ol> <li><u>Ranunculus</u></li> <li>4.</li> </ol>	repens	5%	No	FAC	Hydrophytic Vegetation India	-	
4. 5.					1 - Rapid Test for Hydrop		
6					X 2 - Dominance Test is >5	, ,	
7.					3 - Prevalence Index is ≤3		
8.					4 - Morphological Adaptat		ing
9.					data in Remarks or on		ing
10.					5 - Wetland Non-Vascular	. ,	
11.					Problematic Hydrophytic		
····			= Total Cover		<sup>1</sup> Indicators of hydric soil and w		
Woody Vine Stra	atum (Plot size: <u>r=2m</u>				be present.	stand nydrology must	
1. none					1		
2.					Hydrophytic		
~ <b>.</b> .			= Total Cover		Vegetation Yes	<u> </u>	
% Bare Ground	in Herb Stratum	0%			Present?		
Remarks:							
Paran	netrix						

SOIL							Sampling Point:	W10-SP-15
Profile Descript	tion (Describe to the	depth needed	to document the ind	dicator or con	firm the absence	of indicators):		
Depth	Matrix	¢		Redox	Features			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-8	10YR 3/2	100					GrSaL	
8-16	10YR 3/2	90	10YR 4/1	10	D	М	GrSaL	
	ntration D-Doplation		Matrix CS=Cavarad	r Costad San		ion, DI-Doro Lining		
•••	entration, D=Depletion,					tion: PL=Pore Lining		
					f = fine; vf = very fir		clay); - = light (less clay)	
-	cators (Applicable to	all LRRS, unio					oblematic Hydric Soils <sup>3</sup> :	
Histosol (A1	,	-	Sandy Redox (S5	,		2 cm Muck (		
Histic Epipeo		-	Stripped Matrix (S	,			Material (TF2)	
Black Histic		-	Loamy Mucky Min	. , .	ept MLRA 1)		/ Dark Surface (TF12)	
Hydrogen Su		-	Loamy Gleyed Ma			Other (Expla	in in Remarks)	
	elow Dark Surface (A11	-	Depleted Matrix (	-				
	Surface (A12)	-	X Redox Dark Surfa			<sup>3</sup> Indicators of hyd	rophytic vegetation and wetland	
	y Mineral (S1)	-	Depleted Dark Su				e present, unless disturbed or	Ť
Sandy Gleye	ed Matrix (S4)	-	Redox Depression	ns (F8)		problematic.		
Restrictive Laye	er (if present):							
Ту	pe:					Hydric Soil		
Depth (inches):	:	_				Present?	Yes X	No
Remarks:								
Remarks:								
HYDROLOG								
Remarks: HYDROLOG Wetland Hydrole								
HYDROLOG Wetland Hydrold		uired; check a	ll that apply)			Secondary Indica	tors (2 or more required)	
HYDROLOG Wetland Hydrold	ogy Indicators: rs (minimum of one req	uired; check a	ll that apply) Water-Stained Le	aves (B9) (exc	cept MLRA		tors (2 or more required) ed Leaves (B9) (MLRA 1, 2,	
HYDROLOG Wetland Hydrolo Primary Indicator	ogy Indicators: rs (minimum of one req ter (A1)	uired; check a			cept MLRA		ed Leaves (B9) (MLRA 1, 2,	
HYDROLOG Wetland Hydrolo Primary Indicator Surface Wat	ogy Indicators: rs (minimum of one req ter (A1) Table (A2)	uired; check a	Water-Stained Le		sept MLRA	Water-Staine	ed Leaves (B9) (MLRA 1, 2, B)	
HYDROLOG Wetland Hydrold Primary Indicator Surface Wat X High Water	ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3)	uired; check a	Water-Stained Le 1, 2, 4A, and 4I	3)	sept MLRA	Water-Staine 4A, and 4 Drainage Pa	ed Leaves (B9) (MLRA 1, 2, B)	
HYDROLOG Wetland Hydrold Primary Indicator Surface Wat X High Water X Saturation (A	ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1)	uired; check a	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11)	B) ates (B13)	cept MLRA	Water-Staine 4A, and 4 Drainage Pa Dry-Season	ed Leaves (B9) (MLRA 1, 2, B) tterns (B10)	
HYDROLOG Wetland Hydrolo Primary Indicator Surface Wat X High Water X Saturation (A Water Marks	ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2)	uired; check a	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra	3) ates (B13) Odor (C1)		Water-Staine 4A, and 4 Drainage Pa Dry-Season Saturation V	ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2)	
HYDROLOG Wetland Hydrold Primary Indicator Surface Wat X High Water X Saturation ( <i>A</i> Water Marks Sediment De	ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3)	uired; check a	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide	B) ates (B13) Odor (C1) heres along Liv		Water-Staine 4A, and 4 Drainage Pa Dry-Season Saturation V	ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9) Position (D2)	
HYDROLOG Wetland Hydrold Primary Indicator Surface Wat X High Water X Saturation (A Water Marks Sediment De Drift Deposit	ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4)	uired; check a	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl	3) ates (B13) Odor (C1) heres along Liv iced Iron (C4)	ving Roots (C3)	Water-Staine 4A, and 4 Drainage Pa Dry-Season Saturation V Geomorphic	ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9) Position (D2) itard (D3)	
HYDROLOG Wetland Hydrolo Primary Indicator Surface Wat X High Water X Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit	ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4)	uired; check a	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl Presence of Redu	3) ates (B13) Odor (C1) heres along Liv aced Iron (C4) ction in Tilled S	ving Roots (C3) Soils (C6)	Water-Staine 4A, and 4 Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutral	ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9) Position (D2) itard (D3)	
HYDROLOG Wetland Hydrold Primary Indicator Surface Wat X High Water X Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil	ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5)		Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl Presence of Redu Recent Iron Redu	ates (B13) Odor (C1) heres along Liv aced Iron (C4) ction in Tilled S ed Plants (D1)	ving Roots (C3) Soils (C6)	Water-Staine 4A, and 4 Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutral Raised Ant N	ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9) Position (D2) itard (D3) Test (D5)	
HYDROLOG Wetland Hydrolo Primary Indicator Surface Wat X High Water X Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V	ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) Cracks (B6)	- - - y (B7)	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl Presence of Redu Recent Iron Redu Stunted or Stress	ates (B13) Odor (C1) heres along Liv aced Iron (C4) ction in Tilled S ed Plants (D1)	ving Roots (C3) Soils (C6)	Water-Staine 4A, and 4 Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutral Raised Ant N	ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9) Position (D2) itard (D3) Test (D5) <i>N</i> ounds (D6) (LRR A)	
HYDROLOG Wetland Hydrolo Primary Indicator Surface Wat X High Water X Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V	ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) Cracks (B6) risible on Aerial Imager getated Concave Surfa	- - - y (B7)	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl Presence of Redu Recent Iron Redu Stunted or Stress	ates (B13) Odor (C1) heres along Liv aced Iron (C4) ction in Tilled S ed Plants (D1)	ving Roots (C3) Soils (C6)	Water-Staine 4A, and 4 Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutral Raised Ant N	ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9) Position (D2) itard (D3) Test (D5) <i>N</i> ounds (D6) (LRR A)	
HYDROLOG Wetland Hydrold Primary Indicator Surface Wat X High Water X Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V Sparsely Ver	ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) Cracks (B6) 'isible on Aerial Imager getated Concave Surfa	y (B7) ace (B8)	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl Presence of Redu Recent Iron Redu Stunted or Stress	ates (B13) Odor (C1) heres along Liv iced Iron (C4) ction in Tilled S ed Plants (D1) Remarks)	ving Roots (C3) Soils (C6) (LRR A)	Water-Staine 4A, and 4 Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutral Raised Ant N	ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9) Position (D2) itard (D3) Test (D5) <i>N</i> ounds (D6) (LRR A)	
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HYDROLOG Wetland Hydrolo Primary Indicator Surface Wat X High Water X Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V Sparsely Vet Field Observatio Surface Water F	ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) Cracks (B6) risible on Aerial Imager getated Concave Surfa ons: Present? Yes esent? Yes	y (B7) ace (B8)	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospi Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in I No X No	3) ates (B13) Odor (C1) heres along Liv iced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) Depth (inches	ving Roots (C3) Soils (C6) (LRR A) s):	Water-Staine 4A, and 4 Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutral Raised Ant M Frost-Heave	ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9) Position (D2) itard (D3) Test (D5) <i>I</i> ounds (D6) (LRR A) Hummocks (D7)	No
HYDROLOG Wetland Hydrolo Primary Indicator Surface Water X High Water X Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V Sparsely Ver Field Observatio Surface Water F Water Table Prese (includes capillar)	ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) Cracks (B6) /isible on Aerial Imager getated Concave Surfa ons: Present? Yes esent? Yes esent? Yes ry fringe)	y (B7) ace (B8) X X	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in I No X No X No	ates (B13) Odor (C1) heres along Liv iced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) Depth (inches Depth (inches	ving Roots (C3) Soils (C6) (LRR A) s):	Water-Staine 4A, and 4 Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutral Raised Ant N Frost-Heave Wetland Hydrology Present?	ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9) Position (D2) itard (D3) Test (D5) <i>I</i> ounds (D6) (LRR A) Hummocks (D7)	No
HYDROLOG Wetland Hydrolo Primary Indicator Surface Water X High Water X Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V Sparsely Ver Field Observatio Surface Water F Water Table Prese (includes capillar)	ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) Cracks (B6) risible on Aerial Imager getated Concave Surfa ons: Present? Yes esent? Yes	y (B7) ace (B8) X X	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in I No X No X No	ates (B13) Odor (C1) heres along Liv iced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) Depth (inches Depth (inches	ving Roots (C3) Soils (C6) (LRR A) s):	Water-Staine 4A, and 4 Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutral Raised Ant N Frost-Heave Wetland Hydrology Present?	ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9) Position (D2) itard (D3) Test (D5) <i>I</i> ounds (D6) (LRR A) Hummocks (D7)	No
HYDROLOG Wetland Hydrolo Primary Indicator Surface Water X High Water X Saturation ( <i>A</i> Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V Sparsely Ve Field Observatio Surface Water F Water Table Prese (includes capillar Describe Recor Remarks:	ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) rs (B5) Cracks (B6) /isible on Aerial Imager getated Concave Surfa ons: Present? Yes esent? Yes ent? Yes ry fringe) rded Data (stream gau	y (B7) ace (B8) X x uge, monitorin	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in I No X No X No	ates (B13) Odor (C1) heres along Liv iced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) Depth (inches Depth (inches	ving Roots (C3) Soils (C6) (LRR A) s):	Water-Staine 4A, and 4 Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutral Raised Ant N Frost-Heave Wetland Hydrology Present?	ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9) Position (D2) itard (D3) Test (D5) <i>I</i> ounds (D6) (LRR A) Hummocks (D7)	No
HYDROLOG Wetland Hydrolo Primary Indicator Surface Water X High Water X Saturation ( <i>A</i> Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V Sparsely Ve Field Observatio Surface Water F Water Table Prese (includes capillar Describe Recor Remarks:	ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) Cracks (B6) /isible on Aerial Imager getated Concave Surfa ons: Present? Yes esent? Yes esent? Yes ry fringe)	y (B7) ace (B8) X x uge, monitorin	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in I No X No X No	ates (B13) Odor (C1) heres along Liv iced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) Depth (inches Depth (inches	ving Roots (C3) Soils (C6) (LRR A) s):	Water-Staine 4A, and 4 Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutral Raised Ant N Frost-Heave Wetland Hydrology Present?	ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9) Position (D2) itard (D3) Test (D5) <i>I</i> ounds (D6) (LRR A) Hummocks (D7)	No
HYDROLOG Wetland Hydrolo Primary Indicator Surface Water X High Water X Saturation ( <i>A</i> Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V Sparsely Ve Field Observatio Surface Water F Water Table Prese (includes capillar Describe Recor Remarks:	ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) rs (B5) Cracks (B6) /isible on Aerial Imager getated Concave Surfa ons: Present? Yes esent? Yes ent? Yes ry fringe) rded Data (stream gau	y (B7) ace (B8) X x uge, monitorin	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in I No X No X No	ates (B13) Odor (C1) heres along Liv iced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) Depth (inches Depth (inches	ving Roots (C3) Soils (C6) (LRR A) s):	Water-Staine 4A, and 4 Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutral Raised Ant N Frost-Heave Wetland Hydrology Present?	ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9) Position (D2) itard (D3) Test (D5) <i>I</i> ounds (D6) (LRR A) Hummocks (D7)	No

US Army Corps of Engineers Western Mountains, Valleys, and Coast Region (Version 2.0)

Project/Site:	Federal Way City Center Access	;	City/County:	Federal Way/k	King	Sampling Date:	8/19/2020
Applicant/Owner:	City of Federal Way				State: Washington	Sampling Point:	W10-SP-16
Investigator(s):	Per Johnson, Aaron Thom				Section, Township, Range:		09
Landform (hillslop	e, terrace, etc.):	hillslope		Local re	lief (concave, convex, none):	none Slope	e (%): >10%
Subregion (LRR)	Northwest Forests and Coas	st (LRR A)	Lat: 47.315613	Lor	ng: -122.296112	Datum: NAI	D 1983 (HARN)
Soil Unit (Name-I	D-Hydric Rating): Al	derwood gravelly sar	dy loam	- AgC	- Not Hydric NWI cla	assification:	None
Are climatic / hyd	rologic conditions on the site typ	ical for this time of ye	ar?	Ye	es X No	(If no, explain in Rema	arks)
Are Vegetation	, Soil				re "Normal Circumstances" preser	nt? Yes	<u>X</u> No
Are Vegetation	, Soil	, or Hydrology	naturally proble	ematic? (If	f needed, explain any answers in F	Remarks.)	
SUMMARY C	F FINDINGS – Attach s	ite map showin	g sampling poi	nt locations,	transects, important fea	tures, etc.	
Hydrophytic Veg	etation Present?	Yes X	No				
Hydric Soil Prese	ent?	Yes	No X	Is the Sample			
Wetland Hydrolo	gy Present?	Yes	No X	within a Wetl	and? Yes	<u>No X</u>	_
Precipitation:							
According to the	Seattle Tacoma Airport NOAA w	eather station, precip	itation was within the	e normal range fo	r the three months prior to the site	⊧ visit.	
Remarks:							
	nately 6 feet from W10-SP-15, u	pslope approximately	4 feet in elevation fr	om ponded water	r.		
	<b>,</b> - ,						
VEGETATIO	N						
VEGETATIO	N Contraction of the second se	Absolute	Deminent	Indiaatar	Dominance Test worksheet:		
Tue e Otwetuwe	(Dist size		Dominant	Indicator			
1. Alpus rubra	(Plot size: <u>3mx2n</u>	<u> </u>	Species?	<u>Status</u>	Number of Dominant Species		(•)
		90%	Yes	FAC	That Are OBL, FACW, or FAC	3	(A)
<ol> <li>Salix scouler</li> <li>3.</li> </ol>	riana	10%	No	FAC			
					Total Number of Dominant		
4.				_	Species Across All Strata:	4	(B)
		100%	= Total Cover				
Sapling/Shrub S	`	-			Percent of Dominant Species	750/	
1. <u>Oemleria ce</u>	rasiformis	50%	Yes	FACU	That Are OBL, FACW, or FAC		(A/B)
2. <u>Rubus arme</u>	niacus	15%	Yes	FAC	Prevalence Index worksheet		
3.					Total % Cover of:	Multiply by:	_
4.					OBL species	x 1 =	
5.				_	FACW species	x 2 =	
		<u>65%</u>	= Total Cover		FAC species	x 3 =	
Herb Stratum	(Plot size: <u>r=1m</u> )				FACU species	x 4 =	
1. <u>Ranunculus</u>	repens		Yes	FAC	UPL species	x 5 =	
2.					Column Totals:	(A)	(B)
3.					Prevalence Index		
4.					Hydrophytic Vegetation Indi		
5.					1 - Rapid Test for Hydrop		
6.					X 2 - Dominance Test is >5		
7.					3 - Prevalence Index is ≤		
8					4 - Morphological Adapta	· · ·	ing
9		_			data in Remarks or or		
10					5 - Wetland Non-Vascula		
11					Problematic Hydrophytic		
		90%	= Total Cover		<sup>1</sup> Indicators of hydric soil and w	etland hydrology must	
Woody Vine Stra	atum (Plot size: <u>r=2m)</u>				be present.		
1. <u>none</u> 2.					Hydrophytic		
		0%	= Total Cover		Vegetation Yes	X No	
% Bare Ground	in Herb Stratum 10%				Present?		
Domosila							
Remarks:							
Paran	netrix						

SOIL				Sampling Point:	W10-SP-16
Profile Description (Descr	ibe to the depth r	needed to document the indicator or confirm the absence	e of indicators):		
Depth	Matrix	Redox Features			
(inches) Color (	moist) %	6 Color (moist) % Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-6 10YF	R 4/2 10	00		GrSaL	
			<u> </u>		
	<u> </u>				
Type: C=Concentration, D=	Depletion, RM=Re	educed Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup> Loc	ation: PL=Pore Lining, M=N	Matrix.	
		n or loamy. Texture Modifier: co = coarse; f = fine; vf = very	fine; + = heavy (more clay);	- = light (less clay)	
Hydric Soil Indicators (App	licable to all LRF	Rs, unless otherwise noted):	Indicators for Problen	natic Hydric Soils <sup>3</sup> :	
Histosol (A1)		Sandy Redox (S5)	2 cm Muck (A10)		
Histic Epipedon (A2)		Stripped Matrix (S6)	Red Parent Materi		
Black Histic (A3)		Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark		
Hydrogen Sulfide (A4)		Loamy Gleyed Matrix (F2)	Other (Explain in F	Remarks)	
Depleted Below Dark Su		Depleted Matrix (F3)			
Thick Dark Surface (A12		Redox Dark Surface (F6)	<sup>3</sup> Indicators of hydrophyt	ic vegetation and wetland	Ł
Sandy Mucky Mineral (S		Depleted Dark Surface (F7)	hydrology must be pres	ent, unless disturbed or	Ť
Sandy Gleyed Matrix (S4	4)	Redox Depressions (F8)	problematic.	, 	
Restrictive Layer (if preser					
Type			Hydric Soil		
	ted with cobbles				
Depth (inches):	6	oles and roots intermixed within compacted layer. Soil was dr	Present?	Yes	No <u>X</u>
Depth (inches): Remarks: Jnable to dig beyond 6 inche	6	oles and roots intermixed within compacted layer. Soil was dr	Present?		No <u>X</u>
Depth (inches): Remarks: Unable to dig beyond 6 inche	6	oles and roots intermixed within compacted layer. Soil was dr	Present?		No <u>X</u>
Depth (inches): Remarks: Unable to dig beyond 6 inche HYDROLOGY Wetland Hydrology Indicat	6 es because of cobb		Present? y and friable at time of site	visit.	No <u>X</u>
Depth (inches): Remarks: Unable to dig beyond 6 inche HYDROLOGY Wetland Hydrology Indicat	6 es because of cobb		Present? y and friable at time of site Secondary Indicators (2	visit. 2 or more required)	No <u>X</u>
Depth (inches): Remarks: Unable to dig beyond 6 inche HYDROLOGY Wetland Hydrology Indicat Primary Indicators (minimumSurface Water (A1)	6 es because of cobb	<u>heck all that apply)</u> Water-Stained Leaves (B9) (except MLRA	Present? y and friable at time of site Secondary Indicators (2 Water-Stained Lea	visit.	No X
Depth (inches):  Remarks: Unable to dig beyond 6 inche HYDROLOGY Wetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1) High Water Table (A2)	6 es because of cobb	<u>heck all that apply)</u> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	Present? y and friable at time of site <u>Secondary Indicators (2</u> Water-Stained Lea 4A, and 4B)	visit. <u>2 or more required)</u> aves (B9) (MLRA 1, 2,	No X
Depth (inches):  Remarks: Unable to dig beyond 6 inche HYDROLOGY Wetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3)	6 es because of cobb	<pre>check all that apply) Water-Stained Leaves (B9) (except MLRA</pre>	Present? y and friable at time of site Secondary Indicators (2 Water-Stained Lea 4A, and 4B) Drainage Patterns	visit. <u>2 or more required)</u> aves (B9) (MLRA 1, 2, (B10)	No X
Depth (inches):  Remarks: Unable to dig beyond 6 inche HYDROLOGY Wetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	6 es because of cobb ors: of one required; c	theck all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	Present? y and friable at time of site Secondary Indicators (2 Water-Stained Lea 4A, and 4B) Drainage Patterns Dry-Season Water	visit. <u>2 or more required)</u> aves (B9) (MLRA 1, 2, (B10) · Table (C2)	No X
Depth (inches):  Remarks: Unable to dig beyond 6 inche HYDROLOGY Wetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	6 es because of cobb ors: of one required; c	theck all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Present? y and friable at time of site y Secondary Indicators (2 Water-Stained Lea 4A, and 4B) Drainage Patterns Dry-Season Water Saturation Visible of	visit. <u>2 or more required)</u> aves (B9) (MLRA 1, 2, (B10) <sup>.</sup> Table (C2) on Aerial Imagery (C9)	No X
Depth (inches):  Remarks: Unable to dig beyond 6 inche HYDROLOGY Wetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	6 es because of cobb ors: of one required; c	wheck all that apply)        Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)        Salt Crust (B11)        Aquatic Invertebrates (B13)        Hydrogen Sulfide Odor (C1)        Oxidized Rhizospheres along Living Roots (C3)	Present? y and friable at time of site Secondary Indicators (2 Water-Stained Lea 4A, and 4B) Drainage Patterns Dry-Season Water Saturation Visible of Geomorphic Positi	visit. <u>2 or more required)</u> aves (B9) (MLRA 1, 2, (B10) <sup>-</sup> Table (C2) on Aerial Imagery (C9) on (D2)	No X
Depth (inches): Remarks: Unable to dig beyond 6 inche HYDROLOGY Wetland Hydrology Indicat 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)	6 es because of cobb ors: of one required; c	check all that apply)        Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)        Salt Crust (B11)        Aquatic Invertebrates (B13)        Hydrogen Sulfide Odor (C1)        Oxidized Rhizospheres along Living Roots (C3)        Presence of Reduced Iron (C4)	Present? y and friable at time of site y Secondary Indicators (2 Water-Stained Lea 4A, and 4B) Drainage Patterns Dry-Season Water Saturation Visible Geomorphic Positi Shallow Aquitard (	visit. 2 or more required) aves (B9) (MLRA 1, 2, (B10) • Table (C2) on Aerial Imagery (C9) on (D2) D3)	No X
Depth (inches): Remarks: Unable to dig beyond 6 inche HYDROLOGY Wetland Hydrology Indicat 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)	6 es because of cobb ors: of one required; c	theck all that apply)	Present? y and friable at time of site of Secondary Indicators (2 Water-Stained Lea 4A, and 4B) Drainage Patterns Dry-Season Water Saturation Visible of Geomorphic Positi Shallow Aquitard ( FAC-Neutral Test	visit. 2 or more required) aves (B9) (MLRA 1, 2, (B10) Table (C2) on Aerial Imagery (C9) on (D2) D3) (D5)	No X
Depth (inches): Remarks: Unable to dig beyond 6 inche HYDROLOGY Wetland Hydrology Indicat 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	6 es because of cobb ors: of one required; c	heck all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Present? y and friable at time of site of Secondary Indicators (2 Water-Stained Lea 4A, and 4B) Drainage Patterns Dry-Season Water Saturation Visible of Geomorphic Positi Shallow Aquitard ( FAC-Neutral Test Raised Ant Mound	visit. 2 or more required) aves (B9) (MLRA 1, 2, (B10) Table (C2) on Aerial Imagery (C9) on (D2) D3) (D5) s (D6) (LRR A)	No X
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Project/Site: Federal Way City Center Access		City/County:	Federal Way/K	ling S	ampling Date: 8/19/2020	
Applicant/Owner: City of Federal Way				State: Washington	Sampling Point: W11-SP-	-17
Investigator(s): Per Johnson, Aaron Thom			s	Section, Township, Range:	T21N R04E S09	
Landform (hillslope, terrace, etc.):	depressior	1	 Local rel	lief (concave, convex, none): conc	cave Slope (%): <3	%
Subregion (LRR): Northwest Forests and Coast (I	LRR A)	Lat: 47.317001	 Lon	ng: -122.295387	Datum: NAD 1983 (HAF	
Soil Unit (Name-ID-Hydric Rating):	Water	-		- Not Hydric NWI class	sification: PEM1F	
Are climatic / hydrologic conditions on the site typica	I for this time of yea	r?	Ye	es X No (I	f no, explain in Remarks)	
Are Vegetation, Soil				e "Normal Circumstances" present	Yes <u>X</u> No	
Are Vegetation, Soil	, or Hydrology	naturally proble	matic? (If	needed, explain any answers in Re	marks.)	
SUMMARY OF FINDINGS - Attach site	e map showing	, sampling poir	nt locations,	transects, important featu	ires, etc.	
Hydrophytic Vegetation Present?	Yes X	No				
Hydric Soil Present?	Yes X	No	Is the Sample	ed Area		
Wetland Hydrology Present?	Yes X	No	within a Wetla	and? Yes X	No	
Precipitation:						
According to the Seattle Tacoma Airport NOAA wea	ther station, precipit	ation was within the	normal range for	r the three months prior to the site v	isit.	
Remarks: Near WSDOT northern project boundary east of I-5	northbound on rame					
Near WSDOT northern project boundary east of 1-5		).				
VEGETATION						
	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: r=3m)	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant Species		
<sup>1.</sup> Fraxinus latifolia	90%	Yes	FACW	That Are OBL, FACW, or FAC:	<u> </u>	
<ol> <li>Alnus rubra</li> <li>Populus balsamifera</li> </ol>	10%	No	FAC			
r opalae Saleanniera	10%	No	FAC	Total Number of Dominant		
4				Species Across All Strata:	<u> </u>	
	=	Total Cover				
Sapling/Shrub Stratum (Plot size: <u>r=2m)</u>				Percent of Dominant Species		
<sup>1.</sup> Spiraea douglasii	15%	Yes	FACW	That Are OBL, FACW, or FAC:	<u>100%</u> (A/B)	
2. Rubus spectabilis	10%	Yes	FAC	Prevalence Index worksheet:		
3. Fraxinus latifolia	5%	No	FACW		lultiply by:	
4. Populus balsamifera	5%	No	FAC	OBL speciesx	1 =	
5				· · · · · · · · · · · · · · · · · · ·	2 =	
	<u> </u>	Total Cover		· · · · · · · · · · · · · · · · · · ·	3 =	
Herb Stratum (Plot size: r=1m)				· · ·	4 =	
1. <u>Carex obnupta</u>	2%	No	OBL	·	5 =	
2. <u>Geum macrophyllum</u>	1%	No	FAC		· · · · · · · · · · · · · · · · · · ·	B)
3.	_			Prevalence Index =		
4.				Hydrophytic Vegetation Indica		
5.				1 - Rapid Test for Hydrophy	Ū	
6				X 2 - Dominance Test is >50%		
7.				3 - Prevalence Index is ≤3.0		
8	_			4 - Morphological Adaptatio		
9	_			data in Remarks or on a	· .	
10	_			5 - Wetland Non-Vascular F		
11				Problematic Hydrophytic Ve		
	=	Total Cover		<sup>1</sup> Indicators of hydric soil and wet	and hydrology must	
Woody Vine Stratum (Plot size: <u>r=2m</u> )				be present.		
1. <u>none</u> 2.				Hydrophytic		
	=	Total Cover		Vegetation Yes	X No	
% Bare Ground in Herb Stratum 97%				Present?		
Bernerke						
Remarks:						

# **Parametrix**

SOIL							Sampling Point:	W11-SP-17
	tion (Describe to the o	lepth needed	I to document the ind	licator or conf	firm the absence	of indicators):		
Depth	Matrix			Redox	Features			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-4	10YR 2/2	100	<u>,                                </u>				L	
4-18	10YR 2/2	60	10YR 5/1	30	D	М	L	
			10YR 5/8	10	С	M	L	
1 <b>T</b>					2	tion DL Done Lining	M. M. M.	
• ·	entration, D=Depletion, I					tion: PL=Pore Lining,		
					= fine; vf = very fi		lay); - = light (less clay)	
-	cators (Applicable to a	all LRRS, unio	ess otherwise noted)				blematic Hydric Soils <sup>3</sup> :	
Histosol (A1		-	Sandy Redox (S5)			2 cm Muck (A		
Histic Epipe		-	Stripped Matrix (S	,		Red Parent M		
Black Histic		-	Loamy Mucky Min		ept MLRA 1)		Dark Surface (TF12)	
Hydrogen S		-	Loamy Gleyed Ma	. ,		Other (Explain	in Remarks)	
	elow Dark Surface (A11)	-	Depleted Matrix (F	,				
Thick Dark S	Surface (A12)	-	X Redox Dark Surfa	ce (F6)		<sup>3</sup> Indicators of hydro	phytic vegetation and wetland	
Sandy Muck	xy Mineral (S1)	-	X Depleted Dark Su	rface (F7)			present, unless disturbed or	
Sandy Gleye	ed Matrix (S4)	-	Redox Depression	ns (F8)		problematic.		
Restrictive Laye	er (if present):							
-	/pe: <sub>n/a</sub>					Hydric Soil		
Depth (inches)						Present?	Yes X	No
,								
HYDROLOG								
Wetland Hydrol	ogy Indicators:							
Primary Indicator	rs (minimum of one requ	<u>uired; check a</u>	Il that apply)			Secondary Indicato	rs (2 or more required)	
Surface Wat	ter (A1)	-	Water-Stained Lea	aves (B9) (exc	ept MLRA	Water-Stained	Leaves (B9) (MLRA 1, 2,	
High Water	Table (A2)		1, 2, 4A, and 4E	3)		4A, and 4B	)	
Saturation (/	A3)		Salt Crust (B11)			Drainage Patt	erns (B10)	
Water Marks	s (B1)		Aquatic Invertebra	tes (B13)		Dry-Season V	/ater Table (C2)	
Sediment De	eposits (B2)		Hydrogen Sulfide	Odor (C1)		Saturation Vis	ible on Aerial Imagery (C9)	
	ts (B3)						Position (D2)	
Drift Deposit	(00)	-	Oxidized Rhizosph	ieres along Liv	ing Roots (C3)	X Geomorphic F	USITION (DZ)	
			Oxidized Rhizosph Presence of Redu	-	ing Roots (C3)	X Geomorphic F		
Drift Deposit	Crust (B4)		_	ced Iron (C4)			ard (D3)	
Drift Deposit Algal Mat or Iron Deposit	Crust (B4)		Presence of Redu	ced Iron (C4) ction in Tilled S	Soils (C6)	Shallow Aquita	ard (D3)	
Drift Deposit Algal Mat or Iron Deposit Surface Soil	Crust (B4) s (B5)	- 	Presence of Redu Recent Iron Reduc	ced Iron (C4) ction in Tilled S ed Plants (D1)	Soils (C6)	Shallow Aquita X FAC-Neutral ⊺ Raised Ant M	ard (D3) Test (D5)	
Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V	Crust (B4) ss (B5) Cracks (B6)		Presence of Redu Recent Iron Reduc Stunted or Stresse	ced Iron (C4) ction in Tilled S ed Plants (D1)	Soils (C6)	Shallow Aquita X FAC-Neutral ⊺ Raised Ant M	ard (D3) Test (D5) Dunds (D6) (LRR A)	
Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V Sparsely Ve	Crust (B4) (S (B5) Cracks (B6) (isible on Aerial Imagery getated Concave Surfa		Presence of Redu Recent Iron Reduc Stunted or Stresse	ced Iron (C4) ction in Tilled S ed Plants (D1)	Soils (C6)	Shallow Aquita X FAC-Neutral ⊺ Raised Ant M	ard (D3) Test (D5) Dunds (D6) (LRR A)	
Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V Sparsely Ve	Crust (B4) (s (B5)) Cracks (B6) (risible on Aerial Imagery) (rigetated Concave Surfations:	ce (B8)	Presence of Redu Recent Iron Reduc Stunted or Stresse Other (Explain in F	ced Iron (C4) ction in Tilled S ed Plants (D1) Remarks)	oils (C6) (LRR A)	Shallow Aquita X FAC-Neutral ⊺ Raised Ant M	ard (D3) Test (D5) Dunds (D6) (LRR A)	
Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V Sparsely Ve Field Observation	Crust (B4) (s (B5)) Cracks (B6) (sible on Aerial Imagery) (sigetated Concave Surfations: Present? Yes	ce (B8)	Presence of Redu Recent Iron Reduc Stunted or Stresse Other (Explain in F	ced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) Depth (inches	Goils (C6) (LRR A)	Shallow Aquita X FAC-Neutral ⊺ Raised Ant Mo Frost-Heave H Wetland	ard (D3) Test (D5) bunds (D6) (LRR A) Hummocks (D7)	No
Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V Sparsely Ve Field Observatio Surface Water F Water Table Pre	Crust (B4) (ss (B5) Cracks (B6) /isible on Aerial Imagery getated Concave Surfa ons: Present? Yes esent? Yes	ce (B8)	Presence of Redu Recent Iron Reduc Stunted or Stresse Other (Explain in F No X No X	ced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) Depth (inches Depth (inches	Soils (C6) (LRR A) s): s):	Shallow Aquita X FAC-Neutral T Raised Ant Me Frost-Heave H Wetland Hydrology	ard (D3) Test (D5) Dunds (D6) (LRR A)	No
Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V Sparsely Ve Field Observation Surface Water F	Crust (B4) (s (B5)) Cracks (B6) /isible on Aerial Imagery getated Concave Surfa ons: Present? Yes esent? Yes ent? Yes	ce (B8)	Presence of Redu Recent Iron Reduc Stunted or Stresse Other (Explain in F	ced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) Depth (inches	Soils (C6) (LRR A) s): s):	Shallow Aquita X FAC-Neutral ⊺ Raised Ant Mo Frost-Heave H Wetland	ard (D3) Test (D5) bunds (D6) (LRR A) Hummocks (D7)	No
Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V Sparsely Ve Field Observatio Surface Water F Water Table Pres	Crust (B4) (s (B5)) Cracks (B6) /isible on Aerial Imagery getated Concave Surfa ons: Present? Yes esent? Yes ent? Yes	ce (B8)	Presence of Redu Recent Iron Reduc Stunted or Stresse Other (Explain in F No X No X	ced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) Depth (inches Depth (inches	Soils (C6) (LRR A) s): s):	Shallow Aquita X FAC-Neutral T Raised Ant Me Frost-Heave H Wetland Hydrology	ard (D3) Test (D5) bunds (D6) (LRR A) Hummocks (D7)	No
Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V Sparsely Ve Field Observation Surface Water F Water Table Pre Saturation Prese (includes capilla	Crust (B4) (s (B5)) Cracks (B6) /isible on Aerial Imagery getated Concave Surfa ons: Present? Yes esent? Yes ent? Yes	ce (B8)	Presence of Redu Recent Iron Reduc Stunted or Stresse Other (Explain in F No X No X No X	ced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) Depth (inches Depth (inches Depth (inches	Soils (C6) (LRR A) (5): (5): (5):	Shallow Aquita X FAC-Neutral Raised Ant Me Frost-Heave H Wetland Hydrology Present?	ard (D3) Test (D5) bunds (D6) (LRR A) Hummocks (D7)	No
Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V Sparsely Ve Field Observation Surface Water F Water Table Pre Saturation Prese (includes capilla	Crust (B4) (s (B5)) Cracks (B6) Visible on Aerial Imagery getated Concave Surfa ons: Present? Yes esent? Yes ent? Yes ry fringe)	ce (B8)	Presence of Redu Recent Iron Reduc Stunted or Stresse Other (Explain in F No X No X No X	ced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) Depth (inches Depth (inches Depth (inches	Soils (C6) (LRR A) (5): (5): (5):	Shallow Aquita X FAC-Neutral Raised Ant Me Frost-Heave H Wetland Hydrology Present?	ard (D3) Test (D5) bunds (D6) (LRR A) Hummocks (D7)	No
Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V Sparsely Ve Field Observation Surface Water F Water Table Pres Saturation Prese (includes capilla Describe Recon Remarks:	Crust (B4) (s (B5)) Cracks (B6) Visible on Aerial Imagery getated Concave Surfa ons: Present? Yes esent? Yes ent? Yes ry fringe)	ce (B8)	Presence of Redu Recent Iron Reduc Stunted or Stresse Other (Explain in F No X No X No X	ced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) Depth (inches Depth (inches Depth (inches	Soils (C6) (LRR A) (5): (5): (5):	Shallow Aquita X FAC-Neutral Raised Ant Me Frost-Heave H Wetland Hydrology Present?	ard (D3) Test (D5) bunds (D6) (LRR A) Hummocks (D7)	No
Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V Sparsely Ve Field Observation Surface Water F Water Table Pres Saturation Prese (includes capilla Describe Recon Remarks:	Crust (B4) (ss (B5)) Cracks (B6) /isible on Aerial Imagery getated Concave Surfa ons: Present? Yes esent? Yes ent? Yes ry fringe) rded Data (stream gau	ce (B8)	Presence of Redu Recent Iron Reduc Stunted or Stresse Other (Explain in F No X No X No X	ced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) Depth (inches Depth (inches Depth (inches	Soils (C6) (LRR A) (5): (5): (5):	Shallow Aquita X FAC-Neutral Raised Ant Me Frost-Heave H Wetland Hydrology Present?	ard (D3) Test (D5) bunds (D6) (LRR A) Hummocks (D7)	No
Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V Sparsely Ve Field Observation Surface Water F Water Table Pres Saturation Prese (includes capilla Describe Recon Remarks:	Crust (B4) (ss (B5)) Cracks (B6) /isible on Aerial Imagery getated Concave Surfa ons: Present? Yes esent? Yes ent? Yes ry fringe) rded Data (stream gau	ce (B8)	Presence of Redu Recent Iron Reduc Stunted or Stresse Other (Explain in F No X No X No X	ced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) Depth (inches Depth (inches Depth (inches	Soils (C6) (LRR A) (5): (5): (5):	Shallow Aquita X FAC-Neutral Raised Ant Me Frost-Heave H Wetland Hydrology Present?	ard (D3) Test (D5) bunds (D6) (LRR A) Hummocks (D7)	No

Project/Site:	Federal Way City Center A	ccess	City/County:	Federal Way/I	King	Sampling Date: 8/19/2020
Applicant/Owner:	City of Federal Way				State: Washington	Sampling Point: W11-SP-18
Investigator(s):	Per Johnson, Aaron Th	om			Section, Township, Range:	T21N R04E S09
Landform (hillslop	e, terrace, etc.):	hills	slop	Local re	elief (concave, convex, none):	none Slope (%): <3%
Subregion (LRR)	Northwest Forests and	Coast (LRR A)	Lat: 47.316986	Lo	ng: -122.295593	Datum: NAD 1983 (HARN)
Soil Unit (Name-I	D-Hydric Rating):	Alderwood gravelly	sandy loam	- AgC	- Not Hydric NWI cl	assification: None
Are climatic / hyd	rologic conditions on the si	te typical for this time o	of year?	Y	íes X No	(If no, explain in Remarks)
Are Vegetation	, Soil				re "Normal Circumstances" prese	ent? Yes X No
Are Vegetation	, Soil	, or Hydrolog	ynaturally probl	ematic? (I	If needed, explain any answers in	Remarks.)
SUMMARY C	OF FINDINGS – Atta	ch site map show	ving sampling poi	int locations	, transects, important fea	atures, etc.
Hydrophytic Veg	etation Present?	Yes	No X			
Hydric Soil Prese	ent?	Yes X	No	Is the Sampl		
Wetland Hydrolo	gy Present?	Yes	No X	within a Wet	tland? Yes	NoX
Precipitation:						
According to the	Seattle Tacoma Airport NC	AA weather station, pr	ecipitation was within the	e normal range fo	or the three months prior to the sit	e visit.
Remarks:						
	approximately 20ft west of	W11-SP-17				
VEGETATIO	N					
	-	Absolut	e Dominant	Indicator	Dominance Test worksheet	:
Tree Stratum	(Plot size:	r=3m) % Cove		Status	Number of Dominant Species	
<sup>1.</sup> Fraxinus lati		<u>80%</u>	Yes	FACW	That Are OBL, FACW, or FAC	
2. Alnus rubra		20%	No	FAC		<u> </u>
3. Acer macrop	byllum	15%		FACU	Total Number of Dominant	
4.	nynan	1370		TAGO	Species Across All Strata:	4 (B)
		115%	= Total Cover			<u> </u>
Sapling/Shrub S	stratum (Plot size:	=2m)			Percent of Dominant Species	
1. Lonicera inv	<u> </u>	<u> </u>	Yes	FAC	That Are OBL, FACW, or FAC	
<ol> <li>Vaccinium o</li> </ol>		10%	Yes	UPL	Prevalence Index workshee	. ((13)
<ol> <li>Rubus spect</li> </ol>		10 %	No	FAC	Total % Cover of:	Multiply by:
4. Spiraea dou		2%	No No	FACW	OBL species	x 1 =
5.	giash				FACW species	x 2 =
		32%	= Total Cover		FAC species	x 3 =
Herb Stratum	(Plot size:	=1m)			FACU species	x 4 =
1. Rubus ursini	`` <u></u>	<u>- 1111/</u> 60%	Yes	FACU	UPL species	x 5 =
2.				1400	Column Totals:	(A) (B)
3.					Prevalence Index	<b>_</b> ```
4.					Hydrophytic Vegetation Ind	
5.					1 - Rapid Test for Hydro	
6.					2 - Dominance Test is >	., .
7.					3 - Prevalence Index is ≤	
8.						ations <sup>1</sup> (Provide supporting
9.					data in Remarks or o	
10.					5 - Wetland Non-Vascula	
11.					Problematic Hydrophytic	
		60%	= Total Cover		<sup>1</sup> Indicators of hydric soil and v	
Woody Vine Stra	atum (Plot size: <u>r=2</u>				be present.	, ,,
1. <u>none</u>						
2					Hydrophytic	
% Baro Ground	in Herb Stratum	40%	= Total Cover		Vegetation Yes Present?	sNoX
% Bare Ground		40%			Fresent	
Remarks:						
Paran	netrix					

SOIL							Sampling Point:	W11-SP-18
	ption (Describe to the	depth needed	d to document the ind	licator or con	firm the absence	of indicators):	j · · · · · ·	
Depth	 Matrix				Features	,		
(inches)	Color (moist)	%	Color (moist)	 %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-5	10YR 3/2	100		70	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		L	Komanto
5-10	10YR 3/2	85	10YR 3/6	15	С	M		
			101K 3/0	10		IVI	L	
10+	10YR 5/1	100	· ·				L	
							<u> </u>	
			. <u></u>					
<sup>1</sup> Type: C=Conc	entration, D=Depletion,	RM=Reduced	Matrix. CS=Covered o	or Coated San	d Grains. <sup>2</sup> Locat	tion: PL=Pore Lining	a. M=Matrix.	
• •							clay); - = light (less clay)	
	licators (Applicable to				- mie, vi – very m		oblematic Hydric Soils <sup>3</sup> :	
-		an Lixixs, uni						
Histosol (A			Sandy Redox (S5)			2 cm Muck (		
Histic Epipe			Stripped Matrix (S	,			Material (TF2)	
Black Histic	c (A3)		Loamy Mucky Min	eral (F1) (exce	ept MLRA 1)		v Dark Surface (TF12)	
Hydrogen S	Sulfide (A4)		Loamy Gleyed Ma	trix (F2)		Other (Expla	in in Remarks)	
Depleted B	elow Dark Surface (A11	)	Depleted Matrix (F	3)				
Thick Dark	Surface (A12)		X Redox Dark Surfa	ce (F6)		<sup>3</sup> Indicators of hydr	rophytic vegetation and wetlan	d
Sandy Muc	ky Mineral (S1)		Depleted Dark Su	rface (F7)			e present, unless disturbed or	u
Sandy Gley	/ed Matrix (S4)		Redox Depressior	ns (F8)		problematic.		
Restrictive Lav	/er (if present):							
	ype:					Hydric Soil		
						-	Vec V	Na
Depth (inches	5). 	-				Present?	Yes X	No
HYDROLOG								
Wetland Hydro	ology Indicators:							
Primary Indicato	ors (minimum of one req	uired; check a	all that apply)			Secondary Indica	tors (2 or more required)	
Surface Wa	ater (A1)		Water-Stained Lea	aves (B9) (exc	ept MLRA	Water-Staine	ed Leaves (B9) (MLRA 1, 2,	
	r Table (A2)		1, 2, 4A, and 4E			4A, and 4		
Saturation (			Salt Crust (B11)			Drainage Pa	,	
Water Mark	· · /		Aquatic Invertebra	ites (B13)			Water Table (C2)	
	Deposits (B2)		Hydrogen Sulfide				isible on Aerial Imagery (C9)	
Drift Depos	,		Oxidized Rhizosph	. ,	(ing Roots (C3)		Position (D2)	
			Presence of Redu	-	Ving Roots (C3)			
	or Crust (B4)		_	. ,		Shallow Aqu		
Iron Deposi			Recent Iron Reduc			FAC-Neutral		
	oil Cracks (B6)		Stunted or Stresse		(LRR A)		Mounds (D6) (LRR A)	
Inundation V	Visible on Aerial Imager		Other (Explain in F	Remarks)		Frost-Heave	Hummocks (D7)	
	egetated Concave Surfa	ice (B8)						
	iono							
	lions.		No X	Depth (inche	s):	Wetland		
Sparsely Ve								
Sparsely Ve Field Observat	Present? Yes				s):	Hydrology	Yes	No X
Sparsely Ve Field Observati Surface Water Water Table Pr	Present? Yes resent? Yes		No X	Depth (inche		Hydrology Present?	Yes	No <u>X</u>
Sparsely Ve Field Observati Surface Water Water Table Pr Saturation Pres	Present? Yes resent? Yes sent? Yes					Hydrology Present?	Yes	No <u>X</u>
Sparsely Ve Field Observati Surface Water Water Table Pr	Present? Yes resent? Yes sent? Yes		No X	Depth (inche			Yes	No <u>X</u>
Sparsely Ve Field Observati Surface Water Water Table Pr Saturation Pres (includes capilla	Present? Yes resent? Yes sent? Yes		No X No X	Depth (inche Depth (inche	s):	Present?	Yes	No <u>X</u>
Sparsely Ve Field Observati Surface Water Water Table Pr Saturation Pres (includes capilla	Present? Yes resent? Yes sent? Yes ary fringe)		No X No X	Depth (inche Depth (inche	s):	Present?	Yes	No <u>X</u>
Sparsely Ve Field Observati Surface Water Water Table Pr Saturation Pres (includes capilla	Present? Yes resent? Yes sent? Yes ary fringe)		No X No X	Depth (inche Depth (inche	s):	Present?	Yes	No <u>X</u>
Sparsely Ve Field Observati Surface Water Water Table Pr Saturation Pres (includes capilla Describe Reco	Present? Yes resent? Yes sent? Yes ary fringe)		No X No X	Depth (inche Depth (inche	s):	Present?	Yes	No <u>X</u>
Sparsely Ve Field Observati Surface Water Water Table Pr Saturation Pres (includes capilla Describe Reco	Present? Yes resent? Yes sent? Yes ary fringe)		No X No X	Depth (inche Depth (inche	s):	Present?	Yes	No <u>X</u>
Sparsely Ve Field Observati Surface Water Water Table Pr Saturation Pres (includes capilla Describe Reco	Present? Yes resent? Yes sent? Yes ary fringe)		No X No X	Depth (inche Depth (inche	s):	Present?	Yes	No <u>X</u>

US Army Corps of Engineers Western Mountains, Valleys, and Coast Region (Version 2.0)

Project/Site:	Federal Way City Center A	ccess		City/County:	Federal Way/	King	Sampling Date:	8/19/2020
Applicant/Owner:	City of Federal Way					State: Washington	Sampling Point:	W12-SP-19
Investigator(s):	Per Johnson, Aaron Th	Iom				Section, Township, Range:		16
Landform (hillslop			alley/depres	ssion	_			e (%): <3%
Subregion (LRR)	Northwest Forests and			Lat: 47.312946	_ Lo	ong: -122.299057		D 1983 (HARN)
Soil Unit (Name-I	D-Hydric Rating):	Arents, Al	derwood m	aterial -	AmC	- Not Hydric NWI cla	assification:	None
Are climatic / hyd	rologic conditions on the si	te typical for this	s time of ye	ar?	Y	/es X No	(If no, explain in Rema	arks)
Are Vegetation	, Soil	, or H	ydrology	significantly dis	turbed? A	Are "Normal Circumstances" prese	nt? Yes	<u>X</u> No
Are Vegetation	, Soil	, or H	ydrology	naturally proble	ematic? (	If needed, explain any answers in	Remarks.)	
SUMMARY C	OF FINDINGS – Atta	ch site map	showin	g sampling poir	nt locations	, transects, important fea	atures, etc.	
Hydrophytic Veg	etation Present?	Yes	х	No				
Hydric Soil Prese	ent?	Yes	Х	No	Is the Samp	led Area		
Wetland Hydrolo	gy Present?	Yes	Х	No	within a Wet	tland? Yes X	No	_
Precipitation:					•			<u>-</u>
	Seattle Tacoma Airport NC	AA weather sta	tion, precip	itation was within the	normal range for	or the three months prior to the site	e visit.	
Remarks:	bhound on romn and LE m	ain traval lanca	SW of 220	th interportion				
Between 1-5 Sout	hbound on-ramp and I-5 m	am traver lanes,	500 01 320	In Intersection				
VEGETATIO	N							·
			Absolute	Dominant	Indicator	Dominance Test worksheet	:	
Tree Stratum	(Plot size:	<u>r=3m)</u>	% Cover	Species?	Status	Number of Dominant Species		
1. <u>none</u>						That Are OBL, FACW, or FAC	C: <u>2</u>	(A)
2.								
3.						Total Number of Dominant		
4.						Species Across All Strata:	2	(B)
			0% =	= Total Cover				
Sapling/Shrub S	Stratum (Plot size:	<u>r=2m)</u>				Percent of Dominant Species		
<sup>1.</sup> none						That Are OBL, FACW, or FAC	C: <u>100%</u>	<u>∕∘</u> (A/B)
2.						Prevalence Index workshee	t:	
3.						Total % Cover of:	Multiply by:	_
4.						OBL species	x 1 =	
5.						FACW species	x 2 =	
		_	0% =	= Total Cover		FAC species	x 3 =	
<u>Herb Stratum</u>	(Plot size:	<u>r=1m)</u>				FACU species	x 4 =	
1. Juncus effus	sus		65%	Yes	FACW	UPL species	x 5 =	
2. <u>Phalaris aru</u>	ndinacea		30%	Yes	FACW	Column Totals:	(A)	(B)
3. <u>Agrostis stol</u>	lonifera		10%	No	FAC	Prevalence Index	= B/A =	
4.						Hydrophytic Vegetation Ind	icators:	
5.						1 - Rapid Test for Hydro	phytic Vegetation	
6.						X 2 - Dominance Test is >	50%	
7.						3 - Prevalence Index is ≤	3.0 <sup>1</sup>	
8.						4 - Morphological Adapta	ations <sup>1</sup> (Provide support	ting
9.				·		data in Remarks or o	n a separate sheet)	
10						5 - Wetland Non-Vascula	ar Plants <sup>1</sup>	
11						Problematic Hydrophytic	Vegetation (Explain) <sup>1</sup>	
			105% =	= Total Cover		<sup>1</sup> Indicators of hydric soil and v	vetland hydrology must	
Woody Vine Stra	atum (Plot size: r=2	<u>m)</u>				be present.		
1. <u>none</u> 2.						Hydrophytic		
Z.			0% =	= Total Cover		Vegetation Yes	s X No	
% Bare Ground	in Herb Stratum	0%	070			Present?		
Remarks:								
Paran	netrix							

SOIL							Sampling Point:	W12-SP-19
Profile Descript	tion (Describe to the	depth needed	to document the inc	dicator or conf	irm the absenc	e of indicators):		
Depth	Matrix	< .		Redox	Features			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-16+	10YR 4/1	90	10YR 4/6	10	C	M		
	ntration, D=Depletion,	DM-Doducod N	Jotrix CS=Covered	ar Coatad Sand		ation: PL=Pore Lining,	M-Motrix	
							clay); - = light (less clay)	
	cators (Applicable to				– lille, vi – very		blematic Hydric Soils <sup>3</sup> :	
-		all LKKS, utile						
Histosol (A1)		_	Sandy Redox (S5	·		2 cm Muck (A		
Histic Epiped		_	Stripped Matrix (S	,		Red Parent M		
Black Histic		_	Loamy Mucky Mir		ot MLRA 1)		Dark Surface (TF12)	
Hydrogen Su		、	Loamy Gleyed Ma			Other (Explain	n in Remarks)	
·	low Dark Surface (A11	)	X Depleted Matrix (I	-				
	Surface (A12)	_	Redox Dark Surfa				ophytic vegetation and wetland	
	y Mineral (S1)	_	Depleted Dark Su				present, unless disturbed or	
Sandy Gleye	ed Matrix (S4)	_	Redox Depressio	ns (fo)		problematic.		
Restrictive Laye	er (if present):							
	pe:					Hydric Soil		
Depth (inches):		_				Present?	Yes X	No
HYDROLOG								
Wetland Hydrolo								
Primary Indicator	s (minimum of one req	uired; check all	that apply)			Secondary Indicate	ors (2 or more required)	
Surface Wat	er (A1)	_	Water-Stained Le	aves (B9) (exce	ept MLRA	Water-Stained	d Leaves (B9) (MLRA 1, 2,	
High Water	Table (A2)		1, 2, 4A, and 4	B)		4A, and 4B	)	
Saturation (A	,		Salt Crust (B11)			Drainage Patt	erns (B10)	
Water Marks	s (B1)	_	Aquatic Invertebra			Dry-Season V	Vater Table (C2)	
Sediment De	eposits (B2)	_	Hydrogen Sulfide			Saturation Vis	ible on Aerial Imagery (C9)	
Drift Deposit		-	X_Oxidized Rhizosp	•	ng Roots (C3)	X Geomorphic F		
Algal Mat or		-	Presence of Redu	. ,		Shallow Aquit		
Iron Deposits		-	Recent Iron Redu			X FAC-Neutral		
X Surface Soil		-	Stunted or Stress		(LRR A)		ounds (D6) (LRR A)	
	isible on Aerial Imager		Other (Explain in	Remarks)		Frost-Heave I	Hummocks (D7)	
Sparsely Ve	getated Concave Surfa	ace (B8)						
Field Observation	ons:							
Surface Water P	Present? Yes	N	No <u>X</u>	Depth (inches	):	Wetland		
Water Table Pre	esent? Yes	1	No <u>X</u>	Depth (inches	):	Hydrology	Yes X	No
Saturation Prese		I	No <u>X</u>	Depth (inches	):	Present?		
(includes capillar	y minge)							
Describe Recor	ded Data (stream ga	uge, monitorin	g well, aerial photo	s, previous ins	pections), if av	ailable:		
			•	-				
Remarks: Assumed inundat	ted/saturated for at lea	st 5% of arowin	nd season					
, source mundal			9 3003011.					

Investigation         Exc Answer Chart         Section Transform (Alloy encoded): Barger         T21N RM2 518           Storegord (LRR)         Northwest Provide and Coast (LRR A)         Intel 7 3728280         Long: -122 208882         Dahr:: NAD 1983 (HARN)           Storegord (LRR)         Northwest Provide and Coast (LRR A)         Arr. Allowed Coast (LRR A)         Northwest Provide Coast (LRR A)	Project/Site:	Federal Way City Center Ac	cess	City/County:	Federal Way/Ki	ng	Sampling Date: 8/19	9/2020
Landbern histops terrac. etc.) <u>histops</u> Local relations sovers rook <u>rook</u> <u>States</u> <u>sovers</u> <u>rook</u> <u>States</u> <u>sovers</u> <u>rook</u> <u>sovers</u> <u>rook</u> <u>sovers</u> <u>rook</u> <u>sovers</u> <u>rook</u> <u>sovers</u> <u>rook</u> <u>sovers</u> <u>rook</u> <u>rook</u> <u>sovers</u> <u>rook</u> <u>roo</u>	Applicant/Owner:	City of Federal Way				State: Washington	Sampling Point: V	V12-SP-20
Satergon (LPR)         Northwest Provest and Coast (LPR A)         Lat, <u>7733900</u> Long, <u>-122,298880</u> Delam: MAD (188 (LPR))           Application         Anone, Advector and the provest on the site specie (the the time of year?         Amone, Advector and the advector ad	Investigator(s):	Per Johnson, Aaron Tho	m		Se	ection, Township, Range:	T21N R04E S16	
Bitchegion (LRR)         Northwest Press         Cost (LRRA)         Lat.         712300         Lurg	Landform (hillslope	e, terrace, etc.):	hillslop	Э			none Slope (%	): 5-10%
Ave dmaint         (Yes Lagebalan)         Ave the hybrid to the time of year?         Yes	Subregion (LRR):	Northwest Forests and C	Coast (LRR A)	Lat: 47.312950	 Long	g: -122.298889	Datum: NAD 19	83 (HARN)
Are Very Very Line       Sol       or Hydrology       ingrid problem 10 <sup>2</sup> Are Very Very Line       Yes       X No         SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.       Incedet, etchain any matures in Remarks)       No       X       No <td< td=""><td>Soil Unit (Name-I</td><td>D-Hydric Rating):</td><td>Arents, Alderwood r</td><td>nateria -</td><td>- AmC -</td><td>Not Hydric NWI cl</td><td>assification: Non</td><td>ne</td></td<>	Soil Unit (Name-I	D-Hydric Rating):	Arents, Alderwood r	nateria -	- AmC -	Not Hydric NWI cl	assification: Non	ne
Are Vegetation	Are climatic / hyd	rologic conditions on the site	e typical for this time of y	ear?	Yes	s X No	(If no, explain in Remarks)	
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.         Hydrochydrogy Present?       Yes       No       X         Woland Hydrobys Present?       Yes       No       X         Woland Hydrobys Present?       Yes       No       X         Woland Hydrobys Present?       Yes       No       X         More Zation Present?       Yes       No       X         More Zation Present?       Yes       No       X         Reserver       Yes       No       X         Woland Hydrobys Present?       Yes       No       X         Reserver       Yes       No       X         Reserver       No       X       Yes       No         Reserver       Aboluto       Dominance Test worksheet:       Nome of Dominant Species         1       Account       Other area       Other = Total Cover       Preveloation         2       Other = Total Cover       Preveloation       Notale Xera       Q(b)         3       Other = Total Cover       Preveloation       Notale Xera       Q(b)         4       Other = Total Cover       No       Preveloation       No       X 2         4       Other = Total Cover	Are Vegetation	, Soil	, or Hydrology	significantly dis		e "Normal Circumstances" prese	ent? Yes X	No
Hydrophytick Vegetation Present?       Yes       No       X       within a Wetland?       Yes       No       X         Precipitation:       No       X       within a Wetland?       Yes       No       X         Precipitation:       No       X       within a Wetland?       Yes       No       X         Precipitation:       No       X       Mode       X       No       X         Precipitation:       No       X       Mode       Dominant       Frecipitation       No       X         Results:       Wetland 12: goond sample piol.       Dominant       Indicator       Dominanto       Test Workheet:       Test Workheet:       Test Workheet:       C       (P)         1       none       0%       = Total Cover       Precise Across Al Stratu:       2       (P)         2       0%       = Total Cover       Precises:       X1 =       C       (P)       Precises:       X1 =       C       (P)         2       0%       = Total Cover       Precises:       X1 =       C       (P)       P       (P)       P       (P)       P       (P)       (P)       (P)       (P)       (P)       (P)       (P)       (P)       (P) <t< td=""><td>Are Vegetation</td><td>, Soil</td><td>, or Hydrology</td><td>naturally proble</td><td>ematic? (If r</td><td>needed, explain any answers in</td><td>Remarks.)</td><td></td></t<>	Are Vegetation	, Soil	, or Hydrology	naturally proble	ematic? (If r	needed, explain any answers in	Remarks.)	
Hydric Sol Present?       Yes       No       X       Is the Sampled Area         Watered Hydrology Present?       Yes       No       X       within a Wetland?       Yes       No       X         Matered Hydrology Present?       Yes       No       X       within a Wetland?       Yes       No       X         Matered Hydrology Present?       Yes       No       X       Mo       X       Mo       X         Matered Hydrology Present?       Yes       No       X       Mo       X       Mo       X         Matered Hydrology Present?       No       X       Model       Model       No       X         Matered Hydrology Present?       No       X       Model       Model       No       X         Matered Hydrology Present?       No       X       Model       Model       No       X         Matered Hydrology Present?       No       X       Section X       No       X       X         Matered Hydrology Present?       Model       Deminance Test worksheet:       No       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X	SUMMARY C	F FINDINGS – Attac	h site map showir	ng sampling poi	nt locations, t	transects, important fea	atures, etc.	
Watand Hydrology Present?         Vis         No         X         within a Wetland?         Vis         No         X           Precipitation: According to the Stattle Tacoma Airport NOAA weather station, precipitation was within the normal range for the three months prior to the site visit.         No         X         X           Remarks: Weater 12 upland sample plot.         VECETATION         Dominance Test worksheet: Number of Dominant Species         No         X         (A)           1         none         0%         = Total Cover         Status         Percention of Dominant Species         (A)         (B)           3         0%         = Total Cover         Prove fact and the Cover of Multiply by Cover sheet: Total Number of Dominant Species         (A)         (B)           4         0%         = Total Cover         Prove fact and the Cover of Multiply by Cover sheet: Total Number of Dominant Species         (A)         (B)           1         none         0%         = Total Cover         FAC         (D)         (A)         (B)           2         0%         0%         Yes         FAC         (D)         (A)         (B)           3         0.5 and number of Dominant Species         X = FAC         (A)         (B)         (A)         (B)           4         0%         FAC </td <td>Hydrophytic Veg</td> <td>etation Present?</td> <td>Yes X</td> <td>No</td> <td></td> <td></td> <td></td> <td></td>	Hydrophytic Veg	etation Present?	Yes X	No				
Atomic model         Top         Top <t< td=""><td>Hydric Soil Prese</td><td>ent?</td><td>Yes</td><td>No X</td><td>Is the Sample</td><td>d Area</td><td></td><td></td></t<>	Hydric Soil Prese	ent?	Yes	No X	Is the Sample	d Area		
According to the Seattle Tacona Airport NOAA weather station, precipitation was within the normal range for the three months plant to the site visit.         Remarks:         Wetland 12 upland sample plot.         VECETATION         The Stratum       (Pot size: r_Sm)         1, none       Dominant         3,       Dominant         4,       0% = Total Cover         3,       0% = Total Cover         3,       0% = Total Cover         9,       0% = Total Cover         1, none       0% = Total Cover         1, total Scatter       100% (Court Maliply by monther total Scatter	Wetland Hydrolo	gy Present?	Yes	No X	within a Wetla	ind? Yes	<u>No X</u>	
According to the Seattle Tacona Airport NOAA weather station, precipitation was within the normal range for the three months plant to the site visit.         Remarks:         Wetland 12 upland sample plot.         VECETATION         The Stratum       (Pot size: r_Sm)         1, none       Dominant         3,       Dominant         4,       0% = Total Cover         3,       0% = Total Cover         3,       0% = Total Cover         9,       0% = Total Cover         1, none       0% = Total Cover         1, total Scatter       100% (Court Maliply by monther total Scatter	Precipitation:							
Weter 1 2 upland sample pot.         VECETATION         Tree Stratum (Pot size: r=3m) // S Cover Subscies?         1. none	•	Seattle Tacoma Airport NOA	A weather station, preci	pitation was within the	normal range for	the three months prior to the sit	e visit.	
Weter 1 2 upland sample pot.         VECETATION         Tree Stratum (Pot size: r=3m) // S Cover Subscies?         1. none								
VEGETATION         Tree Stratum       (Plot size: (=3m)       4u Cour       Spacing?       Stratum       Number of Dominant Spacines         2		d sample plot						
Abackule       Dominant       Indicator       Dominance Test worksheet:         1, none       3.								
Abackule       Dominant       Indicator       Dominance Test worksheet:         1, none       3.								
Absolute       Dominant       Indicator       Dominance Test worksheet:         1, none       2.								
Tree Stratum       (Plot size:       r=300       %: Cover       Spacing 2       Statua       Number of Dominant Spacies         1       none	VEGETATION	N	•• • •					
1       none								
2       Indice Oct. Theor, if the c.       2       (n)         3.       Indice Oct. Theor, if the c.       2       (n)         3.       Indice Oct. Theor, if th		(Plot size: <u>r=</u>	<u>-3m) % Cover</u>	Species?	<u>Status</u>			
3.	none					That Are OBL, FACW, or FAC	C: <u>2</u>	(A)
4.       0%       = Total Cover         SapinolShrub Stratum       (Plot size: r=2m)       0%         1.       none       0%         2.       0%       = Total Cover         Prevalence Index worksheet:       102%       (A/B)         1.       Holcus Ianatus       45%       Yes       FAC         2.       Agrosits stoonifera       45%       Yes       FAC         3.       Cirsum arvense       5%       No       FAC       Prevalence Index is 3.0 <sup>1</sup> 4.       Phalar's arundinacea       5%       No       FAC       Prevalence Index is 3.0 <sup>1</sup> 3.       Cirsum arvense       5%       No       FAC       Prevalence Index is 3.0 <sup>1</sup> 4.       Phalar's arundinacea       5%       No       FAC       Prevalence Index is 3.0 <sup>1</sup> 3.       Prevalence Index is 3.0 <sup>1</sup> 100%       = Total Cover       Hydrophytic Vegetation Indicators:         1.       none       0%	2.							
3apling/Shrub Stratum       (Plot size: r_2m)         1, none       Percent of Dominant Species         3.       Total Ace OBL, FACW, or FAC:       100% (A/B)         Prevalence Index worksheet:       Total % Cover of:       Multiply by:         0%       = Total Cover       FAC         Prevalence Index worksheet:       Total % Cover of:       Multiply by:         0%       = Total Cover       FAC       FAC species       x 1 =         1.       Heter Stratum       (Plot size: r=1m)       FAC       FAC       Species       x 3 =         2.       Agrostis stolonifera       45%       Yes       FAC       Prevalence Index worksheet:       (A)       (B)         3.       Circuim avense       5%       No       FAC       Prevalence Index is 3.0       (B)         3.       Circuim avense       5%       No       FAC       Prevalence Index is 3.0       (B)         5.       Statum avense       5%       No       FAC       Prevalence Index is 3.0       (B)         9.       Statum avense       5%       No       FAC       Prevalence Index is 3.0       (B)         10.       Statum avense       5%       No       FAC       Prevalence Index is 3.0       (C)	J.							
Sapilna/Shrub Stratum       (Plot size: r=2m)         1       none         2.       Percent of Dominant Species         3.       That Are OBL_FACW, or FAC: 100% (A/B)         4.       Prevalence Index worksheet:         Tata %c OBL_FACW, or FAC: 100% (A/B)         7.       O% = Total Cover         4.       FAC         7.       O% = Total Cover         6.       Say         7.       Ominant Species         8.       Ominant Species         9.       Ominant Species         10.       Ominant Species         11.       Ominant Species         12.       Ominant Species         13.       Provalence Index is \$3.0°         14.       Hodrophytic Vegetation Indicators:	4.					Species Across All Strata:	2	_(B)
1. none	aa a			= Total Cover				
2.       India       In	1	tratum (Plot size: <u>r=</u>	<u>-2m)</u>					
3.	none						<u> </u>	(A/B)
4.								
5.       0%       = Total Cover       FACW species       x 2 =	J.							
Herb Stratum       (Plot size: r=1m)       0%       = Total Cover       FAC species       x 3 =	4. 							
Herb Stratum       (Plot size: r=1m)         1.       Holcus lanatus         2.       Agrostis stolonifera         3.       Cirsium arvense         5.       S%         6.       S%         7.       S%         8.       S%         9.       Secondary Signature         10.       Secondary Signature         11.       Secondary Signature         12.       Secondary Signature         13.       Cirsium arvense         5.       S%         6.       S%         7.       Secondary Signature         8.       Secondary Signature         9.       Secondary Signature         10.       Secondary Signature         11.       Secondary Signature         12.       Secondary Signature         13.       Cirsium arvense         14.       Non Stratum         15.       Secondary Signature         16.       Secondary Signature         10.       Secondary Signature         11.       Secondary Signature         12.       Secondary Signature         13.       Secondary Signature         14.       Non-Vascula	ə. 							
1.       Holcus lanatus       45%       Yes       FAC         2.       Agrostis stolonifera       45%       Yes       FAC         3.       Cirsium arvense       5%       No       FAC         4.       Phalaris arundinacea       5%       No       FAC         5.       5%       No       FAC         6.	Harb Stratum			= Total Cover				
2.       Agrostis stolonifera       45%       Yes       FAC       Column Totals:       (A)       (B)         3.       Cirsium arvense       5%       No       FAC       Prevalence Index = B/A =       (B)         4.       Phalaris arundinacea       5%       No       FAC       Hydrophytic Vegetation Indicators:       1 - Rapid Test for Hydrophytic Vegetation         5.                6.                9.                10.                11.                12.                10.                12.                10.        <		· -			540			
3.       Cirsium arvense       5%       No       FAC         4.       Phalaris arundinacea       5%       No       FAC         5.								(B)
Hydrophytic Vegetation Indicators:         1       Remarks:	<u>, igi eene eten</u>							(D)
5.       1 - Rapid Test for Hydrophytic Vegetation         6.       X 2 - Dominance Test is >50%         7.       3 - Prevalence Index is ≤3.01         8.       4 - Morphological Adaptations1 (Provide supporting data in Remarks or on a separate sheet)         10.       5 - Wetland Non-Vascular Plants1         11.       100% = Total Cover         Woody Vine Stratum       (Plot size: r=2m)         2.       0% = Total Cover         Ware Ground in Herb Stratum       0%								
6. X 2 - Dominance Test is >50%   7. 3 - Prevalence Index is \$3.0 <sup>1</sup> 8. 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)   10. 5 - Wetland Non-Vascular Plants <sup>1</sup> 11. 100%   2. 100%   3. Problematic Hydrophytic Vegetation (Explain) <sup>1</sup> 1. 100%   2. 0%   are Ground in Herb Stratum 0%	T narano aran	lainacea	3%	INO	FACW			
7.       3 - Prevalence Index is \$3.0 <sup>1</sup> 8.       4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)         10.       5 - Wetland Non-Vascular Plants <sup>1</sup> 11.       100%         2.       100%         2.       0%         4. Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)         5. Wetland Non-Vascular Plants <sup>1</sup> Problematic Hydrophytic Vegetation (Explain) <sup>1</sup> 1. none         2.       0%         9.       0%         9.       0%         9.       100%         9.       100%         9.       100%         9.       100%         9.       100%         9.       100%         9.       100%         9.       100%         9.       100%         9.       100%         9.       100%         9.       100%         9.       100%         9.       100%         9.       100%         9.       100%         9.       100%         9.       10%         9.       10								
8.       4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)         10.       5 - Wetland Non-Vascular Plants <sup>1</sup> 11.       100% = Total Cover         Woody Vine Stratum       (Plot size: r=2m)         1.       100% = Total Cover         Woody Vine Stratum       0% = Total Cover         Weat       0% = Total Cover         Wate       0% = Total Cover         Weat       0% = Total Cover         Weat       0% = Total Cover	7		— — —					
9	8							
10.						· • •	· · · •	
11.       Problematic Hydrophytic Vegetation (Explain) <sup>1</sup> 11.       100%         11.       100%         11.       100%         11.       100%         11.       100%         11.       100%         12.       0%         13.       0%         14.       0%         15.       0%         16.       0%         17.       11.         11.       0%         16.       0%         17.       11.         10.       0%         17.       11.         11.       11.         11.       11.         11.       0%         11.       0%         12.       0%         13.       0%         14.       10%         15.       10%         16.       10%         17.       11.         18.       10%         19.       10%         10.       10%         10.       10%         10.       10%         10.       10%         10.       10%								
Woody Vine Stratum       (Plot size: r=2m)       100%       = Total Cover <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present.         1.       none       0%       = Total Cover       Hydrophytic         Vegetation       Yes       X       No         % Bare Ground in Herb Stratum       0%       = Total Cover       Present?								
Woody Vine Stratum       (Plot size: r=2m)         1. none	···		100%	- Total Cover				
1. <u>none</u>	Woody Vine Stra	tum (Plot size: <u>r=2m</u>					vetiand hydrology must	
Ø%     Ø%     = Total Cover     Vegetation     Yes     X     No       % Bare Ground in Herb Stratum     0%     Present?     Present?								
% Bare Ground in Herb Stratum 0% Present?	2.					Hydrophytic		
Remarks:	<b></b>			= Total Cover		-	3 <u>X</u> No	_
	% Bare Ground	in Herb Stratum	0%			Present?		
Paramotriy	Remarks:							
Paramotriy								
Parametriy								
Parametrix								
	Daram	otriv						

SOIL		Sampling Point: W12-SP-20
Profile Description (Describe to the depth ne	eded to document the indicator or confirm the absence	e of indicators):
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type <sup>1</sup>	Loc <sup>2</sup> Texture <sup>3</sup> Remarks
ype: C=Concentration, D=Depletion, RM=Red	uced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup> Loca	ation: PL=Pore Lining, M=Matrix.
exture: Sa = sand; Si = silt; C = clay; L = loam	or loamy. Texture Modifier: co = coarse; f = fine; vf = very f	fine; + = heavy (more clay); - = light (less clay)
rdric Soil Indicators (Applicable to all LRRs	s, unless otherwise noted):	Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
_Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	<sup>3</sup> Indicators of hydrophytic vegetation and wetland
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	hydrology must be present, unless disturbed or
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	problematic.
estrictive Layer (if present):		
Type:		Hydric Soil
emarks:		Present? Yes No X
emarks: ocated along I-5 road fill prism		Present? Yes No X
emarks: cated along I-5 road fill prism YDROLOGY		Present? Yes No X
emarks: cated along I-5 road fill prism YDROLOGY etland Hydrology Indicators:		
emarks: located along I-5 road fill prism YDROLOGY etland Hydrology Indicators: imary Indicators (minimum of one required; ch		Secondary Indicators (2 or more required)
emarks: cated along I-5 road fill prism YDROLOGY etland Hydrology Indicators: imary Indicators (minimum of one required; ch Surface Water (A1)	Water-Stained Leaves (B9) (except MLRA	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2,
emarks: cated along I-5 road fill prism YDROLOGY etland Hydrology Indicators: imary Indicators (minimum of one required; ch _ Surface Water (A1) _ High Water Table (A2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
marks: cated along I-5 road fill prism YDROLOGY etland Hydrology Indicators: mary Indicators (minimum of one required; ch Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
marks: cated along I-5 road fill prism YDROLOGY etland Hydrology Indicators: mary Indicators (minimum of one required; ch Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
marks:         cated along I-5 road fill prism         YDROLOGY         etland Hydrology Indicators:         imary Indicators (minimum of one required; ch         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
marks:         cated along I-5 road fill prism         YDROLOGY         etland Hydrology Indicators:         imary Indicators (minimum of one required; ch         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
marks:         cated along I-5 road fill prism         YDROLOGY         etland Hydrology Indicators:         mary Indicators (minimum of one required; ch         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
marks: cated along I-5 road fill prism YDROLOGY etland Hydrology Indicators: mary Indicators (minimum of one required; ch Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
marks: cated along I-5 road fill prism YDROLOGY stland Hydrology Indicators: mary Indicators (minimum of one required; ch Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
marks: cated along I-5 road fill prism <b>YDROLOGY</b> etland Hydrology Indicators: mary Indicators (minimum of one required; ch Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
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marks:         cated along I-5 road fill prism         YDROLOGY         etland Hydrology Indicators:         imary Indicators (minimum of one required; ch         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery (B7)         Sparsely Vegetated Concave Surface (B8)         eld Observations:	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Secondary Indicators (2 or more required)
emarks:         cated along I-5 road fill prism         YDROLOGY         etland Hydrology Indicators:         imary Indicators (minimum of one required; ch         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery (B7)         Sparsely Vegetated Concave Surface (B8)         eld Observations:         urface Water Present?         Yes	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C3)         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)	Secondary Indicators (2 or more required)
emarks:         bocated along I-5 road fill prism         YDROLOGY         etland Hydrology Indicators:         imary Indicators (minimum of one required; ch         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery (B7)         Sparsely Vegetated Concave Surface (B8)         eld Observations:         urface Water Present?       Yes         /ater Table Present?       Yes	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C3)         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)	Secondary Indicators (2 or more required)
emarks:         bcated along I-5 road fill prism         YDROLOGY         fetland Hydrology Indicators:         rimary Indicators (minimum of one required; ch         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery (B7)         Sparsely Vegetated Concave Surface (B8)         eld Observations:         surface Water Present?       Yes         vater Table Present?       Yes         saturation Present?       Yes	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C3)         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)	Secondary Indicators (2 or more required)
amarks:         bccated along I-5 road fill prism         YDROLOGY         etland Hydrology Indicators:         imary Indicators (minimum of one required; ch         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery (B7)         Sparsely Vegetated Concave Surface (B8)         eld Observations:         urface Water Present?       Yes         /ater Table Present?       Yes         includes capillary fringe)       Yes	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C3)         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)	Secondary Indicators (2 or more required)
amarks:         bccated along I-5 road fill prism         YDROLOGY         etland Hydrology Indicators:         imary Indicators (minimum of one required; ch         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery (B7)         Sparsely Vegetated Concave Surface (B8)         eld Observations:         urface Water Present?       Yes         /ater Table Present?       Yes         includes capillary fringe)       Yes	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C3)         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)	Secondary Indicators (2 or more required)
emarks:         cated along I-5 road fill prism         YDROLOGY         etland Hydrology Indicators:         imary Indicators (minimum of one required; ch         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery (B7)         Sparsely Vegetated Concave Surface (B8)         eld Observations:         urface Water Present?       Yes         /ater Table Present?       Yes         aturation Present?       Yes         mcludes capillary fringe)       Secribe Recorded Data (stream gauge, more)	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C3)         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)	Secondary Indicators (2 or more required)
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) ield Observations: Surface Water Present? Yes Vater Table Present? Yes Saturation Present? Yes Saturation Present? Yes	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C3)         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)	Secondary Indicators (2 or more required)

US Army Corps of Engineers Western Mountains, Valleys, and Coast Region (Version 2.0)

Project/Site: F	ederal Way City Center Access		City/County:	Federal Way/Kir	ng	Sampling Date:	9/2/2020
Applicant/Owner:	City of Federal Way		-		State: Washington	Sampling Point:	W13-SP-21
Investigator(s):	Per Johnson			Se	ection, Township, Range:	T21N R04E S1	15
Landform (hillslope	, terrace, etc.):	depression		Local relie	ef (concave, convex, none):	none Slope	e (%): <3%
Subregion (LRR):	Northwest Forests and Coast	(LRR A) Lat	: 47.314716	Long	: -122.290291	Datum: NAE	0 1983 (HARN)
Soil Unit (Name-IE	D-Hydric Rating): Ald	erwood gravelly sandy lo	oam ·	- AgB -	Not Hydric NWI cla	assification:	None
•	ologic conditions on the site typic	•		Yes		(If no, explain in Rema	ırks)
Are Vegetation	, Soil	, or Hydrology	_significantly dis		"Normal Circumstances" prese		X_No
Are Vegetation	, Soil				needed, explain any answers in F	· ·	
	F FINDINGS – Attach sit		ampling poi	nt locations, t	ransects, important fea	tures, etc.	
Hydrophytic Vege			D	la tha Camalaa	4 4 4 4 4		
Hydric Soil Prese		Yes X No	D	Is the Sampled			
Wetland Hydrolog	gy Present?	Yes X No	D	within a Wetla	na? Yes <u>X</u>	<u>No X</u>	
Precipitation: According to the S	Seattle Tacoma Airport NOAA we	ather station, precipitatio	on was lower the	normal range for t	he three months prior to the site	visit.	
Remarks:							
East edge of W13	south of 320th						
VEGETATION							
		Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum	(Plot size: <u>r=3m)</u>	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant Species		
1. Prunus emarg	ginata	10%	Yes	FACU	That Are OBL, FACW, or FAC	2: 4	(A)
2.							
3.					Total Number of Dominant		
4.					Species Across All Strata:	5	(B)
		10% = To	tal Cover				
Sapling/Shrub St	t <b>ratum</b> (Plot size: <u>r=2m)</u>				Percent of Dominant Species		
1. Spiraea doug	lasii	25%	Yes	FACW	That Are OBL, FACW, or FAC	: <u>80%</u>	(A/B)
2. Salix scouleri	ana	25%	Yes	FAC	Prevalence Index worksheet	t:	
<sup>3.</sup> Cornus alba		15%	Yes	FACW	Total % Cover of:	Multiply by:	
4. Populus balsa	amifera	10%	No	FAC	OBL species	x 1 =	
5.					FACW species	x 2 =	
		<u> </u>	tal Cover		FAC species	x 3 =	
Herb Stratum	(Plot size: <u>r=1m)</u>				FACU species	x 4 =	
1. <u>Tolmiea menz</u>			Yes	FAC	UPL species	x 5 =	(T)
2. Juncus effusi			No	FACW	Column Totals:	(A)	(B)
3. <u>Carex species</u>	S		No	FAC	Prevalence Index		
4. 				<u> </u>	Hydrophytic Vegetation Indi 1 - Rapid Test for Hydrop		
5. 			·	. <u> </u>	X 2 - Dominance Test is >5		
6				. <u> </u>	3 - Prevalence Index is ≤		
8.					4 - Morphological Adapta		ing
9.					data in Remarks or or		ing
10.			·	<u> </u>	5 - Wetland Non-Vascula	· · · ·	
11.			·	<u> </u>	Problematic Hydrophytic		
····			tal Cover	······	<sup>1</sup> Indicators of hydric soil and w		
Woody Vine Stra	tum (Plot size: <u>r=2m)</u>				be present.		
1. <u>none</u>							
2				. <u> </u>	Hydrophytic	×	
% Bare Ground i	n Herb Stratum 0%	0%= To	tal Cover		Vegetation Yes Present?	<u>     X    </u> No <u> </u>	
Remarks:							
Paran	netrix						

SOIL							Sampling Poin	t: W13-SP-21
Profile Descrip	tion (Describe to the d	depth needed	to document the ind	icator or con	firm the absence	of indicators):		
Depth	Matrix	-		Redox	Features			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-7	10YR 3/2	90	10YR 4/6	10	C	PI	SiL	
7+	10YR 4/2	80	2.5Y 5/3	10	D	M	SiL	redox appears stratifie
			2.5Y 5/6	10	С	M		
$^{1}$ Type: C=Coper	entration, D=Depletion, I	PM-Poducod	Matrix CS=Covorod o	r Coated Sand		tion: PL=Pore Lining	n M-Matrix	
							clay); - = light (less clay)	
	cators (Applicable to				– lille, vi – very li		roblematic Hydric Soils <sup>3</sup> :	
-		all LNNS, unit						
Histosol (A1		-	Sandy Redox (S5)			2 cm Muck (		
Histic Epipe		-	Stripped Matrix (S				Material (TF2)	
Black Histic	. ,	-	Loamy Mucky Min	. , .	ept MLRA 1)		v Dark Surface (TF12)	
Hydrogen S		、	Loamy Gleyed Ma				in in Remarks)	
	elow Dark Surface (A11)	-	X Depleted Matrix (F	-				
	Surface (A12)	-	X Redox Dark Surfa				rophytic vegetation and wet	
	(y Mineral (S1)	-	Depleted Dark Sur Redox Depression				e present, unless disturbed	or
	ed Matrix (S4)		Redux Depression	IS (FO)		problematic.		
Restrictive Laye								
-	/pe:					Hydric Soil		
Depth (inches)	:					Present?	Yes X	No
Remarks:								
HYDROLOG								
HYDROLOG Wetland Hydrol	ogy Indicators:							
HYDROLOG Wetland Hydrol		uired; check al	I that apply)			Secondary Indica	tors (2 or more required)	
HYDROLOG Wetland Hydrol	ogy Indicators: rs (minimum of one req	uired; check al	I that apply) Water-Stained Lea	aves (B9) (exc	ept MLRA	-	t <u>ors (2 or more required)</u> ed Leaves (B9) (MLRA 1, 2,	,
HYDROLOG Wetland Hydrol Primary Indicator Surface Wat High Water	ogy Indicators: rs (minimum of one req ter (A1) Table (A2)	uired; check al	Water-Stained Lea 1, 2, 4A, and 4E		ept MLRA	Water-Stain 4A, and 4	ed Leaves (B9) (MLRA 1, 2, B)	,
HYDROLOG Wetland Hydrol Primary Indicator Surface Wa High Water Saturation (/	ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3)	uired; check al	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11)	3)	ept MLRA	Water-Stain 4A, and 4 Drainage Pa	ed Leaves (B9) (MLRA 1, 2, B) tterns (B10)	,
HYDROLOG Wetland Hydrol Primary Indicator Surface Wat High Water Saturation (/ Water Marks	ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1)	uired; check al - -	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra	3) tes (B13)	ept MLRA	Water-Stain 4A, and 4 Drainage Pa Dry-Season	ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2)	
HYDROLOG Wetland Hydrol Primary Indicator Surface Wat High Water Saturation (/ Water Marks X Sediment De	ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2)	uired; check al - - -	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide (	3) tes (B13) Odor (C1)		Water-Stain 4A, and 4 Drainage Pa Dry-Season Saturation V	ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9	
HYDROLOG Wetland Hydrol Primary Indicator Surface Wai High Water Saturation (/ Water Marks X Sediment Do Drift Deposit	ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3)	uired; check al	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide ( Oxidized Rhizosph	tes (B13) Odor (C1) veres along Liv		Water-Stain 4A, and 4 Drainage Pa Dry-Season Saturation V X Geomorphic	ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9 Position (D2)	
HYDROLOG Wetland Hydrol Primary Indicator Surface Wai High Water Saturation (/ Water Marks X Sediment De Drift Deposit Algal Mat or	ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) · Crust (B4)	uired; check al - - - - - - - - - -	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide ( Oxidized Rhizosph Presence of Redu	tes (B13) Odor (C1) heres along Liv ced Iron (C4)	ring Roots (C3)	Water-Stain 4A, and 4 Drainage Pa Dry-Season Saturation V X Geomorphic Shallow Aqu	ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9 Position (D2) itard (D3)	
HYDROLOG Wetland Hydrol Primary Indicator Surface Wat High Water Saturation (/ Water Marks X Sediment Do Drift Deposit Algal Mat or Iron Deposit	ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) • Crust (B4) ts (B5)	uired; check al - - - - - - - - - -	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide 0 Oxidized Rhizosph Presence of Reduc Recent Iron Reduc	tes (B13) Odor (C1) heres along Liv ced Iron (C4) ction in Tilled S	ring Roots (C3) Soils (C6)	Water-Stain 4A, and 4 Drainage Pa Dry-Season Saturation V X Geomorphic Shallow Aqu FAC-Neutral	ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9 Position (D2) itard (D3) Test (D5)	
HYDROLOG Wetland Hydrol Primary Indicator Surface Wai High Water Saturation (/ Water Marks X Sediment Da Drift Deposit Algal Mat or Iron Deposit Surface Soil	ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) • Crust (B4) ts (B5) I Cracks (B6)		Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide 0 Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Stunted or Stresse	tes (B13) Odor (C1) eres along Liv ced Iron (C4) ction in Tilled S ed Plants (D1)	ring Roots (C3) Soils (C6)	Water-Stain 4A, and 4 Drainage Pa Dry-Season Saturation V X Geomorphic Shallow Aqu FAC-Neutral Raised Ant N	ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9 Position (D2) itard (D3) Test (D5) Mounds (D6) (LRR A)	
HYDROLOG Wetland Hydrol Primary Indicator Surface Wat High Water Saturation (/ Water Marks X Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V	ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) • Crust (B4) ts (B5) I Cracks (B6) /isible on Aerial Imagery	- - - - - - - - - - - - - - - - - - -	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide 0 Oxidized Rhizosph Presence of Reduc Recent Iron Reduc	tes (B13) Odor (C1) eres along Liv ced Iron (C4) ction in Tilled S ed Plants (D1)	ring Roots (C3) Soils (C6)	Water-Stain 4A, and 4 Drainage Pa Dry-Season Saturation V X Geomorphic Shallow Aqu FAC-Neutral Raised Ant N	ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9 Position (D2) itard (D3) Test (D5)	
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HYDROLOG Wetland Hydrol Primary Indicator Surface Wat High Water Saturation (/ Water Marks X Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V X Sparsely Ve	ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) • Crust (B4) ts (B5) I Cracks (B6) /isible on Aerial Imageny egetated Concave Surfa	y (B7) ice (B8)	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide ( Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse Other (Explain in F	tes (B13) Odor (C1) neres along Liv ced Iron (C4) ction in Tilled S ed Plants (D1) Remarks)	ring Roots (C3) Soils (C6) (LRR A)	Water-Stain 4A, and 4 Drainage Pa Dry-Season Saturation V X Geomorphic Shallow Aqu FAC-Neutral Raised Ant N Frost-Heave	ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9 Position (D2) itard (D3) Test (D5) Mounds (D6) (LRR A)	
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HYDROLOG Wetland Hydrol Primary Indicator Surface Wat High Water Saturation (/ Water Marks X Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V X Sparsely Ve Field Observatio Surface Water F Water Table Pre	ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) • Crust (B4) ts (B5) I Cracks (B6) /isible on Aerial Imagery egetated Concave Surfa ons: Present? Yes esent? Yes	y (B7) .ce (B8)	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide 0 Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Stunted or Stresse Other (Explain in F	tes (B13) Dolor (C1) eres along Liv ced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) Depth (inches Depth (inches	ring Roots (C3) Goils (C6) (LRR A)	Water-Stain 4A, and 4 Drainage Pa Dry-Season Saturation V X Geomorphic Shallow Aqu FAC-Neutral Raised Ant N Frost-Heave	ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9 Position (D2) itard (D3) Test (D5) Mounds (D6) (LRR A)	
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HYDROLOG Wetland Hydrol Primary Indicator Surface Wat High Water Saturation (/ Water Marks X Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V X Sparsely Ve Field Observation Surface Water F Water Table Preson (includes capillar)	ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) • Crust (B4) ts (B5) I Cracks (B6) /isible on Aerial Imageny egetated Concave Surfa ons: Present? Yes esent? Yes	y (B7) 	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide 0 Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse Other (Explain in F	tes (B13) Door (C1) ereres along Liv ced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) Depth (inches Depth (inches	ring Roots (C3) Soils (C6) (LRR A)	Water-Stain 4A, and 4 Drainage Pa Dry-Season Saturation V X Geomorphic Shallow Aqu FAC-Neutral Raised Ant N Frost-Heave Wetland Hydrology Present?	ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9 Position (D2) itard (D3) Test (D5) Mounds (D6) (LRR A) Hummocks (D7)	))
HYDROLOG Wetland Hydrol Primary Indicator Surface Wat High Water Saturation (/ Water Marks X Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V X Sparsely Ve Field Observation Surface Water F Water Table Preson (includes capillar)	ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) · Crust (B4) ts (B5) I Cracks (B6) /isible on Aerial Imagery egetated Concave Surfa ons: Present? Yes esent? Yes ent? Yes ry fringe)	y (B7) 	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide 0 Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse Other (Explain in F	tes (B13) Door (C1) ereres along Liv ced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) Depth (inches Depth (inches	ring Roots (C3) Soils (C6) (LRR A)	Water-Stain 4A, and 4 Drainage Pa Dry-Season Saturation V X Geomorphic Shallow Aqu FAC-Neutral Raised Ant N Frost-Heave Wetland Hydrology Present?	ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9 Position (D2) itard (D3) Test (D5) Mounds (D6) (LRR A) Hummocks (D7)	))
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HYDROLOG Wetland Hydrol Primary Indicator Surface Wai High Water Saturation (/ Water Marks X Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V X Sparsely Ve Field Observation Surface Water F Water Table Prese (includes capillar Describe Record Remarks:	ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) ts (B5) Cracks (B6) /isible on Aerial Imagery ons: Present? Yes esent? Yes ent? Yes ry fringe) rded Data (stream gau	y (B7) 	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide 0 Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse Other (Explain in F No X No X No X No X No X	tes (B13) Ddor (C1) Deres along Liv ced Iron (C4) titon in Tilled S ad Plants (D1) Remarks) Depth (inches Depth (inches Depth (inches	ring Roots (C3) soils (C6) (LRR A) s): s): spections), if ava	Water-Stain 4A, and 4 Drainage Pa Dry-Season Saturation V X Geomorphic Shallow Aqu FAC-Neutral Raised Ant N Frost-Heave Wetland Hydrology Present?	ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9 Position (D2) itard (D3) Test (D5) Mounds (D6) (LRR A) Hummocks (D7)	))

Project/Site:	Federal Way City Cente	r Access		City/County:	Federal Way/	King	Sampling Date:	9/2/2020
Applicant/Owner:	City of Federal Way					State: Washington	Sampling Point:	W13-SP-22
Investigator(s):	Per Johnson					Section, Township, Range:	T21N R04E S	15
Landform (hillslop	e, terrace, etc.):		hillslope		Local re	elief (concave, convex, none): c	onvex Slope	e (%): 5-10%
Subregion (LRR)	Northwest Forests a	and Coast (LRI	R A)	Lat: 47.314694	Lo	ng: -122.290169	Datum: NAI	D 1983 (HARN)
Soil Unit (Name-I	D-Hydric Rating):	Alderwo	ood gravelly san	dy loam -	- AgB	- Not Hydric NWI cla	assification:	None
Are climatic / hyd	rologic conditions on the	e site typical fo	r this time of yea	ar?	Y	íes X No	(If no, explain in Rema	arks)
Are Vegetation	, Soil					Are "Normal Circumstances" preser	nt? Yes	X No
Are Vegetation	, Soil		or Hydrology	naturally proble	ematic? (	If needed, explain any answers in F	≀emarks.)	
SUMMARY C	OF FINDINGS – At	ttach site n	nap showing	g sampling poi	nt locations	, transects, important fea	tures, etc.	
Hydrophytic Veg	etation Present?	Ye	es X	No				
Hydric Soil Prese	ent?	Ye	es	No X	Is the Samp			
Wetland Hydrolo	gy Present?	Ye	es	No X	within a Wet	tland? Yes	<u>No X</u>	_
Precipitation:								
According to the	Seattle Tacoma Airport	NOAA weathe	r station, precip	itation was lower the	normal range for	or the three months prior to the site	visit.	
Remarks:								
	ft east of W13 boundary	on gradual slo	ope.					
		-						
VEGETATIO	N							
	-		Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum	(Plot size:	r=3m)	% Cover	Species?	Status	Number of Dominant Species		
1. none	(11010)20.	<u> </u>	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	<u>opooloo .</u>	oluluo	That Are OBL, FACW, or FAC	: 4	(A)
2.				·				(A)
3.						Total Number of Dominant		
4.						Species Across All Strata:	6	(B)
			0% =	Total Cover	_			(2)
Sapling/Shrub S	stratum (Plot size:	r=2m)				Percent of Dominant Species		
1. Acer circinat		<u> </u>	25%	Yes	FAC	That Are OBL, FACW, or FAC	: <u>67%</u>	(A/B)
2. Oemleria ce			20%	Yes	FACU	Prevalence Index worksheet		()
3. Rubus spect			20%	Yes	FAC	Total % Cover of:	Multiply by:	
4. Rubus arme			20%	Yes	FAC	OBL species	x 1 =	
5. Ilex aquifoliu	m		15%	No	FACU	FACW species	x 2 =	
			100% =	Total Cover		FAC species	x 3 =	
Herb Stratum	(Plot size:	r=1m)				FACU species	x 4 =	
1. Polystichum	munitum		5%	Yes	FACU	UPL species	x 5 =	
2. Epilobium ci			5%	Yes	FACW	Column Totals:	(A)	(B)
3.						Prevalence Index	= B/A =	
4.						Hydrophytic Vegetation Indi	cators:	
5.						1 - Rapid Test for Hydrop	hytic Vegetation	
6.						X 2 - Dominance Test is >5	0%	
7.						3 - Prevalence Index is ≤	3.0 <sup>1</sup>	
8.						4 - Morphological Adapta	tions <sup>1</sup> (Provide support	ting
9.						data in Remarks or or	i a separate sheet)	
10.						5 - Wetland Non-Vascula	r Plants <sup>1</sup>	
11.						Problematic Hydrophytic	Vegetation (Explain) <sup>1</sup>	
			=	Total Cover		<sup>1</sup> Indicators of hydric soil and w	etland hydrology must	
Woody Vine Stra	atum (Plot size: !	<u>r=2m)</u>				be present.		
1. <u>none</u> 2.				<u> </u>		Hydrophytic		
			0% =	Total Cover		Vegetation Yes	X No	
% Bare Ground	in Herb Stratum	0%				Present?		
Remarks:								
Komal No.								
Deres	netrix							

SOIL		Sampling Point: W13-SP-22
Profile Description (Describe to the depth ne	eded to document the indicator or confirm the absence	e of indicators):
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type <sup>1</sup>	Loc <sup>2</sup> Texture <sup>3</sup> Remarks
0-16 10YR 4/3		CbL
Type: C=Concentration. D=Depletion. RM=Redu	uced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup> Loca	ation: PL=Pore Lining, M=Matrix.
	or loamy. Texture Modifier: co = coarse; f = fine; vf = very f	-
lydric Soil Indicators (Applicable to all LRRs		Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	<sup>3</sup> Indicators of hydrophytic vegetation and wetland
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	hydrology must be present, unless disturbed or problematic.
Restrictive Layer (if present): Type: <sub>n/a</sub>		
		Hydric Soil
		Dresent? Yes No Y
Depth (inches): n/a		Present? Yes <u>No X</u>
Depth (inches): n/a		Present?         Yes         No         X
Depth (inches): n/a		Present?         Yes         No         X
Depth (inches): n/a Remarks: IYDROLOGY Vetland Hydrology Indicators:		
Depth (inches): n/a Remarks: IYDROLOGY Vetland Hydrology Indicators:		Present? Yes No X Secondary Indicators (2 or more required)
Depth (inches):	Water-Stained Leaves (B9) (except MLRA	
Depth (inches):	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Depth (inches):	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
Depth (inches):	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Depth (inches):	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Depth (inches):       n/a         Iemarks:         Itemarks:         Itemarks: </td <td>Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3)</td> <td>Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)</td>	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Depth (inches):       n/a         emarks:         IYDROLOGY         /etland Hydrology Indicators:         rimary Indicators (minimum of one required; che	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Depth (inches):       n/a         Iemarks:         IYDROLOGY         Vetland Hydrology Indicators:         rimary Indicators (minimum of one required; che         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Depth (inches):       n/a         Remarks:         HYDROLOGY         Vetland Hydrology Indicators:         trimary Indicators (minimum of one required; cheree)         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Depth (inches):       n/a         Itemarks:         Itemarks:<	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Depth (inches):       n/a         Remarks:         HYDROLOGY         Vetland Hydrology Indicators:         trimary Indicators (minimum of one required; cheree)         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Depth (inches):       n/a         Remarks:	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Depth (inches):       n/a         Remarks:       Image: Second Status         HYDROLOGY       Image: Second Status         Vetland Hydrology Indicators:       Image: Second Status         Primary Indicators (minimum of one required; cherting Status       Image: Second Status         Surface Water (A1)       High Water Table (A2)         Saturation (A3)       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:       Image: Second Status	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Depth (inches):       n/a         Remarks:         HYDROLOGY         Vetland Hydrology Indicators:         trimary Indicators (minimum of one required; che         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery (B7)         Sparsely Vegetated Concave Surface (B8)         Tield Observations:         Surface Water Present?	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Secondary Indicators (2 or more required)
Depth (inches):       n/a         Remarks:         HYDROLOGY         Vetland Hydrology Indicators:         Primary Indicators (minimum of one required; check         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery (B7)         Sparsely Vegetated Concave Surface (B8)         Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes         Saturation Present?       Yes	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C3)         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)	Secondary Indicators (2 or more required)         Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)         Drainage Patterns (B10)         Dry-Season Water Table (C2)         Saturation Visible on Aerial Imagery (C9)         Geomorphic Position (D2)         Shallow Aquitard (D3)         FAC-Neutral Test (D5)         Raised Ant Mounds (D6) (LRR A)         Frost-Heave Hummocks (D7)
Depth (inches):       n/a         Remarks:         HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; chege         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery (B7)         Sparsely Vegetated Concave Surface (B8)         Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes         Saturation Present?       Yes	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C3)         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)	Secondary Indicators (2 or more required)
Depth (inches):       n/a         Remarks:         HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; cheeter (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery (B7)         Sparsely Vegetated Concave Surface (B8)         Field Observations:         Surface Water Present?       Yes         Saturation Present?       Yes         Saturation Present?       Yes         Saturation Present?       Yes         Saturation Present?       Yes	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C3)         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)	Secondary Indicators (2 or more required)
Depth (inches):       n/a         Remarks:         HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; cheeter (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery (B7)         Sparsely Vegetated Concave Surface (B8)         Field Observations:         Surface Water Present?       Yes         Saturation Present?       Yes         Saturation Present?       Yes         Saturation Present?       Yes         Saturation Present?       Yes	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C3)         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)	Secondary Indicators (2 or more required)
Depth (inches):       n/a         Remarks:         HYDROLOGY         Vetland Hydrology Indicators:         Primary Indicators (minimum of one required; che         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery (B7)         Sparsely Vegetated Concave Surface (B8)         Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes         Saturation Present?       Yes         Saturation Present?       Yes         Saturation Present?       Yes         Describe Recorded Data (stream gauge, mone)	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C3)         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)	Secondary Indicators (2 or more required)
Depth (inches):       n/a         Remarks:         HYDROLOGY         Vetland Hydrology Indicators:         Primary Indicators (minimum of one required; chells         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery (B7)         Sparsely Vegetated Concave Surface (B8)         Field Observations:         Surface Water Present?         Yes         Saturation Present?         Yes         Saturation Present?         Yes         Saturation Present?         Yes         Describe Recorded Data (stream gauge, mone)	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C3)         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)	Secondary Indicators (2 or more required)
Depth (inches):       n/a         Remarks:         HYDROLOGY         Vetland Hydrology Indicators:         Primary Indicators (minimum of one required; che         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery (B7)         Sparsely Vegetated Concave Surface (B8)         Field Observations:         Surface Water Present?         Yes         Water Table Present?         Yes         Saturation Present?         Yes         Saturation Present?	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C3)         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)	Secondary Indicators (2 or more required)

Project/Site:	Federal Way City Center Access		City/County:	Federal Wa	ay/King	Sampling Date:	1/7/2021
Applicant/Owner	City of Federal Way				State: Washingto	on Sampling Poin	nt: W16-SP-1
Investigator(s):	Trey Parry, Aaron Thom			_	Section, Township, Range:	T21N R04E	S15
Landform (hillslop	e, terrace, etc.):	terrace		Loca	I relief (concave, convex, none):	convex Slo	pe (%): <3%
Subregion (LRR)	: Northwest Forests and Coast	(LRR A))	Lat: 47.310883	_ 1	Long: -122.289017	Datum: N/	AD 1983 (HARN)
	D-Hydric Rating): Alde			AgB		classification:	None
	Irologic conditions on the site typic	•			Yes X No		
Are Vegetation	, Soil	_, or Hydrology _	significantly dis	turbed?	Are "Normal Circumstances" pre		<u>X</u> No
Are Vegetation	, Soil				(If needed, explain any answers		
	OF FINDINGS – Attach site			nt location	is, transects, important f	eatures, etc.	
	jetation Present?	Yes	No X	Is the Sam	npled Area		
Hydric Soil Pres		Yes	No X	within a W	Vation dO		
Wetland Hydrolo	by Present?	Yes	No X		Yes	<u> </u>	
Precipitation:	Spottle Teacme NOAA weather of	tation provinitation	waa within the norm	al range for	the three menths prior to the site	vioit	
According to the	Seattle Tacoma NOAA weather st	lation, precipitation	was within the norm	la range lor	the three months phot to the site	VISIL.	
Remarks:							
This is the uplane	d paired soil plot o W16-SP1 locate	ed on a stream terr	ace above stream 2				
VEGETATIO	N						
		Absolute	Dominant	Indicator	Dominance Test worksh	eet:	
<u>Tree Stratum</u>	(Plot size: <u>r=3m)</u>	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant Spec	ies	
1. <u>Alnus rubra</u>		70%	Yes	FAC	That Are OBL, FACW, or F	AC: <u>2</u>	(A)
2. Pseudotsug	a menziesii	30%	Yes	FACU	_		
3.					Total Number of Dominant		
4.					Species Across All Strata:	4	(B)
		100% =	Total Cover				
Sapling/Shrub S	Stratum (Plot size: <u>r=2m)</u>				Percent of Dominant Spec	ies	
1. Rubus spec	tabilis	40%	Yes	FAC	That Are OBL, FACW, or F	AC: <u>509</u>	<u>%</u> (A/B)
2. Rubus ursin	us	5%	No	FACU	Prevalence Index worksh		
3. Acer circinat	um	5%	No	FAC		Multiply by:	
4.					OBL species	x 1 =	
5					FACW species	x 2 =	
		<u> </u>	Total Cover		FAC species	x 3 =	
Herb Stratum	(Plot size: <u>r=1m)</u>				FACU species	x 4 =	
1. Polystichum	munitum	20%	Yes	FACU	UPL species	x 5 =	
2					Column Totals:	(A)	(B)
3.					Prevalence Inde		
4.					Hydrophytic Vegetation		
5.					1 - Rapid Test for Hyd	.,	
6.					2 - Dominance Test is		
7.					3 - Prevalence Index		
8.						ptations <sup>1</sup> (Provide supp	orting
9.		-			-	r on a separate sheet)	
10.					5 - Wetland Non-Vaso		1
11.						tic Vegetation (Explain)	
	atum (Plot size: <u>r=2m)</u>	=	Total Cover		<sup>1</sup> Indicators of hydric soil an	d wetland hydrology mu	ıst
Woody Vine Str 1. none	atum_ (Plot size. <u>1-2111)</u>				be present.		
2.					– Hydrophytic		
		0% =	Total Cover			'es No	х
% Bare Ground	in Herb Stratum 80%				Present?		
Remarks:							
. tomarka.							

Parametrix

SOIL							Sampling Point:	W16-SP-1
	tion (Describe to the c	epth needed	to document the ir	dicator or co	nfirm the absen	ce of indicators):		
Depth	Matrix	•			Features	,		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-16	7.5YR 3/3	80					Cobbly Loam	mixed matrix
0-16	10YR 4/6	20					Cobbly Loam	mixed matrix
	=							
	·							
1- 0.0								
	entration, D=Depletion, I					cation: PL=Pore Lini	-	
	cators (Applicable to a				f = fine; vf = very		e clay); - = light (less clay)	
-		ili LKKS, unie					oblematic Hydric Soils <sup>3</sup> :	
Histosol (A1	,	_	Sandy Redox (S5			2 cm Muck (A	· ·	
Histic Epipe	. ,	_	Stripped Matrix (S			Red Parent M	. ,	
Black Histic		_	Loamy Mucky Mir		ept MLRA 1)		Dark Surface (TF12)	
Hydrogen S		_	Loamy Gleyed Ma			Other (Explain	n in Remarks)	
	elow Dark Surface (A11)	) <u> </u>	Depleted Matrix (I					
	Surface (A12)	_	Redox Dark Surfa			<sup>3</sup> Indicators of hydro	ophytic vegetation and wetla	nd
	ky Mineral (S1)	_	Depleted Dark Su				present, unless disturbed o	r
Sandy Gley	ed Matrix (S4)		Redox Depressio	ns (F8)		problematic.		
Restrictive Laye	er (if present):							
Ту	pe: none					Hydric Soil		
Depth (inches)	n/a					Present?	Yes	No X
HYDROLOG	Y							
Wetland Hydrol	ogy Indicators:							
Primary Indicato	rs (minimum of one req	uired; check al	ll that apply)			Secondary Indicate	<u>ors (2 or more required)</u>	
Surface Wa	ter (A1)		Water-Stained Le	aves (B9) (exc	ept MLRA	Water-Staine	d Leaves (B9) (MLRA 1, 2,	
High Water			 1, 2, 4A, and 4	. , .		4A, and 4B		
Saturation (			Salt Crust (B11)	,		Drainage Pat	terns (B10)	
Water Mark	s (B1)		Aquatic Invertebra	ates (B13)		Dry-Season V	Vater Table (C2)	
Sediment D	eposits (B2)		Hydrogen Sulfide	Odor (C1)		Saturation Vis	sible on Aerial Imagery (C9)	
Drift Deposi	ts (B3)		Oxidized Rhizosp	heres along Liv	ving Roots (C3)	Geomorphic I	Position (D2)	
Algal Mat or	Crust (B4)		Presence of Redu	uced Iron (C4)		Shallow Aquit	ard (D3)	
Iron Deposit	ts (B5)		Recent Iron Redu		Soils (C6)	FAC-Neutral		
	Cracks (B6)		Stunted or Stress	ed Plants (D1)	(LRR A)		ounds (D6) (LRR A)	
	/isible on Aerial Imager	/ (B7)	Other (Explain in				Hummocks (D7)	
Sparsely Ve	getated Concave Surfa	ce (B8)						
Field Observati	ons:							
Surface Water		N	lo	Depth (inches	s):	Wetland		
Water Table Pre			lo		5):	Hydrology	Yes	No X
Saturation Pres	-		lo	Depth (inches		Present?		
(includes capilla	-	· · · · ·		Boptii (illoitoc		1.000.001		
Describe Reco	rded Data (stream gau	ge, monitorin	ng well, aerial photo	os, previous ir	nspections), if a	vailable:		
Remarks:								
L								

Project/Site: F	ederal Way City Center Access		City/County:	Federal Way/	/King	Sampling Date:	1/7/2021
Applicant/Owner:	City of Federal Way				State: Washingto	on Sampling P	oint: W16-SP-2
Investigator(s):	Trey Parry, Aaron Thom			Ş	Section, Township, Range:	T21N R04	E S15
Landform (hillslope		stream chann	el		elief (concave, convex, none):		Slope (%): <3%
Subregion (LRR):	Northwest Forests and Coast (	LRR A)) L	.at: 47.310913	_ Lo	ng: -122.289017		NAD 1983 (HARN)
• • •		erwood gravelly sar	idy loam -	– AgB		classification:	
Are climatic / hyd	rologic conditions on the site typic			Y	/es X No		
Are Vegetation	, Soil	, or Hydrology	significantly dis		Are "Normal Circumstances" pr	esent? Y	′es <u>X</u> No
Are Vegetation	, Soil	, or Hydrology	naturally proble	matic? (	If needed, explain any answers	in Remarks.)	
SUMMARY O	F FINDINGS – Attach site	e map showing	sampling poir	nt locations	, transects, important f	eatures, etc.	
Hydrophytic Veg			No				
Hydric Soil Prese	ent?		No	Is the Samp	led Area		
Wetland Hydrolo	gy Present?	Yes X	No	within a We	tland? Yes <u>X</u>	No	
Precipitation: According to the s Remarks:	Seattle Tacoma NOAA weather st	ation, precipitation v	vas within the norm	nal range for the	e three months prior to the site	visit.	
Sample plot is ad	jecent to Stream 2 at the tow of a	slope that creates a	confined channel.	This is the pair	ed sample plot to W16-SP1.		
VEGETATION	N						
		Absolute	Dominant	Indicator	Dominance Test worksh	eet:	
Tree Stratum	(Plot size: <u>r=3m)</u>	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant Spec	vies	
<sup>1.</sup> <u>none</u>					That Are OBL, FACW, or I	-AC:	<u>1</u> (A)
2.							
3.					Total Number of Dominant	i	
4.					Species Across All Strata:		1 (B)
		0% =	Total Cover				
Sapling/Shrub S	tratum (Plot size: <u>r=2m)</u>				Percent of Dominant Spec	ies	
1. Rubus spect	abilis	70%	Yes	FAC	That Are OBL, FACW, or I	-AC: <u>1</u>	<u>00%</u> (A/B)
2. Rubus ursinu	IS	5%	No	FACU	Prevalence Index works	ieet:	
3.					Total % Cover of:	Multiply by:	
4.					OBL species	x 1 =	
5.					FACW species	x 2 =	
		75% =	Total Cover		FAC species	x 3 =	0
Herb Stratum	(Plot size: <u>r=1m)</u>				FACU species	x 4 =	
1. Polystichum	munitum	3%	No	FACU	UPL species	x 5 =	
2.					Column Totals:	(A)	(B)
3.					Prevalence Ind	ex = B/A =	
4.					Hydrophytic Vegetation	indicators:	
5.					1 - Rapid Test for Hyd	Irophytic Vegetation	
6.					X 2 - Dominance Test is	s >50%	
7.					3 - Prevalence Index	is ≤3.0 <sup>1</sup>	
8.					4 - Morphological Ada	aptations <sup>1</sup> (Provide su	pporting
9.					data in Remarks o	r on a separate sheel	t)
10.					5 - Wetland Non-Vas	cular Plants <sup>1</sup>	
11.					Problematic Hydroph		uin) <sup>1</sup>
Woody Vine Stra	atum_ (Plot size: <u>r=2m)</u>	3% =	Total Cover		<sup>1</sup> Indicators of hydric soil ar be present.		-
1. <u>none</u> 2.			<u> </u>		Uvdranhy#10		
×. % Bare Ground i	in Herb Stratum 10%	0% =	Total Cover		Hydrophytic Vegetation Y Present?	′es <u>X</u> No	
Remarks:					1		

Parametrix

Type:       Hydric Soll         Pepth (inches):	SOIL							Sampling Point:	W16-SP-2
Implem         Column (mode)         S         Column (mode)         S         Type         Lmc         Texture         Remarks           3.9         10YR 32         75         10YR 40         15         C         M         Cobby Loam	Profile Descrip	otion (Describe to the c	depth needed	l to document the ir	ndicator or confir	rm the absence	e of indicators):		
6.3         10YR 33         75         10YR 46         15         C         M         Salu           8-16         10YR 31         20         0         M         Cobby Learn         Cobby Learn           8-16         10YR 31         20         10YR 34         20         C         M         Cobby Learn           8-16         10YR 33         20         10YR 34         20         C         M         Cobby Learn           8-16         10YR 34         20         C         M         Cobby Learn         Cobby Learn           9         10YR 34         20         C         M         Cobby Learn         Cobby Learn           10YR 340         20         C         M         Cobby Learn         Cobby Learn         Cobby Learn           10YR 340         10YR 340         Cobby Learn         Tork Data         To	Depth	Matrix			Redox Fe	atures			
3.8         1978 32         75         1978 43         15         C         M         Coubly Loar           8.16         1978 34         00         1978 34         20         C         M         Coubly Loar           Type:         C         M         Coubly Loar         M         Coubly Loar           Type:         C         M         Coubly Loar         M         Coubly Loar           Type:         C         M         Coubly Loar         M         Coubly Loar           Type:         C         C         M         Coubly Loar         M           Mode All Mark (81)         Lear         M         M         Coubly Loar         M           Heldor Dark Surface (71)         Depleted Matrk (81)         Lear         M	(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
8-16       10YR 34       20       C       M       Cobby Loam         9       10YR 34       Serverth Net Station (1)       Serverth Net Station (1)       Poletol Block ON       Poletol Station (1)       Poletol Alax X (1)       Poletol Alax	0-3	10YR 3/3	75	10YR 4/6	15	С	М	SaL	
Type: C-Concentration. D-Depiction. RM=Raduced Matrix. CS=Covered or Coated Gand Crans. * Location: PL-Prore Ling, MeKapti. * Left Less on Leany. * Left Media Cover Casted Gand Crans. * Location: PL-Prore Ling, MeKapti. * Left Less on Leany. * Left Media Cover Casted Gand Crans. * Location: PL-Prore Ling, MeKapti. * Left Less on Leany. * Left Media Cover Casted Gand Crans. * Location: PL-Prore Ling, MeKapti. * Left Less on Leany. * Left Media Cover Casted Gand Crans. * Location: PL-Prore Ling, MeKapti. * Left Less on Leany. * Left Method Cover Casted Gand Crans. * Location: PL-Prore Ling, MeKapti. * Left Less on Leany. * Left Method Cover Casted Gand Crans. * Location: PL-Prore Ling, MeKapti. * Left Less on Leany. * Left Method Cover Casted Gand Crans. * Location: PL-Prore Ling, MeKapti. * Left Less on Leany. * Left Method Cover Casted Gand Crans. * Location: PL-Prore Ling, MeKapti. * Left Method Cover Casted Gand Crans. * Location: PL-Prore Ling, MeKapti. * Left Method Cover Casted Gand Crans. * Location: PL-Prore Ling, MeKapti. * Left Method Cover Casted Gand Crans. * Location: PL-Prore Ling, MeKapti. * Left Method Cover Casted Gand Crans. * Location: PL-Prove Ling, MeKapti. * Left Method Cover Casted Gand Crans. * Location: PL-Prove Ling, MeKapti. * Left Method Cover Casted Gand Crans. * Leador Depensation (F)         Standard Method Cranting Method Crans. * Mechod Cranting Method Crasted Gand Crasted Gand Crans. * Casted Cranting Cranting Cranting	3-8	10YR 3/2	75	10YR 4/6	15	С	М	Cobbly Loam	
Texture: Sa = sand; Si = siti; C = cary, L = loam or learny. Texture Modifier co = coarse; f = fine; vf = very fine; vf = heav; more sainy, -= light (lease sky)           Hydric Soll Indicators (Applicable to all LRRe, unless otherwise noted):         Indicators for Problematic Hydric Solls <sup>1</sup> ;           Histosi (A1)	8-16	10YR 3/1	80	10YR 3/4	20	С	М	Cobbly Loam	
Tenture: Sa = sand: Si = sift C = day, L = baam or barmy Texture Modifier co = coarse; f = fne; vf = very fine; v = heav; more salw; - = light (lises clay)           Hydric Soll Indicators (Applicable to all LRRs, unless otherwise noted):         Indicators for Problematic Hydric Solls*:           Histosi (A1)									
Texture: Sa = sand; Si = siti; C = cary, L = loam or learny. Texture Modifier co = coarse; f = fine; vf = very fine; vf = heav; more sainy, -= light (lease sky)           Hydric Soll Indicators (Applicable to all LRRe, unless otherwise noted):         Indicators for Problematic Hydric Solls <sup>1</sup> ;           Histosi (A1)									
Texture: Sa = sand; Si = siti; C = cary, L = loam or learny. Texture Modifier co = coarse; f = fine; vf = very fine; vf = heav; more sainy, -= light (lease sky)           Hydric Soll Indicators (Applicable to all LRRe, unless otherwise noted):         Indicators for Problematic Hydric Solls <sup>1</sup> ;           Histosi (A1)									
Texture: Sa = sand; Si = siti; C = cary, L = loam or learny. Texture Modifier co = coarse; f = fine; vf = very fine; vf = heav; more sainy, -= light (lease sky)           Hydric Soll Indicators (Applicable to all LRRe, unless otherwise noted):         Indicators for Problematic Hydric Solls <sup>1</sup> ;           Histosi (A1)									
Texture: Sa = sand; Si = siti; C = cary, L = loam or learny. Texture Modifier co = coarse; f = fine; vf = very fine; vf = heav; more sainy, -= light (lease sky)           Hydric Soll Indicators (Applicable to all LRRe, unless otherwise noted):         Indicators for Problematic Hydric Solls <sup>1</sup> ;           Histosi (A1)									
Texture: Sa = sand; Si = siti; C = cary, L = loam or learny. Texture Modifier co = coarse; f = fine; vf = very fine; vf = heav; more sainy, -= light (lease sky)           Hydric Soll Indicators (Applicable to all LRRe, unless otherwise noted):         Indicators for Problematic Hydric Solls <sup>1</sup> ;           Histosi (A1)	Type: C=Cone	ontration D=Dopletion	PM-Poducod	Matrix CS=Covoros	d or Costod Sand	Grains <sup>2</sup> Log	ation: DI - Doro Lin	ing M-Matrix	
Hydric Soll Indicators (Applicable to all LRRs, unless otherwise noted):       Indicators for Problematic Hydric Solls <sup>2</sup> :         Histic Elpedon (A2)       Sandy Redox (S5)       Red Parent Material (TF2)         Black Hats (A3)       Learny Wacky Mineral (F1) (except MLRA 1)       Werg Shallow Dark Surface (TF12)         Hydrogen Sulfide (A4)       Learny Wacky Mineral (F3)       Other (Explain in Remarks)         Depicted Batix (F3)       Redox Depressions (F8)       "Indicators of hydrophytic vegetation and wetland hydrophytic vegetation was observed indicating the presence of reduced iron.         Whethan Hydrolog Multicators:       Type: mone       Purcle Soll         Persent?       Yes X       No         Startation Mitators (fnintum of one required)       X. Water-Stained Larsve (B9) (MLRA 1, 2, 4, 4, and 48)       X. Water-Stained Larsve (B9) (MLRA 1, 2, 4, 4, and 48)									
		•				lille, vi – very li			
Heste Epipadon (A2)       Stripped Matrix (95)       Rear Material (TF2)         Black Histe (A3)       Loamy Mucky Mineral (F1) (except MLRA 1)       Very Shallow Dark Surface (TF12)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       Image Pattern Material (TF2)         Thick Dark Surface (A12)       X Redvx Dark Surface (F7)       Image Pattern Material (TF2)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Image Pattern Material (TF2)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Image Pattern Material (TF2)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Image Pattern Material (TF2)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Image Pattern Material (TF2)         Present?       reg       No       Present?         Pattern Adaptive Matrix (S4)       Redvx Dark Surface (F7)       Image Pattern Material (TF2)         Pattern Adaptive Matrix (S4)       Redvx Dark Surface (F7)       Image Pattern Material (TF2)         Vers	•		an Eixixs, unit						
Black Histic (A3)       Learny Mucky Minaral (F1) (except MLRA 1)       Very Shallow Dark Surface (TF12)         Hydrogen Suffice (A4)       Learny Gleyed Matrix (F2)       Other (Explain in Remarks)         Depleted Boark Surface (A12)       X Redox Dark Surface (F7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (If present):       Type: none       Hydric Soil         Depti (inches):       n/a       No         Standy Oleyed Matrix (F3)       Redox Depressions (F8)       No         Depti (inches):       n/a       No         Depti (inches):       n/a       No         Standy Oleyed Matrix (F3)       Water-Stained Leaves (F7)       Secondary Indicators (2 or more required)         X surface Water (A1)       Very Stallow Parket (A1)       Very Stallow Parket (A1)         Startace Water (A1)       1.2.4A, and 4B)       Secondary Indicators (2 or more required)         X surface Water (A1)       Sall Cust (B11)       Secondary Indicators (2 or more required)         X Water Marks (B1)       Sall Cust (B11)       Secondary Indicators (2 or more required)         X Water Marks (B1)       Sall Cust (B11)       Secondary Indicators (B0) (MLRA 1.2, 4A, and 4B)         Saltrace Water (A1)       Salt Cust (B1)       Secondary Indicators (B2)         Sal		,	_		,				
Hydrogen Sulfde (A4)      Loamy Gleyed Matrix (F2)      Other (Explain in Remarks)         Depleted Below Dark Surface (A11)      Depleted Matrix (F3)			_		,		_		
Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       *indicators of hydrophytic vegetation and wettand hydrobdy must be present, unless disturbed or problematic.         Sandy Mucky (Mineral (S1)       Depleted Matrix (S4)       *indicators of hydrophytic vegetation and wettand hydrobdy must be present, unless disturbed or problematic.         Restrictive Layer (If present):       *indicators of hydrophytic vegetation and wettand hydrobdy must be present, unless disturbed or problematic.         Rept (Inches):       n/a       *indicators of hydrophytic vegetation and wettand hydrobdy must be present, unless disturbed or problematic.         Remarks:       Maph adphytic/l test strips were applied to the top 12 inches of the soil profile, a positive reaction was observed indicating the presence of reduced iron.         HVDROLOGY       Saturation (A3)       Saturation (A3)         Saturation (A3)       Saturation (A3)       Saturation (A3)         Secondary indicators (B2)       Hydrogen Sulfide Odor (C1)       Saturation (S4)         Saturation (A3)       Saturation (C4)       Saturation (C4)         Secondary indicators (B5)       Saturation (C4)       Saturation (C2)         Sufface Water Present?       Yes       No       Presence (D5)         Sufface Water Present?       Yes       No       Presence (D5)         Sufface Water Present?       Yes       No       Presence (D5)         Sufface Water Pr			_			MLRA 1)			
Thick Dark Surface (A12)			、				Other (Expla	in in Remarks)	
Sandy Mucky Mineral (S1)									
			-						
Type: inone         Hydric Soil         Present?       Yes       No         Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"         Mydric Soil         Present?       Yes       X       No         Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"         Remarks:         Alpha alpha dipyridyl test strips were applied to the top 12 inches of the soil profile, a positive reaction was observed indicating the presence of reduced iron.         Mydric Soil         Sacondary Indicators (2 or more required)         X Suface Water (A1)         X       Saturation (A3)       Satl Crust (B1)       Satl Crust (B1)       Drainage Patterns (B10)       Drainage Patterns (B10)       Drainage Patterns (B10)       Drainage Patterns (B10)       Saturation Visble on Aerial Imagery (C9)       X       Water-Stained Leaves (B9) (MLRA 1, 2, 4, and 4B)       Saturation Visble on Aeria Imagery (C9)       Saturation Visble on Aeria Imagery (C9)       X       Water-Stained Leaves (B0) (MLRA 1, 2, 4, and 4B)       Saturation Visble on Aeria Imagery (C9)       X       Saturation Visble on Aeria Imagery (C9)       X       Saturation Visble on Aeria Imagery (C9)       X       Seconorphic Position (D2)       Saturation Visble on Aeria Im			-					e present, unless disturbed or	r
Depth (inches):       n/a       Prosent?       Yes       X       No         Remarks:         Appla alpha dipyridyl test strips were applied to the top 12 inches of the soil profile, a positive reaction was observed indicating the presence of reduced iron.         HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (Minimum of one required; check all that apply)       Secondary Indicators (2 or more required)         X_Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA, 4A, and 4B)       X_Water, Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)         X_Saturation (A3)       Sala (Cruits (B11)       Drainage Patterns (B10)       Dry-Season Water Table (C2)         Sectiment Deposits (B2)       Hydrogen Suffide Odor (C1)       Saturation Visible on Aerial Imagery (C9)       Saturation Visible on Aerial Imagery (C9)         Oriti Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic Position (D2)       Saturation Visible on Aerial Imagery (C9)         Saturation Visible on Aerial Imagery (F7)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mounds (D6) (LRR A)         Surface Water Present?       Yes       X       No       Pepth (inches): surface (0)         Saturation Present?       Yes       X       No       Pepth (inches): surface (0)         Saturation Present?       Yes       X       No       Pepth (	Sandy Gley	ed Matrix (S4)	_	Redox Depressio	ns (F8)		problematic.	,	
Depth (inches):       n/a       Prosent?       Yes       X       No         Remarks:         Appla alpha dipyridyl test strips were applied to the top 12 inches of the soil profile, a positive reaction was observed indicating the presence of reduced iron.         HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (Minimum of one required; check all that apply)       Secondary Indicators (2 or more required)         X_Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA, 4A, and 4B)       X_Water, Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)         X_Saturation (A3)       Sala (Cruits (B11)       Drainage Patterns (B10)       Dry-Season Water Table (C2)         Sectiment Deposits (B2)       Hydrogen Suffide Odor (C1)       Saturation Visible on Aerial Imagery (C9)       Saturation Visible on Aerial Imagery (C9)         Oriti Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic Position (D2)       Saturation Visible on Aerial Imagery (C9)         Saturation Visible on Aerial Imagery (F7)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mounds (D6) (LRR A)         Surface Water Present?       Yes       X       No       Pepth (inches): surface (0)         Saturation Present?       Yes       X       No       Pepth (inches): surface (0)         Saturation Present?       Yes       X       No       Pepth (	Restrictive Lay	er (if present):							
Remarks:         Alpha alpha dipyridyl test strips were applied to the top 12 inches of the soil profile, a positive reaction was observed indicating the presence of reduced iron.         HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more required)         X       Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA         X       High Water Table (A2)       1, 2, 4A, and 4B)         Saturation (A3)       Sat Cruist (B11)       Drainage Patterns (B10)         X       Saturation (A3)       Sat Cruist (B11)       Drainage Patterns (B10)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)       Dry-Season Water Table (C2)       Saturation Visible on Aerial Imagery (C9)         Oxtidized Rhizospheres along Living Roots (C3)       K Geomorphic Position (D2)       Saturation Visible on Aerial Imagery (C9)         Surface Sol Cracks (B6)       Recent from Reduction in Tilled Solis (C6)       FAC-Neutral Test (D5)       Raised Ant Mounds (D6) (LRR A)         Surface Rol Cracks (B6)       Other (Explain in Remarks)       Post Heave Hummocks (D7)       Present?         Suface Water Present?       Yes       X       No       Depth (inches): surface (0)       Present?         Suface Sol Cracks (B7)       Yes       No       Depth (inches): surface (0	Ту	/pe: none					Hydric Soil		
Alpha alpha dipyridyl test strips were applied to the top 12 inches of the soil profile, a positive reaction was observed indicating the presence of reduced iron.         HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more required)         X Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA       X Water-Stained Leaves (B9) (mLRA 1, 2, 4, and 4B)         X Surface Water Table (A2)       1, 2, 4A, and 4B)       Drainage Patterns (B10)         X Water Marks (B1)       Aquatic Invertebrates (B13)       Drainage Patterns (B10)         Sediment Deposits (B2)       Oxidzed Rhizospheres along Living Roots (C3)       Sediment (D3)         Orind Deposits (B3)       Oxidzed Rhizospheres along Living Roots (C3)       Sediment (D5)         Surface Water Crust (B4)       Presence of Reduced Iron (C4)       Shallow Aquitard (D3)         Inno Deposits (B5)       Recent Iron Reduction in Tilled Solis (C6)       FAC-Neutral Test (D5)         Surface Water Present?       Yes       No       Depth (inches): <u>surface (0)</u> Surface Water Present?       Yes       No       Depth (inches): <u>surface (0)</u> Saturation Yingen       Depth (inches): <u>surface (0)</u> Present?       Present?         Saturation Present?       Yes       No       Depth (inches): <u>surface (0)</u>	Depth (inches	): n/a					Present?	Yes X	No
Alpha alpha dipyridyl test strips were applied to the top 12 inches of the soil profile, a positive reaction was observed indicating the presence of reduced iron.         HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required: check all that apply)       Secondary Indicators (2 or more required)         X Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA       X Water-Stained Leaves (B9) (mLRA 1, 2, 4, and 4B)         X Surface Water Marks (B1)       Salit Crust (B11)       Drainage Patterns (B10)         X Water Marks (B1)       Aquatic Invertebrates (B13)       Drainage Patterns (B10)         Sediment Deposits (B2)       Oxidized Rhizospheres along Living Roots (C3)       Sediment OLOS         Algal Mat or Crust (B4)       X Presence of Reduced Iron (C4)       Shallow Aquitard (D3)         Surface Water Present?       Yes       X No         Surface Water Present?       Yes       X No         Surface Water Present?       Yes       X No         Depth (inches):       Surface (0)       Yes x       No         Surface Water Present?       Yes       X No       Depth (inches):       Surface (0)         Present?       Yes       X No       Depth (inches):       Surface (0)         Surface Water Present?       Yes       X No       Depth (inches):       Surface (0) <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>									
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more required)         X       Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA         X       High Water Table (A2)       1, 2, 4A, and 4B)         X       Saturation (A3)       Sati Crust (B11)         X       Water-Stained Leaves (B13)       Drainage Patterns (B10)         X       May and KB1       Aquatic Invertebrates (B13)       Dry-Season Water Table (C2)         Sediment Deposits (B2)       Hydrogen Suffide Odor (C1)       Saturation Visible on Aerial Imagery (C9)         Algal Mat or Crust (B4)       X       Presence of Reduced Iron (C4)       Shallow Aquitard (D3)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Frost-Heave Hummocks (D7)         Sparsely Vegetated Concave Surface (B8)       Depth (inches): 0.5       Wetland         Field Observations:       Yes       X       No       Depth (inches): 0.5         Surface Corded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Remarks:		yridyl test strips were ap	plied to the top	o 12 inches of the so	il profile, a positive	e reaction was o	observed indicating	the presence of reduced iron	
A surface water (A1)       Water-Stained Leaves (B9) (except MLRA         X       Surface Water (A1)       1, 2, 4A, and 4B)         X       Saturation (A3)       Salt Crust (B11)         X       Water Marks (B1)       Aquatic Invertebrates (B13)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)       Saturation Visible on Aerial Imagery (C9)         Algal Mat or Crust (B4)       X       Presence of Reduced Iron (C4)         Iron Deposits (B5)       Stunted or Stressed Plants (D1) (LRR A)       Saturation Visible on Aerial Imagery (B7)         Surface Water Present?       Yes       X       No         Surface Water Present?       Yes       X       No         Surface capillary finge)       Depth (inches): surface (0)       Wetland         Hydrology       Yes       X       No         Depth (inches): surface (0)       Presence (0)       Presence (0)         Burdation Present?       Yes       No       Depth (inches): surface (0)         Burdation Present?       Yes       No       Depth (inches): surface (0)         Burdation Present?       Yes       No       Depth (inches): surface (0)       Presence (0)         Burdation Present?       Yes       No       Depth (inches): surface (0)       Present?         Remar	Alpha alpha dipy		plied to the top	o 12 inches of the so	il profile, a positive	e reaction was o	observed indicating	the presence of reduced iron	
X       Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA       X       Water-Stained Leaves (B9) (except MLRA       X       Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)         X       High Water Table (A2)       1, 2, 4A, and 4B)       Drainage Patterns (B10)       Dry-Season Water Table (C2)         X       Water Marks (B1)       Aquatic Invertebrates (B13)       Dry-Season Water Table (C2)       Saturation Visible on Aerial Imagery (C9)         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       X       Geomorphic Position (D2)         Algal Mat or Crust (B4)       X       Presence of Reduced Iron (C4)       Shallow Aquitard (D3)         Iron Deposits (B5)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mounds (D6) (LRR A)       Frost-Heave Hummocks (D7)         Sparsely Vegetated Concave Surface (B8)       Depth (inches): <u>0.5</u> Wetland       Hydrology Yes X       No         Saturation Present?       Yes       X       No       Depth (inches): <u>0.5</u> Present?       No       Present?         Saturation Present?       Yes       X       No       Depth (inches): <u>0.5</u> Present?       No       Present?         Guidade capillary fringe)       Depth (inches): <u>0.5</u> Depth (inches): <u>0.5</u> Present?       No       Present?       No       Present? <td>Alpha alpha dipy</td> <td>SY</td> <td>plied to the top</td> <td>o 12 inches of the so</td> <td>il profile, a positive</td> <td>e reaction was o</td> <td>observed indicating</td> <td>the presence of reduced iron</td> <td></td>	Alpha alpha dipy	SY	plied to the top	o 12 inches of the so	il profile, a positive	e reaction was o	observed indicating	the presence of reduced iron	
X       High Water Table (A2)       1, 2, 4A, and 4B)       4A, and 4B)         X       Saturation (A3)       Salt Crust (B11)       Drainage Patterns (B10)         X       Water Marks (B1)       Aquatic Invertebrates (B13)       Dry-Season Water Table (C2)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)       Saturation Visible on Aerial Imagery (C9)         Algal Mat or Crust (B4)       X       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)       Other (Explain in Remarks)       Frost-Heave Hummocks (D7)         Sparsely Vegetated Concave Surface (B8)       Depth (inches): 0.5       Wetland         Field Observations:       No       Depth (inches): surface (0)       Present?         Saturation Present?       Yes       X       No       Depth (inches): surface (0)         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Remarks:	Alpha alpha dipy	SY	plied to the top	o 12 inches of the so	il profile, a positive	e reaction was o	observed indicating	the presence of reduced iron	
X       Saturation (A3)	Alpha alpha dipy HYDROLOG Wetland Hydro	SY logy Indicators:			il profile, a positive	e reaction was o			
X       Water Marks (B1)       Aquatic Invertebrates (B13)       Dry-Season Water Table (C2)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)       Saturation Visible on Aerial Imagery (C9)         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       X       Geomorphic Position (D2)         Algal Mat or Crust (B4)       X       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)       Raised Ant Mounds (D6) (LRR A)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Frost-Heave Hummocks (D7)         Sparsely Vegetated Concave Surface (B8)       Depth (inches): 0.5       Wetland         Field Observations:       Surface Water Present?       Yes       X       No         Saturation Present?       Yes       X       No       Depth (inches): surface (0)       Present?         Mater Table Present?       Yes       X       No       Depth (inches): surface (0)       Present?         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Remarks:       Remarks:       No	Alpha alpha dipy HYDROLOG Wetland Hydro Primary Indicato	SY logy Indicators: ors (minimum of one requ		II that apply)			Secondary Indica	tors (2 or more required)	
Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)       Saturation Visible on Aerial Imagery (C9)         Drift Deposits (B3)       Oxid/Zed Rhizospheres along Living Roots (C3)       X Geomorphic Position (D2)         Algal Mat or Crust (B4)       X 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)       Raised Ant Mounds (D6) (LRR A)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)       Frost-Heave Hummocks (D7)         Sufface Water Present?       Yes       X       No         Saturation Present?       Yes       X       No         Saturation Present?       Yes       X       No         Depth (inches):       surface (0)       Present?       Present?         Ves       X       No       Depth (inches):       surface (0)         Depth (inches):       surface (0)       Present?       Present?         Depth (inches):       surface (0)       Present?       No	Alpha alpha dipy HYDROLOG Wetland Hydro Primary Indicato X_Surface Wa	BY logy Indicators: ors (minimum of one requ ater (A1)		II that apply) Water-Stained Le	paves (B9) (except		Secondary Indica X Water-Staine	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2,	
Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       X       Geomorphic Position (D2)         Algal Mat or Crust (B4)       X       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)       Raised Ant Mounds (D6) (LRR A)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Frost-Heave Hummocks (D7)         Sparsely Vegetated Concave Surface (B8)       Depth (inches):       0.5       Wetland         Water Table Present?       Yes       X       No       Depth (inches):       surface (0)         Saturation Present?       Yes       X       No       Depth (inches):       surface (0)         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Remarks:       Remarks:	Alpha alpha dipy HYDROLOG Wetland Hydro Primary Indicato X Surface Wa X High Water	<b>GY</b> logy Indicators: ors (minimum of one requater (A1) Table (A2)		<u>II that apply)</u> Water-Stained Le 1, 2, 4A, and 4	paves (B9) (except		Secondary Indica X Water-Staine 4A, and 4	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, B)	
Algal Mat or Crust (B4)       X       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)       Raised Ant Mounds (D6) (LRR A)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Frost-Heave Hummocks (D7)         Sparsely Vegetated Concave Surface (B8)       Depth (inches):       0.5       Wetland         Field Observations:       Surface Water Present?       Yes       X       No       Depth (inches):       0.5       Wetland         Water Table Present?       Yes       X       No       Depth (inches):       surface (0)       Present?       No       Present?         Saturation Present?       Yes       X       No       Depth (inches):       surface (0)       Present?       Present?       No       Present?         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Remarks:       Remarks:       Remarks       Remarks	Alpha alpha dipy HYDROLOG Wetland Hydro Primary Indicato X Surface Wa X High Water X Saturation (	SY logy Indicators: ors (minimum of one requ ater (A1) Table (A2) (A3)		ll that apply) Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11)	eaves (B9) (except B)		Secondary Indica X Water-Staine 4A, and 4 Drainage Pa	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, B) tterns (B10)	
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)       Raised Ant Mounds (D6) (LRR A)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Frost-Heave Hummocks (D7)         Sparsely Vegetated Concave Surface (B8)       Depth (inches): 0.5       Wetland         Field Observations:       Surface Water Present?       Yes       X       No       Depth (inches): surface (0)       Wetland         Water Table Present?       Yes       X       No       Depth (inches): surface (0)       Present?       Yes       X       No         Saturation Present?       Yes       X       No       Depth (inches): surface (0)       Present?       Present?       No	Alpha alpha dipy HYDROLOG Wetland Hydro Primary Indicato X Surface Wa X High Water X Saturation ( X Water Mark	<b>BY</b> logy Indicators: ors (minimum of one requater (A1) Table (A2) (A3) (S (B1)		<u>ll that apply)</u> Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra	eaves (B9) (except B) ates (B13)		Secondary Indica X Water-Staine 4A, and 4 Drainage Pa Dry-Season	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2)	
Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A)   Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7)   Sparsely Vegetated Concave Surface (B8) Field Observations: 0.5   Surface Water Present? Yes X No   Vater Table Present? Yes X No   Saturation Present? Yes X No   Depth (inches): surface (0) Hydrology Yes   Yes X No Depth (inches): surface (0)   Baturation Present? Yes X No   Concludes capillary fringe) Depth (inches): surface (0)   Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Alpha alpha dipy HYDROLOG Wetland Hydro Primary Indicato X Surface Wa X High Water X Saturation ( X Water Mark Sediment D	<b>BY</b> logy Indicators: brs (minimum of one requ ater (A1) Table (A2) (A3) (A3) (s (B1) Deposits (B2)		II that apply) Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide	eaves (B9) (except B) ates (B13) Odor (C1)	t MLRA	Secondary Indica X Water-Staine 4A, and 4 Drainage Pa Dry-Season Saturation V	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9)	
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   Yes X No   Depth (inches): 0.5   Mater Table Present? Yes   Yes X   No Depth (inches):   surface (0) Hydrology   Yes X   No Depth (inches):   surface (0) Present?   Yes X   No Depth (inches):   surface (0) Present?   Present?    Remarks:	Alpha alpha dipy         HYDROLOG         Wetland Hydro         Primary Indicato         X         Surface Wa         X         High Water         X         Saturation (         X         Sediment D         Drift Deposi	<b>BY</b> logy Indicators: ors (minimum of one requater (A1) Table (A2) (A3) (A3) (A3) (S (B1) Deposits (B2) its (B3)	uired; check a	II that apply) Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp	eaves (B9) (except B) ates (B13) Odor (C1) heres along Living	t MLRA	Secondary Indica X Water-Staine 4A, and 4 Drainage Pa Dry-Season Saturation V X Geomorphic	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9) Position (D2)	
Sparsely Vegetated Concave Surface (B8)         Field Observations:         Surface Water Present?       Yes         X       No         Depth (inches):       0.5         Water Table Present?       Yes         Yes       X         No       Depth (inches):         saturation Present?       Yes         Yes       X         No       Depth (inches):         surface (0)       Hydrology         Present?       Yes         Yes       X         No       Depth (inches):         surface (0)       Present?         Present?       Yes         Support       No         Depth (inches):       surface (0)         Present?       Yes         No       Operation (inches):         Support       No         Depth (inches):       surface (0)         Present?       No         Depth (inches):       surface (0)         Present?       No         Support       No         No       Support         No       Support         Bert       No         Support       No         No<	Alpha alpha dipy HYDROLOG Wetland Hydro Primary Indicato X Surface Wa X High Water X Saturation ( X Water Mark Sediment D Drift Deposi Algal Mat o	<b>BY</b> logy Indicators: ors (minimum of one requater (A1) Table (A2) (A3) (A3) (A3) (A3) (A3) (A3) (A3) (A3	uired; check a	II that apply) Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp X Presence of Redu	eaves (B9) (except B) ates (B13) Odor (C1) heres along Living uced Iron (C4)	t MLRA g Roots (C3)	Secondary Indica X Water-Staine 4A, and 4I Drainage Pa Dry-Season Saturation V X Geomorphic Shallow Aqu	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9) Position (D2) itard (D3)	
Field Observations:       Ves       X       No       Depth (inches):       0.5       Wetland         Surface Water Present?       Yes       X       No       Depth (inches):       surface (0)       Hydrology       Yes       X       No	Alpha alpha dipy HYDROLOG Wetland Hydro Primary Indicato X Surface Wa X High Water X Saturation ( X Water Mark Sediment D Drift Deposi Algal Mat or Iron Deposi	<b>BY</b> <b>logy Indicators:</b> <u>ors (minimum of one requ</u> ater (A1) Table (A2) (A3) (	uired; check a	II that apply) Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp X Presence of Redu Recent Iron Redu	eaves (B9) (except B) ates (B13) Odor (C1) heres along Living uced Iron (C4) uction in Tilled Soil	t MLRA g Roots (C3) ls (C6)	Secondary Indica X Water-Staine 4A, and 4I Drainage Pa Dry-Season Saturation V X Geomorphic Shallow Aqu FAC-Neutral	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9) Position (D2) itard (D3) Test (D5)	
Surface Water Present?       Yes       X       No       Depth (inches):       0.5       Wetland         Water Table Present?       Yes       X       No       Depth (inches):       surface (0)       Hydrology       Yes       X       No       Present?         Saturation Present?       Yes       X       No       Depth (inches):       surface (0)       Present?       Yes       X       No       Present?         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Remarks:       Remarks:       Surface (0)	Alpha alpha dipy HYDROLOG Wetland Hydro Primary Indicato X Surface Wa X High Water X Saturation ( X Water Mark Sediment D Drift Deposi Algal Mat or Iron Deposi Surface Soi	<b>BY</b> <b>logy Indicators:</b> <u>prs (minimum of one requ</u> ent ater (A1) Table (A2) (A3) (A3) (S (B1) Deposits (B2) its (B3) r Crust (B4) its (B5) il Cracks (B6)	<u>uired; check a</u> 	II that apply) Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp X Presence of Redu Recent Iron Redu Stunted or Stress	eaves (B9) (except B) ates (B13) Odor (C1) heres along Living uced Iron (C4) uction in Tilled Soil ed Plants (D1) (Lf	t MLRA g Roots (C3) ls (C6)	Secondary Indica X Water-Staine 4A, and 4 Drainage Pa Dry-Season Saturation V X Geomorphic Shallow Aqu FAC-Neutral Raised Ant M	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9) Position (D2) itard (D3) Test (D5) <i>I</i> ounds (D6) (LRR A)	
Water Table Present?       Yes       X       No       Depth (inches): surface (0)       Hydrology       Yes       X       No         Saturation Present?       Yes       X       No       Depth (inches): surface (0)       Present?       Present?         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Remarks:       Remarks:	Alpha alpha dipy HYDROLOG Wetland Hydro Primary Indicato X Surface Wa X High Water X Saturation ( X Water Mark Sediment D Drift Deposi Algal Mat on Iron Deposi Surface Soi Inundation V	<b>BY</b> <b>logy Indicators:</b> <u>ors (minimum of one requ</u> ater (A1) Table (A2) (A3) (A3) (A3) (A3) (A3) (A3) (A3) (A3) (A3) (Case (B4)) its (B3) r Crust (B4) its (B5) il Cracks (B6) Visible on Aerial Imager	uired; check a	II that apply) Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp X Presence of Redu Recent Iron Redu Stunted or Stress	eaves (B9) (except B) ates (B13) Odor (C1) heres along Living uced Iron (C4) uction in Tilled Soil ed Plants (D1) (Lf	t MLRA g Roots (C3) ls (C6)	Secondary Indica X Water-Staine 4A, and 4 Drainage Pa Dry-Season Saturation V X Geomorphic Shallow Aqu FAC-Neutral Raised Ant M	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9) Position (D2) itard (D3) Test (D5) <i>I</i> ounds (D6) (LRR A)	
Water Table Present?       Yes       X       No       Depth (inches): surface (0)       Hydrology       Yes       X       No         Saturation Present?       Yes       X       No       Depth (inches): surface (0)       Present?       Present?         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Remarks:       Remarks:	Alpha alpha dipy  HYDROLOG  Wetland Hydro  Primary Indicato X Surface Wa X High Water X Saturation ( X Water Mark Sediment D Drift Deposi Algal Mat or Iron Deposi Surface Soi Inundation V	<b>BY</b> <b>logy Indicators:</b> <u>ors (minimum of one requ</u> ater (A1) Table (A2) (A3) (A3) (s (B1) Deposits (B2) its (B3) r Crust (B4) its (B5) il Cracks (B6) Visible on Aerial Imagery egetated Concave Surfa	uired; check a	II that apply) Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp X Presence of Redu Recent Iron Redu Stunted or Stress	eaves (B9) (except B) ates (B13) Odor (C1) heres along Living uced Iron (C4) uction in Tilled Soil ed Plants (D1) (Lf	t MLRA g Roots (C3) ls (C6)	Secondary Indica X Water-Staine 4A, and 4 Drainage Pa Dry-Season Saturation V X Geomorphic Shallow Aqu FAC-Neutral Raised Ant M	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9) Position (D2) itard (D3) Test (D5) <i>I</i> ounds (D6) (LRR A)	
Saturation Present? (includes capillary fringe)       Yes       X       No       Depth (inches): surface (0)       Present?         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Remarks:       Remarks:	Alpha alpha dipy HYDROLOG Wetland Hydro Primary Indicato X Surface Wa X High Water X Saturation ( X Water Mark Sediment D Drift Deposi Algal Mat or Iron Deposi Surface Soi Inundation Y Sparsely Ve Field Observati	<b>BY</b> <b>logy Indicators:</b> <u>ors (minimum of one requ</u> ater (A1) Table (A2) (A3) (A3) (A3) (A3) (A3) (Case (B1) (A3) (Case (B2) (A3) (Case (B2) (A3) (Case (B2) (Case (B2) (Case (B3) (Case (B4)) (Case (B5)) (Case (B5)) (Case (B5)) (Case (B6)) (Case (B6)) (Ca	uired; check a 	II that apply) Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp X Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	eaves (B9) (except B) ates (B13) Odor (C1) heres along Living uced Iron (C4) uction in Tilled Soil ed Plants (D1) (LF Remarks)	t MLRA g Roots (C3) lls (C6) RR A)	Secondary Indica X Water-Staine 4A, and 4I Drainage Pa Dry-Season Saturation V X Geomorphic Shallow Aqu FAC-Neutral Raised Ant M Frost-Heave	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9) Position (D2) itard (D3) Test (D5) <i>I</i> ounds (D6) (LRR A)	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	Alpha alpha dipy HYDROLOG Wetland Hydro Primary Indicato X Surface Wa X High Water X Saturation ( X Water Mark Sediment D Drift Deposi Algal Mat or Iron Deposi Surface Soi Inundation Sparsely Ve Field Observati	<b>BY</b> <b>logy Indicators:</b> <u>ors (minimum of one requ</u> ater (A1) Table (A2) (A3) (	uired; check a	II that apply) Water-Stained Lee 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp X Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	eaves (B9) (except B) ates (B13) Odor (C1) heres along Living uced Iron (C4) uction in Tilled Soil ed Plants (D1) (LF Remarks) Depth (inches):	t MLRA g Roots (C3) ls (C6) RR A) 0.5	Secondary Indica X Water-Staine 4A, and 4I Drainage Pa Dry-Season Saturation V X Geomorphic Shallow Aqu FAC-Neutral Raised Ant M Frost-Heave	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9) Position (D2) itard (D3) Test (D5) <i>I</i> ounds (D6) (LRR A) Hummocks (D7)	
	Alpha alpha dipy  HYDROLOG  Wetland Hydro  Primary Indicato X Surface Wa X High Water X Saturation ( X Water Mark Sediment D Drift Deposi Algal Mat or Iron Deposi Surface Soi Inundation Field Observati Surface Water Water Table Pri	<b>BY</b> <b>logy Indicators:</b> <u>ors (minimum of one requ</u> ater (A1) Table (A2) (A3) (	<u>uired; check a</u> 	II that apply) Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp X Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in No	Paves (B9) (except B) ates (B13) Odor (C1) heres along Living uced Iron (C4) uction in Tilled Soil ed Plants (D1) (Lf Remarks) Depth (inches): Depth (inches):	t MLRA g Roots (C3) ls (C6) RR A) 0.5 surface (0)	Secondary Indica X Water-Staine 4A, and 4I Drainage Pa Dry-Season Saturation V X Geomorphic Shallow Aqu FAC-Neutral Raised Ant M Frost-Heave	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9) Position (D2) itard (D3) Test (D5) <i>I</i> ounds (D6) (LRR A) Hummocks (D7)	
Remarks:	Alpha alpha dipy  HYDROLOG  Wetland Hydro  Primary Indicato X Surface Wa X High Water X Saturation ( X Water Mark Sediment D Drift Deposi Algal Mat or Iron Deposi Surface Soi Inundation Sparsely Ve Field Observati Surface Water I Water Table Pres	by logy Indicators: prs (minimum of one requ ater (A1) Table (A2) (A3) (	<u>uired; check a</u> 	II that apply) Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp X Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in No	Paves (B9) (except B) ates (B13) Odor (C1) heres along Living uced Iron (C4) uction in Tilled Soil ed Plants (D1) (Lf Remarks) Depth (inches): Depth (inches):	t MLRA g Roots (C3) ls (C6) RR A) 0.5 surface (0)	Secondary Indica X Water-Staine 4A, and 4I Drainage Pa Dry-Season Saturation V X Geomorphic Shallow Aqu FAC-Neutral Raised Ant M Frost-Heave	tors (2 or more required) ed Leaves (B9) (MLRA 1, 2, B) tterns (B10) Water Table (C2) isible on Aerial Imagery (C9) Position (D2) itard (D3) Test (D5) <i>I</i> ounds (D6) (LRR A) Hummocks (D7)	
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Parametrix

Project/Site:	Federal Way City Center Access		City/County:	Federal W	ay/King	Sampling Date:	1/7/2021
Applicant/Owner	City of Federal Way				State: Washingto	on Sampling Point	t: W17-SP-1
Investigator(s):	Trey Parry, Aaron Thom				Section, Township, Range:	T21N R04E S	S15
Landform (hillslop	e, terrace, etc.):	stream terra	се	Loca	al relief (concave, convex, none):	none Slop	be (%): <u>5-10%</u>
Subregion (LRR)	Northwest Forests and Coast	(LRR A))	Lat: 47.309956		Long: -122.290634	Datum: NA	D 1983 (HARN)
Soil Unit (Name-	ID-Hydric Rating): Alde	erwood gravelly sand	dy loam -	AgB	- Not Hydric NWI	classification:	None
Are climatic / hyd	Irologic conditions on the site typi	•			Yes X No	(If no, explain in Rem	narks)
Are Vegetation	, Soil				Are "Normal Circumstances" pre		<u>    X   </u> No <u> </u>
Are Vegetation	, Soil	, or Hydrology	naturally proble	ematic?	(If needed, explain any answers	in Remarks.)	
SUMMARY C	OF FINDINGS – Attach sit	e map showing	g sampling poir	nt locatio	ns, transects, important f	eatures, etc.	
Hydrophytic Veg	jetation Present?	Yes	No X				
Hydric Soil Pres	ent?	Yes	No X		npled Area		
Wetland Hydrold	ogy Present?	Yes X	No	within a V	Vetland? Yes	<u> </u>	_
Precipitation:							
According to the	Seattle Tacoma NOAA weather s	station, precipitation	was within the norm	nal range for	the three months prior to the site	visit.	
Remarks:							
	ated on a stream terrace of strea	m S3 a short distand	ce upslope of wetlan	nd W17.			
VEGETATIO	N					· · · · ·	
		Absolute	Dominant	Indicator	Dominance Test worksho	eet:	
Tree Stratum	(Plot size: <u>r=3m)</u>	<u>% Cover</u>	Species?	Status	Number of Dominant Spec		
1. none			_,		 That Are OBL, FACW, or F		(A)
2.							(/ ()
3.					<ul> <li>Total Number of Dominant</li> </ul>		
4.					Species Across All Strata:	3	(B)
		=	Total Cover				(2)
Sapling/Shrub S	Stratum (Plot size: <u>r=2m)</u>				Percent of Dominant Spec	ies	
1. Rubus spec		35%	Yes	FAC	That Are OBL, FACW, or F		<u>∕</u> (A/B)
2. Rubus ursin		10%	Yes	FACU	Prevalence Index worksh		(/
3.					Total % Cover of:		
4.					– OBL species	x 1 =	
5.					FACW species	x 2 =	
		45% =	Total Cover		FAC species	x 3 =	
Herb Stratum	(Plot size: <u>r=1m)</u>				FACU species	x 4 =	
1. Polystichum	munitum	20%	Yes	FACU	UPL species	x 5 =	
2.					Column Totals:	(A)	(B)
3.					Prevalence Inde	ex = B/A =	
4.					Hydrophytic Vegetation I	ndicators:	
5.					– 1 - Rapid Test for Hyd	rophytic Vegetation	
6.					2 - Dominance Test is	>50%	
7.					3 - Prevalence Index i	s ≤3.0 <sup>1</sup>	
8.					4 - Morphological Ada	ptations <sup>1</sup> (Provide suppo	orting
9.					data in Remarks of	r on a separate sheet)	-
10.					5 - Wetland Non-Vaso	cular Plants <sup>1</sup>	
11.					Problematic Hydrophy	/tic Vegetation (Explain) <sup>1</sup>	1
		20% =	Total Cover		<sup>1</sup> Indicators of hydric soil an	d wetland hydrology mu	st
Woody Vine Str	atum (Plot size: <u>r=2m)</u>				be present.		
1. <u>none</u>							
2					_ Hydrophytic	ing Na	
% Bare Ground	in Herb Stratum 0%	=	Total Cover		Vegetation Y Present?	esNo	<u>x</u>
Remarks:					I		

Parametrix

SOIL								
rofile Descript	ion (Describe to the d	lepth neede	d to document the in	dicator or confirm	m the absence	e of indicators):		
Depth	Matrix			Redox Fea	atures			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-7	10YR 3/2	100					GrL	
7-16	10YR 4/4	100					GrSaL	
	<u> </u>							
	<u> </u>							
vpe: C=Conce	ntration, D=Depletion, I	RM=Reduce	d Matrix, CS=Covered	or Coated Sand G	Grains. <sup>2</sup> Loc	ation: PL=Pore Lini	ng, M=Matrix,	
	•						e clay); - = light (less clay)	
	ators (Applicable to a						blematic Hydric Soils <sup>3</sup> :	
Histosol (A1)			Sandy Redox (S5			2 cm Muck (A		
		-		·		Red Parent M		
Histic Epiped		-	Stripped Matrix (S				. ,	
Black Histic (		-		neral (F1) (except N	VILKA I)		Dark Surface (TF12)	
Hydrogen Su			Loamy Gleyed Ma		4	Other (Explain	i ili Kemarks)	
	low Dark Surface (A11)	-	Depleted Matrix (F					
Thick Dark S		-	Redox Dark Surfa				ophytic vegetation and wetla	
	y Mineral (S1)	-	Depleted Dark Su				present, unless disturbed or	
Sandy Gleye	ed Matrix (S4)	-	Redox Depression	ns (Fð)		problematic.		
estrictive Laye	r (if present):							
Tvn	e: none					Hydric Soil		
1.14	lione							
Depth (inches): emarks:		blied to the to	op 12 inches of the soi	il profile, no reactio	on was observe	Present?	Yes	No <u>X</u>
Depth (inches): <b>emarks:</b>  pha alpha dipyr	n/a idyl test strips were app	blied to the to	op 12 inches of the soi	il profile, no reactio	on was observe		Yes	No <u>X</u>
Depth (inches): emarks: pha alpha dipyr	n/a idyl test strips were app	plied to the to	op 12 inches of the soi	il profile, no reactio	n was observe		Yes	No <u>X</u>
Depth (inches): emarks: lpha alpha dipyr	n/a idyl test strips were app Y ogy Indicators:			il profile, no reactio	on was observe	pd.		No <u>X</u>
Depth (inches): emarks: lpha alpha dipyr IYDROLOG /etland Hydrolo	n/a idyl test strips were app			il profile, no reactio	on was observe	pd.	Yes	No <u>X</u>
Depth (inches): emarks: lpha alpha dipyr IYDROLOG /etland Hydrolo rimary Indicators Surface Wate	n/a ridyl test strips were app <b>Y</b> ogy Indicators: s (minimum of one requ er (A1)		all that apply)	il profile, no reactio		ed. Secondary Indicate		No <u>X</u>
Depth (inches): emarks: lpha alpha dipyr IYDROLOG /etland Hydrolo rimary Indicators Surface Wate	n/a ridyl test strips were app <b>Y</b> ogy Indicators: s (minimum of one requ er (A1)		all that apply)	aves (B9) (except		ed. Secondary Indicate	ors (2 or more required) d Leaves (B9) (MLRA 1, 2,	No <u>X</u>
Depth (inches): emarks: lpha alpha dipyr IYDROLOG /etland Hydrolo /etland Hydrolo /imary Indicators Surface Wate XHigh Water T	n/a idyl test strips were app <b>f</b> ogy Indicators: s (minimum of one requ er (A1) Fable (A2)		all that apply) Water-Stained Le	aves (B9) (except		ed. <u>Secondary Indicat</u> <u>X</u> Water-Staine	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, .)	No <u>X</u>
Depth (inches): emarks: lpha alpha dipyr IYDROLOG Ietland Hydrolo rimary Indicators Surface Wate XHigh Water T XSaturation (A XWater Marks	n/a idyl test strips were app <b>Y</b> ogy Indicators: s (minimum of one requ er (A1) Table (A2) \3) ; (B1)		all that apply) Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra	aves (B9) (except 3) ates (B13)		ed. <u>Secondary Indicat</u> <u>X</u> Water-Stainer 4A, and 4B Drainage Patt Dry-Season V	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, ) terns (B10) Vater Table (C2)	No <u>X</u>
Depth (inches): emarks: lpha alpha dipyr VDROLOG Vetland Hydrold rimary Indicators Surface Water T K High Water T K Saturation (A K Water Marks K Sediment De	n/a idyl test strips were app f ogy Indicators: s (minimum of one requ s (minimum of one requ s (M1) Table (A2) v3) i (B1) eposits (B2)		all that apply) Water-Stained Le 1, 2, 4A, and 4f Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide	aves (B9) (except 3) ates (B13) Odor (C1)	MLRA	ed. <u>Secondary Indicat</u> <u>X</u> Water-Staine 4A, and 4B Drainage Pat Dry-Season V Saturation Vis	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, ) terns (B10) Vater Table (C2) sible on Aerial Imagery (C9)	No X
Depth (inches): emarks: lpha alpha dipyr IYDROLOG Ietland Hydrolo rimary Indicators Surface Wate XHigh Water T XSaturation (A XWater Marks	n/a idyl test strips were app f ogy Indicators: s (minimum of one requ s (minimum of one requ s (M1) Table (A2) v3) i (B1) eposits (B2)		all that apply) Water-Stained Le 1, 2, 4A, and 4f Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide	aves (B9) (except 3) ates (B13)	MLRA	ed. <u>Secondary Indicat</u> <u>X</u> Water-Stainer 4A, and 4B Drainage Patt Dry-Season V	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, ) terns (B10) Vater Table (C2) sible on Aerial Imagery (C9)	No <u>X</u>
Depth (inches): emarks: pha alpha dipyr YDROLOG YDROLOG Called High Vater T Called Water Takes Called Water Marks Called Water Marks Called Sediment De	n/a idyl test strips were app ogy Indicators: s (minimum of one requ er (A1) Table (A2) (3) 5 (B1) eposits (B2) 5 (B3)		all that apply) Water-Stained Le 1, 2, 4A, and 4f Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide	aves (B9) (except 3) ates (B13) Odor (C1) heres along Living	MLRA	ed. <u>Secondary Indicat</u> <u>X</u> Water-Staine 4A, and 4B Drainage Pat Dry-Season V Saturation Vis	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, ) terns (B10) Vater Table (C2) sible on Aerial Imagery (C9) Position (D2)	No <u>X</u>
Depth (inches): emarks: pha alpha dipyr YDROLOG Yetland Hydrolo rimary Indicators Surface Wate Aligh Water T Surface Wate Surface Marks Sediment De Drift Deposite	n/a idyl test strips were app y pgy Indicators: s (minimum of one required er (A1) Table (A2) \3) (B1) eposits (B2) s (B3) Crust (B4)		all that apply) Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu	aves (B9) (except 3) ates (B13) Odor (C1) heres along Living	MLRA Roots (C3)	ed. Secondary Indicate X Water-Stainer 4A, and 4B Drainage Pate Dry-Season V Saturation Vis X Geomorphic F	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, ) terns (B10) Vater Table (C2) sible on Aerial Imagery (C9) Position (D2) ard (D3)	No <u>X</u>
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Depth (inches): emarks: Ipha alpha dipyr IYDROLOG Vetland Hydrold rimary Indicators Surface Water X High Water T X Saturation (A X Sediment De Drift Deposits Algal Mat or Iron Deposits Surface Soil Inundation V	n/a idyl test strips were app f ogy Indicators: s (minimum of one requ s	<u>uired; check</u>	all that apply) Water-Stained Le 1, 2, 4A, and 4B Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress	aves (B9) (except 3) ates (B13) Odor (C1) heres along Living uced Iron (C4) ction in Tilled Soils ed Plants (D1) (LR	MLRA Roots (C3)	ed. Secondary Indicate X Water-Stainer 4A, and 4B Drainage Pate Dry-Season V Saturation Vis X Geomorphic I Shallow Aquit FAC-Neutral Raised Ant M	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, ) terns (B10) Vater Table (C2) sible on Aerial Imagery (C9) Position (D2) ard (D3) Test (D5) ounds (D6) (LRR A)	No <u>X</u>
Depth (inches): emarks: lpha alpha dipyr IYDROLOG IYDROLOG ITMARY Indicators Surface Water X Saturation (A X Water Marks X Sediment De Drift Deposits Algal Mat or ( Iron Deposits Surface Soil Inundation V Sparsely Veg	n/a idyl test strips were app y y pgy Indicators: s (minimum of one requ s (Marca (Marca)) s (B1) posits (B2) s (B3) Crust (B4) s (B5) Cracks (B6) isible on Aerial Imagery getated Concave Surfa	<u>uired; check</u>	all that apply) Water-Stained Le 1, 2, 4A, and 4B Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress	aves (B9) (except 3) ates (B13) Odor (C1) heres along Living uced Iron (C4) ction in Tilled Soils ed Plants (D1) (LR	MLRA Roots (C3)	ed. Secondary Indicate X Water-Stainer 4A, and 4B Drainage Pate Dry-Season V Saturation Vis X Geomorphic I Shallow Aquit FAC-Neutral Raised Ant M	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, ) terns (B10) Vater Table (C2) sible on Aerial Imagery (C9) Position (D2) ard (D3) Test (D5) ounds (D6) (LRR A)	No X
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US Army Corps of Engineers Western Mountains, Valleys, and Coast Region (Version 2.0)

Project/Site: F	ederal Way City Center Access		City/County:	Federal Way	/King	Sampling Date:	1/7/2021
Applicant/Owner:	City of Federal Way				State: Washingto	n Sampling Po	oint: W17-SP-2
Investigator(s):	Trey Parry, Aaron Thom			;	Section, Township, Range:		E S15
Landform (hillslope	e, terrace, etc.):	hillslope		Local r	elief (concave, convex, none):	none S	Slope (%): <u>5-10%</u>
Subregion (LRR):	Northwest Forests and Coast (L	.RR A))	Lat: 47.309910	Lo	ong: -122.290619	Datum:	NAD 1983 (HARN)
Soil Unit (Name-I	D-Hydric Rating): Alder	vood gravelly san	idy loam -	AgB	- Not Hydric NWI o	classification:	
•	rologic conditions on the site typica				/es X No		
Are Vegetation	, Soil	, or Hydrology	significantly dis		Are "Normal Circumstances" pre		es <u>X</u> No
Are Vegetation	, Soil				If needed, explain any answers		
	F FINDINGS – Attach site			nt locations	s, transects, important fe	atures, etc.	
Hydrophytic Veg		Yes	No <u>X</u>	Is the Samp	alad Araa		
Hydric Soil Prese Wetland Hydrolo		Yes X	No X	within a We		<u>No X</u>	
	gy 1 10001111	100 <u> </u>					
Precipitation: According to the	Seattle Tacoma NOAA weather sta	tion, precipitation	was within the norm	nal range for th	e three months prior to the site v	visit.	
_				Ū.			
Remarks:	is located on a steep slope above s	strop S3 and wat	and $W/18$ . This is the	naired sample	plot to W17 SP2		
This sample plot	is located off a steep slope above s	silea 35 anu weu		paired sample	plot to W17-3F3.		
VEGETATION	AI						
VEGETATION	<b>\</b>	Absolute	Dominant	Indicator	Dominance Test workshe		
Tree Stratum	(Plot size: <u>r=3m)</u>	% Cover	Species?	Status	Number of Dominant Speci		
1	(1 lot 3/20. <u>1 0/11/</u>	<u>.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		Oldius	That Are OBL, FACW, or F		1 (A)
1. <u>none</u> 2.					That Ale ODL, PAGW, OF PA	····	<u> </u>
3.					Total Number of Dominant		
4.					Species Across All Strata:		4 (B)
		0% =	= Total Cover		opecies Across Air Strata.		<u> </u>
Sapling/Shrub S	tratum (Plot size: <u>r=2m)</u>	0,0			Percent of Dominant Specie	es	
<sup>1.</sup> Rubus ursinu		20%	Yes	FACU	That Are OBL, FACW, or F		<u>25%</u> (A/B)
2. Rubus spect		15%	Yes	FAC	Prevalence Index worksh		(,,,_)
3.					Total % Cover of:	Multiply by:	
4.					OBL species 0	x 1 =	0
5.					FACW species 0	x 2 =	0
		35% =	- Total Cover		FAC species 15	x 3 =	45
Herb Stratum	(Plot size: <u>r=1m)</u>				FACU species 45	x 4 =	180
1. Polystichum	munitum	20%	Yes	FACU	UPL species 0	x 5 =	0
2. Geranium rol	bertianum	5%	Yes	FACU	Column Totals: 60	(A)	225 (B)
3.					Prevalence Inde	x = B/A =	3.75
4.					Hydrophytic Vegetation Ir	idicators:	
5.					1 - Rapid Test for Hydr	ophytic Vegetation	
6.					2 - Dominance Test is	>50%	
7.					3 - Prevalence Index is	s ≤3.0 <sup>1</sup>	
8.					4 - Morphological Adap	otations <sup>1</sup> (Provide su	pporting
9.					data in Remarks or	on a separate sheet	i)
10.					5 - Wetland Non-Vasc	ular Plants <sup>1</sup>	
11.					Problematic Hydrophy	ic Vegetation (Expla	in) <sup>1</sup>
Woody Vine Stra	atum (Plot size: <u>r=2m)</u>		= Total Cover		<sup>1</sup> Indicators of hydric soil and be present.	l wetland hydrology i	must
1. none							
2.					Hydrophytic		
% Bare Ground i	in Herb Stratum0%	0% =	= Total Cover		Vegetation Ye Present?	esNo	<u>x</u>
Remarks:					1		
1							

Parametrix

SOIL						Sampling Point:	W17-SP-2
Profile Descript	tion (Describe to the	depth needec	I to document the ir	ndicator or confirm the abser	nce of indicators):		
Depth	Matrix			Redox Features			
(inches)	Color (moist)	%	Color (moist)	% Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-11	10YR 3/2	100			<u> </u>	L	
11-16	10YR 4/4	100				GrSaL	
<sup>1</sup> Type: C=Conce	entration D=Depletion	RM=Reduced	Matrix CS=Covered	l or Coated Sand Grains. <sup>2</sup> L	ocation: PL=Pore Linir	ng M=Matrix	
				r: co = coarse; f = fine; vf = ver		-	
	cators (Applicable to					blematic Hydric Soils <sup>3</sup> :	
•		an Lixixə, univ					
Histosol (A1	,	-	Sandy Redox (S5	,	2 cm Muck (A		
Histic Epiped		-	Stripped Matrix (S		Red Parent M		
Black Histic		-		neral (F1) (except MLRA 1)		Dark Surface (TF12)	
Hydrogen Su			Loamy Gleyed Ma		Other (Explain	in Remarks)	
	elow Dark Surface (A12)	·)	Depleted Matrix (I		-		
	Surface (A12)	_	Redox Dark Surfa			phytic vegetation and wetlan	d
	xy Mineral (S1) ed Matrix (S4)	_	Depleted Dark Su Redox Depressio		hydrology must be problematic.	present, unless disturbed or	
		-		пѕ (го)	problematic.		
Restrictive Laye							
Тур	pe: none				Hydric Soil		
					Due 40		No X
Depth (inches):	: n/a				Present?	Yes	
Depth (inches):	: <u>n/a</u>				Present?	Yes	<u> </u>
Depth (inches): Remarks: HYDROLOG	Y				Present?	Yes	<u> </u>
Depth (inches): Remarks: HYDROLOG	Y ogy Indicators:						
Depth (inches): Remarks: HYDROLOG	Y	quired; check a	Ill that apply)			Yes	
Depth (inches): Remarks: HYDROLOG	Y ogy Indicators: rs (minimum of one rec	juired; check a		vaves (B9) (except MLRA	Secondary Indicate		
Depth (inches): Remarks: HYDROLOG Wetland Hydrole Primary Indicator	Y ogy Indicators: rs (minimum of one rec ter (A1)	quired; check a			Secondary Indicato Water-Stained 4A, and 4B	o <u>rs (2 or more required)</u> I Leaves (B9) (MLRA 1, 2,	
Depth (inches): Remarks: HYDROLOG Wetland Hydrold Primary Indicator Surface Wat High Water <sup>-1</sup> X Saturation ( <i>F</i>	Y ogy Indicators: rs (minimum of one red ter (A1) Table (A2) A3)	juired; check a	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11)	B)	Secondary Indicato Water-Stained 4A, and 4B Drainage Patte	o <u>rs (2 or more required)</u> I Leaves (B9) (MLRA 1, 2, ) erns (B10)	
Depth (inches): Remarks: HYDROLOG Wetland Hydrolo Primary Indicator Surface Wat High Water X Saturation ( <i>F</i> Water Marks	Y ogy Indicators: rs (minimum of one rec ter (A1) Table (A2) A3) s (B1)	juired; check a	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr	B) ates (B13)	Secondary Indicato Water-Stained 4A, and 4B Drainage Patte	o <u>rs (2 or more required)</u> I Leaves (B9) (MLRA 1, 2,	
Depth (inches): Remarks: HYDROLOG Wetland Hydrold Primary Indicator Surface Wat High Water <sup>-1</sup> X Saturation ( <i>F</i>	Y ogy Indicators: rs (minimum of one rec ter (A1) Table (A2) A3) s (B1)	<u>juired; check a</u> 	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11)	B) ates (B13)	Secondary Indicato Water-Staineo 4A, and 4B; Drainage Patte Dry-Season W	o <u>rs (2 or more required)</u> I Leaves (B9) (MLRA 1, 2, ) erns (B10)	
Depth (inches): Remarks: HYDROLOG Wetland Hydrole Primary Indicator Surface Wat High Water X Saturation (A Water Marks Sediment De Drift Deposit	Y ogy Indicators: rs (minimum of one rec ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3)	juired; check a - - - - - -	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp	B) ates (B13) Odor (C1) heres along Living Roots (C3)	Secondary Indicato Water-Stained 4A, and 4B; Drainage Patt Dry-Season W Saturation Vis Geomorphic F	ors (2 or more required) I Leaves (B9) (MLRA 1, 2, ) erns (B10) /ater Table (C2) ible on Aerial Imagery (C9) Position (D2)	
Depth (inches): Remarks: HYDROLOG Wetland Hydrold Primary Indicator Surface Wat High Water X Saturation (A Water Marks Sediment De	Y ogy Indicators: rs (minimum of one rec ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3)	juired; check a	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redu	B) ates (B13) Odor (C1) heres along Living Roots (C3) uced Iron (C4)	Secondary Indicato Water-Staineo 4A, and 4B Drainage Patto Dry-Season W Saturation Vis	ors (2 or more required) I Leaves (B9) (MLRA 1, 2, ) erns (B10) /ater Table (C2) ible on Aerial Imagery (C9) Position (D2)	
Depth (inches): Remarks: HYDROLOG Wetland Hydrolo Primary Indicator Surface Wat High Water X Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit	Y ogy Indicators: rs (minimum of one rec ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5)	<u>juired; check a</u> - - - - - - - - -	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu	B) ates (B13) Odor (C1) heres along Living Roots (C3) uced Iron (C4) action in Tilled Soils (C6)	Secondary Indicato Water-Stained 4A, and 4B; Drainage Patt Dry-Season W Saturation Vis Geomorphic F	ors (2 or more required) I Leaves (B9) (MLRA 1, 2, ) erns (B10) /ater Table (C2) ible on Aerial Imagery (C9) Position (D2) ard (D3)	
Depth (inches): Remarks: HYDROLOG Wetland Hydrolo Primary Indicator Surface Wat High Water X Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit	Y ogy Indicators: rs (minimum of one rec ter (A1) Table (A2) A3) s (B1) eposits (B2) rs (B3) Crust (B4)	<u>quired; check a</u> 	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu	B) ates (B13) Odor (C1) heres along Living Roots (C3) uced Iron (C4)	Secondary Indicato Water-Staineo 4A, and 4B) Drainage Patto Dry-Season W Saturation Vis Geomorphic F Shallow Aquita FAC-Neutral T Raised Ant Mo	ors (2 or more required) I Leaves (B9) (MLRA 1, 2, ) erns (B10) /ater Table (C2) ible on Aerial Imagery (C9) Position (D2) ard (D3) fest (D5) pounds (D6) (LRR A)	
Depth (inches): Remarks: HYDROLOG Wetland Hydrold Primary Indicator Surface Wate High Water X Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil	Y ogy Indicators: rs (minimum of one rec ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5)		Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu	B) ates (B13) Odor (C1) heres along Living Roots (C3) uced Iron (C4) action in Tilled Soils (C6) ed Plants (D1) (LRR A)	Secondary Indicato Water-Staineo 4A, and 4B) Drainage Patto Dry-Season W Saturation Vis Geomorphic F Shallow Aquita FAC-Neutral T Raised Ant Mo	ors (2 or more required) I Leaves (B9) (MLRA 1, 2, ) erns (B10) /ater Table (C2) ible on Aerial Imagery (C9) Position (D2) ard (D3) Fest (D5)	
Depth (inches): Remarks: HYDROLOG Wetland Hydrole Primary Indicator Surface Wat High Water X Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V	Y ogy Indicators: rs (minimum of one red ter (A1) Table (A2) A3) s (B1) eposits (B2) rs (B3) Crust (B4) s (B5) Cracks (B6)		Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress	B) ates (B13) Odor (C1) heres along Living Roots (C3) uced Iron (C4) action in Tilled Soils (C6) ed Plants (D1) (LRR A)	Secondary Indicato Water-Staineo 4A, and 4B) Drainage Patto Dry-Season W Saturation Vis Geomorphic F Shallow Aquita FAC-Neutral T Raised Ant Mo	ors (2 or more required) I Leaves (B9) (MLRA 1, 2, ) erns (B10) /ater Table (C2) ible on Aerial Imagery (C9) Position (D2) ard (D3) fest (D5) pounds (D6) (LRR A)	
Depth (inches): Remarks: HYDROLOG Wetland Hydrole Primary Indicator Surface Wat High Water X Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V	Y ogy Indicators: rs (minimum of one rec ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) ts (B5) Cracks (B6) /isible on Aerial Image getated Concave Surf		Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress	B) ates (B13) Odor (C1) heres along Living Roots (C3) uced Iron (C4) action in Tilled Soils (C6) ed Plants (D1) (LRR A)	Secondary Indicato Water-Staineo 4A, and 4B) Drainage Patto Dry-Season W Saturation Vis Geomorphic F Shallow Aquita FAC-Neutral T Raised Ant Mo	ors (2 or more required) I Leaves (B9) (MLRA 1, 2, ) erns (B10) /ater Table (C2) ible on Aerial Imagery (C9) Position (D2) ard (D3) fest (D5) pounds (D6) (LRR A)	
Depth (inches): Remarks: HYDROLOG Wetland Hydrold Primary Indicator Surface Wat High Water X Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V Sparsely Ve	Y ogy Indicators: rs (minimum of one rec ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) Cracks (B6) /isible on Aerial Image getated Concave Surf ons:		Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress	B) ates (B13) Odor (C1) heres along Living Roots (C3) uced Iron (C4) action in Tilled Soils (C6) ed Plants (D1) (LRR A)	Secondary Indicato Water-Staineo 4A, and 4B) Drainage Patto Dry-Season W Saturation Vis Geomorphic F Shallow Aquita FAC-Neutral T Raised Ant Mo	ors (2 or more required) I Leaves (B9) (MLRA 1, 2, ) erns (B10) /ater Table (C2) ible on Aerial Imagery (C9) Position (D2) ard (D3) fest (D5) pounds (D6) (LRR A)	
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Depth (inches): Remarks: HYDROLOG Wetland Hydrolo Primary Indicator Surface Water High Water X Saturation ( <i>A</i> Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V Sparsely Vet Field Observatio Surface Water F	Y ogy Indicators: rs (minimum of one rec ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) Cracks (B6) /isible on Aerial Image getated Concave Surfa ons: Present? Yes	ry (B7) ace (B8)	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebric Hydrogen Sulfide Oxidized Rhizosp Presence of Reduc Recent Iron Reduct Stunted or Stress Other (Explain in	B) ates (B13) Odor (C1) heres along Living Roots (C3) uced Iron (C4) action in Tilled Soils (C6) ed Plants (D1) (LRR A) Remarks)	Secondary Indicato Water-Staineo 4A, and 4B) Drainage Patte Dry-Season W Saturation Vis Geomorphic F Shallow Aquita FAC-Neutral T Raised Ant Mo Frost-Heave F	ors (2 or more required) I Leaves (B9) (MLRA 1, 2, ) erns (B10) /ater Table (C2) ible on Aerial Imagery (C9) Position (D2) ard (D3) Fest (D5) punds (D6) (LRR A) Aummocks (D7)	
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Project No.: 554-2441-022

Project/Site:	Federal Way City Center Access		City/County:	Federal Way/K	(ing	Sampling Date:	1/7/2021
Applicant/Owner	City of Federal Way				State: Washingto	n Sampling F	Point: W17-SP-3
Investigator(s):	Trey Parry, Aaron Thom			Se	ection, Township, Range:	T21N R04	4E S15
Landform (hillslop	e, terrace, etc.):	depression		Local rel	lief (concave, convex, none):	concave	Slope (%): < <u> &lt;3%</u>
Subregion (LRR)	: Northwest Forests and Coast (I	LRR A)) l	_at: 47.309860	Lon	g: <u>-122.290634</u>	Datum:	NAD 1983 (HARN)
Soil Unit (Name-	ID-Hydric Rating): Alder	wood gravelly sand	y loam -	AgB -	Not Hydric NWI	classification:	
•	Irologic conditions on the site typica	•		Ye			
Are Vegetation	, Soil , Soil	_, or Hydrology	significantly dis		e "Normal Circumstances" pre		Yes <u>X</u> No
Are Vegetation					needed, explain any answers		
	OF FINDINGS – Attach site			nt locations,	transects, important for	eatures, etc.	
			No	Is the Sample	d Area		
Hydric Soil Pres			No	within a Wetla	and 2		
Wetland Hydrold	ogy Present?	Yes X	No	within a wette	and? Yes <u>X</u>	No	
Precipitation:							
According to the	Seattle Tacoma NOAA weather sta	ation, precipitation v	vas within the norm	al range for the	three months prior to the site	visit.	
Remarks:							
	d within wetland W17 where strean	n S3 discharges to	the closed wetland	that has no direc	ct outlet. This is the paired sar	nple point to W17-S	P3
VEGETATIO	N						
		Absolute	Dominant	Indicator	Dominance Test workshe	et:	
Tree Stratum	(Plot size: <u>r=3m)</u>	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant Spec	ies	
1. none					That Are OBL, FACW, or F	AC:	1 (A)
2.							
3.					Total Number of Dominant		
4.					Species Across All Strata:		1 (B)
		0% =	Total Cover				
Sapling/Shrub S	Stratum (Plot size: <u>r=2m)</u>				Percent of Dominant Spec	ies	
1. Rubus spec	tabilis	70%	Yes	FAC	That Are OBL, FACW, or F	AC:	<u>100%</u> (A/B)
2. Sambucus r	acemosa	10%	No	FACU	Prevalence Index worksh	leet:	
3.					Total % Cover of:	Multiply by:	
4.					OBL species	x 1 =	
5.					FACW species	x 2 =	
		<u> </u>	Total Cover		FAC species	x 3 =	
<u>Herb Stratum</u>	(Plot size: <u>r=1m)</u>				FACU species	x 4 =	
1. <u>none</u>					UPL species	x 5 =	
2.					Column Totals:	(A)	(B)
3.					Prevalence Inde		
4.			·		Hydrophytic Vegetation I		
5.					1 - Rapid Test for Hyd	rophytic Vegetation	
6.					X 2 - Dominance Test is	, >50%	
7.					3 - Prevalence Index i	s ≤3.0 <sup>1</sup>	
8.					4 - Morphological Ada	ptations <sup>1</sup> (Provide su	upporting
9.					data in Remarks of	r on a separate shee	et)
10.					5 - Wetland Non-Vaso	ular Plants <sup>1</sup>	
11			·		Problematic Hydrophy	tic Vegetation (Expl	ain) <sup>1</sup>
		=	Total Cover		<sup>1</sup> Indicators of hydric soil an	d wetland hydrology	must
Woody Vine Str	atum (Plot size: <u>r=2m)</u>				be present.		
1. <u>none</u> 2.		<u> </u>			Hydrophytic		
Z		0% =	Total Cover			es X No	
% Bare Ground	in Herb Stratum				Present?	<u> </u>	
Remarks:							

Parametrix

ENGINEERING . PLANNING . ENVIRONMENTAL SCIENCES Project No.: 554-2441-022 

SOIL							Sampling Point:	W17-SP-3
	tion (Describe to the	depth needed	I to document the ir	dicator or co	nfirm the absend	e of indicators):	<b>3</b>	
Depth	` Matrix	-			Features	,		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-7	10YR 3/2	100					GrL	
7-16	2.5YR 4/2	80	10YR 4/6	20	С	M	GrSaL	
1 <b>.</b>								
	entration, D=Depletion					cation: PL=Pore Lini		
					t = fine; vt = very		e clay); - = light (less clay)	
-	cators (Applicable to	all LRRS, uni					oblematic Hydric Soils <sup>3</sup> :	
Histosol (A1	,	_	Sandy Redox (S5	,		2 cm Muck (A		
Histic Epipe		_	Stripped Matrix (S				laterial (TF2)	
Black Histic		-	Loamy Mucky Mir		ept MLRA 1)		Dark Surface (TF12)	
Hydrogen S		–	Loamy Gleyed Ma	. ,		Other (Explai	n in Remarks)	
	elow Dark Surface (A1	-	Depleted Matrix (I					
	Surface (A12)	_	X Redox Dark Surfa				ophytic vegetation and wetlan	d
	ky Mineral (S1)	_	Depleted Dark Su				present, unless disturbed or	
Sandy Gleye	ed Matrix (S4)	-	Redox Depressio	ns (F8)		problematic.		
Restrictive Laye	er (if present):							
Ту	pe:					Hydric Soil		
Depth (inches)	:	_				Present?	Yes X	No
HYDROLOG								
Wetland Hydrol	ogy Indicators:							
Primary Indicator	rs (minimum of one red	quired; check a	Ill that apply)			Secondary Indicat	ors (2 or more required)	
Surface Wa	ter (A1)	_	Water-Stained Le	aves (B9) (exe	cept MLRA	X Water-Staine	d Leaves (B9) (MLRA 1, 2,	
X High Water	Table (A2)		1, 2, 4A, and 4	3)		4A, and 4E	3)	
X Saturation (	,	_	Salt Crust (B11)			Drainage Pat	terns (B10)	
X Water Marks		_	Aquatic Invertebra			Dry-Season \	Water Table (C2)	
X Sediment D	eposits (B2)	_	Hydrogen Sulfide	Odor (C1)		Saturation Vis	sible on Aerial Imagery (C9)	
Drift Deposit		-	Oxidized Rhizosp	-		Geomorphic		
Algal Mat or		-	Presence of Redu	. ,		Shallow Aqui		
Iron Deposit		_	Recent Iron Redu		. ,	FAC-Neutral		
	Cracks (B6)		Stunted or Stress		) (LRR A)		lounds (D6) (LRR A)	
	/isible on Aerial Image		Other (Explain in	Remarks)		Frost-Heave	Hummocks (D7)	
Sparsely Ve	getated Concave Surf	ace (B8)						
Field Observation	ons:							
Surface Water F		I	No <u>X</u>	Depth (inches	s):	Wetland		
Water Table Pre	esent? Yes	<u> </u>	No	Depth (inches	s): <u> </u>	Hydrology	Yes X	No
Saturation Prese (includes capilla			No	Depth (inches	s): <u>surface (0)</u>	Present?		
Describe Reco	rded Data (stream ga	uge, monitori	ng well, aerial photo	os, previous i	nspections), if av	ailable:		
Dama I			-		-			
Remarks:								

Project/Site:	Federal Way City Center Access		City/County:	Federal W	ay/King	Sampling Date:	1/7/2021
Applicant/Owner:	City of Federal Way				State: Washin	gton Sampling	Point: W18-SP-1
Investigator(s):	Trey Parry, Aaron Thom			_	Section, Township, Range:	T21N R0	04E S15
Landform (hillslop	e, terrace, etc.):	hillslope		Loc	al relief (concave, convex, none):	none	Slope (%): <3%
Subregion (LRR)	: Northwest Forests and Coas	t (LRR A))	Lat: 47.309986	_	Long: -122.289688	Datum:	NAG 1983 (HARN)
Soil Unit (Name-I	D-Hydric Rating): Ald	erwood gravelly san	idy loam -	AgB		WI classification:	None
•	rologic conditions on the site typ	•			Yes <u>X</u> No		
Are Vegetation	, Soil	, or Hydrology	significantly dis	turbed?	Are "Normal Circumstances"	•	Yes X No
Are Vegetation	, Soil				(If needed, explain any answ		
	F FINDINGS – Attach si			<u>nt locatio</u>	ns, transects, importan	t features, etc.	
, , , ,	etation Present?	Yes	No X	ls the Sa	mpled Area		
Hydric Soil Prese		Yes	No X No X	within a V		Na	v
Wetland Hydrolc	gy Present?	Yes	No <u>X</u>		Wetland? Yes	<u> </u>	<u>×</u>
Precipitation:	Seattle Tacoma NOAA weather	station precipitation	was within the norm	nal range for	the three months prior to the s	ite visit	
According to the				iai iange ioi	the three months prior to the s	ite visit.	
Remarks:							
This sample plot	is located upslope and outside o	f wetland W18.					
VEGETATIO	N						
		Absolute	Dominant	Indicator	Dominance Test work	sheet:	
Tree Stratum	(Plot size: <u>r=3m)</u>	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant Sp	pecies	
1. Thuja plicata	1	50%	Yes	FAC	That Are OBL, FACW, o	or FAC:	1 (A)
2.					_		
3.					Total Number of Domina	ant	
4.					Species Across All Stra	a:	<u>3</u> (B)
		50% =	= Total Cover				
Sapling/Shrub S	Stratum (Plot size: <u>r=2m)</u>				Percent of Dominant Sp		
1. <u>Gaultheria si</u>		25%	Yes	FACU	That Are OBL, FACW, o		<u>33%</u> (A/B)
2. Rubus ursin	us	5%	No	FACU	Prevalence Index work		
3.							
4.					OBL species	x1 =	
5.					FACW species	x 2 =	
Herb Stratum	(Dist size, r=1m)	<u> </u>	= Total Cover		FAC species	x 3 =	
	(Plot size: <u>r=1m)</u>	000/	N	FACILI	FACU species	x 4 =	
<ol> <li>Polystichum</li> <li>2.</li> </ol>	munitum		Yes	FACU	UPL species Column Totals:	x 5 =	(P)
3.					-	(A) ndex = B/A =	(B)
4.					Hydrophytic Vegetatio		
4. 5.						Hydrophytic Vegetation	
6.					2 - Dominance Tes		1
7.					3 - Prevalence Inde		
8.						Adaptations <sup>1</sup> (Provide s	supporting
9.		_				s or on a separate she	•
10.					- 5 - Wetland Non-V		01)
11.						phytic Vegetation (Exp	lain) <sup>1</sup>
····		30% =	= Total Cover		<sup>1</sup> Indicators of hydric soil		
Woody Vine Stra	atum (Plot size: <u>r=2m)</u>				be present.		ymaor
1. <u>none</u>							
2					Hydrophytic		
% Bare Ground	in Herb Stratum0%		= Total Cover		Vegetation Present?	Yes No	<u> </u>
Remarks:							
-							

Parametrix

SOIL							Sampling Point:	W18-SP-1
	tion (Describe to the d	epth needed	I to document the ir	dicator or con	firm the absen	nce of indicators):		
Depth	Matrix			Redox I	Features			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-7	10YR 3/2	100						
7-16	7.5YR 5/8	100					GrL	
<sup>1</sup> Type: C=Conce	entration, D=Depletion, F	M=Reduced	Matrix CS=Covered	l or Coated Sar	nd Grains $^{2}$	ocation: PL=Pore Linin	g M=Matrix	
	nd; Si = silt; C = clay; L =						-	
	cators (Applicable to a						plematic Hydric Soils <sup>3</sup> :	
- Histosol (A1			Sandy Redox (S5			2 cm Muck (A1		
Histic Epipe	,	-	Stripped Matrix (S	·		Red Parent Ma		
Black Histic		-	Loamy Mucky Mi		pt MI RA 1)		Dark Surface (TF12)	
Hydrogen S		-	Loamy Gleyed M			Other (Explain		
	elow Dark Surface (A11)	_	Depleted Matrix (				-/	
	Surface (A12)	—	Redox Dark Surfa			3		
	ky Mineral (S1)	-	Depleted Dark Su				phytic vegetation and wetlar present, unless disturbed or	
	ed Matrix (S4)	-	Redox Depressio			problematic.		
Restrictive Lay				. ,				
-	pe:					Hydric Soil		
Depth (inches)						Present?	Yes	No X
Bopar (monoc)						i rocontri		<u> </u>
HYDROLOG Wetland Hydrol								
-	rs (minimum of one requ	irad: abaak a	ll that apply)			Sacandan/Indicata	ra (2 ar mara raquirad)	
	· · · ·	ILEU, CHECK a				-	rs (2 or more required)	
Surface Wa	( )	-	Water-Stained Le		ept MLRA		Leaves (B9) (MLRA 1, 2,	
High Water Saturation (			1, 2, 4A, and 4	в)		4A, and 4B)		
Water Mark	,	_	Salt Crust (B11) Aquatic Invertebr	atos (R13)		Drainage Patte	ater Table (C2)	
	eposits (B2)	-	Hydrogen Sulfide				ble on Aerial Imagery (C9)	
Drift Deposi		-	Oxidized Rhizosp		ing Roots (C3)	Geomorphic P		
Algal Mat or		-	Presence of Red			Shallow Aquita		
Iron Deposi		-	Recent Iron Redu		oils (C6)	FAC-Neutral T		
	Cracks (B6)		Stunted or Stress		( )		unds (D6) (LRR A)	
	/isible on Aerial Imagery	(B7)	Other (Explain in		(=(((),()))		ummocks (D7)	
	getated Concave Surfac							
Field Observati	-	< - <i>y</i>						
Surface Water I			No X	Depth (inches)	۱.	Wetland		
Water Table Pre				Depth (inches)		Hydrology	Yes	No X
Saturation Pres	_		No X	Depth (inches)		Present?	103	
(includes capilla		· · · · ·		Depth (inches)		Tresent		
Describe Reco	rded Data (stream gau	ge, monitori	ng well, aerial photo	os, previous in	spections), if a	available:		
Pomerka-								
Remarks:								

Project/Site: Fe	ederal Way City Center Access		City/County:	Federal Way/	King	Sampling Date:	1/7/2021
Applicant/Owner:	City of Federal Way				State: Washington	Sampling Point:	W18-SP-2
Investigator(s):	Trey Parry, Aaron Thom				Section, Township, Range:	T21N R04E S	15
Landform (hillslope,	terrace, etc.):	Depress	ion		elief (concave, convex, none): <u>co</u>	ncave Slope	e (%): <u>&lt;3%</u>
Subregion (LRR):	Northwest Forests and Coast	(LRR A))	Lat: 47.309940	Lo	ng: -122.289696	Datum: NAD	D 1983 (HARN)
	-Hydric Rating): Alde						None
	blogic conditions on the site typi					(If no, explain in Rema	,
Are Vegetation Are Vegetation	, Soil, Soil	, or Hydrology	significantly dis	sturbed? A	re "Normal Circumstances" prese f needed, explain any answers in l		<u>X</u> No
			* · * ·	nt locations	, transects, important feat	ures, etc.	
Hydrophytic Vege Hydric Soil Preser		Yes X Yes X		Is the Samp	led Area		
Wetland Hydrolog		Yes X		within a Wet	lland? Yes X	No	
	, , , , , , , , , , , , , , , , , , ,	<u> </u>					
Precipitation: According to the S	eattle Tacoma NOAA weather	station, precipitatio	on was within the norr	nal range for the	e three months prior to the site visi	t.	
_							
Remarks:	located within watland W/19 on	d is the paired as	mpla plat to W/19 SD1	This wotland h	as a highly constricted outlet that	diaghargag dawnalang	during parioda
of heavy rain (1/7/2		u is the palled sai			as a highly constricted outlet that o	lischarges downslope	during periods
	,						
VEGETATION							
VEGLIATION		Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum	(Plot size: <u>r=3m)</u>	<u>% Cover</u>	Species?	Status	Number of Dominant Species		
<sup>1.</sup> none	(1 lot 3ize. <u>1 onl</u>	<u>/// 00/01</u>		Olalus	That Are OBL, FACW, or FAC		(A)
2.			·		That Are OBE, I AOW, OF I AO	· <u> </u>	(<)
3.					Total Number of Dominant		
4.					Species Across All Strata:	2	(B)
		0%	= Total Cover				( )
Sapling/Shrub St	ratum (Plot size: <u>r=2m)</u>		-		Percent of Dominant Species		
1. Rubus specta	bilis	40%	Yes	FAC	That Are OBL, FACW, or FAC	: <u>100%</u>	<u>(A/B)</u>
2.		20%	Yes	FAC	Prevalence Index worksheet	::	
3.						Multiply by:	_
4					· · · · · · · · · · · · · · · · · · ·	x 1 =	
5				_	· · · · · · · · · · · · · · · · · · ·	x 2 =	
		60%	= Total Cover		· · · · · · · · · · · · · · · · · · ·	x 3 =	
Herb Stratum	(Plot size: <u>r=1m)</u>				·	x 4 = x 5 =	
1. <u>none</u> 2.					· · · · · · · · · · · · · · · · · · ·	(A)	(B)
3.			<u> </u>		Prevalence Index :		(D)
4.					Hydrophytic Vegetation Indi		
5.					1 - Rapid Test for Hydrop		
6.					X 2 - Dominance Test is >5		
7.					3 - Prevalence Index is ≤	3.0 <sup>1</sup>	
8.					4 - Morphological Adapta	tions <sup>1</sup> (Provide suppor	rting
9.					data in Remarks or on	a separate sheet)	
10.					5 - Wetland Non-Vascula	r Plants <sup>1</sup>	
11					Problematic Hydrophytic	Vegetation (Explain) <sup>1</sup>	
		0%	= Total Cover		<sup>1</sup> Indicators of hydric soil and w	etland hydrology mus	it.
Woody Vine Strat 1. none	tum (Plot size: <u>r=2m)</u>				be present.		
2.					Hydrophytic		
		0%	= Total Cover		Vegetation Yes	X No	
% Bare Ground ir	Herb Stratum 40%		-		Present?		
Remarks:							
	estimated from photo.						

# **Parametrix**

SOIL							Sampling Point:	W18-SP-2
Profile Descript	tion (Describe to the	depth neede	d to document the in	dicator or co	nfirm the absence	e of indicators):		
Depth	Matrix			Redox	Features			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-4	10YR 3/4	100					L	
4-12	10YR 2/2	87	10YR 4/6	10	С	M		
4-12				3	D	M		
12-16	10YR 3/3	80	10YR 3/6	20	С	Μ	L	
<sup>1</sup> Type <sup>-</sup> C=Conce	entration, D=Depletion,	RM=Reduce	d Matrix CS=Covered	or Coated Sa	nd Grains <sup>2</sup> Loc	ation: PL=Pore Lini	ing M=Matrix	
	•						e clay); - = light (less clay)	
	cators (Applicable to				, ,		oblematic Hydric Soils <sup>3</sup> :	
Histosol (A1		,	Sandy Redox (S5			2 cm Muck (A		
Histic Epiped	,	-	Stripped Matrix (S				Naterial (TF2)	
Black Histic		-	Loamy Mucky Min		ent MI RA 1)	_	Dark Surface (TF12)	
Hydrogen Si		-	Loamy Gleyed Ma				n in Remarks)	
	elow Dark Surface (A11	-	Depleted Matrix (F					
	Surface (A12)	,	Redox Dark Surfa			3		
	xy Mineral (S1)	-	Depleted Dark Su				ophytic vegetation and wetlan present, unless disturbed or	d
	ed Matrix (S4)	-	X Redox Depression			problematic.	present, unless disturbed of	
Restrictive Laye		-		( )				
-	pe: none					Hydric Soil		
						Present?	Yes X	No
	·							
Depth (inches)	: <u>n/a</u>							
	: n/a			7				
Depth (inches) Remarks: HYDROLOG	Y							
Depth (inches) Remarks: HYDROLOG	Y ogy Indicators:							
Depth (inches) Remarks: HYDROLOG Wetland Hydrole Primary Indicator	Y ogy Indicators: rs (minimum of one rec	juired; check				Secondary Indicat	ors (2 or more required)	
Depth (inches) Remarks: HYDROLOG Wetland Hydrolo Primary Indicator Surface Wat	Y ogy Indicators: rs (minimum of one rec ter (A1)	juired; check :	Water-Stained Le		cept MLRA	Secondary Indicat Water-Staine	ors (2 or more required) d Leaves (B9) (MLRA 1, 2,	
Depth (inches) Remarks: HYDROLOG Wetland Hydrol Primary Indicator Surface Wat X High Water	Y ogy Indicators: rs (minimum of one rec ter (A1) Table (A2)	<u>juired; check :</u> -	Water-Stained Lea 1, 2, 4A, and 4E		cept MLRA	Secondary Indicat Water-Staine 4A, and 4E	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, 3)	
Depth (inches) Remarks: HYDROLOG Wetland Hydrole Primary Indicator Surface Wat X High Water X Saturation (A	Y ogy Indicators: rs (minimum of one rec ter (A1) Table (A2) A3)	<u>juired; check ;</u>	Water-Stained Le 1, 2, 4A, and 4E Salt Crust (B11)	3)	cept MLRA	Secondary Indicat Water-Staine 4A, and 4E Drainage Pat	<u>cors (2 or more required)</u> d Leaves (B9) (MLRA 1, 2, 3) terns (B10)	
Depth (inches) Remarks: HYDROLOG Wetland Hydrolo Primary Indicator Surface Wat X High Water X Saturation ( <i>I</i> X Water Marks	Y ogy Indicators: rs (minimum of one rec ter (A1) Table (A2) A3) s (B1)	juired; check - - -	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra	3) ates (B13)	cept MLRA	Secondary Indicat Water-Staine 4A, and 4E Drainage Pat Dry-Season	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, 3) terns (B10) Water Table (C2)	
Depth (inches) Remarks: HYDROLOG Wetland Hydrolo Primary Indicator Surface Wat X High Water X Saturation (/ X Water Marks Sediment De	Y ogy Indicators: rs (minimum of one rec ter (A1) Table (A2) A3) s (B1) eposits (B2)	juired; check - - - -	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide	3) ates (B13) Odor (C1)		Secondary Indicat Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vi	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, 3) terns (B10) Water Table (C2) sible on Aerial Imagery (C9)	
Depth (inches) Remarks: HYDROLOG Wetland Hydrole Primary Indicator Surface Wat X High Water X High Water X Saturation (# X Water Marks Sediment De Drift Deposit	Y ogy Indicators: rs (minimum of one rec ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3)	<u>juired; check ;</u> - - - -	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl	3) ates (B13) Odor (C1) heres along Liv	ving Roots (C3)	Secondary Indicat Water-Staine 4A, and 4E Drainage Pat Dry-Season Vi Saturation Vi X Geomorphic	tors (2 or more required) d Leaves (B9) (MLRA 1, 2, 3) terns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2)	
Depth (inches) Remarks: HYDROLOG Wetland Hydrolo Primary Indicator Surface Wat X High Water X Saturation (/ X Water Marks Sediment De Drift Deposit Algal Mat or	Y ogy Indicators: rs (minimum of one rec ter (A1) Table (A2) A3) s (B1) eposits (B2) rs (B3) Crust (B4)	<u>juired; check -</u> - - - - -	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl Presence of Redu	3) otes (B13) Odor (C1) heres along Liv iced Iron (C4)	ving Roots (C3)	Secondary Indicat Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vi X Geomorphic Shallow Aqui	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, 3) terns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3)	
Depth (inches)  Remarks:  HYDROLOG  Wetland Hydrolo  Primary Indicator Surface Wat  X High Water  X Saturation ( <i>I</i> X Saturation ( <i>I</i> X Sediment De Drift Deposit Algal Mat or Iron Deposit	Y ogy Indicators: rs (minimum of one rec ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5)	juired; check - - - - - - - -	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl Presence of Redu Recent Iron Redu	3) Odor (C1) heres along Lin uced Iron (C4) ction in Tilled S	ving Roots (C3) Soils (C6)	Secondary Indicat Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vi X Geomorphic Shallow Aqui FAC-Neutral	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, 3) terns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5)	
Depth (inches) Remarks: HYDROLOG Wetland Hydrold Primary Indicator Surface Wata X High Water X Saturation (A X Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil	Y ogy Indicators: rs (minimum of one rec ter (A1) Table (A2) A3) s (B1) eposits (B2) rs (B3) Crust (B4) s (B5) Cracks (B6)		Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Redu Stunted or Stresse	3) Odor (C1) heres along Liv uced Iron (C4) ction in Tilled S ed Plants (D1)	ving Roots (C3) Soils (C6)	Secondary Indicat Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vi X Geomorphic Shallow Aqui FAC-Neutral Raised Ant M	tors (2 or more required) d Leaves (B9) (MLRA 1, 2, 3) terns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) Iounds (D6) (LRR A)	
Depth (inches) Remarks: HYDROLOG Wetland Hydrol Primary Indicator Surface Wat X High Water X High Water X Saturation (/ X Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V	Y ogy Indicators: rs (minimum of one rec ter (A1) Table (A2) A3) s (B1) eposits (B2) is (B3) Crust (B4) s (B5) Cracks (B6) /isible on Aerial Imager	- - - - - - - - - - - - - - - - - - -	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl Presence of Redu Recent Iron Redu	3) Odor (C1) heres along Liv uced Iron (C4) ction in Tilled S ed Plants (D1)	ving Roots (C3) Soils (C6)	Secondary Indicat Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vi X Geomorphic Shallow Aqui FAC-Neutral Raised Ant M	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, 3) terns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5)	
Depth (inches)  Remarks:  HYDROLOG  Wetland Hydrolo  Primary Indicator Surface Wat X High Water X Saturation (# X Saturation (# X Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V Sparsely Ve	Y ogy Indicators: rs (minimum of one reco ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) Cracks (B6) /isible on Aerial Imager getated Concave Surfa	- - - - - - - - - - - - - - - - - - -	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Redu Stunted or Stresse	3) Odor (C1) heres along Liv uced Iron (C4) ction in Tilled S ed Plants (D1)	ving Roots (C3) Soils (C6)	Secondary Indicat Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vi X Geomorphic Shallow Aqui FAC-Neutral Raised Ant M	tors (2 or more required) d Leaves (B9) (MLRA 1, 2, 3) terns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) Iounds (D6) (LRR A)	
Depth (inches)  Remarks:  HYDROLOG  Wetland Hydrolo  Primary Indicator  Surface Wat  X High Water  X Saturation (/  X Water Marks  Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V Sparsely Ve Field Observatio	Y ogy Indicators: rs (minimum of one rec ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) Cracks (B6) /isible on Aerial Imager getated Concave Surfa	- 	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl Presence of Redu Recent Iron Redu Stunted or Stresse Other (Explain in F	3) Odor (C1) heres along Liv uced Iron (C4) ction in Tilled S ed Plants (D1) Remarks)	ving Roots (C3) Soils (C6) (LRR A)	Secondary Indicat Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vi X Geomorphic Shallow Aqui FAC-Neutral Raised Ant M Frost-Heave	tors (2 or more required) d Leaves (B9) (MLRA 1, 2, 3) terns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) Iounds (D6) (LRR A)	
Depth (inches)  Remarks:  HYDROLOG  Wetland Hydrolo  Primary Indicator Surface Water X High Water X High Water X Saturation (/ X Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V Sparsely Ve  Field Observatio Surface Water F	Y ogy Indicators: rs (minimum of one rec ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) Cracks (B6) /isible on Aerial Imager getated Concave Surfa ons: Present? Yes		Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl Presence of Redu Recent Iron Redu Stunted or Stresse Other (Explain in F	3) Odor (C1) heres along Lin iced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) Depth (inches	ving Roots (C3) Soils (C6) (LRR A)	Secondary Indicat Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vi X Geomorphic Shallow Aqui FAC-Neutral Raised Ant M Frost-Heave	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, 3) terns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) Iounds (D6) (LRR A) Hummocks (D7)	
Depth (inches)  Remarks:  HYDROLOG  Wetland Hydrolo  Primary Indicator Surface Water X High Water X Saturation ( <i>I</i> X Saturation ( <i>I</i> X Saturation ( <i>I</i> X Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V Sparsely Ve Field Observatio Surface Water Fi Water Table Pre-	Y ogy Indicators: rs (minimum of one rec ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) Cracks (B6) /isible on Aerial Imager getated Concave Surfa ons: Present? Yes	ry (B7) ace (B8)	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl Presence of Redu Recent Iron Redu Stunted or Stresse Other (Explain in F	3) ates (B13) Odor (C1) heres along Liv iced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) Depth (inches Depth (inches	ving Roots (C3) Soils (C6) 0 (LRR A) s):s):s):surface (0)	Secondary Indicat Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vi X Geomorphic Shallow Aqui FAC-Neutral Raised Ant M Frost-Heave	tors (2 or more required) d Leaves (B9) (MLRA 1, 2, 3) terns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) Iounds (D6) (LRR A)	
Depth (inches)  Remarks:  HYDROLOG  Wetland Hydrolo  Primary Indicator Surface Water X High Water X High Water X Saturation (/ X Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V Sparsely Ve  Field Observatio Surface Water F	Y ogy Indicators: rs (minimum of one reco ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) Cracks (B6) /isible on Aerial Imager getated Concave Surfa ons: Present? Yes sent? Yes	ry (B7) ace (B8)	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl Presence of Redu Recent Iron Redu Stunted or Stresse Other (Explain in F	3) ates (B13) Odor (C1) heres along Liv iced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) Depth (inches Depth (inches	ving Roots (C3) Soils (C6) (LRR A)	Secondary Indicat Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vi X Geomorphic Shallow Aqui FAC-Neutral Raised Ant M Frost-Heave	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, 3) terns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) Iounds (D6) (LRR A) Hummocks (D7)	
Depth (inches)  Remarks:  HYDROLOG  Wetland Hydrold  Primary Indicator Surface Wata X High Water X Saturation (/ X Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Algal Mat or Iron Deposit Surface Soil Inundation V Sparsely Ve  Field Observatio Surface Water F Water Table Prese (includes capillar)	Y ogy Indicators: rs (minimum of one reco ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) Cracks (B6) /isible on Aerial Imager getated Concave Surfa ons: Present? Yes sent? Yes	ry (B7) ace (B8) x x x	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Redu Stunted or Stresse Other (Explain in F	3) ates (B13) Odor (C1) heres along Liv iced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) Depth (inchess Depth (inchess Depth (inchess	ving Roots (C3) Soils (C6) (LRR A) s): <u>surface (0)</u> s): <u>surface (0)</u>	Secondary Indicat Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vi X Geomorphic Shallow Aqui FAC-Neutral Raised Ant M Frost-Heave Wetland Hydrology Present?	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, 3) terns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) Iounds (D6) (LRR A) Hummocks (D7)	
Depth (inches)  Remarks:  HYDROLOG  Wetland Hydrold  Primary Indicator Surface Wata X High Water X Saturation (/ X Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Algal Mat or Iron Deposit Surface Soil Inundation V Sparsely Ve  Field Observatio Surface Water F Water Table Prese (includes capillar)	Y ogy Indicators: rs (minimum of one rec ter (A1) Table (A2) A3) s (B1) eposits (B2) is (B3) Crust (B4) s (B5) Cracks (B6) /isible on Aerial Imager getated Concave Surfa ons: Present? Yes esent? Yes ent? Yes	ry (B7) ace (B8) x x x	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Redu Stunted or Stresse Other (Explain in F	3) ates (B13) Odor (C1) heres along Liv iced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) Depth (inchess Depth (inchess Depth (inchess	ving Roots (C3) Soils (C6) (LRR A) s): <u>surface (0)</u> s): <u>surface (0)</u>	Secondary Indicat Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vi X Geomorphic Shallow Aqui FAC-Neutral Raised Ant M Frost-Heave Wetland Hydrology Present?	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, 3) terns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) Iounds (D6) (LRR A) Hummocks (D7)	
Depth (inches)  Remarks:  HYDROLOG  Wetland Hydrolo  Primary Indicator Surface Wate X High Water X Saturation (/ X Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation v Sparsely Ve Field Observatio Surface Water F Water Table Prese (includes capillar  Describe Recom	Y ogy Indicators: rs (minimum of one rec ter (A1) Table (A2) A3) s (B1) eposits (B2) is (B3) Crust (B4) s (B5) Cracks (B6) /isible on Aerial Imager getated Concave Surfa ons: Present? Yes esent? Yes ent? Yes	ry (B7) ace (B8) x x x	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Redu Stunted or Stresse Other (Explain in F	3) ates (B13) Odor (C1) heres along Liv iced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) Depth (inchess Depth (inchess Depth (inchess	ving Roots (C3) Soils (C6) (LRR A) s): <u>surface (0)</u> s): <u>surface (0)</u>	Secondary Indicat Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vi X Geomorphic Shallow Aqui FAC-Neutral Raised Ant M Frost-Heave Wetland Hydrology Present?	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, 3) terns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) Iounds (D6) (LRR A) Hummocks (D7)	
Depth (inches)  Remarks:  HYDROLOG  Wetland Hydrolo  Primary Indicator Surface Wate X High Water X Saturation (/ X Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation v Sparsely Ve Field Observatio Surface Water F Water Table Prese (includes capillar  Describe Recon	Y ogy Indicators: rs (minimum of one rec ter (A1) Table (A2) A3) s (B1) eposits (B2) is (B3) Crust (B4) s (B5) Cracks (B6) /isible on Aerial Imager getated Concave Surfa ons: Present? Yes esent? Yes ent? Yes	ry (B7) ace (B8) x x x	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Redu Stunted or Stresse Other (Explain in F	3) ates (B13) Odor (C1) heres along Liv iced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) Depth (inchess Depth (inchess Depth (inchess	ving Roots (C3) Soils (C6) (LRR A) s): <u>surface (0)</u> s): <u>surface (0)</u>	Secondary Indicat Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vi X Geomorphic Shallow Aqui FAC-Neutral Raised Ant M Frost-Heave Wetland Hydrology Present?	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, 3) terns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3) Test (D5) Iounds (D6) (LRR A) Hummocks (D7)	

Project/Site:	Federal Way City Center Access		City/County:	Federal Way	//King	Sampling Date:	1/7/2021
Applicant/Owner	City of Federal Way				State: Washingto	n Sampling Poi	int: W18-SP-3
Investigator(s):	Trey Parry, Aaron Thom			_	Section, Township, Range:	T21N R04E	S15
Landform (hillslop	e, terrace, etc.):	swale		Local	relief (concave, convex, none):	none Sk	ope (%): <u>3-5%</u>
Subregion (LRR)	: Northwest Forests and Coast (Ll	RR A))	Lat: 47.309280	Lo	ong: -122.290070	Datum: N	AD 1983 (HARN)
Soil Unit (Name-I	D-Hydric Rating): Alderw	ood gravelly sar	ndy loam -	AgB	- Not Hydric NWI	classification:	None
Are climatic / hyd	lrologic conditions on the site typical	for this time of y	ear?	Ň	Yes X No	(If no, explain in Re	
Are Vegetation	, Soil,				Are "Normal Circumstances" pre		s <u>X</u> No
Are Vegetation	, Soil				(If needed, explain any answers		
SUMMARY C	<b>OF FINDINGS – Attach site</b>	map showin		nt locations	s, transects, important fe	atures, etc.	
		′es X	No				
Hydric Soil Prese		′es <u>X</u>	No	Is the Samp within a We	tion d 2		
Wetland Hydrolo	ogy Present?	′es <u>X</u>	No		Yes X	No	
Precipitation:				I			
According to the	Seattle Tacoma NOAA weather stat	ion, precipitation	i was within the horm	hai range for th	he three months prior to the site v	/ISIT.	
Remarks:							
This sample plot	is located in a gentle swale that con	nects two distinc	t wetlands upslope a	nd downslope	. It is within wetland 18 and is the	paired sample plot to	o W18-SP4.
VEGETATIO	N						
		Absolute	Dominant	Indicator	Dominance Test workshe	et:	
Tree Stratum	(Plot size: <u>r=3m)</u>	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant Speci	es	
1. Thuja plicata	3	100%	Yes	FAC	That Are OBL, FACW, or F	AC: 2	<u>2</u> (A)
2.							
3.					Total Number of Dominant		
4.					Species Across All Strata:		2 <u>(</u> B)
		100% =	= Total Cover				
Sapling/Shrub S	Stratum (Plot size: <u>r=2m)</u>				Percent of Dominant Specie	es	
1. Thuja plicata	1	70%	Yes	FAC	That Are OBL, FACW, or F.	AC: <u>10</u>	<u>0%</u> (A/B)
2. Rubus spect	tabilis	15%	No	FAC	Prevalence Index worksh		
3.					Total % Cover of:	Multiply by:	
4.					OBL species	x 1 =	
5.					FACW species	x 2 =	
		85% =	= Total Cover		FAC species	x 3 =	
Herb Stratum	(Plot size: <u>r=1m)</u>				FACU species	x 4 =	
1. <u>none</u>					UPL species	x 5 =	
2.					Column Totals:	(A)	(B)
3.					Prevalence Inde		
4.					Hydrophytic Vegetation Ir		
5.					1 - Rapid Test for Hydr		
6.					X 2 - Dominance Test is		
7.					3 - Prevalence Index is		
8					4 - Morphological Adap		
9.						on a separate sheet)	
10			<u> </u>		5 - Wetland Non-Vasc		. 1
11.					Problematic Hydrophy		-
Woody Vine Stra	atum(Plot size: <u>r=2m)</u>		= Total Cover		<sup>1</sup> Indicators of hydric soil and be present.	I wetland hydrology m	iust
1. <u>none</u> 2.					Hydrophytic		
<u>۲.                                    </u>		0%	= Total Cover		Hydrophytic Vegetation Ye	es X No	
% Bare Ground	in Herb Stratum				Present?		
Remarks:					•		

**Parametrix** 

Profile Description	on (Describe to the de	epth neede	d to document the in	dicator or confirm	n the absence	of indicators):		
Depth	Matrix			Redox Fea				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-4	10YR 3/2	100			.)		L	
4-16	10YR 6/2	90	10YR	10	С	M,PL	L	oxidized rhizospher
						,		·
<sup>1</sup> Type: C=Concen	tration, D=Depletion, R	M=Reduce	d Matrix, CS=Covered	l or Coated Sand G	Grains. <sup>2</sup> Loca	ation: PL=Pore Linir	ng, M=Matrix.	
	•						clay); - = light (less clay	y)
	ators (Applicable to al						blematic Hydric Soils	
Histosol (A1)			Sandy Redox (S5	)		2 cm Muck (A		
Histic Epipedo	on (A2)	-	Stripped Matrix (S	6)		Red Parent M		
Black Histic (A		-		neral (F1) (except N	MLRA 1)	Very Shallow	Dark Surface (TF12)	
Hydrogen Sul	fide (A4)		Loamy Gleyed Ma	atrix (F2)	·	Other (Explain	n in Remarks)	
X Depleted Belo	w Dark Surface (A11)	_	X Depleted Matrix (F	=3)				
Thick Dark Su	ırface (A12)	_	Redox Dark Surfa	ice (F6)		<sup>3</sup> Indicators of hydro	ophytic vegetation and	wetland
Sandy Mucky	Mineral (S1)	_	Depleted Dark Su	ırface (F7)			present, unless disturb	
Sandy Gleyed	l Matrix (S4)	-	Redox Depression	ns (F8)		problematic.		
Restrictive Layer	(if present):							
Turne	<u>.</u>					Hydric Soil		
Туре								
Depth (inches):						Present?	Yes X	No
						Present?	Yes X	No
Depth (inches):						Present?	Yes X	No
Depth (inches): Remarks: HYDROLOGY						Present?	Yes X	No
Depth (inches): Remarks: HYDROLOGY Wetland Hydrolog	gy Indicators:							
Depth (inches): Remarks: HYDROLOGY Wetland Hydrolog Primary Indicators	gy Indicators: (minimum of one requ	ired; check :				Secondary Indicate	Drs (2 or more required)	
Depth (inches): Remarks: HYDROLOGY Wetland Hydrolog Primary Indicators X_Surface Wate	gy Indicators: (minimum of one requ r (A1)	ired; check -	Water-Stained Le	aves (B9) (except	MLRA	Secondary Indicate	ors (2 or more required) d Leaves (B9) (MLRA 1	
Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Primary Indicators X Surface Wate X High Water Ta	gy Indicators: (minimum of one requ r (A1) able (A2)	ired; check a	Water-Stained Le 1, 2, 4A, and 4		MLRA	Secondary Indicato Water-Stained 4A, and 4B	ors (2 or more required) d Leaves (B9) (MLRA 1 )	
Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Primary Indicators X Surface Wate X High Water Ta X Saturation (AC	gy Indicators: (minimum of one requ r (A1) able (A2) 3)	ired; check - -	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11)	3)	MLRA	Secondary Indicato Water-Stained 4A, and 4B Drainage Patt	o <u>rs (2 or more required)</u> d Leaves (B9) (MLRA 1 ) erns (B10)	
Depth (inches): Remarks: HYDROLOGY Wetland Hydrolog Primary Indicators X Surface Wate X High Water Ta X Saturation (A3 Water Marks	gy Indicators: (minimum of one requ r (A1) able (A2) 3) (B1)	ired; check - - -	Water-Stained Le 1, 2, 4A, and 4B Salt Crust (B11) Aquatic Invertebra	3) ates (B13)	MLRA	Secondary Indicato Water-Stained 4A, and 4B Drainage Patt Dry-Season W	ors (2 or more required) d Leaves (B9) (MLRA 1 ) erns (B10) Vater Table (C2)	) , 2,
Depth (inches): Remarks: HYDROLOGY Wetland Hydrolog Primary Indicators X Surface Wate X High Water Ta X Saturation (A3 Water Marks Sediment Dep	gy Indicators: (minimum of one requ r (A1) able (A2) 3) (B1) posits (B2)	ired; check ; - -	Water-Stained Le 1, 2, 4A, and 4B Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide	3) ates (B13) Odor (C1)		Secondary Indicato Water-Stained 4A, and 4B Drainage Patt Dry-Season W Saturation Vis	o <u>rs (2 or more required)</u> d Leaves (B9) (MLRA 1 ) erns (B10) Vater Table (C2) ible on Aerial Imagery (	) , 2,
Depth (inches): Remarks: HYDROLOGY Wetland Hydrolog Primary Indicators X Surface Wate X High Water Ta X Saturation (AC Water Marks Sediment Dep Drift Deposits	gy Indicators: (minimum of one requ r (A1) able (A2) 3) (B1) posits (B2) (B3)	ired; check - - - -	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl	3) ates (B13) Odor (C1) heres along Living		Secondary Indicato Water-Stained 4A, and 4B Drainage Patt Dry-Season W Saturation Vis Geomorphic F	ors (2 or more required) d Leaves (B9) (MLRA 1 ) erns (B10) Vater Table (C2) ible on Aerial Imagery ( Position (D2)	) , 2,
Depth (inches): Remarks: HYDROLOGY Wetland Hydrolog Primary Indicators X Surface Wate X High Water Ta X Saturation (A3 Water Marks Sediment Dep	gy Indicators: (minimum of one requ r (A1) able (A2) 3) (B1) bosits (B2) (B3) Crust (B4)	ired; check t	Water-Stained Le 1, 2, 4A, and 4B Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu	3) ates (B13) Odor (C1) heres along Living	Roots (C3)	Secondary Indicato Water-Stained 4A, and 4B Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquita	ors (2 or more required) d Leaves (B9) (MLRA 1 ) erns (B10) Vater Table (C2) ible on Aerial Imagery ( Position (D2) ard (D3)	) , 2,
Depth (inches): Remarks: HYDROLOGY Wetland Hydrolog Primary Indicators X Surface Wate X High Water Ta X Sutration (AS Water Marks Sediment Dep Drift Deposits Algal Mat or C	gy Indicators: (minimum of one requ r (A1) able (A2) 3) (B1) bosits (B2) (B3) Crust (B4) (B5)	ired; check ; - - - - -	Water-Stained Le 1, 2, 4A, and 4B Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospi Presence of Redu Recent Iron Redu	3) ates (B13) Odor (C1) heres along Living uced Iron (C4)	Roots (C3) s (C6)	Secondary Indicato Water-Stained 4A, and 4B Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquita FAC-Neutral 1	ors (2 or more required) d Leaves (B9) (MLRA 1 ) erns (B10) Vater Table (C2) ible on Aerial Imagery ( Position (D2) ard (D3)	) , 2,
Depth (inches): Remarks: HYDROLOGY Wetland Hydrolog Primary Indicators X Surface Wate X High Water Ta X Saturation (AC Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C	gy Indicators: (minimum of one requ r (A1) able (A2) 3) (B1) bosits (B2) (B3) Crust (B4) (B5)		Water-Stained Le 1, 2, 4A, and 4B Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospi Presence of Redu Recent Iron Redu	3) Odor (C1) heres along Living uced Iron (C4) ction in Tilled Soils ed Plants (D1) (LR	Roots (C3) s (C6)	Secondary Indicato Water-Stained 4A, and 4B Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquita FAC-Neutral T Raised Ant Mo	ors (2 or more required) d Leaves (B9) (MLRA 1 ) erns (B10) Vater Table (C2) ible on Aerial Imagery ( Position (D2) ard (D3) Fest (D5)	) , 2,
Depth (inches): Remarks: HYDROLOGY Wetland Hydrolog Primary Indicators X Surface Wate X High Water Ta X Saturation (A3 Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis	gy Indicators: (minimum of one requ r (A1) able (A2) 3) (B1) boosits (B2) (B3) Crust (B4) (B5) Cracks (B6)	(B7)	Water-Stained Le 1, 2, 4A, and 4B Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospi Presence of Redu Recent Iron Redu Stunted or Stress	3) Odor (C1) heres along Living uced Iron (C4) ction in Tilled Soils ed Plants (D1) (LR	Roots (C3) s (C6)	Secondary Indicato Water-Stained 4A, and 4B Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquita FAC-Neutral T Raised Ant Mo	ors (2 or more required) d Leaves (B9) (MLRA 1 ) erns (B10) Vater Table (C2) ible on Aerial Imagery ( Position (D2) ard (D3) Fest (D5) punds (D6) (LRR A)	) , 2,
Depth (inches): Remarks: HYDROLOGY Wetland Hydrolog Primary Indicators X Surface Wate X High Water Ta X Saturation (A3 Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis	gy Indicators: (minimum of one requ r (A1) able (A2) 3) (B1) bosits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aerial Imagery etated Concave Surfac	(B7)	Water-Stained Le 1, 2, 4A, and 4B Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospi Presence of Redu Recent Iron Redu Stunted or Stress	3) Odor (C1) heres along Living uced Iron (C4) ction in Tilled Soils ed Plants (D1) (LR	Roots (C3) s (C6)	Secondary Indicato Water-Stained 4A, and 4B Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquita FAC-Neutral T Raised Ant Mo	ors (2 or more required) d Leaves (B9) (MLRA 1 ) erns (B10) Vater Table (C2) ible on Aerial Imagery ( Position (D2) ard (D3) Fest (D5) punds (D6) (LRR A)	) , 2,
Depth (inches): Remarks: HYDROLOGY Wetland Hydrolog Primary Indicators X Surface Water X High Water Ta X Saturation (AC Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Veg	gy Indicators: (minimum of one requ r (A1) able (A2) 3) (B1) bosits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aerial Imagery etated Concave Surfac	(B7) pe (B8)	Water-Stained Le 1, 2, 4A, and 4B Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospi Presence of Redu Recent Iron Redu Stunted or Stress	3) Odor (C1) heres along Living uced Iron (C4) ction in Tilled Soils ed Plants (D1) (LR	Roots (C3) s (C6)	Secondary Indicato Water-Stained 4A, and 4B Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquita FAC-Neutral T Raised Ant Mo	ors (2 or more required) d Leaves (B9) (MLRA 1 ) erns (B10) Vater Table (C2) ible on Aerial Imagery ( Position (D2) ard (D3) Fest (D5) punds (D6) (LRR A)	) , 2,
Depth (inches): Remarks: HYDROLOGY Wetland Hydrolog Primary Indicators X Surface Wate X High Water Ta X Saturation (A3 Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Veg Field Observation	gy Indicators: (minimum of one requ r (A1) able (A2) 3) (B1) bosits (B2) (B3) Crust (B4) (B5) Crust (B4) (B5) Cracks (B6) sible on Aerial Imagery etated Concave Surface ns: esent? Yes	(B7) re (B8) X	Water-Stained Le 1, 2, 4A, and 4B Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in I	3) Odor (C1) heres along Living uced Iron (C4) iction in Tilled Soils ed Plants (D1) (LR Remarks)	Roots (C3) (C6) R A) 0.5	Secondary Indicato Water-Stained 4A, and 4B Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquita FAC-Neutral 1 Raised Ant Mo Frost-Heave H	ors (2 or more required) d Leaves (B9) (MLRA 1 ) erns (B10) Vater Table (C2) ible on Aerial Imagery ( Position (D2) ard (D3) Fest (D5) punds (D6) (LRR A)	) , 2,
Depth (inches): Remarks: HYDROLOGY Wetland Hydrolog Primary Indicators X Surface Water X High Water Ta X Surface Water X High Water Ta X Surface Water Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vege Field Observation Surface Water Print	gy Indicators: (minimum of one requ r (A1) able (A2) 3) (B1) bosits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aerial Imagery etated Concave Surfact ns: esent? Yes ent? Yes	(B7) (B7) (B8) <u>X</u> <u>X</u>	Water-Stained Le 1, 2, 4A, and 4B Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospi Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in I	3) Odor (C1) heres along Living uced Iron (C4) iction in Tilled Soils ed Plants (D1) (LR Remarks) Depth (inches):	Roots (C3) 5 (C6) 2R A) 0.5 5 ourface (0)	Secondary Indicato Water-Stained 4A, and 4B Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquita FAC-Neutral T Raised Ant Mo Frost-Heave H Wetland	ors (2 or more required) d Leaves (B9) (MLRA 1 ) erns (B10) Vater Table (C2) ible on Aerial Imagery ( Position (D2) ard (D3) Fest (D5) bunds (D6) (LRR A) Hummocks (D7)	) , 2, (C9)
Depth (inches): Remarks: HYDROLOGY Wetland Hydrolog Primary Indicators X Surface Water X Surface Water X Saturation (A3 Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Veg Field Observation Surface Water Pres	gy Indicators: (minimum of one requ r (A1) able (A2) 3) (B1) bosits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aerial Imagery etated Concave Surfact 15: esent? Yes ent? Yes	(B7) (B7) (B8) <u>X</u> <u>X</u>	Water-Stained Le 1, 2, 4A, and 4B Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospi Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in I No	3) ates (B13) Odor (C1) heres along Living uced Iron (C4) ction in Tilled Soils ed Plants (D1) (LR Remarks) Depth (inches): Depth (inches):	Roots (C3) 5 (C6) 2R A) 0.5 5 ourface (0)	Secondary Indicato Water-Stained 4A, and 4B Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquita FAC-Neutral T Raised Ant Mo Frost-Heave H Wetland Hydrology	ors (2 or more required) d Leaves (B9) (MLRA 1 ) erns (B10) Vater Table (C2) ible on Aerial Imagery ( Position (D2) ard (D3) Fest (D5) bunds (D6) (LRR A) Hummocks (D7)	) , 2, (C9)
Depth (inches): Remarks: HYDROLOGY Wetland Hydrolog Primary Indicators X Surface Wate X High Water Ta X Saturation (A3 Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Veg Field Observation Surface Water Pres Saturation Preser (includes capillary	gy Indicators: (minimum of one requ r (A1) able (A2) 3) (B1) bosits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aerial Imagery etated Concave Surfact ns: esent? Yes ent? Yes ot? Yes	(B7) (B7) (B8) <u>X</u> <u>X</u>	Water-Stained Le 1, 2, 4A, and 4B Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospi Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in B No No No	3) ates (B13) Odor (C1) heres along Living uced Iron (C4) ction in Tilled Soils ed Plants (D1) (LR Remarks) Depth (inches): Depth (inches): Depth (inches):	Roots (C3) (C6) (R A) 0.5 surface (0) surface (0)	Secondary Indicato Water-Stained 4A, and 4B Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral T Raised Ant Mo Frost-Heave F Wetland Hydrology Present?	ors (2 or more required) d Leaves (B9) (MLRA 1 ) erns (B10) Vater Table (C2) ible on Aerial Imagery ( Position (D2) ard (D3) Fest (D5) bunds (D6) (LRR A) Hummocks (D7)	) , 2, (C9)
Depth (inches): Remarks: HYDROLOGY Wetland Hydrolog Primary Indicators X Surface Wate X High Water Ta X Saturation (A3 Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Veg Field Observation Surface Water Pres Saturation Preser (includes capillary	gy Indicators: (minimum of one requ r (A1) able (A2) 3) (B1) bosits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aerial Imagery etated Concave Surfact 15: esent? Yes ent? Yes	(B7) (B7) (B8) <u>X</u> <u>X</u>	Water-Stained Le 1, 2, 4A, and 4B Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospi Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in B No No No	3) ates (B13) Odor (C1) heres along Living uced Iron (C4) ction in Tilled Soils ed Plants (D1) (LR Remarks) Depth (inches): Depth (inches): Depth (inches):	Roots (C3) (C6) (R A) 0.5 surface (0) surface (0)	Secondary Indicato Water-Stained 4A, and 4B Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral T Raised Ant Mo Frost-Heave F Wetland Hydrology Present?	ors (2 or more required) d Leaves (B9) (MLRA 1 ) erns (B10) Vater Table (C2) ible on Aerial Imagery ( Position (D2) ard (D3) Fest (D5) bunds (D6) (LRR A) Hummocks (D7)	) , 2, (C9)
Depth (inches): Remarks: HYDROLOGY Wetland Hydrolog Primary Indicators X Surface Wate X High Water Ta X Saturation (A3 Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Veg Field Observation Surface Water Pres Saturation Preser (includes capillary	gy Indicators: (minimum of one requ r (A1) able (A2) 3) (B1) bosits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aerial Imagery etated Concave Surfact ns: esent? Yes ent? Yes of: Yes of: Yes	(B7) (B7) (B8) <u>X</u> <u>X</u>	Water-Stained Le 1, 2, 4A, and 4B Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospi Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in B No No No	3) ates (B13) Odor (C1) heres along Living uced Iron (C4) ction in Tilled Soils ed Plants (D1) (LR Remarks) Depth (inches): Depth (inches): Depth (inches):	Roots (C3) (C6) (R A) 0.5 surface (0) surface (0)	Secondary Indicato Water-Stained 4A, and 4B Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral T Raised Ant Mo Frost-Heave F Wetland Hydrology Present?	ors (2 or more required) d Leaves (B9) (MLRA 1 ) erns (B10) Vater Table (C2) ible on Aerial Imagery ( Position (D2) ard (D3) Fest (D5) bunds (D6) (LRR A) Hummocks (D7)	) , 2, (C9)
Depth (inches): Remarks: HYDROLOGY Wetland Hydrolog Primary Indicators X Surface Water X High Water Ta X Saturation (A3 Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vege Field Observation Surface Water Press Saturation Preser (includes capillary Describe Record Remarks:	gy Indicators: (minimum of one requ r (A1) able (A2) 3) (B1) boosits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aerial Imagery etated Concave Surfact 15: esent? Yes ent? Yes ent? Yes of ringe) Hed Data (stream gauge	(B7) (B7) (B8) <u>X</u> <u>x</u> ge, monitor	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospi Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in I No	3) ates (B13) Odor (C1) heres along Living uced Iron (C4) iction in Tilled Soils ed Plants (D1) (LR Remarks) Depth (inches): Depth (inches): _s Depth (inches): _s pepth (inches): _s	Roots (C3) (C6) R A) 0.5 surface (0) surface (0) ections), if ava	Secondary Indicato Water-Stained 4A, and 4B Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquita FAC-Neutral T Raised Ant Mo Frost-Heave F Wetland Hydrology Present?	ors (2 or more required) d Leaves (B9) (MLRA 1 ) erns (B10) Vater Table (C2) ible on Aerial Imagery ( Position (D2) ard (D3) Fest (D5) bunds (D6) (LRR A) Hummocks (D7)	) , 2, (C9) No

Project/Site: F	Federal Way City Center Access	3	City/County:	Federal W	/ay/King	Sa	mpling Date:	1/7/2021
Applicant/Owner:	City of Federal Way				State	e: Washington	Sampling Poir	nt: <b>W18-SP-4</b>
Investigator(s):	Trey Parry, Aaron Thom				Section, Township	o, Range:	T21N R04E	S15
Landform (hillslope	e, terrace, etc.):	hillslope	e	Loc	al relief (concave, conv		e Slo	ope (%): <u>&gt;10%</u>
	Northwest Forests and Coast		Lat: 47.309300		Long: -122.2900			IAD 1983 (HARN)
	D-Hydric Rating): Alc		-	- AgB	- Not Hydric		fication:	None
Are climatic / hyd Are Vegetation	rologic conditions on the site typ			isturbod?	Yes X	No(If mstances" present?	no, explain in Re Yes	
Are Vegetation	, Soil , Soil					any answers in Re		
	F FINDINGS – Attach s							
Hydrophytic Veg		Yes				inportant routa		
Hydric Soil Prese		Yes		Is the Sa	mpled Area			
Wetland Hydrolo	gy Present?	Yes		within a V	Wetland?	Yes	No <u>X</u>	
Precipitation:								
According to the	Seattle Tacoma NOAA weather	station, precipitation	n was within the nor	rmal range for	r the three months pr	rior to the site visit.		
Remarks:						*		
	is located upslope of W18-SP3	and wetland W18 a	s a whole.					
VEGETATION	N							
		Absolute	Dominant	Indicator	Dominance	Test worksheet:		
Tree Stratum	(Plot size: <u>r=3m)</u>	<u>% Cover</u>	Species?	<u>Status</u>	Number of D	ominant Species		
1. <u>none</u>					That Are OBI	L, FACW, or FAC:	1	1(A)
2. 3.					-			
3. 4					_	r of Dominant		
		0%	= Total Cover		Species Acro	oss All Strata:	2	2(B)
Sapling/Shrub S	itratum (Plot size: <u>r=2m)</u>	0%	- Total Cover		Percent of Do	ominant Species		
<sup>1.</sup> Thuja plicata		20%	Yes	FAC		L, FACW, or FAC:	50	<u>0%</u> (A/B)
2.						Index worksheet:		(:::=)
3.					Total %	Cover of: <u>Mu</u>	ıltiply by:	
4.					OBL species	x 1	=	
5					FACW specie		. =	
		20%	= Total Cover		FAC species			
Herb Stratum	(Plot size: <u>r=1m)</u>				FACU specie			
1. <u>Gaultheria sl</u>	hallon		Yes	FACU	UPL species			(D)
2.					Column Tota	ls: (A) evalence Index = B		(B)
3. 4.						Vegetation Indicat		
5.						d Test for Hydrophy		
6.						inance Test is >50%	-	
7.						alence Index is ≤3.0	1	
8.					4 - Morp	hological Adaptation	าร <sup>1</sup> (Provide supp	porting
9.					data	in Remarks or on a	separate sheet)	
10.						and Non-Vascular P		
11						atic Hydrophytic Ve		
	(D) = t = (r - 2m)	10%	= Total Cover			hydric soil and wet	and hydrology m	ust
Woody Vine Stra 1. none	atum(Plot size: <u>r=2m)</u>				be present.			
2.				·	Hydrop	hytic		
		0%	= Total Cover		Vegetat		No	x
% Bare Ground	in Herb Stratum 0%				Present	?		
Remarks:					<b>I</b>			

Parametrix

SOIL							Sampling Point:	W18-SP-4
	tion (Describe to the o	lepth needed	to document the in	ndicator or cor	firm the abser	ce of indicators):		
Depth	Matrix				Features			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-3	10YR 2/2	100					L	
3-10	10YR 5/3	100					CbL	
	•							
1 <b>.</b>		DM Deduced			2			
	entration, D=Depletion,					ocation: PL=Pore Lining	-	
					= fine; vf = very	y fine; + = heavy (more o		
-	cators (Applicable to a	an LRRS, unie					olematic Hydric Soils <sup>3</sup> :	
Histosol (A1	,		Sandy Redox (S			2 cm Muck (A1		
Histic Epipe	. ,		Stripped Matrix (\$			Red Parent Ma		
Black Histic		_	Loamy Mucky Mi		ept MLRA 1)		Dark Surface (TF12)	
Hydrogen S		`	Loamy Gleyed M			Other (Explain	in Remarks)	
	elow Dark Surface (A11	)	Depleted Matrix (					
	Surface (A12)		Redox Dark Surf				phytic vegetation and wetlar	
	ky Mineral (S1)		Depleted Dark Si			hydrology must be problematic.	present, unless disturbed or	
	ed Matrix (S4)		Redox Depression	ons (F8)		problematic.		
Restrictive Laye								
-	pe:					Hydric Soil		
Depth (inches)	:					Present?	Yes	No <u>X</u>
HYDROLOG	Y					~		
Wetland Hydrol	ogy Indicators:							
Primary Indicato	<u>rs (minimum of one req</u>	uired; check al	II that apply)			Secondary Indicato	<u>rs (2 or more required)</u>	
Surface Wa	ter (A1)		Water-Stained Le	eaves (B9) (exc	ept MLRA	Water-Stained	Leaves (B9) (MLRA 1, 2,	
High Water	Table (A2)		 1, 2, 4A, and 4			4A, and 4B)		
Saturation (A			Salt Crust (B11)			Drainage Patte	erns (B10)	
Water Mark	s (B1)		Aquatic Invertebr	ates (B13)		Dry-Season W	ater Table (C2)	
Sediment D	eposits (B2)		 Hydrogen Sulfide	Odor (C1)		Saturation Visi	ble on Aerial Imagery (C9)	
Drift Deposi	ts (B3)		Oxidized Rhizosp	heres along Liv	ring Roots (C3)	Geomorphic P	osition (D2)	
Algal Mat or	Crust (B4)	_	Presence of Red	uced Iron (C4)		Shallow Aquita	rd (D3)	
Iron Deposit	ts (B5)		Recent Iron Redu	uction in Tilled S	oils (C6)	FAC-Neutral T	est (D5)	
Surface Soil	l Cracks (B6)		Stunted or Stress	ed Plants (D1)	(LRR A)	Raised Ant Mo	unds (D6) (LRR A)	
Inundation \	/isible on Aerial Imager	y (B7)	Other (Explain in	Remarks)		Frost-Heave H	ummocks (D7)	
Sparsely Ve	getated Concave Surfa	ce (B8)						
Field Observati	ons:							
Surface Water F	Present? Yes	N	lo X	Depth (inches	):	Wetland		
Water Table Pre	-		lo X	Depth (inches		Hydrology	Yes	No X
Saturation Pres	-		lo X	Depth (inches		Present?		
(includes capilla	ry fringe)							
Describe Reco	rded Data (stream gau	Ige, monitorir	ng well, aerial phot	os, previous in	spections) if a	available:		
	laca Bata (otroam gat	igo, incluion	ig tron, aonai priot		opeenene), ii e			
Remarks:	vimatoly 6 linear fact -	nd 3 vortical f-	et above W/10 SD2					
Positioned appro	oximately 6 linear feet a	nu o vertical le						

US Army Corps of Engineers Western Mountains, Valleys, and Coast Region (Version 2.0)

Project/Site:	Federal Way City Center Access		City/County:	Federal Way/I	King	Sampling Date:	1/11/2021
Applicant/Owner	City of Federal Way				State: Washington	Sampling Point	: W18-SP-5
Investigator(s):	Trey Parry, Aaron Thom			s	Section, Township, Range:	T21N R04E S	\$15
Landform (hillslop	e, terrace, etc.):	depressi	on	Local re	elief (concave, convex, none):C	oncave Slop	e (%): <3%
Subregion (LRR)	: Northwest Forests and Coas	t (LRR A))	Lat: 47.309830	Lor	ng: -122.289200	Datum: NA	D 1983 (HARN)
		erwood gravelly sa		AgB		assification:	None
•	rologic conditions on the site typ				es X No	(If no, explain in Rem	
Are Vegetation	, Soil , Soil				re "Normal Circumstances" pres f needed, explain any answers ir		<u>X</u> No
Are Vegetation							
	OF FINDINGS – Attach si			nt locations,	, transects, important fea	atures, etc.	
Hydrophytic Veg Hydric Soil Pres	etation Present?	Yes X Yes X		Is the Sampl	ed Area		
Wetland Hydrold			No	within a Wet	land2	No	
	yy Flesent?	Yes X	No		Yes X	No	_
Precipitation:	Seattle Tacoma NOAA weather	atation provinitation	a waa within the norm	nal range for the	three months prior to the site vi	ait	
According to the	Sealle Tacoma NOAA wealher	station, precipitatio	n was within the norm	nai range for the	a three months phot to the site vi	SIL.	
Remarks:							
	is located near Lake Access Rd	in a depression ap	proximately 30ft west	of road. Shallow	v rooted downed trees were obse	erved near and in wetla	and. It is the
paired wetland pl	ot with W-18-SP6.						
VEGETATIO	N						
		Absolute	Dominant	Indicator	Dominance Test workshee	t:	
<u>Tree Stratum</u>	(Plot size: <u>r=3m)</u>	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant Specie	s	
<sup>1.</sup> <u>none</u>					That Are OBL, FACW, or FA	C: 2	(A)
2.							
3.					Total Number of Dominant		
4.					Species Across All Strata:	2	(B)
		0%	= Total Cover				
Sapling/Shrub S	Stratum (Plot size: <u>r=2m)</u>				Percent of Dominant Species		
1. <u>none</u> 2.					That Are OBL, FACW, or FA		<u>%</u> (A/B)
3.		_			Prevalence Index workshe Total % Cover of:	et: Multiply by:	
4.		_				x 1 =	
4. 5.					OBL species FACW species		
J			= Total Cover		FAC species	x 3 =	
Herb Stratum	(Plot size: <u>r=1m)</u>	078			FACU species		
1. Poa pratens		20%	Yes	FAC	UPL species		
2. Juncus effus		15%	Yes	FACW	Column Totals:	(A)	(B)
3. Ranunculus		2%	No	FAC	Prevalence Index	_``	(`)
4.	iopono				Hydrophytic Vegetation Inc	dicators:	
5.					1 - Rapid Test for Hydro	phytic Vegetation	
6.					X 2 - Dominance Test is >	50%	
7.					3 - Prevalence Index is	≤3.0 <sup>1</sup>	
8.					4 - Morphological Adapt	ations <sup>1</sup> (Provide suppo	orting
9.					data in Remarks or o	on a separate sheet)	
10.					5 - Wetland Non-Vascu	ar Plants <sup>1</sup>	
11.					Problematic Hydrophytic	vegetation (Explain) <sup>1</sup>	
		37%	= Total Cover		<sup>1</sup> Indicators of hydric soil and	wetland hydrology mus	st
Woody Vine Str	atum (Plot size: <u>r=2m)</u>				be present.		
1. <u>none</u> 2.					Hydrophytic		
<u>ــــــــــــــــــــــــــــــــــــ</u>		0%	= Total Cover		Hydrophytic Vegetation Yes	s X No	
% Bare Ground	in Herb Stratum 20%	0 /0			Present?		
Remarks:							

**Parametrix** 

SOIL							Sampling Point:	W18-SP-5
	tion (Describe to the	depth needed	d to document the in	dicator or co	onfirm the absend	e of indicators):		
Depth	` Matrix				Features	,		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-2	2.5Y 3/2	90	2.5Y 4/2	10	D	M	SaL	
2-7	2.5Y 5/1	90	2.5Y 4/2	10	 D	M	SaL	
7-16	5Y 6/1	93	5YR 3/2	5	<u> </u>	M	SiClay	
			7.5 YR5/6	2	<u> </u>	M		
			1.0 11(0/0					
						·		
4								
	entration, D=Depletion,					cation: PL=Pore Lin	-	
					f = fine; vf = very		e clay); - = light (less clay)	
Hydric Soil Indi	cators (Applicable to	all LRRs, unl	ess otherwise noted	l):		Indicators for Pr	oblematic Hydric Soils <sup>3</sup> :	
Histosol (A1	)	_	Sandy Redox (S5	)		2 cm Muck (/	A10)	
Histic Epipe	don (A2)	_	Stripped Matrix (S	6)		Red Parent	Material (TF2)	
Black Histic	(A3)	_	Loamy Mucky Mir	neral (F1) (exc	ept MLRA 1)	Very Shallow	/ Dark Surface (TF12)	
Hydrogen S	ulfide (A4)	_	Loamy Gleyed Ma	atrix (F2)		Other (Expla	in in Remarks)	
X Depleted Be	elow Dark Surface (A1	1) _	X Depleted Matrix (F	=3)				
	Surface (A12)		Redox Dark Surfa	ice (F6)		<sup>3</sup> Indicators of hud	rophytic vegetation and wetlan	d
Sandy Mucl	vy Mineral (S1)		Depleted Dark Su	rface (F7)			e present, unless disturbed or	u
Sandy Gley	ed Matrix (S4)		Redox Depression	ns (F8)		problematic.		
Restrictive Lay	er (if present):							
-	pe:					Hydric Soil		
Depth (inches)						Present?	Yes X	No
Deptil (inches)		-				Fiesent:		
Remarks:								
HYDROLOG								
Wetland Hydro	ogy Indicators:							
Primary Indicato	<u>rs (minimum of one rec</u>	quired; check a	all that apply)			Secondary Indica	tors (2 or more required)	
X Surface Wa	ter (A1)		X Water-Stained Le	aves (B9) (exc	cept MLRA	Water-Staine	ed Leaves (B9) (MLRA 1, 2,	
X High Water	Table (A2)		1, 2, 4A, and 4I	3)		4A, and 4	3)	
X Saturation (	A3)		Salt Crust (B11)			Drainage Pa	tterns (B10)	
X Water Mark	s (B1)		Aquatic Invertebra	ates (B13)		Dry-Season	Water Table (C2)	
Sediment D	eposits (B2)		Hydrogen Sulfide	Odor (C1)		Saturation Vi	isible on Aerial Imagery (C9)	
Drift Deposi			Oxidized Rhizosp		iving Roots (C3)		Position (D2)	
Algal Mat or	Crust (B4)		Presence of Redu	-		 Shallow Aqui		
Iron Deposi		-	Recent Iron Redu			FAC-Neutral		
	l Cracks (B6)		Stunted or Stress		( )		Nounds (D6) (LRR A)	
	/isible on Aerial Image	ny (B7)	Other (Explain in I		)(ERR(77))		Hummocks (D7)	
	getated Concave Surf			itemarks)		110st-fieave		
Field Observati								
Surface Water			No <u>X</u>	Depth (inches	·	Wetland		
Water Table Pro			No	Depth (inches		Hydrology	Yes X	No
Saturation Pres		X	No	Depth (inches	s): surface (0)	Present?		
(includes capilla	iry fringe)							
Describe Reco	rded Data (stream ga		ng well aerial photo	s previoue i	nspections) if a	ailable:		
	Bata (Stream ya	~go, monitori		, pietious I				
Remarks:								
	as observed 3 linear fe	e and 4 vertic	al inches away from s	ample plot.				

ENGINEERING . PLANNING . ENVIRONMENTAL SCIENCES Project No.: 554-2441-022

US Army Corps of Engineers Western Mountains, Valleys, and Coast Region (Version 2.0)

Project/Site: F	ederal Way City Center Acces	SS	City/County:	Federal Way	y/King	Sampling Date:	1/11/2021
Applicant/Owner:	City of Federal Way				State: Washington	Sampling Point:	W18-SP-6
Investigator(s):	Trey Parry, Aaron Thom				Section, Township, Range:	T21N R04E S	515
Landform (hillslope	e, terrace, etc.):	depressio	n	Local	relief (concave, convex, none):	onvex Slop	e (%): <3%
• • • •	Northwest Forests and Coa		Lat: 47.309815	L	.ong: -122.289230	Datum: NAI	D 1983 (HARN)
	D-Hydric Rating): A			AgB	,	assification:	None
•	rologic conditions on the site ty	• •			Yes X No Are "Normal Circumstances" prese	(If no, explain in Rem	
Are Vegetation Are Vegetation	, Soil , Soil	, or Hydrology	naturally proble	ematic?	(If needed, explain any answers in		<u>X</u> No
					s, transects, important fea	·	
Hydrophytic Veg		Yes	No X		s, transects, important lea	iures, etc.	
Hydric Soil Prese		Yes	No X	Is the Sam	pled Area		
, Wetland Hydrolo		Yes	No X	within a We	etlan Yes	No X	
Precipitation:				•			-
	Seattle Tacoma NOAA weathe	er station, precipitation	was within the norm	nal range for tl	he three months prior to the site vis	sit.	
-							
Remarks:	s located upslope of of W18-S	P6					
VEGETATION	J					V	
TEGETATIO	•	Absolute	Dominant	Indicator	Dominance Test workshee		
Tree Stratum	(Plot size: <u>r=3m)</u>	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant Species		
1. none	(	100%	Yes	FAC	That Are OBL, FACW, or FA		(A)
2.							
3.					Total Number of Dominant		
4.					Species Across All Strata:	2	(B)
		100% =	= Total Cover				
Sapling/Shrub S	tratum (Plot size: r=2m)				Percent of Dominant Species	\$	
1. Gaultheria sh	nallon	97%	Yes	FACU	That Are OBL, FACW, or FA	C: <u>50%</u>	<u>a</u> (A/B)
2. Rubus ursinu	IS	3%	<u>No</u>	FACU	Prevalence Index workshee		
3.					Total % Cover of:	Multiply by:	
4. 					OBL species	_x1=	
5			TIL	_	FACW species FAC species	x 2 = x 3 =	
Herb Stratum	(Plot size: <u>r=1m)</u>	<u>    100%    </u> =	= Total Cover		FACU species		
1. none	(1 lot size. <u>1 - hity</u>				UPL species	 x 5 =	
2.					Column Totals:	(A)	(B)
3.					Prevalence Index	-```	( )
4.					Hydrophytic Vegetation Inc	licators:	
5.					1 - Rapid Test for Hydro	phytic Vegetation	
6.					2 - Dominance Test is >	50%	
7					3 - Prevalence Index is	≤3.0 <sup>1</sup>	
8.					4 - Morphological Adapt		orting
9.					data in Remarks or o		
10.					5 - Wetland Non-Vascul		
11					Problematic Hydrophytic		
Woody Vine Stra	atum (Plot size: <u>r=2m)</u>	=	= Total Cover		<sup>1</sup> Indicators of hydric soil and be present.	wetland hydrology mus	st
1. none	<u>atum</u> (Flot 3/20. <u>F 2/11/</u>				be present.		
2.					Hydrophytic		
			- Total Cover		Vegetation Yes	sNo	<u>x</u>
% Bare Ground	in Herb Stratum 0%				Present?		
Remarks:							

**Parametrix** 

SOIL	Sampling Point: W18-SP-6
Profile Description (Describe to the depth needed to document the indicator or confirm the a	bsence of indicators):
Depth Matrix Redox Features	
(inches) Color (moist) % Color (moist) % Type <sup>1</sup>	<sup>1</sup> Loc <sup>2</sup> Texture <sup>3</sup> Remarks
0-4 10YR 2/1 100	L
4-9 7.5 YR 3/3 100	SiL
9-16 2.5 Y 4/2 95 2.5 Y 4/3 5 C	M SaL
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
<sup>3</sup> Texture: Sa = sand; Si = silt; C = clay; L = loam or loamy. Texture Modifier: co = coarse; f = fine; vf =	
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted):	Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1) Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2) Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1	
Hydrogen Sulfide (A4)Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)Depleted Matrix (F3) Thick Dark Surface (A12)Redox Dark Surface (F6)	
Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7)	<sup>3</sup> Indicators of hydrophytic vegetation and wetland
	hydrology must be present, unless disturbed or problematic.
Sandy Gleyed Matrix (S4) Redox Depressions (F8)	problematic.
Restrictive Layer (if present):	
Туре:	Hydric Soil
Depth (inches):	Present? Yes No X
Wetland Hydrology Indicators:	
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)	Water-Stained Leaves (B9) (MLRA 1, 2,
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)         Surface Water (A1)       X         High Water Table (A2)       1, 2, 4A, and 4B)         Saturation (A3)       Salt Crust (B11)         Water Marks (B1)       Aquatic Invertebrates (B13)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)         Surface Water (A1)       X         High Water Table (A2)       1, 2, 4A, and 4B)         Saturation (A3)       Salt Crust (B11)         Water Marks (B1)       Aquatic Invertebrates (B13)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)         Surface Water (A1)       X         High Water Table (A2)       1, 2, 4A, and 4B)         Saturation (A3)       Salt Crust (B11)         Water Marks (B1)       Aquatic Invertebrates (B13)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)         Surface Water (A1)       X         High Water Table (A2)       1, 2, 4A, and 4B)         Saturation (A3)       Salt Crust (B11)         Water Marks (B1)       Aquatic Invertebrates (B13)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)         Surface Water (A1)       X         High Water Table (A2)       1, 2, 4A, and 4B)         Saturation (A3)       Salt Crust (B11)         Water Marks (B1)       Aquatic Invertebrates (B13)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)         Surface Water (A1)       X         High Water Table (A2)       1, 2, 4A, and 4B)         Saturation (A3)       Salt Crust (B11)         Water Marks (B1)       Aquatic Invertebrates (B13)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)         Surface Water (A1)       X         High Water Table (A2)       1, 2, 4A, and 4B)         Saturation (A3)       Salt Crust (B11)         Water Marks (B1)       Aquatic Invertebrates (B13)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)         Iron Deposits (B5)       Stunted or Stressed Plants (D1) (LRR A)         Surface Soil Cracks (B6)       Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)         Surface Water (A1)       X         High Water Table (A2)       1, 2, 4A, and 4B)         Saturation (A3)       Salt Crust (B11)         Water Marks (B1)       Aquatic Invertebrates (B13)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)         Surface Water (A1)       X         High Water Table (A2)       1, 2, 4A, and 4B)         Saturation (A3)       Salt Crust (B11)         Water Marks (B1)       Aquatic Invertebrates (B13)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)         Sparsely Vegetated Concave Surface (B8)       Field Observations:	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)         Surface Water (A1)       X         High Water Table (A2)       1, 2, 4A, and 4B)         Saturation (A3)       Salt Crust (B11)         Water Marks (B1)       Aquatic Invertebrates (B13)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)         Iron Deposits (B5)       Stunted or Stressed Plants (D1) (LRR A)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)         Field Observations:       Yes       No       Depth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)         Drainage Patterns (B10)         Dry-Season Water Table (C2)         Saturation Visible on Aerial Imagery (C9)         (C3)       Geomorphic Position (D2)         Shallow Aquitard (D3)         FAC-Neutral Test (D5)         Raised Ant Mounds (D6) (LRR A)         Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)         Surface Water (A1)       X         High Water Table (A2)       1, 2, 4A, and 4B)         Saturation (A3)       Salt Crust (B11)         Water Marks (B1)       Aquatic Invertebrates (B13)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)         Iron Deposits (B5)       Stunted or Stressed Plants (D1) (LRR A)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)         Field Observations:       No       Depth (inches):         Water Table Present?       Yes       No       Depth (inches):	
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)         Surface Water (A1)       X         High Water Table (A2)       1, 2, 4A, and 4B)         Saturation (A3)       Salt Crust (B11)         Water Marks (B1)       Aquatic Invertebrates (B13)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)         Iron Deposits (B5)       Stunted or Stressed Plants (D1) (LRR A)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)         Field Observations:       Yes       No       Depth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)         Drainage Patterns (B10)         Dry-Season Water Table (C2)         Saturation Visible on Aerial Imagery (C9)         (C3)       Geomorphic Position (D2)         Shallow Aquitard (D3)         FAC-Neutral Test (D5)         Raised Ant Mounds (D6) (LRR A)         Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)         Surface Water (A1)       X         High Water Table (A2)       1, 2, 4A, and 4B)         Saturation (A3)       Salt Crust (B11)         Water Marks (B1)       Aquatic Invertebrates (B13)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)         Sparsely Vegetated Concave Surface (B8)       Depth (inches):         Field Observations:       No       Depth (inches):         Saturation Present?       Yes       No       Depth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2,         4A, and 4B)         Drainage Patterns (B10)         Dry-Season Water Table (C2)         Saturation Visible on Aerial Imagery (C9)         (C3)       Geomorphic Position (D2)         Shallow Aquitard (D3)         FAC-Neutral Test (D5)         Raised Ant Mounds (D6) (LRR A)         Frost-Heave Hummocks (D7)
High Water Table (A2)       1, 2, 4A, and 4B)         Saturation (A3)       Salt Crust (B11)         Water Marks (B1)       Aquatic Invertebrates (B13)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)         Sparsely Vegetated Concave Surface (B8)       Sturface Water Present?         Field Observations:       No       Depth (inches):         Saturation Present?       Yes       No       Depth (inches):         Saturation Present?       Yes       No       Depth (inches):         Gaturation Present?       Yes       No       Depth (inches):         Saturation Present?       Yes       No       Depth (inches):         Cincludes capillary fringe)       Depth (inches):       Saturation Previous inspections	
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)         Surface Water (A1)       X Water-Stained Leaves (B9) (except MLRA         High Water Table (A2)       1, 2, 4A, and 4B)         Saturation (A3)       Salt Crust (B11)         Water Marks (B1)       Aquatic Invertebrates (B13)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)         Sparsely Vegetated Concave Surface (B8)       Depth (inches):         Field Observations:       No       Depth (inches):         Saturation Present?       Yes       No       Depth (inches):         Saturation Present?       Yes       No       Depth (inches):         Gaturation Present?       Yes       No       Depth (inches):         Saturation Present?       Yes       No       Depth (inches):       Mo         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections       R	
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)	
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)	

ENGINEERING . PLANNING . ENVIRONMENTAL SCIENCES Project No.: 554-2441-022

US Army Corps of Engineers Western Mountains, Valleys, and Coast Region (Version 2.0)

Project/Site: Federal Way City Center Access		City/County:	Federal Way/Kir	ng	Sampling Date:	1/11/2021
Applicant/Owner: City of Federal Way				State: Washington	Sampling Poin	nt: W19-SP-1
Investigator(s): Trey Parry, Aaron Thom			See	ction, Township, Range:		S15
Landform (hillslope, terrace, etc.):	depression		Local relie	ef (concave, convex, none): co	oncave Slop	pe (%): <u>&lt;3%</u>
Subregion (LRR): Northwest Forests and Coast	(LRR A)) La	at: 47.310047	Long	-122.288963	Datum: N/	AD 1983 (HARN)
Soil Unit (Name-ID-Hydric Rating): Alde	rwood gravelly sandy	/ loam _	AgB -	Not Hydric NWI cla	assification:	None
Are climatic / hydrologic conditions on the site typic	•		Yes	X No	(If no, explain in Rer	narks)
Are Vegetation, Soil				"Normal Circumstances" prese		<u>X</u> No
Are Vegetation, Soil	_			needed, explain any answers in	, ,	
SUMMARY OF FINDINGS – Attach sit	e map showing	sampling poir	nt locations, t	ransects, important fea	tures, etc.	
Hydrophytic Vegetation Present?	Yes X	No X				
Hydric Soil Present?		No	Is the Sampled	_		
Wetland Hydrology Present?	Yes X	No	within a Wetla	n Yes <u>X</u>	No	_
Precipitation: According to the Seattle Tacoma NOAA weather s Remarks:	tation, precipitation w	as within the norm	nal range for the th	hree months prior to the site vis	jit.	
Remarks: This sample plot is located in a ponded area to the SP1 is within Wetland 19 and is the paired sample		e fish access road	d. The vegetation I	here is problematic but the soils	and hydrology are c	onvincing. W19-
VEGETATION						
	Absolute	Dominant	Indicator	Dominance Test worksheet	!:	
Tree Stratum (Plot size: <u>r=3m)</u>	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant Species	3	
1. none				That Are OBL, FACW, or FAC	C: 0	(A)
2.						
3.				Total Number of Dominant		
4.				Species Across All Strata:	1	(B)
	0% = T	otal Cover				
Sapling/Shrub Stratum (Plot size: r=2m)				Percent of Dominant Species	i	
<sup>1.</sup> Gaultheria shallon	80%	Yes	FACU	That Are OBL, FACW, or FAC	C: <u>0%</u>	<u>6</u> (A/B)
2				Prevalence Index workshee Total % Cover of:	et: Multiply by:	
4.				OBL species 0	x 1 =	0
5.				FACW species 0	x 2 =	0
···		otal Cover		FAC species 0	x 3 =	0
Herb Stratum (Plot size: r=1m)		otal cover		FACU species	x 4 =	
1. none				UPL species 0	x 5 =	0
2.				Column Totals:	(A)	(B)
3.				Prevalence Index		(`)
4.				Hydrophytic Vegetation Ind	licators:	
5.				1 - Rapid Test for Hydro		
6.				2 - Dominance Test is >		
7.				3 - Prevalence Index is	≤3.0 <sup>1</sup>	
8.				4 - Morphological Adapta	ations <sup>1</sup> (Provide supp	orting
9.				data in Remarks or o		0
10.				5 - Wetland Non-Vascul	ar Plants <sup>1</sup>	
11.				X Problematic Hydrophytic	Vegetation (Explain)	) <sup>1</sup>
	0% = T	otal Cover		<sup>1</sup> Indicators of hydric soil and v	wetland hydrology mu	ust
Woody Vine Stratum (Plot size: <u>r=2m)</u>				be present.		
1. <u>none</u>				Lively a shout a		
2		otal Cover		Hydrophytic Vegetation Yes	X No	v
% Bare Ground in Herb Stratum0%	070 = 1			Present?	<u> </u>	<u>x</u>
Remarks:				1		

This sample plot is located at an identical elevation to nearby Spiraea douglasii, Juncus effusus, Salix sp., and Athyrium cyclosorum. Despite the nearby vegetation this plot is only containen Gaultheria shallon due to large amounts of downed wood from logging practices.

## **Parametrix**

SOIL							Sampling Point:	W19-SP-1
	tion (Describe to the	depth neede	d to document the in	dicator or co	onfirm the absend	ce of indicators):	1 0	
Depth	, Matrix				x Features	,		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-8	10YR 2/1	100					Organic	
8-16	10YR 2/2	97	10YR 6/6	3	С	M	SiL	
17 0.0								
	entration, D=Depletion					cation: PL=Pore Lini	-	
					; t = fine; vt = very		e clay); - = light (less clay)	
-	cators (Applicable to	all LRRs, un					oblematic Hydric Soils <sup>3</sup> :	
X Histosol (A1	,	-	Sandy Redox (S5			2 cm Muck (A		
Histic Epipe		-	Stripped Matrix (S	,		Red Parent M	( )	
Black Histic	( )	-	Loamy Mucky Mir	. , .	cept MLRA 1)		Dark Surface (TF12)	
Hydrogen S	, ,	-	Loamy Gleyed Ma			Other (Explain	n in Remarks)	
Depleted Be	low Dark Surface (A1	1) <u>-</u>	Depleted Matrix (F	=3)				
Thick Dark S	Surface (A12)	-	Redox Dark Surfa	ice (F6)		<sup>3</sup> Indicators of hydr	ophytic vegetation and wetlan	d
	xy Mineral (S1)	-	Depleted Dark Su			hydrology must be	present, unless disturbed or	
Sandy Gley	ed Matrix (S4)	-	Redox Depression	ns (F8)		problematic.		
Restrictive Laye	er (if present):							
Ту	<sup>pe:</sup> none					Hydric Soil		
Depth (inches)						Present?	Yes X	No
HYDROLOG	Y							
Wetland Hydrol	ogy Indicators:							
Primary Indicato	rs (minimum of one re	quired; check	all that apply)			Secondary Indicat	ors (2 or more required)	
X Surface Wa	ter (A1)		X Water-Stained Le	aves (B9) (ex	cept MLRA	Water-Staine	d Leaves (B9) (MLRA 1, 2,	
X High Water	Table (A2)		1, 2, 4A, and 4I	3)		4A, and 4B	3)	
X Saturation (	43)		Salt Crust (B11)			Drainage Pat	terns (B10)	
X Water Mark	s (B1)		Aquatic Invertebra	ates (B13)		Dry-Season V	Vater Table (C2)	
Sediment D	eposits (B2)		Hydrogen Sulfide	Odor (C1)		Saturation Vis	sible on Aerial Imagery (C9)	
Drift Deposi	ts (B3)		Oxidized Rhizosp	heres along L	iving Roots (C3)	Geomorphic I	Position (D2)	
Algal Mat or	Crust (B4)		Presence of Redu	iced Iron (C4)	)	Shallow Aquit	tard (D3)	
Iron Deposit	s (B5)		Recent Iron Redu	ction in Tilled	Soils (C6)	FAC-Neutral	Test (D5)	
Surface Soi	Cracks (B6)		Stunted or Stress	ed Plants (D1	) (LRR A)	Raised Ant M	lounds (D6) (LRR A)	
Inundation \	/isible on Aerial Image	ery (B7)	Other (Explain in I	Remarks)		Frost-Heave	Hummocks (D7)	
Sparsely Ve	getated Concave Surf	face (B8)						
Field Observati	ons:							
Surface Water F	Present? Yes	x	No	Depth (inche	s): 1	Wetland		
Water Table Pre			No		s): surface (0)	Hydrology	Yes X	No
Saturation Pres			No		es): surface (0)	Present?	<u> </u>	
(includes capilla				2 op (or.o	o). <u>-canaco (cy</u>			
Describe Reco	rded Data (stream ga	auge, monitor	ing well, aerial photo	os, previous i	inspections), if av	vailable:		
Remarks:								
	cated in a small but de	eeply (2 feet) p	ooned area of Wetland	W19.				
-		. , ,						

Project/Site:	Federal Way City Center Acces	SS	City/County:	Federal Way	/King	Sampling Date:	1/11/2021
Applicant/Owner	City of Federal Way				State: Washington	1 Sampling Point	t: <b>W19-SP-2</b>
Investigator(s):	Trey Parry, Aaron Thom				Section, Township, Range:	T21N R04E \$	S15
Landform (hillslop	e, terrace, etc.):	hillslope		Local r	elief (concave, convex, none):	concave Slop	be (%): <3%
Subregion (LRR)	: Northwest Forests and Coa	ast (LRR A))	Lat: 47.310085	Lo	ong: -122.288979	Datum: NA	AD 1983 (HARN)
	ID-Hydric Rating): A			AgB		lassification:	None
•	Irologic conditions on the site ty	•			/es X No	(If no, explain in Ren	
Are Vegetation Are Vegetation	, Soil , Soil	, or Hydrology	significantly dis		Are "Normal Circumstances" pre If needed, explain any answers		<u>X</u> No
-					, transects, important fe		
	getation Present?	Yes	No X		, transects, important le	atures, etc.	
Hydric Soil Pres		Yes	No X	Is the Samp	led Area		
Wetland Hydrold		Yes	No X	within a We	tlan Yes	No X	
Precipitation:	57						
	Seattle Tacoma NOAA weathe	er station, precipitation	was within the norn	nal range for th	e three months prior to the site v	risit.	
				0			
Remarks:	is upplane and north of W/10 C	D1					
This sample plot	is upslope and north of W19-S	P1.					
VEGETATIO	N						
VEGETATIO	N	A la a luta	Dominant	Indicator	Dominance Test workshe	-4-	
Tree Stratum	(Plot size: <u>r=3m)</u>	Absolute <u>% Cover</u>	Species?	Status	Number of Dominant Specie		
1. none	(1 lot size. <u>1 ony</u>	90%	Yes	FACU	That Are OBL, FACW, or FA		(A)
2.		9078	165	FACO	That Are ODE, FACW, of FA	<u> </u>	(A)
3.					Total Number of Dominant		
4.					Species Across All Strata:	2	(B)
		90% =	Total Cover				(=)
Sapling/Shrub S	Stratum (Plot size: <u>r=2m)</u>				Percent of Dominant Specie	s	
1. Gaultheria s	hallon	90%	Yes	FACU	That Are OBL, FACW, or FA	AC: <u>0%</u>	2 (A/B)
2. Rubus ursin	us	2%	No	FACU	Prevalence Index worksho	et:	
3.					Total % Cover of:	Multiply by:	
4					OBL species	x 1 =	
5.					FACW species	x 2 =	
		<u>92%</u> =	Total Cover		FAC species	x 3 =	
Herb Stratum	(Plot size: <u>r=1m)</u>				FACU species	x 4 =	
1. <u>none</u>					UPL species Column Totals:	$x_{5} = $	(P)
2. 3.					Prevalence Inde	(A)	(B)
4.					Hydrophytic Vegetation Ir		
5.					1 - Rapid Test for Hydr		
6.					2 - Dominance Test is		
7.					3 - Prevalence Index is		
8.					4 - Morphological Adap		orting
9.					data in Remarks or	on a separate sheet)	-
10.					5 - Wetland Non-Vasci	ular Plants <sup>1</sup>	
11					Problematic Hydrophyt	ic Vegetation (Explain)	1
		=	Total Cover		<sup>1</sup> Indicators of hydric soil and	wetland hydrology mu	ist
Woody Vine Str	atum (Plot size: <u>r=2m)</u>				be present.		
1. <u>none</u> 2.					Hydrophytic		
		0% =	Total Cover		Vegetation Ye	s No	x
% Bare Ground	in Herb Stratum 10%	þ			Present?		
Remarks:							
Keniarka.							

**Parametrix** 

SOIL							
Profile Descrip	tion (Describe to the o	lepth needed	I to document the in	dicator or confirm the abser	ice of indicators):		
Depth	Matrix			Redox Features			
(inches)	Color (moist)	%	Color (moist)	% Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-4	10YR 2/2	100				L	
4-16	10YR 3/2	100				L	
		DM-Daduaa	Matrix CS-Cavarad	Ler Costed Sand Crains 2	ocation: PL=Pore Linin		
•••				l or Coated Sand Grains. <sup>2</sup> L :: co = coarse; f = fine; vf = ver			
	cators (Applicable to a						
-		all LKKS, util				olematic Hydric Soils <sup>3</sup> :	
Histosol (A1		-	Sandy Redox (S5	,	2 cm Muck (A1		
Histic Epiped		_	Stripped Matrix (S		Red Parent Ma		
Black Histic		-		neral (F1) (except MLRA 1)		Dark Surface (TF12)	
Hydrogen S		_	Loamy Gleyed Ma		Other (Explain	in Remarks)	
	low Dark Surface (A11	) _	Depleted Matrix (F				
	Surface (A12)	_	Redox Dark Surfa		<sup>3</sup> Indicators of hydro	phytic vegetation and wetla	nd
	y Mineral (S1)	-	Depleted Dark Su			present, unless disturbed or	
Sandy Gleye	ed Matrix (S4)	_	Redox Depression	ns (F8)	problematic.		
Restrictive Laye	er (if present):						
Tvi	be: none				Hydric Soil		
Depth (inches)					Present?	Yes	No <u>X</u>
Depth (inches) Remarks:	n/a				Present?	Yes	No <u>X</u>
Depth (inches) Remarks: HYDROLOG	<u>n/a</u>				Present?	Yes	No <u>X</u>
Depth (inches) Remarks: HYDROLOG Wetland Hydrold	Y ogy Indicators:						No <u>X</u>
Depth (inches) Remarks: HYDROLOG Wetland Hydrold	<u>n/a</u>	uired; check a	ill that apply)			Yes rs (2 or more required)	No <u>X</u>
Depth (inches) Remarks: HYDROLOG Wetland Hydrold	Y ogy Indicators: s (minimum of one req	uired; check a		aves (B9) (except MLRA	Secondary Indicato		No <u>X</u>
Depth (inches) Remarks: HYDROLOG Netland Hydrolo Primary Indicator	Y ogy Indicators: s (minimum of one req ter (A1)	uired; check a			Secondary Indicato	r <u>s (2 or more required)</u> Leaves (B9) (MLRA 1, 2,	No <u>X</u>
Depth (inches) Remarks: HYDROLOG Wetland Hydrolo Primary IndicatorSurface Wat	Y ogy Indicators: s (minimum of one req ier (A1) Table (A2)	uired; check a	Water-Stained Le		Secondary Indicato	rs (2 or more required) Leaves (B9) (MLRA 1, 2,	No <u>X</u>
Depth (inches) Remarks: HYDROLOG Wetland Hydrol Primary Indicator Surface Wat High Water	Y ogy Indicators: s (minimum of one req ter (A1) Table (A2) A3)	uired; check a	Water-Stained Lea 1, 2, 4A, and 4E	3)	Secondary Indicato Water-Stained 4A, and 4B) Drainage Patter	rs (2 or more required) Leaves (B9) (MLRA 1, 2,	No <u>X</u>
Depth (inches) Remarks: HYDROLOG Wetland Hydrole Primary Indicator Surface Wat High Water Saturation (A	Y ogy Indicators: (minimum of one req (A1) Table (A2) A3) (B1)	uired; check a	Water-Stained Le 1, 2, 4A, and 4E Salt Crust (B11)	3) ates (B13)	Secondary Indicato Water-Stained 4A, and 4B) Drainage Patte Dry-Season W	r <u>s (2 or more required)</u> Leaves (B9) (MLRA 1, 2, erns (B10)	No <u>X</u>
Depth (inches) Remarks: HYDROLOG Vetland Hydrolo Primary Indicator Surface Wat High Water Saturation ( <i>A</i> Water Marks	Y ogy Indicators: s (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2)	uired; check a	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide	3) ates (B13)	Secondary Indicato Water-Stained 4A, and 4B) Drainage Patte Dry-Season W	rs (2 or more required) Leaves (B9) (MLRA 1, 2, erns (B10) ater Table (C2) ble on Aerial Imagery (C9)	No <u>X</u>
Depth (inches) Remarks: HYDROLOG Wetland Hydrolo Primary Indicator Surface Wate High Water Saturation (# Water Marks Sediment De	Y ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) s (B3)	uired; check a	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide	3) ates (B13) Odor (C1) heres along Living Roots (C3)	Secondary Indicato Water-Stained 4A, and 4B) Drainage Patte Dry-Season W Saturation Visi	rs (2 or more required) Leaves (B9) (MLRA 1, 2, erns (B10) ater Table (C2) ble on Aerial Imagery (C9) osition (D2)	No <u>X</u>
Depth (inches) Remarks: HYDROLOG Wetland Hydrole Primary Indicator Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposit	Y ogy Indicators: (minimum of one req ter (A1) Table (A2) A3) (B1) eposits (B2) (B3) Crust (B4)	uired; check a	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl Presence of Redu	3) ates (B13) Odor (C1) heres along Living Roots (C3)	Secondary Indicato Water-Stained 4A, and 4B) Drainage Patte Dry-Season W Saturation Visi Geomorphic P	rs (2 or more required) Leaves (B9) (MLRA 1, 2, erns (B10) ater Table (C2) ble on Aerial Imagery (C9) osition (D2) rd (D3)	No <u>X</u>
Depth (inches) Remarks: HYDROLOG Vetland Hydrolo Primary Indicator Surface Wat High Water Saturation (/ Water Marks Sediment De Drift Deposit Algal Mat or	Y ogy Indicators: s (minimum of one req iter (A1) Table (A2) A3) s (B1) eposits (B2) s (B3) Crust (B4) s (B5)	uired; check a	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl Presence of Redu Recent Iron Redu	3) ates (B13) Odor (C1) heres along Living Roots (C3) uced Iron (C4)	Secondary Indicato Water-Stained 4A, and 4B) Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita FAC-Neutral T	rs (2 or more required) Leaves (B9) (MLRA 1, 2, erns (B10) ater Table (C2) ble on Aerial Imagery (C9) osition (D2) rd (D3)	No <u>X</u>
Depth (inches) Remarks: HYDROLOG Wetland Hydrol Primary Indicator Surface Wate High Water Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil	Y ogy Indicators: s (minimum of one req iter (A1) Table (A2) A3) s (B1) eposits (B2) s (B3) Crust (B4) s (B5)		Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl Presence of Redu Recent Iron Redu	3) ates (B13) Odor (C1) heres along Living Roots (C3) uced Iron (C4) ction in Tilled Soils (C6) ed Plants (D1) (LRR A)	Secondary Indicato Water-Stained 4A, and 4B) Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mo	rs (2 or more required) Leaves (B9) (MLRA 1, 2, erns (B10) ater Table (C2) ble on Aerial Imagery (C9) osition (D2) rd (D3) est (D5)	No <u>X</u>
Depth (inches) Remarks: HYDROLOG Netland Hydrol Primary Indicator Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V	Y ogy Indicators: s (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) s (B3) Crust (B4) s (B5) Cracks (B6)	y (B7)	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Redu Stunted or Stresse	3) ates (B13) Odor (C1) heres along Living Roots (C3) uced Iron (C4) ction in Tilled Soils (C6) ed Plants (D1) (LRR A)	Secondary Indicato Water-Stained 4A, and 4B) Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mo	rs (2 or more required) Leaves (B9) (MLRA 1, 2, erns (B10) ater Table (C2) ble on Aerial Imagery (C9) osition (D2) rd (D3) est (D5) unds (D6) (LRR A)	No <u>X</u>
Depth (inches) Remarks: HYDROLOG Netland Hydrol Primary Indicator Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V	Y ogy Indicators: <u>s (minimum of one req</u> ter (A1) Table (A2) A3) s (B1) eposits (B2) s (B3) Crust (B4) s (B5) Cracks (B6) 'isible on Aerial Imager getated Concave Surfa	y (B7)	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Redu Stunted or Stresse	3) ates (B13) Odor (C1) heres along Living Roots (C3) uced Iron (C4) ction in Tilled Soils (C6) ed Plants (D1) (LRR A)	Secondary Indicato Water-Stained 4A, and 4B) Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mo	rs (2 or more required) Leaves (B9) (MLRA 1, 2, erns (B10) ater Table (C2) ble on Aerial Imagery (C9) osition (D2) rd (D3) est (D5) unds (D6) (LRR A)	No <u>X</u>
Depth (inches) Remarks: HYDROLOG Wetland Hydrolo Primary Indicator Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V Sparsely Ve	Y ogy Indicators: s (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) s (B3) Crust (B4) s (B5) Cracks (B6) 'isible on Aerial Imager getated Concave Surfa	y (B7) ce (B8)	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl Presence of Redu Recent Iron Redu Stunted or Stresse Other (Explain in F	3) ates (B13) Odor (C1) heres along Living Roots (C3) uced Iron (C4) action in Tilled Soils (C6) ed Plants (D1) (LRR A) Remarks)	Secondary Indicato Water-Stained 4A, and 4B) Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mo	rs (2 or more required) Leaves (B9) (MLRA 1, 2, erns (B10) ater Table (C2) ble on Aerial Imagery (C9) osition (D2) rd (D3) est (D5) unds (D6) (LRR A)	No <u>X</u>
Depth (inches) Remarks: HYDROLOG Wetland Hydrole Primary Indicator Surface Wate High Water Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V Sparsely Ve Field Observatio	Y ogy Indicators: (minimum of one req ter (A1) Table (A2) A3) (Crust (B4) (Crust (B4) (Crust (B4)) (Crust (Crust (Crus	y (B7) .ce (B8)	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl Presence of Redu Recent Iron Redu Stunted or Stresse Other (Explain in F	3) ates (B13) Odor (C1) heres along Living Roots (C3) uced Iron (C4) ction in Tilled Soils (C6) ed Plants (D1) (LRR A)	Secondary Indicato Water-Stained 4A, and 4B) Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mo Frost-Heave H	rs (2 or more required) Leaves (B9) (MLRA 1, 2, erns (B10) ater Table (C2) ble on Aerial Imagery (C9) osition (D2) rd (D3) est (D5) unds (D6) (LRR A) ummocks (D7)	No X
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Depth (inches) Remarks: HYDROLOG Vetland Hydrolo Primary Indicator Surface Wate High Water Saturation (/ Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V Sparsely Ve Field Observatio Surface Water Field Obse	Y ogy Indicators: <u>s (minimum of one req</u> ter (A1) Table (A2) A3) s (B1) eposits (B2) s (B3) Crust (B4) s (B5) Cracks (B6) 'isible on Aerial Imager getated Concave Surfa ons: Present? Yes esent? Yes ent? Yes ry fringe)	y (B7) ce (B8)	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl Presence of Redu Recent Iron Redu Stunted or Stresse Other (Explain in F	3) ates (B13) Odor (C1) heres along Living Roots (C3) uced Iron (C4) ction in Tilled Soils (C6) ed Plants (D1) (LRR A) Remarks) Depth (inches): Depth (inches):	Secondary Indicato Water-Stained 4A, and 4B) Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mo Frost-Heave H Wetland Hydrology Present?	rs (2 or more required) Leaves (B9) (MLRA 1, 2, erns (B10) ater Table (C2) ble on Aerial Imagery (C9) osition (D2) rd (D3) est (D5) unds (D6) (LRR A) ummocks (D7)	
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ENGINEERING . PLANNING . ENVIRONMENTAL SCIENCES Project No.: 554-2441-022

US Army Corps of Engineers Western Mountains, Valleys, and Coast Region (Version 2.0)

Project/Site:	City Center Access		City/County:	Federal Way /	King	Sampling Date	e: 5/03/2021
Applicant/Owner:	WSDOT				State: V	 NA Samplin	ng Point: W20-SP-1
Investigator(s):	Josh Wozniak, Amanda W	eiss		S	ection, Township, Range	: T21N	R04E S16
Landform (hillslop	e, terrace, etc.):	Swale		Local re	lief (concave, convex, none)	): concave	Slope (%):<3%
Subregion (LRR)	: Northwest Forests and Co	ast (LRR A))	Lat: 47.302948	Lon	ng: -122.301559	Datun	n: NAD 1983 (HARI
Soil Unit (Name-I	D-Hydric Rating): A	Iderwood gravelly sand	ly loam -	AgB	- Not Hydric	NWI classification:	None
Are climatic / hyd	rologic conditions on the site t	pical for this time of ye	ar?	Ye	es No	X (If no, explain	in Remarks)
Are Vegetation	, Soil				re "Normal Circumstance	•	Yes <u>X</u> No
Are Vegetation	, Soil	, or Hydrology	naturally proble	ematic? (If	needed, explain any ans	wers in Remarks.)	
SUMMARY C	F FINDINGS – Attach	site map showing	ı sampling poir	nt locations,	transects, importa	ant features, etc.	
Hydrophytic Veg	etation Present?	Yes X	No				
Hydric Soil Prese	ent?	Yes X	No	Is the Sample			
Wetland Hydrold	gy Present?	Yes X	No	within a Wetl	and? Yes	<u>X</u> No	
Precipitation: According to the Remarks:	Seattle Tacoma Airport NOAA	weather station, precip	itation was below th	ne normal range	for the three months pric	or to the site visit.	
This is the wetlar	d sample point for Wetland 20	). It occurs within a gras	sy slope alongside	15 N.			
VEGETATIO	N					<u> </u>	
		Absolute	Dominant	Indicator	Dominance Test wo		
Tree Stratum	(Plot size: <u>r=3m)</u>	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant		
1. <u>none</u> 2.				. <u> </u>	That Are OBL, FACW	/, or FAC:	<u>2</u> (A)
3. 4.					Total Number of Dom		
4.					Species Across All St	rata:	2(B)
	(D) ( ; = -2m)	=	Total Cover			o ·	
Sapling/Shrub S	tratum (Plot size: <u>r=2m)</u>				Percent of Dominant		1000/
<sup>1.</sup> <u>none</u> 2.					That Are OBL, FACW		<u>100%</u> (A/B)
3.					Prevalence Index we Total % Cover of		
-							
4. 					OBL species	x 1 =	
5.					FACW species	x 2 =	
Lie who Odwards une		<u> </u>	Total Cover		FAC species	x 3 =	
Herb Stratum	(Plot size: <u>r=1m)</u>				FACU species	x 4 =	
1 <u>Holcus lanat</u>		40%	Yes	FAC	UPL species	x 5 =	
2. <u>Poa pratens</u>		40%	Yes	FAC	Column Totals:	(A)	(B)
3. Phalaris aru	ndinacea	10%	No	FACW		e Index = B/A =	
4.					Hydrophytic Vegeta		
5.						or Hydrophytic Vegetatio	on
6.		— — —			X 2 - Dominance T		
7					3 - Prevalence Ir		
8.						al Adaptations <sup>1</sup> (Provide	
9.						irks or on a separate sh	neet)
10.						-Vascular Plants <sup>1</sup>	
11.						Irophytic Vegetation (Ex	
Woody Vine Stra	atum (Plot size: <u>r=2m)</u>	<u>    90%    </u> =	Total Cover		'Indicators of hydric s be present.	oil and wetland hydrold	ogy must
2.		<u> </u>			Hydrophytic		
		0% =	Total Cover		Vegetation	Yes X No	)
% Bare Ground	in Herb Stratum 10%				Present?		
Remarks:					1		

**Parametrix** 

Depth		aeptn neeae	d to document the in	dicator or cor	nfirm the absence	e of indicators):		
	Matrix	-			Features	· · · · · · · · · · · · · · · · · · ·		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-6	2.5Y 4/1	100	- ( /				CoL	
6-10	2.5Y 5/2	80	10YR 4/6	5	С	M	GrL	
			10YR 6/6	15	C	Μ		
10-16	5Y 5/1	80	10YR 5/6	20	C	M	GrL	
					2			
			d Matrix, CS=Covered			ation: PL=Pore Lini		
			less otherwise noted		r = fine; vr = very r		e clay); - = light (less clay)	
	ators (Applicable to	ali LKKS, uli					oblematic Hydric Soils <sup>3</sup> :	
Histosol (A1)	(10)	-	Sandy Redox (S5)			2 cm Muck (#		
Histic Epipedo	. ,	-	Stripped Matrix (S	,		Red Parent M		
Black Histic (A	-	-	Loamy Mucky Min		ept MLRA 1)		Dark Surface (TF12)	
Hydrogen Sul		-	Loamy Gleyed Ma			Other (Explai	n in Remarks)	
	ow Dark Surface (A11	1) -	X Depleted Matrix (F	,				
Thick Dark Su		-	Redox Dark Surfa				ophytic vegetation and we	
Sandy Mucky		-	Depleted Dark Su				present, unless disturbed	d or
Sandy Gleyed	a Matrix (S4)	-	Redox Depression	าร (⊦ช)		problematic.		
estrictive Layer	r (if present):							
Туре	e:					Hydric Soil		
Depth (inches):						Present?	Yes X	No
etland Hydrolog	gy Indicators:							
etland Hydrolog		quired; check	all that apply)			Secondary Indicat	ors (2 or more required)	
etland Hydrolog	gy Indicators: (minimum of one rec	quired; check	<u>all that apply)</u> Water-Stained Lea	aves (B9) (exc	ept MLRA		<u>ors (2 or more required)</u> d Leaves (B9) (MLRA 1, 2	2,
Vetland Hydrolog rimary Indicators Surface Wate	gy Indicators: (minimum of one rec er (A1)	quired; check -	Water-Stained Lea 1, 2, 4A, and 4E		ept MLRA		d Leaves (B9) (MLRA 1, 2	2,
Vetland Hydrolog rimary Indicators Surface Wate X High Water Ta X Saturation (A	gy Indicators: (minimum of one rec er (A1) able (A2) 3)	quired; check -	Water-Stained Lea		ept MLRA	Water-Staine	d Leaves (B9) (MLRA 1, 2 3)	2,
Vetland Hydrolog rimary Indicators Surface Wate X High Water Ta X Saturation (A Water Marks	gy Indicators: (minimum of one rec er (A1) able (A2) 3) (B1)	<u>quired; check</u> - -	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra	3) ates (B13)	ept MLRA	Water-Staine 4A, and 4E Drainage Pat Dry-Season V	d Leaves (B9) (MLRA 1, 2 3) terns (B10) Nater Table (C2)	
Vetland Hydrolog rimary Indicators Surface Wate X High Water Ta Saturation (A3 Water Marks Sediment Dep	gy Indicators: (minimum of one rec er (A1) able (A2) 3) (B1) posits (B2)	quired; check - - -	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide	3) ates (B13) Odor (C1)		Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vi	d Leaves (B9) (MLRA 1, 2 3) terns (B10) Water Table (C2) sible on Aerial Imagery (C	
Vetland Hydrolog rimary Indicators Surface Wate X High Water Ta X Saturation (A3 Water Marks Sediment Dep Drift Deposits	gy Indicators: (minimum of one rec er (A1) able (A2) 3) (B1) posits (B2) (B3)	<u>quired; check</u> - - - -	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide X Oxidized Rhizosph	3) ates (B13) Odor (C1) heres along Liv		Water-Staine 4A, and 4E Drainage Pat Dry-Season Vi Saturation Vis Geomorphic	d Leaves (B9) (MLRA 1, 2 3) terns (B10) Nater Table (C2) sible on Aerial Imagery (C Position (D2)	
Vetland Hydrolog         rimary Indicators         Surface Wate         X         High Water Tax         X         Saturation (AS         Water Marks         Sediment Dep         Drift Deposits         Algal Mat or C	gy Indicators: (minimum of one rec er (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4)	<u>quired; check</u> - - - -	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide X Oxidized Rhizosph Presence of Redu	3) otes (B13) Odor (C1) heres along Liv iced Iron (C4)	ving Roots (C3)	Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vis Geomorphic Shallow Aqui	d Leaves (B9) (MLRA 1, 2 3) terns (B10) Nater Table (C2) sible on Aerial Imagery (C Position (D2) tard (D3)	
Vetland Hydrolog rimary Indicators Surface Wate X High Water Ta X Saturation (A3 Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits	gy Indicators: (minimum of one rec er (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5)	<u>quired; check</u> - - - -	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide X Oxidized Rhizosph	3) otes (B13) Odor (C1) heres along Liv iced Iron (C4)	ving Roots (C3)	Water-Staine 4A, and 4E Drainage Pat Dry-Season Vi Saturation Vis Geomorphic	d Leaves (B9) (MLRA 1, 2 3) terns (B10) Nater Table (C2) sible on Aerial Imagery (C Position (D2) tard (D3)	
Vetland Hydrolog rimary Indicators Surface Wate X High Water Ta X Saturation (A3 Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C	gy Indicators: (minimum of one rec er (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5) Cracks (B6)		Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide X Oxidized Rhizosph Presence of Redu	3) Odor (C1) heres along Liv iced Iron (C4) ction in Tilled S	ving Roots (C3) Soils (C6)	Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Via Geomorphic Shallow Aqui FAC-Neutral Raised Ant M	d Leaves (B9) (MLRA 1, 2 terns (B10) Water Table (C2) sible on Aerial Imagery (C Position (D2) tard (D3) Test (D5) lounds (D6) (LRR A)	
Vetland Hydrolog         rimary Indicators         Surface Wate         Autor Mater Tax         Saturation (A3)         Water Marks         Sediment Dep         Drift Deposits         Algal Mat or Control         Iron Deposits         Surface Soil Control         Inundation Vis	gy Indicators: (minimum of one rec er (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aerial Image		Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide X Oxidized Rhizosph Presence of Redu Recent Iron Reduc	3) Odor (C1) heres along Liv iced Iron (C4) ction in Tilled S ed Plants (D1)	ving Roots (C3) Soils (C6)	Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Via Geomorphic Shallow Aqui FAC-Neutral Raised Ant M	d Leaves (B9) (MLRA 1, 2 terns (B10) Water Table (C2) sible on Aerial Imagery (C Position (D2) tard (D3) Test (D5)	
Vetland Hydrolog rimary Indicators Surface Wate High Water Ta Saturation (A3 Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis	gy Indicators: (minimum of one rec er (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5) Cracks (B6)		Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide X Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse	3) Odor (C1) heres along Liv iced Iron (C4) ction in Tilled S ed Plants (D1)	ving Roots (C3) Soils (C6)	Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Via Geomorphic Shallow Aqui FAC-Neutral Raised Ant M	d Leaves (B9) (MLRA 1, 2 terns (B10) Water Table (C2) sible on Aerial Imagery (C Position (D2) tard (D3) Test (D5) lounds (D6) (LRR A)	
Vetland Hydrolog rimary Indicators Surface Wate X High Water Ta X Saturation (A3 Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Veg	gy Indicators: (minimum of one rec er (A1) (able (A2) (B1) posits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aerial Imagen etated Concave Surfa		Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide X Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse	3) Odor (C1) heres along Liv iced Iron (C4) ction in Tilled S ed Plants (D1)	ving Roots (C3) Soils (C6)	Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Via Geomorphic Shallow Aqui FAC-Neutral Raised Ant M	d Leaves (B9) (MLRA 1, 2 terns (B10) Water Table (C2) sible on Aerial Imagery (C Position (D2) tard (D3) Test (D5) lounds (D6) (LRR A)	
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Vetland Hydrolog Primary Indicators Surface Water X High Water Ta X Saturation (A3 Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Veg Veg Veg Veg Surface Water Pr Water Table Pres Saturation Preser	gy Indicators: (minimum of one rec er (A1) (able (A2) (B1) posits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aerial Imager etated Concave Surfa ns: resent? Yes sent? Yes	ry (B7) ace (B8)	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide X Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse Other (Explain in F	3) Odor (C1) heres along Liv iced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) Depth (inches	ving Roots (C3) Soils (C6) (LRR A) ):	Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Via Geomorphic Shallow Aqui FAC-Neutral Raised Ant M Frost-Heave	d Leaves (B9) (MLRA 1, 2 3) terns (B10) Water Table (C2) sible on Aerial Imagery (C Position (D2) tard (D3) Test (D5) lounds (D6) (LRR A) Hummocks (D7)	9)
Vetland Hydrolog Primary Indicators Surface Water X High Water Ta X Saturation (A3 Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Veg Sield Observation Surface Water Pres Saturation Preser (includes capillary	gy Indicators: (minimum of one rec er (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aerial Imagen tetated Concave Surfa resent? Yes sent? Yes nt? Yes (fringe)	ry (B7) ace (B8)	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide X Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse Other (Explain in F	3) odor (C1) heres along Liv iced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) Depth (inches Depth (inches Depth (inches	ving Roots (C3) Soils (C6) (LRR A) ): ): ):	Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Via Geomorphic Shallow Aqui FAC-Neutral Raised Ant M Frost-Heave Wetland Hydrology Present?	d Leaves (B9) (MLRA 1, 2 3) terns (B10) Water Table (C2) sible on Aerial Imagery (C Position (D2) tard (D3) Test (D5) lounds (D6) (LRR A) Hummocks (D7)	9)
Surface Water X High Water Ta X Saturation (A Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Veg Sield Observation Surface Water Pres Saturation Preser (includes capillary	gy Indicators: (minimum of one rec er (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aerial Imagen tetated Concave Surfa resent? Yes sent? Yes nt? Yes (fringe)	ry (B7) ace (B8)	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide X Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse Other (Explain in F	3) odor (C1) heres along Liv iced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) Depth (inches Depth (inches Depth (inches	ving Roots (C3) Soils (C6) (LRR A) ): ): ):	Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Via Geomorphic Shallow Aqui FAC-Neutral Raised Ant M Frost-Heave Wetland Hydrology Present?	d Leaves (B9) (MLRA 1, 2 terns (B10) Water Table (C2) sible on Aerial Imagery (C Position (D2) tard (D3) Test (D5) lounds (D6) (LRR A) Hummocks (D7)	9)
Vetland Hydrolog         Primary Indicators         Surface Wate         X         High Water Ta         X         Saturation (AC         Water Marks         Sediment Dep         Drift Deposits         Algal Mat or C         Iron Deposits         Surface Soil C         Inundation Vis         Sparsely Veg         Field Observation         Surface Water Press         Saturation Preser         Gaturation Preser         Includes capillary	gy Indicators: (minimum of one rec er (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aerial Imagen tetated Concave Surfa resent? Yes sent? Yes nt? Yes (fringe)	ry (B7) ace (B8)	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide X Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse Other (Explain in F	3) odor (C1) heres along Liv iced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) Depth (inches Depth (inches Depth (inches	ving Roots (C3) Soils (C6) (LRR A) ): ): ):	Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Via Geomorphic Shallow Aqui FAC-Neutral Raised Ant M Frost-Heave Wetland Hydrology Present?	d Leaves (B9) (MLRA 1, 2 terns (B10) Water Table (C2) sible on Aerial Imagery (C Position (D2) tard (D3) Test (D5) lounds (D6) (LRR A) Hummocks (D7)	9)
Vetland Hydrolog rimary Indicators Surface Water X High Water Ta X Saturation (A3 Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Veg ield Observation Surface Water Pres Saturation Preser includes capillary Describe Record Remarks:	gy Indicators: (minimum of one rec er (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aerial Imagen tetated Concave Surfa resent? Yes sent? Yes nt? Yes (fringe)	ry (B7) ace (B8) X X uge, monitor	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide 4 X Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse Other (Explain in F No X No X No Mo	3) odor (C1) heres along Liv iced Iron (C4) ction in Tilled S ed Plants (D1) Remarks) Depth (inches Depth (inches Depth (inches	ving Roots (C3) Soils (C6) (LRR A) ): ): ):	Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Via Geomorphic Shallow Aqui FAC-Neutral Raised Ant M Frost-Heave Wetland Hydrology Present?	d Leaves (B9) (MLRA 1, 2 terns (B10) Water Table (C2) sible on Aerial Imagery (C Position (D2) tard (D3) Test (D5) lounds (D6) (LRR A) Hummocks (D7)	9)

Project/Site: Cit	ty Center Access		City/County:	Federal Way	y / King	Sampling Date:	5/03/2021
Applicant/Owner:	WSDOT				State: W	/A Sampling F	Point: W20-SP-2
Investigator(s):	Josh Wozniak, Amanda We	iss		_	Section, Township, Range	T21N R04	4E S16
Landform (hillslope,	terrace, etc.):	Hillslope		Local	relief (concave, convex, none):	none	Slope (%): <3%
Subregion (LRR):	Northwest Forests and Coas	st (LRR A))	Lat: 47.302868	L	ong: -122.301422	Datum:	NAD 1983 (HARN)
Soil Unit (Name-ID	-Hydric Rating):	Alderwood gravelly sa	ndy loam -	AgB	- Not Hydric	NWI classification:	None
Are climatic / hydro	ologic conditions on the site typ	pical for this time of ye	ear?		Yes No	X (If no, explain in I	Remarks)
Are Vegetation	, Soil				Are "Normal Circumstances	•	Yes X No
Are Vegetation	, Soil				(If needed, explain any ans		
SUMMARY OF	FINDINGS – Attach s	ite map showing	g sampling poir	nt location	s, transects, importa	nt features, etc.	
Hydrophytic Veget		Yes X	No				
Hydric Soil Presen		Yes	No	Is the Sam			
Wetland Hydrolog	y Present?	Yes	No X	within a We	etland? Yes	<u> </u>	<u> </u>
	eattle Tacoma Airport NOAA v	veather station, precip	pitation was below th	ne normal rang	ge for the three months prior	r to the site visit.	
	s located approximately 30 ft	upslope and to the ea	st of SP-1.				
VEGETATION							
		Absolute	Dominant	Indicator	Dominance Test wor	ksheet:	
<u>Tree Stratum</u>	(Plot size: <u>r=3m)</u>	<u>% Cover</u>	Species?	Status	Number of Dominant S	Species	
1. <u>none</u>					That Are OBL, FACW	, or FAC:	<u>3</u> (A)
2.							
3.					Total Number of Domi	nant	
4.					Species Across All Str	ata:	<u>4</u> (B)
		=	Total Cover				
Sapling/Shrub Str	ratum (Plot size: <u>r=2m)</u>				Percent of Dominant S		
1. <u>none</u>					That Are OBL, FACW	,	<u>75%</u> (A/B)
2.		_			Prevalence Index wo		
3.					Total % Cover of		
4.					OBL species	x1=	
5.					FACW species	x 2 =	
		=	Total Cover		FAC species	x 3 =	
Herb Stratum	(Plot size: <u>r=1m)</u>	1001			FACU species	x 4 =	
1. <u>Poa pratensis</u>		40%	Yes	FAC	· · · ·	x 5 =	(D)
2. <u>Holcus lanatus</u>		20%	Yes	FAC	Column Totals:	(A) Index = B/A =	(B)
3. <u>Anthoxanthum</u>		20%	Yes	FACU			
4. <u>Schedonorus</u>	arundinaceus	20%	Yes	FAC	Hydrophytic Vegetat		
5.					X 2 - Dominance Te	Hydrophytic Vegetation	
6. 7.							
8.					3 - Prevalence In		
9.						Adaptations <sup>1</sup> (Provide suks or on a separate shee	
9 10					5 - Wetland Non-		,,,,
							ain) <sup>1</sup>
11		4000/	Total Causa			ophytic Vegetation (Expla bil and wetland hydrology	-
Woody Vine Strat	um_ (Plot size: <u>r=2m)</u>	<u>    100%    </u> =	Total Cover		be present.		must
2.					Hydrophytic		
% Bare Ground in	Herb Stratum0%	0% =	Total Cover		Vegetation Present?	Yes X No	
Remarks:							

**Parametrix** 

SOIL								
Profile Descript	tion (Describe to the de	epth needed	d to document the in	dicator or co	onfirm the absence	e of indicators):		
Depth	Matrix			Redox	Features			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-7	10YR 3/2	100					<u> </u>	
7-15	5Y 5/1	80	7.5YR 4/6	25	C	PL,M	GrL	
15-18	10YR 2/2	100						
			<u> </u>			·		
						<u> </u>		
		<u> </u>			·			
Type: C=Conce	ntration, D=Depletion, R	M=Reduced	Matrix CS=Covered	or Coated Sa	and Grains <sup>2</sup> Loc	ation: PL=Pore Linir	ng M=Matrix	
	-						clay); - = light (less clay)	
	ators (Applicable to al				, , <b>. . . . . . . . . . .</b>		blematic Hydric Soils <sup>3</sup> :	
Histosol (A1)	)	·	Sandy Redox (S5	)		2 cm Muck (A		
Histic Epiped		-	Stripped Matrix (S			Red Parent M		
Black Histic (		-	Loamy Mucky Min		ept MLRA 1)		Dark Surface (TF12)	
Hydrogen Su		-	Loamy Gleyed Ma			Other (Explain		
	low Dark Surface (A11)	-	X Depleted Matrix (F					
	Surface (A12)	_	Redox Dark Surfa			3		
	y Mineral (S1)	-	 Depleted Dark Su				ophytic vegetation and wetlan present, unless disturbed or	
	ed Matrix (S4)	_	Redox Depressior			problematic.	present, unless disturbed of	
Restrictive Laye				. ,				
						Hydric Soil		
Tvr								
Typ Depth (inches):	1					Procent?	Vos	No
Depth (inches):	1					Present?	Yes	No
Depth (inches):	1					Present?	Yes	No
						Present?	Yes	No
Depth (inches): Remarks:	 Y					Present?	Yes	No
Depth (inches): Remarks: HYDROLOG	 Y	ired; check a	all that apply)				Yes	No
Depth (inches): Remarks: HYDROLOG	Y ogy Indicators: s (minimum of one requi	ired; check a	all that apply) Water-Stained Lea	aves (B9) (ex	cept MLRA	Secondary Indicate		No
Depth (inches): Remarks: HYDROLOG Wetland Hydrold	Y pgy Indicators: s (minimum of one requi er (A1)	ired; check a			cept MLRA	Secondary Indicate	o <u>rs (2 or more required)</u> d Leaves (B9) (MLRA 1, 2,	No
Depth (inches): Remarks: HYDROLOG Wetland Hydrolo Primary Indicator:Surface Wat	Y ogy Indicators: s (minimum of one requi er (A1) Fable (A2)	ired; check a	Water-Stained Le		cept MLRA	Secondary Indicate	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, )	No
Depth (inches): Remarks: HYDROLOG Wetland Hydrold Primary Indicator:Surface WatHigh Water 1	Y ogy Indicators: s (minimum of one requi er (A1) Fable (A2) V3)	ired; check a	Water-Stained Lea 1, 2, 4A, and 4E	3)	cept MLRA	Secondary Indicate Water-Stained 4A, and 4B Drainage Patt	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, )	No
Depth (inches): Remarks: HYDROLOG Wetland Hydrold Primary Indicator Surface Wat High Water T Saturation (A	Y ogy Indicators: s (minimum of one requi er (A1) Table (A2) A3) s (B1)	ired; check a	Water-Stained Le 1, 2, 4A, and 4E Salt Crust (B11)	3) ates (B13)	cept MLRA	Secondary Indicate Water-Stained 4A, and 4B Drainage Patt Dry-Season V	o <u>rs (2 or more required)</u> d Leaves (B9) (MLRA 1, 2, ) erns (B10)	No
Depth (inches): Remarks: HYDROLOG Vetland Hydrold Primary Indicator: Surface Wate High Water T Saturation (A Water Marks	Y pgy Indicators: s (minimum of one requi er (A1) Table (A2) A3) s (B1) eposits (B2)	ired; check a	Water-Stained Le 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra	3) ates (B13) Odor (C1)		Secondary Indicate Water-Stained 4A, and 4B Drainage Patt Dry-Season V	o <u>rs (2 or more required)</u> d Leaves (B9) (MLRA 1, 2, ) erns (B10) Vater Table (C2) ible on Aerial Imagery (C9)	No
Depth (inches): Remarks: HYDROLOG Wetland Hydrold Primary Indicator: Surface Wat High Water 1 Saturation (A Water Marks Sediment De	Y pgy Indicators: s (minimum of one requi er (A1) Γable (A2) A3) s (B1) eposits (B2) s (B3)	ired; check a	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide	3) ates (B13) Odor (C1) heres along L	iving Roots (C3)	Secondary Indicato Water-Stained 4A, and 4B Drainage Patt Dry-Season V Saturation Vis	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, ) erns (B10) Vater Table (C2) ible on Aerial Imagery (C9) Position (D2)	No
Depth (inches): Remarks: HYDROLOG HYDROLOG Vetland Hydrold Crimary Indicator Surface Wat High Water T Saturation (A Water Marks Sediment De Drift Deposite	Y pgy Indicators: s (minimum of one requi er (A1) Table (A2) A3) s (B1) eposits (B2) s (B3) Crust (B4)	ired; check a	Water-Stained Le 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl	3) odor (C1) heres along L iced Iron (C4)	iving Roots (C3)	Secondary Indicato Water-Stained 4A, and 4B Drainage Patt Dry-Season V Saturation Vis Geomorphic F	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, ) erns (B10) Vater Table (C2) ible on Aerial Imagery (C9) Position (D2) ard (D3)	No
Depth (inches): Remarks: HYDROLOG HYDROLOG Vetland Hydrold Primary Indicator: Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposite Algal Mat or	Y bgy Indicators: s (minimum of one requi er (A1) Table (A2) A3) s (B1) eposits (B2) s (B3) Crust (B4) s (B5)	ired; check a	Water-Stained Lee 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl Presence of Redu	3) Odor (C1) heres along L iced Iron (C4) ction in Tilled	iving Roots (C3) Soils (C6)	Secondary Indicate Water-Stained 4A, and 4B Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral T	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, ) erns (B10) Vater Table (C2) ible on Aerial Imagery (C9) Position (D2) ard (D3)	No
Depth (inches): Remarks: HYDROLOG Wetland Hydrold Primary Indicator Surface Wat High Water T Saturation (A Water Marks Sediment De Drift Deposite Algal Mat or Iron Deposite Surface Soil	Y bgy Indicators: s (minimum of one requi er (A1) Table (A2) A3) s (B1) eposits (B2) s (B3) Crust (B4) s (B5)		Water-Stained Lee 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl Presence of Redu Recent Iron Redu	3) Odor (C1) heres along L iced Iron (C4) ction in Tilled ed Plants (D1	iving Roots (C3) Soils (C6)	Secondary Indicato Water-Stained 4A, and 4B Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral T Raised Ant M	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, ) erns (B10) Vater Table (C2) ible on Aerial Imagery (C9) Position (D2) ard (D3) Fest (D5)	No
Depth (inches): Remarks: HYDROLOG HYDROLOG Vetland Hydrold Primary Indicator Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposits Algal Mat or Iron Deposits Surface Soil Inundation V	Y pgy Indicators: s (minimum of one requi er (A1) Table (A2) A3) s (B1) eposits (B2) s (B3) Crust (B4) s (B5) Cracks (B6)	(B7)	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Redu Stunted or Stresse	3) Odor (C1) heres along L iced Iron (C4) ction in Tilled ed Plants (D1	iving Roots (C3) Soils (C6)	Secondary Indicato Water-Stained 4A, and 4B Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral T Raised Ant M	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, ) erns (B10) Vater Table (C2) ible on Aerial Imagery (C9) Position (D2) ard (D3) Fest (D5) pounds (D6) (LRR A)	No
Depth (inches): Remarks: HYDROLOG HYDROLOG Vetland Hydrold Primary Indicator Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposits Algal Mat or Iron Deposits Surface Soil Inundation V	Y pgy Indicators: s (minimum of one requi er (A1) Table (A2) (B1) eposits (B2) s (B3) Crust (B4) s (B5) Cracks (B6) Tisible on Aerial Imagery getated Concave Surfac	(B7)	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Redu Stunted or Stresse	3) Odor (C1) heres along L iced Iron (C4) ction in Tilled ed Plants (D1	iving Roots (C3) Soils (C6)	Secondary Indicato Water-Stained 4A, and 4B Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral T Raised Ant M	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, ) erns (B10) Vater Table (C2) ible on Aerial Imagery (C9) Position (D2) ard (D3) Fest (D5) pounds (D6) (LRR A)	No
Depth (inches): Remarks: HYDROLOG Wetland Hydrold Primary Indicator Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposite Algal Mat or Iron Deposite Surface Soil Inundation V Sparsely Veg	Y pgy Indicators: <u>s (minimum of one requi</u> er (A1) Table (A2) A3) (B1) eposits (B2) s (B3) Crust (B4) s (B5) Cracks (B6) lisible on Aerial Imagery getated Concave Surfactors:	(B7) e (B8)	Water-Stained Lea 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Redu Stunted or Stresse Other (Explain in F	3) Odor (C1) heres along L iced Iron (C4) ction in Tilled ed Plants (D1	iving Roots (C3) Soils (C6) ) (LRR A)	Secondary Indicato Water-Stained 4A, and 4B Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral T Raised Ant M	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, ) erns (B10) Vater Table (C2) ible on Aerial Imagery (C9) Position (D2) ard (D3) Fest (D5) pounds (D6) (LRR A)	No
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Project No.: 554-2441-022

Project/Site: C	City Center Access		City/County:	Federal Wa	y / King	Samp	ling Date:	5/03/2021
Applicant/Owner:	WSDOT				State:	WA	Sampling Point:	W20-SP-3
Investigator(s):	Josh Wozniak, Amanda W	eiss		_	Section, Township, Rang	je:	T21N R04E S	16
Landform (hillslope	e, terrace, etc.):	hillslope	1	Local	relief (concave, convex, non	e): none	Slope	e (%): <3%
Subregion (LRR):	Northwest Forests and Coa	ast (LRR A))	Lat: 47.304916	L	ong: -122.300903		Datum: NAI	D 1983 (HARN)
•	D-Hydric Rating): A	· ·		AgB	- Not Hydric	NWI classifica		None
•	ologic conditions on the site ty	•			Yes No		, explain in Rema	
Are Vegetation	, Soil , Soil				Are "Normal Circumstance" (If needed, explain any an	•		<u>X</u> No
Are Vegetation								
	F FINDINGS – Attach			nt location	s, transects, import	tant features	<i>i</i> , etc.	
Hydrophytic Vege Hydric Soil Prese		Yes Yes X	No <u>X</u> No	Is the Sam	pled Area			
Wetland Hydrolog		Yes	No X	within a W			No X	
-	g) · · · · · · · · · · · · · · · · · · ·		<u> </u>	J				-
Precipitation: According to the S	Seattle Tacoma Airport NOAA	weather station, prec	ipitation was below th	ne normal ran	ge for the three months pr	ior to the site vis	sit.	
_		-	-					
Remarks:	is located further upslope and	least of SP-2						
	is located further upslope and							
VEGETATION	1							
VEGETATION		Absolute	Dominant	Indicator	Dominance Test w	orksheet:		
Tree Stratum	(Plot size: <u>r=3m)</u>	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominar			
1. none	(1 101 0120: <u></u>	<u>/// 00/01</u>	<u>opolioo.</u>	olaldo	That Are OBL, FAC		1	(A)
2.					-	, 611710.		(/ )
3.					- Total Number of Do	minant		
4.					Species Across All S	Strata:	2	(B)
		0% =	= Total Cover					
Sapling/Shrub S	tratum (Plot size: <u>r=2m)</u>				Percent of Dominan	t Species		
1. <u>none</u>					That Are OBL, FAC	W, or FAC:	<u>50%</u>	(A/B)
2.					Prevalence Index v			
3.					Total % Cover		oly by:	_
4.					OBL species	x1=		
5				_	FACW species	x 2 =		
Herb Stratum	(Plot size: <u>r=1m)</u>		= Total Cover		FAC species FACU species	x 3 = x 4 =		
1. Anthoxanthui		47%	Yes	FACU	UPL species	^×4 = x 5 =		
2. Poa pratensis		47%	Yes	FAC	Column Totals:	(A)		(B)
3. Holcus lanat		2%	No	FAC	-   -	ce Index = B/A	=	(=)
4.					Hydrophytic Veget			
5.						for Hydrophytic '		
6.					2 - Dominance	Test is >50%		
7.					3 - Prevalence	Index is ≤3.0 <sup>1</sup>		
8.					4 - Morphologio	al Adaptations <sup>1</sup>	(Provide suppor	rting
9.		_			data in Rem	arks or on a sep	parate sheet)	
10					-	n-Vascular Plan		
11						drophytic Veget		
Woody Vine Stra	tum (Plot size: <u>r=2m)</u>	<u> </u>	= Total Cover		<sup>1</sup> Indicators of hydric	soil and wetland	1 hydrology mus	t
1.	(FIOUSIZE: <u>1-2111)</u>				be present.			
2.					Hydrophytic			
	· · · · · · · · · · · · · · · · · · ·		= Total Cover		Vegetation	Yes	No )	<u> </u>
% Bare Ground i	n Herb Stratum 0%				Present?			
Remarks:					I			

**Parametrix** 

OIL								
rofile Descript	tion (Describe to the o	depth neede	d to document the in	idicator or confir	rm the absence	of indicators):		
Depth	Matrix			Redox Fe				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-7	10YR 4/2	100	<u> </u>				CoL	
7-15	2.5Y 5/1	80	10YR 5/6	10	С	M	GrL	
45.			7.5YR 5/8	10	С	M		
15+	2.5Y 5/1		·				GrL	
	·		·					
	·							
ne: C=Conce	entration, D=Depletion,	RM=Reduce	d Matrix CS=Covered	or Coated Sand	Grains <sup>2</sup> Loc	ation: PL=Pore Lini	ng M=Matrix	
-	•						e clay); - = light (less clay)	
	cators (Applicable to						oblematic Hydric Soils <sup>3</sup> :	
Histosol (A1)		, -	Sandy Redox (S5			2 cm Muck (A		
Histic Epiped		-	Stripped Matrix (S			Red Parent M		
Black Histic (		-	Loamy Mucky Mir		MIRA 1)		Dark Surface (TF12)	
Hydrogen Su		-	Loamy Gleyed Ma		MEIO(I)		n in Remarks)	
	low Dark Surface (A11	)	X Depleted Matrix (F					
	Surface (A12)	,	Redox Dark Surfa			2		
_	y Mineral (S1)	-	Depleted Dark Su				ophytic vegetation and wet	
	ed Matrix (S4)		Redox Depression			problematic.	present, unless disturbed	or
strictive Laye		-	·	( - /				
	n (ii present).							
-	201							
Тур						Hydric Soil Present?	Yes X	No
-						Hydric Soil Present?	Yes X	No
Typ Depth (inches):						-	Yes X	No
Typ Depth (inches): emarks:						-	Yes X	No
Typ Depth (inches): marks: YDROLOG						-	Yes X	No
Typ Depth (inches): marks: YDROLOG etland Hydrold	Y	juired; check	all that apply)			Present?	Yes X	No
Typ Depth (inches): emarks: YDROLOGY etland Hydrolo	Y ogy Indicators: s (minimum of one req	uired; check	all that apply) Water-Stained Le	aves (B9) (except	t MLRA	Present?		
Typ Depth (inches): emarks: YDROLOG etland Hydrolo imary Indicator	Y ogy Indicators: s (minimum of one req ier (A1)	<u>uired; check</u>			t MLRA	Present?	ors (2 or more required) d Leaves (B9) (MLRA 1, 2,	
Typ Depth (inches): marks: YDROLOG etland Hydrold imary Indicator Surface Wat	Y ogy Indicators: rs (minimum of one req rer (A1) Table (A2)	juired; check	Water-Stained Le		t MLRA	Present?  Secondary Indicat Water-Staine	<u>ors (2 or more required)</u> d Leaves (B9) (MLRA 1, 2, 3)	
Typ Depth (inches): amarks: YDROLOG etland Hydrolo imary Indicators Surface Wat High Water 1	Y ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3)	<u>uired; check</u>	Water-Stained Le 1, 2, 4A, and 4B	В)	t MLRA	Present? Secondary Indicat Water-Staine 4A, and 4B Drainage Pat	<u>ors (2 or more required)</u> d Leaves (B9) (MLRA 1, 2, 3)	
Typ Depth (inches): marks: YDROLOG etland Hydrolo imary Indicator: Surface Wate High Water T Saturation (A	Y ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1)	uired; check	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11)	B) ates (B13)	t MLRA	Present? Secondary Indicat Water-Staine 4A, and 4B Drainage Pat Dry-Season V	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, 3) terns (B10)	
Typ Depth (inches): marks: YDROLOG etland Hydrold imary Indicator Surface Wate High Water T Saturation (A Water Marks	Y ogy Indicators: s (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2)	uired; check	Water-Stained Le 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra	B) ates (B13) Odor (C1)		Present? Secondary Indicat Water-Staine 4A, and 4B Drainage Pat Dry-Season V	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, 3) terns (B10) Water Table (C2) sible on Aerial Imagery (C9)	
Typ Depth (inches): marks: YDROLOG etland Hydrold imary Indicator: Surface Wat High Water T Saturation (A Water Marks Sediment De	Y ogy Indicators: s (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) s (B3)	<u>juired; check</u>	Water-Stained Le 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide	B) ates (B13) Odor (C1) heres along Living		Present? Secondary Indicat Water-Staine 4A, and 4B Drainage Pat Dry-Season W Saturation Vis	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, 3) terns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2)	
Typ Depth (inches): marks: YDROLOG etland Hydrold imary Indicator: Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposite	Y ogy Indicators: rs (minimum of one req ter (A1) Table (A2) A3) s (B1) eposits (B2) s (B3) Crust (B4)	<u>uired; check</u>	Water-Stained Le 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl	B) odor (C1) heres along Living uced Iron (C4)	g Roots (C3)	Present? Secondary Indicat Water-Staine 4A, and 4B Drainage Pat Dry-Season V Saturation Vis Geomorphic I	ors (2 or more required) d Leaves (B9) (MLRA 1, 2, 3) terns (B10) Water Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3)	
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