



## **Location and Existing Conditions**

This site is rectangular, approximately 59,507 sq. ft. The southern parcel is developed to a restaurant, and the northern parcel is vacant and currently undeveloped. Commercial parcels occur east, west, and south of the site. The site is bounded on the north by the riparian corridor of the Puyallup River.



Figure 2. Existing condition

## **Methodology**

The site visit was conducted on May 30, 2022. A combination of field indicators, including: soils, vegetation, and hydrology, were used to determine whether wetlands were present. The methodology used to identify jurisdictional wetlands is described in the *Corps of Engineers (CoE) Wetland Delineation Manual - 2010 Western Mountains, Valleys, and Coast (WMVC) Regional Supplement (CoE Manual)*, Washington State Wetland Rating System for Western Washington (WSWRS), and City of Puyallup Code.

Wetlands are transitional areas between aquatic and upland habitats. In general terms, wetlands are lands where the extent and duration of saturation with water is the primary factor determining the nature of soil development and the types of plant and animal communities living in the soil

and on its surface (FGDC, 2013). Wetlands are generally defined as *"those areas that are inundated or saturated by surface water or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions."* (Pierce County Title 18E).

Wetlands exhibit three (3) essential characteristics, all of which must be present for an area to meet the established criteria within the CoE Manual. These essential characteristics are:

**Hydrophytic Vegetation:** Meaning a predominance of plants that are typically adapted for life in saturated soils,

**Hydric Soil:** Meaning soils that are saturated, flooded, or ponded long enough during the growing season to develop anaerobic conditions in the upper horizons, and;

**Wetland Hydrology:** Meaning permanent or periodic inundation, or soil saturation to the surface, at least seasonally.

Streams are delineated by identification of the Ordinary High-Water Mark (OHWM). The definition of the OHWM as defined by the Washington State Department of Ecology as a part of the Shoreline Management Act is:

*"the mark on all lakes, streams, and tidal water that will be found by examining the bed and banks and ascertaining where the presence and action of waters are so common and usual, and so long continued in all ordinary years, as to mark upon the soil a character distinct from that of the abutting upland, in respect to vegetation as that condition exists on June 1, 1971, as it may naturally change thereafter, or as it may change thereafter in accordance with permits issued by a local government or the department: Provided, That in any area where the ordinary high water mark cannot be found, the ordinary high water mark adjoining salt water shall be the line of mean higher high tide and the ordinary high water mark adjoining fresh water shall be the line of mean high water".*

## Existing Documentation

National Wetland Inventory (NWI) resources (fig. 3) identifies no wetlands on the project site. Offsite to the north NWI identifies an extensive linear wetland complex, which is the riparian corridor of the Puyallup River.

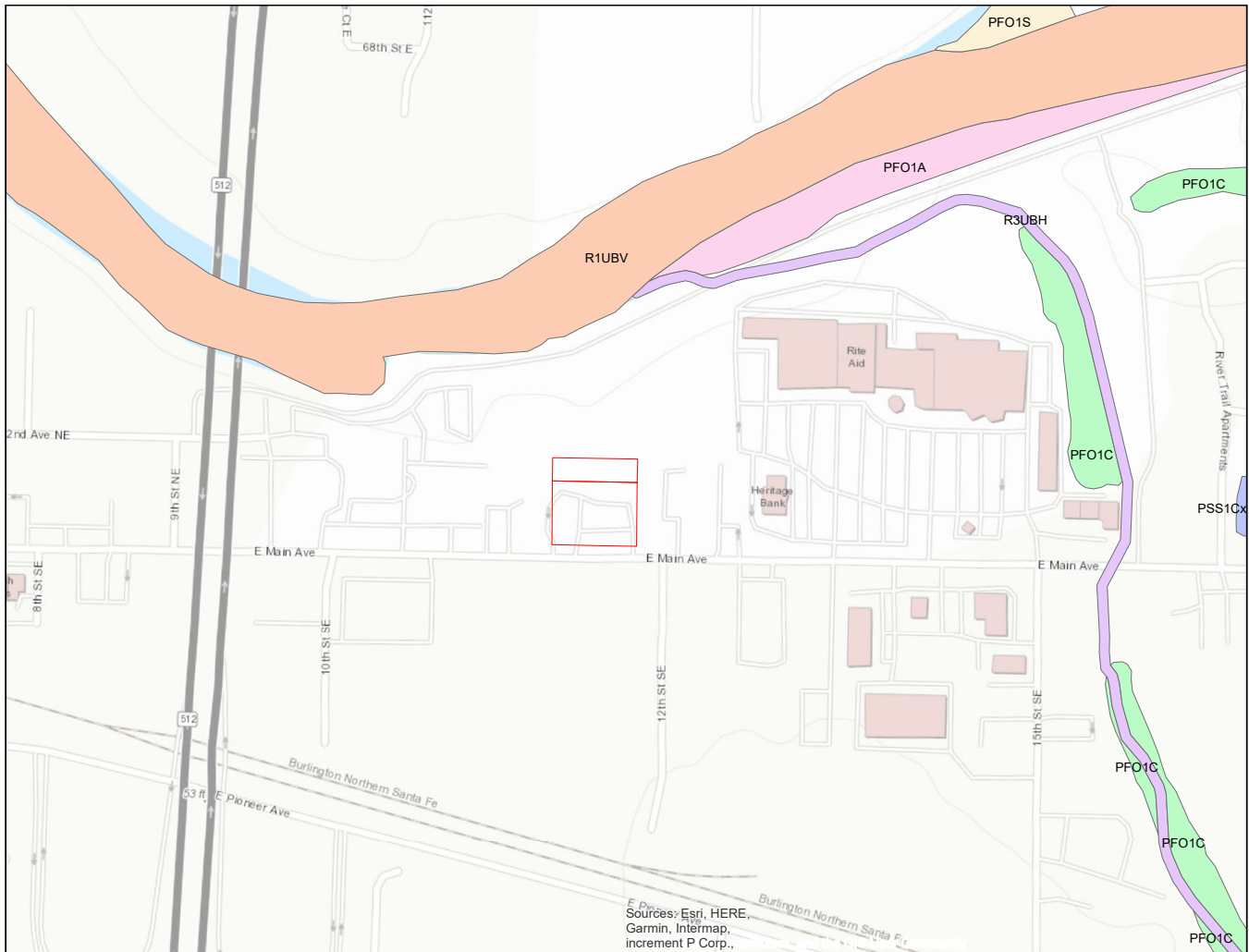


Figure 3. NWI map

The City of Puyallup wetlands map (Fig. 4) located no wetlands on, or adjacent to, the site. Pierce County Hydro describes the river corridor of the Puyallup River approximately 320 ft. north of the north corner of the site.

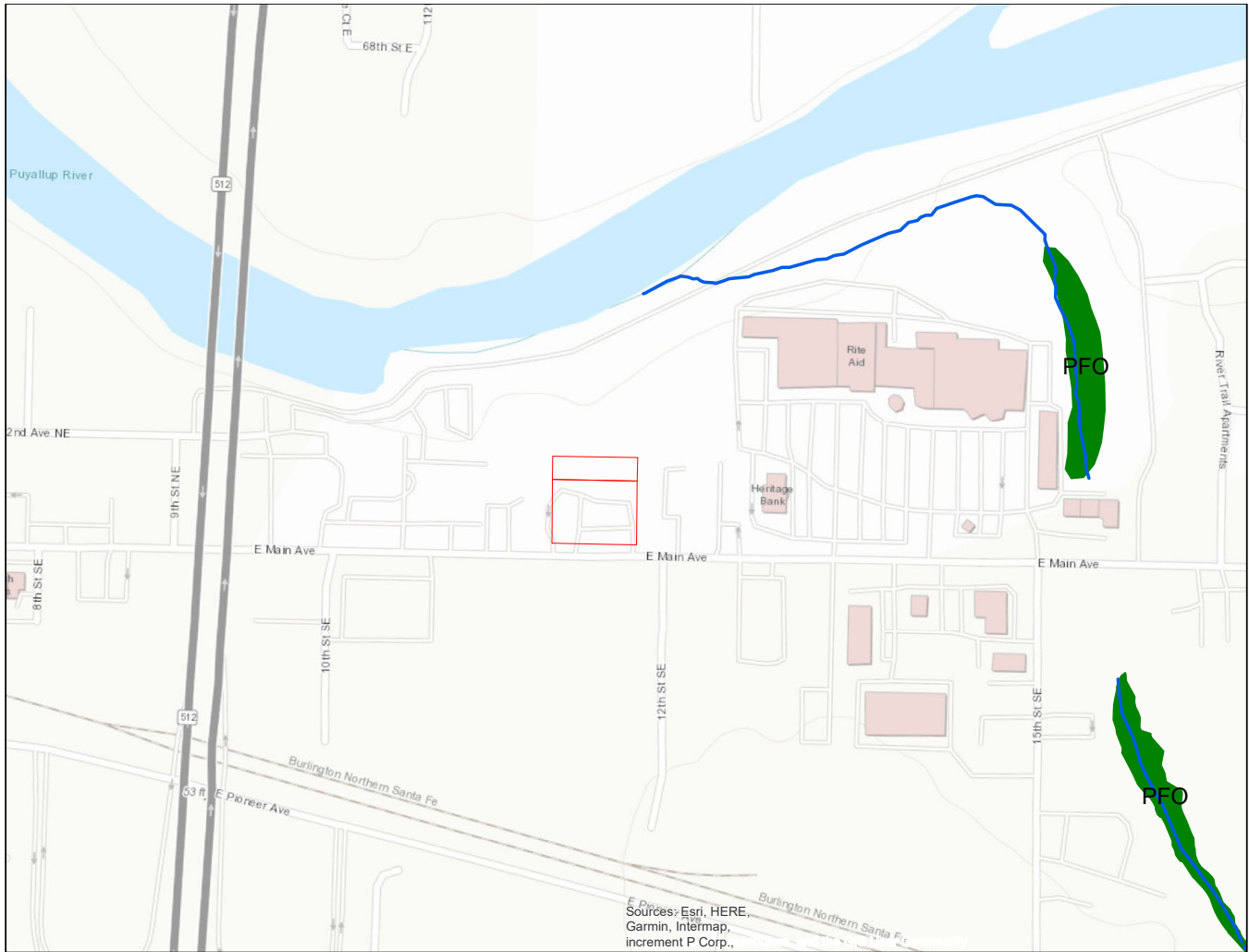


Figure 4. Puyallup Wetland & Stream Map

The soil in the site is Pilchuck fine sand, not designated as “hydric” in Pierce County.

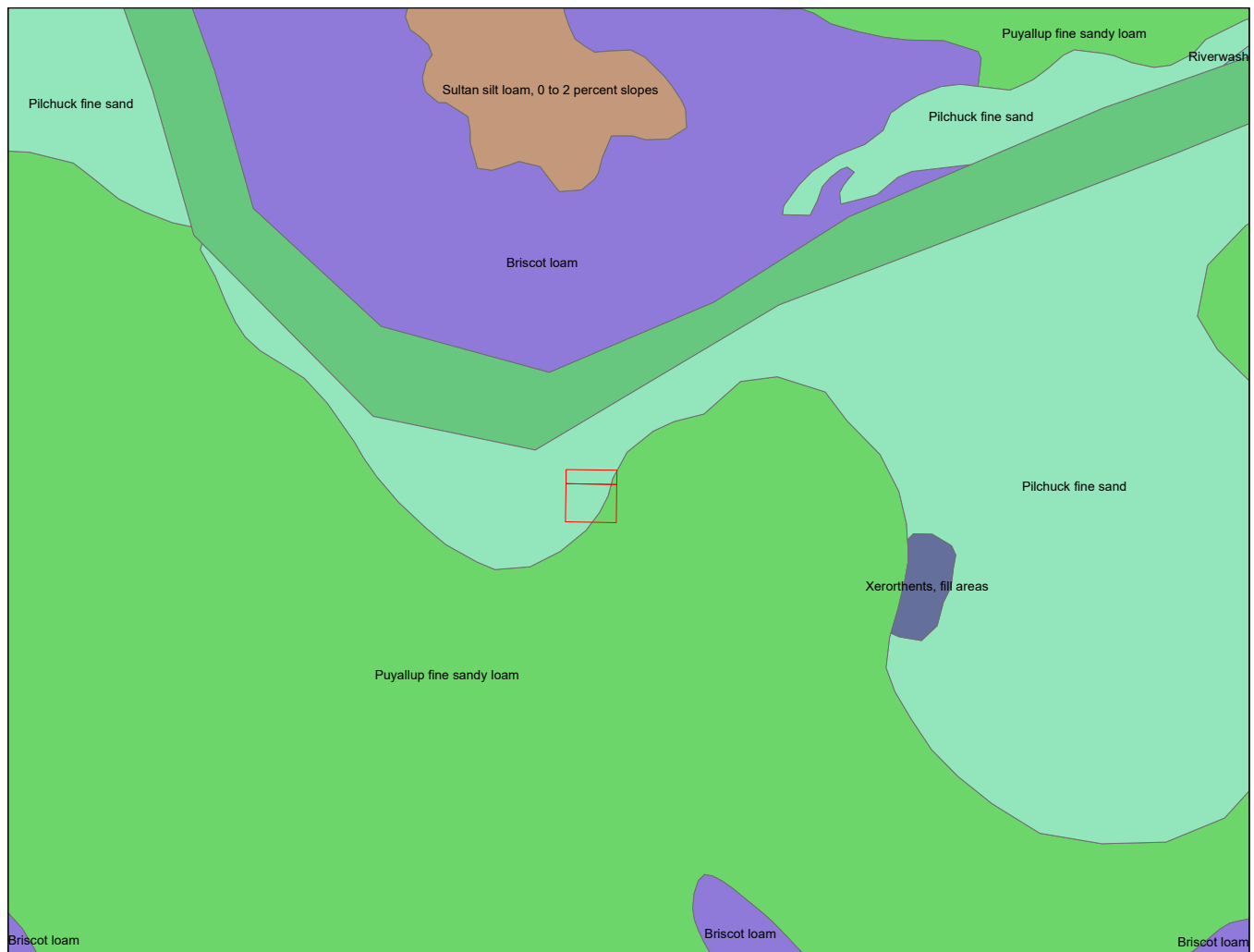


Figure 5. NRCS soil map

### Previous Delineation

A wetland verification and fish and wildlife assessment were completed by H & S Consulting August 2014 (attached). This study found no wetlands onsite or in proximity and no exceptional fish or wildlife habitat.

### Soils Report

GeoResources completed a soils analysis of the site to address stormwater infiltration, report of December 10, 2021(attached). Soil was described as alluvium with mixed debris, indicating significant fill.

### Floodplain Elevation Determination & Floodplain Impacts

The bottom face of the proposed retaining wall is between 1 and 12 feet from the floodplain elevation (46.1) established by interpolating between the 46 and 47 contours on FIRM Panel Number 53053C033E, Effective March 7, 2017. The wall will be staked a survey crew supervised by a land surveyor licensed in the State of Washington.

The design has been modified to remove the landscaping below the wall near the floodplain from the plans. All construction at the north edge of the development will be performed from the uphill side of the site outside of the floodplain therefore no floodplain impacts are anticipated.

## Field Observations

Onsite assessment activities encompassed the entire project site, and 315 feet from the boundary in all directions, as visible. The site is in an urban area of the city. The site is developed as a restaurant, with impermeable surface covering 90% of the parcel. The northern parcel is undeveloped.

North of the restaurant and parking lot, a detention pond exists. North of that, the site is undeveloped, and slopes to the Puyallup river corridor. The site is a regeneration forest, formally an ag pasture, expressing a mature forest canopy of Black Cottonwood, with depauperate understory, majority Himalayan blackberry new growth. The site slopes to the north and is flat and rolling. The plant community throughout the site was identified as non-hydrophytic in character (i.e., typical of uplands). Field indicators of wetland hydrology were also absent. Soil samples thru the site were silt loam underlain with fill.

Offsite to the north approximately 320 ft. the site drops to the Puyallup River riparian corridor.

No area within 315 ft. was observed to meet the criteria for designation as wetland.

## FINDINGS AND CONCLUSIONS

Onsite assessment was completed on May 30, 2022 following the methods and procedures defined within the Wash. Manual, the CoE Manual, and the WDNR Forest Practice Rules.

This assessment identified that no area on the site, or within the immediate vicinity (315 feet) of the project site, exhibited all three of the established criteria for designation as "wetland". The entire site would be best defined as upland regeneration forest.

No area on-site or immediately upslope exhibited evidence of seeps or springs.

No area was identified onsite that would meet the criteria for designation as a "stream."

Shoreline Jurisdiction: The OWHM of the Puyallup River is approximately 300 ft. from the site at its nearest point. Apparently, this site does not fall within Shoreline of Statewide Significance jurisdiction.

Fish & Wildlife Habitat: The Puyallup River is a documented habitat for anadromous and resident priority fish species. The project development terminates upslope of the 46 ft. elevation which is the flood elevation. Outside of the flood elevation, there should be no impact on the aquatic habitats proximal to the site.

## PREPARER'S CREDENTIALS

Wetland delineation prepared by Mark Heckert Managing Principal of Beaver Creek Environmental Services, Inc.. Mark has an AAS in Fish & Wildlife Technology and a BS in Wildlife

Science. Mark has 22 years' experience in wetland delineation, impact assessment, and mitigation planning throughout the Puget sound region. Mark has completed the US Army Corps of Engineering (CoE) wetland training, Washington State Wetland Rating System, and numerous individual courses in wetland function and management, is a Preferred Consultant in King & Pierce Counties and has authored 500+ accepted critical areas reports in 14 Puget Sound jurisdictions.

Thank you for allowing BCES the opportunity to assist with this project. Should you have any questions or require additional assistance please call me at 253 732-6515.

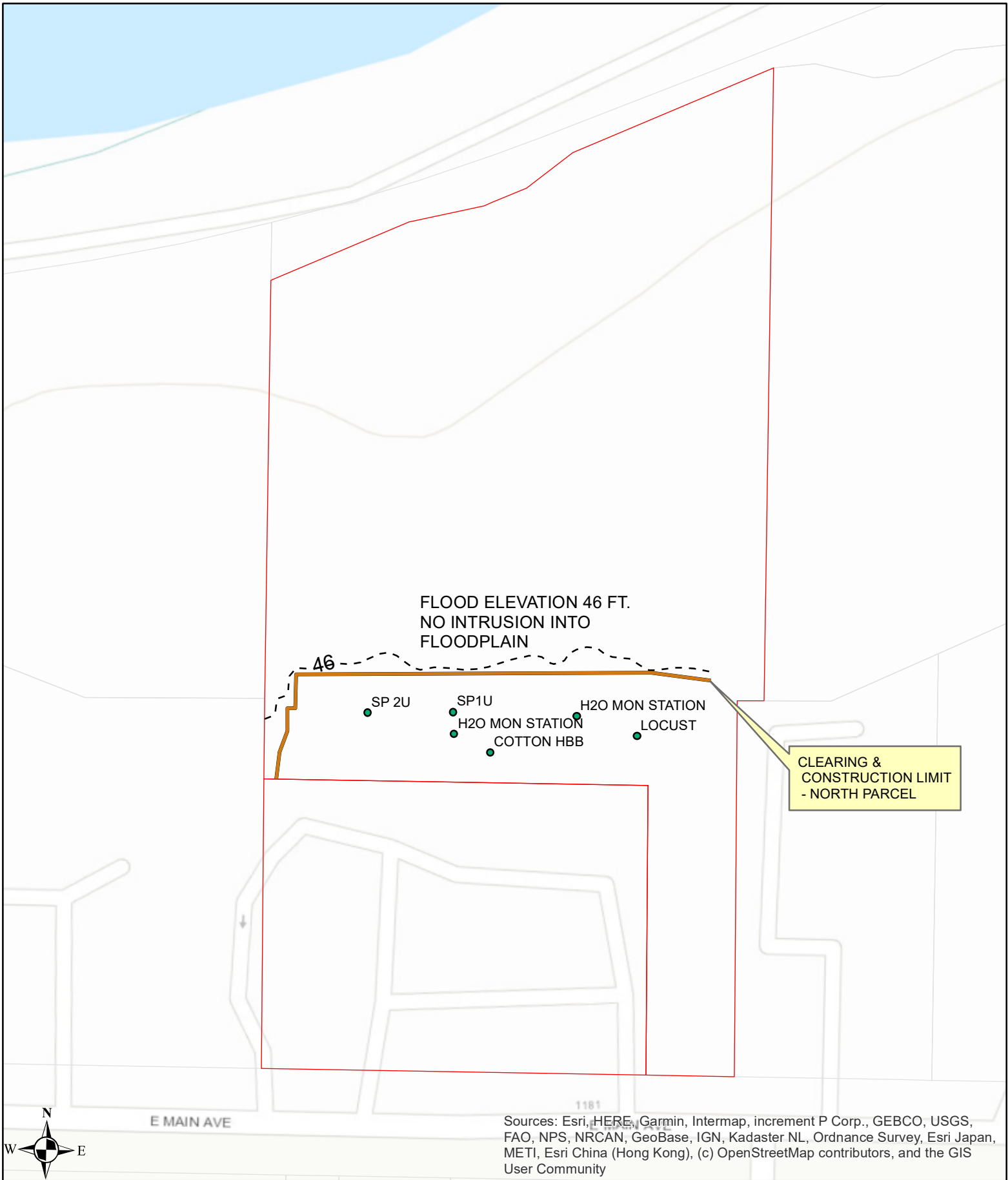
Respectfully Submitted,

*Mark Heckert*

Mark Heckert

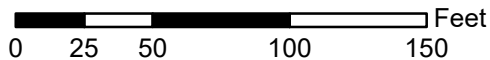
Att (3) Sample plot data forms  
Site Boundary & Sample Plot map  
Soils analysis reports





Beaver Creek Environmental Services  
 MHeckert@Q.com  
 253 732 6515  
 December 5, 2022

1 inch = 70 feet



REV. 1

Att. 1 TACO TIME Site  
 Parcel #7845100032 & 0420271171  
 Wetland Assessment Map  
 Not From Survey  
 Locations by Garmin 64s GPS  
 Azure Site Plan is Authoritative

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

Project Site: Taco Time Puyallup City/County: Puyallup/Pierce Sampling Date: 5/30/2022  
 Applicant/Owner: Taco Time NW State: WA Sampling Point: SP 1U  
 Investigator(s): M. Heckert Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): riparian woodland Local relief (concave, convex, none): none Slope (%): 1%  
 Subregion (LRR): \_\_\_\_\_ Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name: Pilchuck silt loam NWI classification: \_\_\_\_\_  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology , significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation , Soil , or Hydrology , naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Remarks: <b>fill pad N of tacotime</b>			

**VEGETATION – Use scientific names of plants**

Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Notes																
<b>Tree Stratum</b> (Plot size: <u>25 ft</u> )																				
1. <u>Populus trichocarpa</u>	<u>90</u>	<u>yes</u>	<u>FAC</u>	<b>Dominance Test Worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)																
2. _____	<u>0</u>	_____	_____																	
3. _____	_____	_____	=																	
4. _____	_____	_____	_____																	
50% = <u>1</u> , 20% = <u>1</u>	<u>90</u>	= Total Cover																		
<b>Sapling/Shrub Stratum</b> (Plot size: <u>20 ft</u> )																				
1. <u>Rubus procerus</u>	<u>80</u>	<u>yes</u>	<u>FAC</u>	<b>Prevalence Index worksheet:</b> <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;"><u>Total % Cover of:</u></td> <td style="text-align: center;"><u>Multiply by:</u></td> </tr> <tr> <td>OBL species _____</td> <td>x1 = _____</td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>170</u></td> <td>x3 = <u>510</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x4 = <u>00</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>170</u> (A)</td> <td><u>510</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>3</u></td> </tr> </table>	<u>Total % Cover of:</u>	<u>Multiply by:</u>	OBL species _____	x1 = _____	FACW species <u>0</u>	x2 = <u>0</u>	FAC species <u>170</u>	x3 = <u>510</u>	FACU species <u>0</u>	x4 = <u>00</u>	UPL species <u>0</u>	x5 = <u>0</u>	Column Totals: <u>170</u> (A)	<u>510</u> (B)	Prevalence Index = B/A = <u>3</u>	
<u>Total % Cover of:</u>	<u>Multiply by:</u>																			
OBL species _____	x1 = _____																			
FACW species <u>0</u>	x2 = <u>0</u>																			
FAC species <u>170</u>	x3 = <u>510</u>																			
FACU species <u>0</u>	x4 = <u>00</u>																			
UPL species <u>0</u>	x5 = <u>0</u>																			
Column Totals: <u>170</u> (A)	<u>510</u> (B)																			
Prevalence Index = B/A = <u>3</u>																				
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
50% = <u>1</u> , 20% = _____	<u>80</u>	= Total Cover																		
<b>Herb Stratum</b> (Plot size: <u>20 ft</u> )																				
1. _____	_____	<u>n/a*</u>	_____	<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1 – Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is $\leq 3.0^1$ <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants <sup>1</sup> <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
50% = <u>1</u> , 20% = _____	<u>0</u>	= Total Cover																		
<b>Woody Vine Stratum</b> (Plot size: _____)																				
1. _____	_____	_____	_____	<b>Hydrophytic Vegetation Present?</b> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;"></td> <td style="width: 15%;">Yes <input checked="" type="checkbox"/></td> <td style="width: 30%;">No <input type="checkbox"/></td> </tr> </table>		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>													
	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>																		
2. _____	_____	_____	_____																	
50% = _____, 20% = _____	_____	= Total Cover																		
% Bare Ground in Herb Stratum _____																				
Remarks: <u>understory stunted Rubus spp. looks like stunted by flooding</u>																				

**SOIL**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-16	10 yr 3/3	100	_____	_____	_____	_____	sandy loam	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
<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					
<b>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</b>						<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>		
<input type="checkbox"/> Histosol (A1)			<input type="checkbox"/> Sandy Redox (S5)			<input type="checkbox"/> 2 cm Muck (A10)		
<input type="checkbox"/> Histic Epipedon (A2)			<input type="checkbox"/> Stripped Matrix (S6)			<input type="checkbox"/> Red Parent Material (TF2)		
<input type="checkbox"/> Black Histic (A3)			<input type="checkbox"/> Loamy Mucky Mineral (F1) <b>(except MLRA 1)</b>			<input type="checkbox"/> Very Shallow Dark Surface (TF12)		
<input type="checkbox"/> Hydrogen Sulfide (A4)			<input type="checkbox"/> Loamy Gleyed Matrix (F2)			<input type="checkbox"/> Other (Explain in Remarks)		
<input type="checkbox"/> Depleted Below Dark Surface (A11)			<input type="checkbox"/> Depleted Matrix (F3)			<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.		
<input type="checkbox"/> Thick Dark Surface (A12)			<input type="checkbox"/> Redox Dark Surface (F6)					
<input type="checkbox"/> Sandy Mucky Mineral (S1)			<input type="checkbox"/> Depleted Dark Surface (F7)					
<input type="checkbox"/> Sandy Gleyed Matrix (S4)			<input type="checkbox"/> Redox Depressions (F8)					
<b>Restrictive Layer (if present):</b>								
Type: _____								
Depth (inches): _____					<b>Hydric Soils Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
Remarks:    slope - defines as fill pad								

**HYDROLOGY**

Wetland Hydrology Indicators:					
Primary Indicators (minimum of one required; check all that apply)			Secondary Indicators (2 or more required)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Water-Stained Leaves (B9)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> <b>(MLRA 1, 2, 4A, and 4B)</b>			
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drainage Patterns (B10)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stresses Plants (D1) <b>(LRR A)</b>	<input type="checkbox"/> FAC-Neutral Test (D5)			
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Raised Ant Mounds (D6) <b>(LRR A)</b>			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)		<input type="checkbox"/> Frost-Heave Hummocks (D7)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)					
<b>Field Observations:</b>					
Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
Water Table Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____				
Saturation Present? (includes capillary fringe)    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:    Does NOT MEET WETLAND CRITERIA BY H2O AND SOILS					

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

Project Site: TACO TIME PUYALLUP City/County: Puyallup/Pierce Sampling Date: 5/30/2022  
 Applicant/Owner: TACO TIME NW State: WA Sampling Point: SP 2U  
 Investigator(s): M. Heckert Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): riparian woodland Local relief (concave, convex, none): none Slope (%): 1%  
 Subregion (LRR): \_\_\_\_\_ Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name: Pilchuck silt loam NWI classification: \_\_\_\_\_  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology , significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation , Soil , or Hydrology , naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Remarks: <b>N OF RESTAURANT</b>			

**VEGETATION – Use scientific names of plants**

	Absolute % Cover	Dominant Species?	Indicator Status																	
<u>Tree Stratum</u> (Plot size: <u>25 ft</u> )																				
1. <u>Populus trichocarpa</u>	<u>90</u>	<u>yes</u>	<u>FAC</u>	<b>Dominance Test Worksheet:</b>  Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)  Total Number of Dominant Species Across All Strata: <u>3</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66</u> (A/B)																
2. _____	<u>0</u>	_____	_____																	
3. _____	_____	_____	=																	
4. _____	_____	_____	_____																	
50% = <u>1</u> , 20% = _____	<u>90</u>	= Total Cover																		
<u>Sapling/Shrub Stratum</u> (Plot size: <u>20 ft</u> )																				
1. <u>Corylus cornuta</u>	<u>50</u>	<u>yes</u>	<u>UPL</u>	<b>Prevalence Index worksheet:</b>  <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;"><u>Total % Cover of:</u></td> <td style="text-align: center;"><u>Multiply by:</u></td> </tr> <tr> <td>OBL species _____</td> <td>x1 = _____</td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>140</u></td> <td>x3 = <u>420</u></td> </tr> <tr> <td>FACU species _____</td> <td>x4 = _____</td> </tr> <tr> <td>UPL species <u>50</u></td> <td>x5 = <u>250</u></td> </tr> <tr> <td>Column Totals: <u>190</u> (A)</td> <td><u>670</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>3.5</u></td> </tr> </table>	<u>Total % Cover of:</u>	<u>Multiply by:</u>	OBL species _____	x1 = _____	FACW species <u>0</u>	x2 = <u>0</u>	FAC species <u>140</u>	x3 = <u>420</u>	FACU species _____	x4 = _____	UPL species <u>50</u>	x5 = <u>250</u>	Column Totals: <u>190</u> (A)	<u>670</u> (B)	Prevalence Index = B/A = <u>3.5</u>	
<u>Total % Cover of:</u>	<u>Multiply by:</u>																			
OBL species _____	x1 = _____																			
FACW species <u>0</u>	x2 = <u>0</u>																			
FAC species <u>140</u>	x3 = <u>420</u>																			
FACU species _____	x4 = _____																			
UPL species <u>50</u>	x5 = <u>250</u>																			
Column Totals: <u>190</u> (A)	<u>670</u> (B)																			
Prevalence Index = B/A = <u>3.5</u>																				
2. <u>Rubus armeniacus</u>	<u>50</u>	<u>yes</u>	<u>FAC</u>																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
50% = <u>1</u> , 20% = _____	<u>100</u>	= Total Cover																		
<u>Herb Stratum</u> (Plot size: <u>20 ft</u> )																				
1. _____	<u>0</u>	_____	_____	<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1 – Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5 - Wetland Non-Vascular Plants <sup>1</sup> <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
50% = <u>1</u> , 20% = _____	<u>0</u>	= Total Cover																		
<u>Woody Vine Stratum</u> (Plot size: _____)																				
1. _____	_____	_____	_____	<b>Hydrophytic Vegetation Present?</b> <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Yes</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;">No</td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>												
Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>																	
2. _____	_____	_____	_____																	
50% = _____, 20% = _____	_____	= Total Cover																		
% Bare Ground in Herb Stratum _____																				
Remarks: <u>blackberry looks like all new growth</u>																				

**SOIL**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-16	10 yr 3/2	100	_____	_____	_____	_____	sandy loam	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
<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								
<b>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</b>						<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>		
<input type="checkbox"/> Histosol (A1)						<input type="checkbox"/> 2 cm Muck (A10)		
<input type="checkbox"/> Histic Epipedon (A2)						<input type="checkbox"/> Red Parent Material (TF2)		
<input type="checkbox"/> Black Histic (A3)						<input type="checkbox"/> Very Shallow Dark Surface (TF12)		
<input type="checkbox"/> Hydrogen Sulfide (A4)						<input type="checkbox"/> Other (Explain in Remarks)		
<input type="checkbox"/> Depleted Below Dark Surface (A11)						<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.		
<input type="checkbox"/> Thick Dark Surface (A12)								
<input type="checkbox"/> Sandy Mucky Mineral (S1)								
<input type="checkbox"/> Sandy Gleyed Matrix (S4)								
<input type="checkbox"/> Sandy Redox (S5)								
<input type="checkbox"/> Stripped Matrix (S6)								
<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)								
<input type="checkbox"/> Loamy Gleyed Matrix (F2)								
<input type="checkbox"/> Depleted Matrix (F3)								
<input type="checkbox"/> Redox Dark Surface (F6)								
<input type="checkbox"/> Depleted Dark Surface (F7)								
<input type="checkbox"/> Redox Depressions (F8)								
<b>Restrictive Layer (if present):</b>								
Type: _____								
Depth (inches): _____								
Remarks: FILL PAD EDGE					<b>Hydric Soils Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			

**HYDROLOGY**

Wetland Hydrology Indicators:					
Primary Indicators (minimum of one required; check all that apply)			Secondary Indicators (2 or more required)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> High Water Table (A2)	<b>(except MLRA 1, 2, 4A, and 4B)</b>	<b>(MLRA 1, 2, 4A, and 4B)</b>
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)	<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)	<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Stunted or Stresses Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)	<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)					
<b>Field Observations:</b>					
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____			
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____			
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks: DOES NOT WETLAND CRITERIA UP BY VEG. SOIL, H2O					