

**WETLAND DETERMINATION DATA FORM - Alaska Region**

Project/Site: Susitna-Watana Hydroelectric Project Borough/City: Matanuska-Susitna Borough Sampling Date: 19-Aug-15  
 Applicant/Owner: Alaska Energy Authority Sampling Point: SW15\_T316\_03  
 Investigator(s): WAD, SCB Landform (hillside, terrace, hummocks etc.): Drainage way  
 Local relief (concave, convex, none): flat Slope: 0.0 % / 0.0 ° Elevation: \_\_\_\_\_  
 Subregion: Cook Inlet Mountains Lat.: \_\_\_\_\_ Long.: \_\_\_\_\_ Datum: WGS84  
 Soil Map Unit Name: \_\_\_\_\_ NWI classification: PEM1E

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="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	<b>Is the Sampled Area within a Wetland?</b> Yes <input checked="" type="radio"/> No <input type="radio"/>
Remarks:	

**VEGETATION** -Use scientific names of plants. List all species in the plot.

	Absolute % Cover	Dominant Species?	Indicator Status	
<b>Tree Stratum</b>				
1. _____	_____	<input type="checkbox"/>	_____	
2. _____	_____	<input type="checkbox"/>	_____	
3. _____	_____	<input type="checkbox"/>	_____	
4. _____	_____	<input type="checkbox"/>	_____	
5. _____	_____	<input type="checkbox"/>	_____	
<b>Total Cover:</b>		<u>0</u>		
<b>Sapling/Shrub Stratum</b>				
	50% of Total Cover:	<u>0</u>	20% of Total Cover:	<u>0</u>
1. <u>Salix reticulata</u>	<u>5</u>	<input checked="" type="checkbox"/>	<u>FAC</u>	
2. <u>Salix pulchra</u>	<u>5</u>	<input checked="" type="checkbox"/>	<u>FACW</u>	
3. <u>Dasiphora fruticosa</u>	<u>2</u>	<input type="checkbox"/>	<u>FAC</u>	
4. <u>Vaccinium uliginosum</u>	<u>1</u>	<input type="checkbox"/>	<u>FAC</u>	
5. <u>Salix myrtilifolia</u>	<u>0.1</u>	<input type="checkbox"/>	<u>FACW</u>	
6. <u>Andromeda polifolia</u>	<u>0.1</u>	<input type="checkbox"/>	<u>FACW</u>	
7. _____	<u>0</u>	<input type="checkbox"/>	_____	
8. _____	<u>0</u>	<input type="checkbox"/>	_____	
9. _____	<u>0</u>	<input type="checkbox"/>	_____	
10. _____	<u>0</u>	<input type="checkbox"/>	_____	
<b>Total Cover:</b>		<u>13.2</u>		
	50% of Total Cover:	<u>6.6</u>	20% of Total Cover:	<u>2.64</u>
<b>Herb Stratum</b>				
1. <u>Carex aquatilis</u>	<u>40</u>	<input checked="" type="checkbox"/>	<u>OBL</u>	
2. <u>Carex saxatilis</u>	<u>40</u>	<input checked="" type="checkbox"/>	<u>FACW</u>	
3. <u>Comarum palustre</u>	<u>2</u>	<input type="checkbox"/>	<u>OBL</u>	
4. <u>Parnassia palustris</u>	<u>0.1</u>	<input type="checkbox"/>	<u>FACW</u>	
5. _____	<u>0</u>	<input type="checkbox"/>	_____	
6. _____	<u>0</u>	<input type="checkbox"/>	_____	
7. _____	<u>0</u>	<input type="checkbox"/>	_____	
8. _____	<u>0</u>	<input type="checkbox"/>	_____	
9. _____	<u>0</u>	<input type="checkbox"/>	_____	
10. _____	<u>0</u>	<input type="checkbox"/>	_____	
<b>Total Cover:</b>		<u>82.1</u>		
	50% of Total Cover:	<u>41.05</u>	20% of Total Cover:	<u>16.42</u>

**Dominance Test worksheet:**  
 Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)  
 Total Number of Dominant Species Across All Strata: 4 (B)  
 Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

**Prevalence Index worksheet:**  
 Total % Cover of: Multiply by:  
 OBL Species 42 x 1 = 42  
 FACW Species 45.3 x 2 = 90.6  
 FAC Species 8 x 3 = 24  
 FACU Species 0 x 4 = 0  
 UPL Species 0 x 5 = 0  
 Column Totals: 95.3 (A) 156.6 (B)  
 Prevalence Index = B/A = 1.643

**Hydrophytic Vegetation Indicators:**  
 Dominance Test is > 50%  
 Prevalence Index is ≤ 3.0  
 Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)  
 Problematic Hydrophytic Vegetation (Explain)

<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Plot size (radius, or length x width) 5m  
 % Cover of Wetland Bryophytes (Where applicable) \_\_\_\_\_  
 % Bare Ground \_\_\_\_\_  
 Total Cover of Bryophytes \_\_\_\_\_

**Hydrophytic Vegetation Present?** Yes  No

Remarks: sedge marsh, hummocks w mosses and dwarf shrubs

