

**WETLAND DETERMINATION DATA FORM - Alaska Region**

Project/Site: Susitna-Watana Hydroelectric Project Borough/City: Matanuska-Susitna Borough Sampling Date: 24-Jun-12  
 Applicant/Owner: Alaska Energy Authority Sampling Point: SW12\_T17\_08  
 Investigator(s): SLI, LMF Landform (hillside, terrace, hummocks etc.): Toeslope  
 Local relief (concave, convex, none): undulating Slope: % / 4.7 ° Elevation: 836  
 Subregion: Southcentral Alaska Lat.: 62.7926882146 Long.: -148.948965734 Datum: NAD83  
 Soil Map Unit Name: \_\_\_\_\_ **NWI classification: PEM1/SS1E**

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: water tracks running E-W through wetland, emergent and bare ground in interhummocks, shrubby veg on hummocks.	

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

<u>Tree Stratum</u>	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b>
1. _____	0	<input type="checkbox"/>	_____	Number of Dominant Species That are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
2. _____	0	<input type="checkbox"/>	_____	
3. _____	0	<input type="checkbox"/>	_____	
4. _____	0	<input type="checkbox"/>	_____	
5. _____	0	<input type="checkbox"/>	_____	
<b>Total Cover:</b> <u>0</u>				<b>Prevalence Index worksheet:</b> Total % Cover of: Multiply by: OBL Species <u>8</u> x 1 = <u>8</u> FACW Species <u>30</u> x 2 = <u>60</u> FAC Species <u>34</u> x 3 = <u>102</u> FACU Species <u>3</u> x 4 = <u>12</u> UPL Species <u>5</u> x 5 = <u>25</u> Column Totals: <u>80</u> (A) <u>207</u> (B) Prevalence Index = B/A = <u>2.588</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>	10	<input checked="" type="checkbox"/>	FAC	
2. <u>Vaccinium uliginosum</u>	5	<input checked="" type="checkbox"/>	FAC	
3. <u>Vaccinium vitis-idaea</u>	1	<input type="checkbox"/>	FAC	
4. <u>Dasiphora fruticosa</u>	2	<input type="checkbox"/>	FAC	
5. <u>Alnus viridis</u>	2	<input type="checkbox"/>	FAC	
6. <u>Rhododendron lapponicum</u>	5	<input checked="" type="checkbox"/>	FAC	
7. <u>Dryas ajanensis</u>	3	<input type="checkbox"/>	UPL	
8. _____	2	<input type="checkbox"/>	_____	
9. <u>Salix myrtillofolia</u>	1	<input type="checkbox"/>	FACW	
10. <u>Salix arctica</u>	3	<input type="checkbox"/>	FACU	
<b>Total Cover:</b> <u>34</u>				
<b>Herb Stratum</b>	50% of Total Cover: <u>17</u>	20% of Total Cover: <u>6.8</u>		
1. <u>Eriophorum russeolum</u>	25	<input checked="" type="checkbox"/>	FACW	
2. <u>Carex bigelowii</u>	3	<input type="checkbox"/>	FAC	
3. <u>Bistorta vivipara</u>	1	<input type="checkbox"/>	FAC	
4. <u>Carex magellanica</u>	7	<input type="checkbox"/>	OBL	
5. <u>Pinguicula villosa</u>	1	<input type="checkbox"/>	OBL	
6. <u>Carex bigelowii</u>	5	<input type="checkbox"/>	FAC	
7. <u>Juncus castaneus</u>	1	<input type="checkbox"/>	FACW	
8. <u>Carex glacialis</u>	2	<input type="checkbox"/>	UPL	
9. <u>Carex anthoxantha</u>	3	<input type="checkbox"/>	FACW	
10. _____	0	<input type="checkbox"/>	_____	
<b>Total Cover:</b> <u>48</u>				
50% of Total Cover: <u>24</u>	20% of Total Cover: <u>9.6</u>			

**Hydrophytic Vegetation Indicators:**  
 Dominance Test is > 50%  
 Prevalence Index is ≤ 3.0  
 Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
 Problematic Hydrophytic Vegetation<sup>1</sup> (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) 5x10m  
 % Cover of Wetland Bryophytes (Where applicable) \_\_\_\_\_  
 % Bare Ground 10  
 Total Cover of Bryophytes 85

**Hydrophytic Vegetation Present?** Yes  No

Remarks: caraqu based on gray/green leave, trace luzula sp. several sedges pressed.

