

**WETLAND DETERMINATION DATA FORM - Alaska Region**

Project/Site: Susitna-Watana Hydroelectric Project Borough/City: Denali Borough Sampling Date: 01-Aug-13  
 Applicant/Owner: Alaska Energy Authority Sampling Point: SW13\_T145\_04  
 Investigator(s): SLI, EAC Landform (hillside, terrace, hummocks etc.): Swale  
 Local relief (concave, convex, none): concave Slope: 1.7 % / 1.0 ° Elevation: 724  
 Subregion: Interior Alaska Mountains Lat.: 63.399011254 Long.: -148.658578277 Datum: WGS84  
 Soil Map Unit Name: \_\_\_\_\_ NWI classification: PSS1/EM1E

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: <u>lowland swale connecting various lakes/ponds.</u>	

**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>3</u> (A)
2. _____	0	<input type="checkbox"/>	_____	Total Number of Dominant Species Across All Strata: <u>3</u> (B)
3. _____	0	<input type="checkbox"/>	_____	Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
4. _____	0	<input type="checkbox"/>	_____	
5. _____	0	<input type="checkbox"/>	_____	
<b>Total Cover:</b> <u>0</u>				
<u>Sapling/Shrub Stratum</u>	50% of Total Cover: <u>0</u>	20% of Total Cover: <u>0</u>		<b>Prevalence Index worksheet:</b>
1. <u>Salix pulchra</u>	40	<input checked="" type="checkbox"/>	FACW	Total % Cover of: Multiply by:
2. <u>Betula glandulosa</u>	3	<input type="checkbox"/>	FAC	OBL Species <u>28.1</u> x 1 = <u>28.1</u>
3. <u>Salix richardsonii</u>	5	<input type="checkbox"/>	FACW	FACW Species <u>45.1</u> x 2 = <u>90.2</u>
4. <u>Salix barclayi</u>	5	<input type="checkbox"/>	FAC	FAC Species <u>23</u> x 3 = <u>69</u>
5. _____	0	<input type="checkbox"/>	_____	FACU Species <u>0.1</u> x 4 = <u>0.400</u>
6. _____	0	<input type="checkbox"/>	_____	UPL Species <u>0</u> x 5 = <u>0</u>
7. _____	0	<input type="checkbox"/>	_____	Column Totals: <u>96.3</u> (A) <u>187.7</u> (B)
8. _____	0	<input type="checkbox"/>	_____	Prevalence Index = B/A = <u>1.949</u>
9. _____	0	<input type="checkbox"/>	_____	
10. _____	0	<input type="checkbox"/>	_____	
<b>Total Cover:</b> <u>53</u>				<b>Hydrophytic Vegetation Indicators:</b>
<u>Herb Stratum</u>	50% of Total Cover: <u>26.5</u>	20% of Total Cover: <u>10.6</u>		<input checked="" type="checkbox"/> Dominance Test is > 50%
1. <u>Calamagrostis canadensis</u>	15	<input checked="" type="checkbox"/>	FAC	<input checked="" type="checkbox"/> Prevalence Index is ≤ 3.0
2. <u>Carex aquatilis</u>	25	<input checked="" type="checkbox"/>	OBL	<input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
3. <u>Comarum palustre</u>	3	<input type="checkbox"/>	OBL	<input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
4. <u>Parnassia palustris</u>	0.1	<input type="checkbox"/>	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5. <u>Chamerion angustifolium</u>	0.1	<input type="checkbox"/>	FACU	
6. <u>Hippuris vulgaris</u>	0.1	<input type="checkbox"/>	OBL	Plot size (radius, or length x width) <u>10m</u>
7. _____	0	<input type="checkbox"/>	_____	% Cover of Wetland Bryophytes (Where applicable) _____
8. _____	0	<input type="checkbox"/>	_____	% Bare Ground <u>75</u>
9. _____	0	<input type="checkbox"/>	_____	Total Cover of Bryophytes <u>20</u>
10. _____	0	<input type="checkbox"/>	_____	
<b>Total Cover:</b> <u>43.3</u>				<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="radio"/> No <input type="radio"/>
50% of Total Cover: <u>21.65</u>	20% of Total Cover: <u>8.66</u>			
Remarks: <u>small scattered hummocks w herbaceous veg, but overall the site is flooded w graminoid/shrub vegetation. bare ground includes open water.</u>				

