

**WETLAND DETERMINATION DATA FORM - Alaska Region**

Project/Site: Susitna-Watana Hydroelectric Project Borough/City: Matanuska-Susitna Borough Sampling Date: 07-Aug-12  
 Applicant/Owner: Alaska Energy Authority Sampling Point: SW12\_T36\_01  
 Investigator(s): SLI, KMK Landform (hillside, terrace, hummocks etc.): Mountainslope  
 Local relief (concave, convex, none): concave Slope: 5.2 % / 3.0 ° Elevation: 869  
 Subregion: Southcentral Alaska Lat.: 62.7644699091 Long.: -149.630149966 Datum: WGS84  
 Soil Map Unit Name: \_\_\_\_\_ **NWI classification: Upland**

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 type="radio"/> No <input checked="" type="radio"/> Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	<b>Is the Sampled Area within a Wetland?</b> Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks: <u>alpine meadow. NW portion of site a micro-low, wetter and protected w high species diversity. majority of site dominated by dwarf ericaceous veg.</u>	

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

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b>	
1. <u>Bistorta vivipara</u>	1	<input checked="" type="checkbox"/>	FAC	Number of Dominant Species That are OBL, FACW, or FAC:	<u>9</u> (A)
2. <u>Deschampsia cespitosa</u>	1	<input checked="" type="checkbox"/>	FAC	Total Number of Dominant Species Across All Strata:	<u>12</u> (B)
3. <u>Chamerion latifolium</u>	1	<input checked="" type="checkbox"/>	FAC	Percent of dominant Species That Are OBL, FACW, or FAC:	<u>75.0%</u> (A/B)
4. <u>Lupinus arcticus</u>	1	<input checked="" type="checkbox"/>	FACU		
5. <u>Sanguisorba canadensis</u>	2	<input checked="" type="checkbox"/>	FACW		
<b>Total Cover:</b>			<u>6</u>		
<b>Sapling/Shrub Stratum</b>	50% of Total Cover: <u>3</u>	20% of Total Cover: <u>1.2</u>		<b>Prevalence Index worksheet:</b>	
1. <u>Vaccinium uliginosum</u>	55	<input checked="" type="checkbox"/>	FAC	Total % Cover of:	Multiply by:
2. <u>Empetrum nigrum</u>	30	<input checked="" type="checkbox"/>	FAC	OBL Species <u>0</u>	x 1 = <u>0</u>
3. <u>Salix pulchra</u>	7	<input type="checkbox"/>	FACW	FACW Species <u>15</u>	x 2 = <u>30</u>
4. <u>Betula nana</u>	30	<input checked="" type="checkbox"/>	FAC	FAC Species <u>125</u>	x 3 = <u>375</u>
5. <u>Arctostaphylos alpina</u>	10	<input type="checkbox"/>	FACU	FACU Species <u>30</u>	x 4 = <u>120</u>
6. <u>Picea glauca</u>	2	<input type="checkbox"/>	FACU	UPL Species <u>1</u>	x 5 = <u>5</u>
7. <u>Salix reticulata</u>	2	<input type="checkbox"/>	FAC	Column Totals: <u>171</u> (A)	<u>530</u> (B)
8. <u>Cassiope tetragona</u>	2	<input type="checkbox"/>	FACU	Prevalence Index = B/A =	<u>3.099</u>
9. <u>Spiraea stevenii</u>	2	<input type="checkbox"/>	FACU		
10. <u>Luetkea pectinata</u>	1	<input type="checkbox"/>	UPL		
<b>Total Cover:</b>			<u>141</u>		
<b>Herb Stratum</b>	50% of Total Cover: <u>70.5</u>	20% of Total Cover: <u>28.2</u>		<b>Hydrophytic Vegetation Indicators:</b>	
1. <u>Rubus chamaemorus</u>	3	<input checked="" type="checkbox"/>	FACW	<input checked="" type="checkbox"/> Dominance Test is > 50%	
2. <u>Bistorta plumosa</u>	4	<input checked="" type="checkbox"/>	FACU	<input type="checkbox"/> Prevalence Index is ≤3.0	
3. <u>Carex bigelowii</u>	3	<input checked="" type="checkbox"/>	FAC	<input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)	
4. <u>Cornus canadensis</u>	7	<input checked="" type="checkbox"/>	FACU	<input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
5. <u>Carex saxatilis</u>	2	<input type="checkbox"/>	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
6. <u>Anthoxanthum monticola ssp. alpinum</u>	1	<input type="checkbox"/>	FACU	Plot size (radius, or length x width)	<u>10m</u>
7. <u>Artemisia norvegica</u>	1	<input type="checkbox"/>	FACU	% Cover of Wetland Bryophytes (Where applicable)	_____
8. <u>Calamagrostis lapponica</u>	1	<input type="checkbox"/>	FAC	% Bare Ground	<u>0</u>
9. <u>Festuca altaica</u>	1	<input type="checkbox"/>	FAC	Total Cover of Bryophytes	<u>70</u>
10. <u>Swertia perennis</u>	1	<input type="checkbox"/>	FACW	<b>Hydrophytic Vegetation Present?</b>	Yes <input checked="" type="radio"/> No <input type="radio"/>
<b>Total Cover:</b>			<u>24</u>		
	50% of Total Cover: <u>12</u>	20% of Total Cover: <u>4.8</u>			

Remarks: 1% pedlan, luzula arcuata, phleum alpinum, carex stylosa, carex magellanica, carex chordorrhiza, vahlodea atropurpurea. additional herbs listed in tree stratum. Picgla krummholz. Descae w no inflorescence, cespitise grass w tightly inrolled lvs and parallel veination.

