

**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\_02  
 Investigator(s): SLI, KMK Landform (hillside, terrace, hummocks etc.): Ridgetop  
 Local relief (concave, convex, none): convex Slope: 8.7 % / 5.0 ° Elevation: 855  
 Subregion: Southcentral Alaska Lat.: 62.7658499087 Long.: -149.633479966 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 type="radio"/> No <input checked="" 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>ridgeline site, very windy. ca 40% cover by crustose and fruticose lichens.</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>1</u> (A)
2. _____	0	<input type="checkbox"/>	_____	Total Number of Dominant Species Across All Strata: <u>4</u> (B)
3. _____	0	<input type="checkbox"/>	_____	Percent of dominant Species That Are OBL, FACW, or FAC: <u>25.0%</u> (A/B)
4. _____	0	<input type="checkbox"/>	_____	
5. _____	0	<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>		<b>Prevalence Index worksheet:</b>
1. <u>Dryas octopetala</u>	10	<input checked="" type="checkbox"/>	UPL	Total % Cover of: Multiply by:
2. <u>Vaccinium uliginosum</u>	5	<input type="checkbox"/>	FAC	OBL Species <u>0</u> x 1 = <u>0</u>
3. <u>Salix arctica</u>	2	<input type="checkbox"/>	FACU	FACW Species <u>0</u> x 2 = <u>0</u>
4. <u>Diapensia lapponica</u>	1	<input type="checkbox"/>	UPL	FAC Species <u>16</u> x 3 = <u>48</u>
5. <u>Betula glandulosa</u>	7	<input checked="" type="checkbox"/>	FAC	FACU Species <u>7</u> x 4 = <u>28</u>
6. <u>Arctostaphylos alpina</u>	2	<input type="checkbox"/>	FACU	UPL Species <u>15</u> x 5 = <u>75</u>
7. <u>Vaccinium vitis-idaea</u>	1	<input type="checkbox"/>	FAC	Column Totals: <u>38</u> (A) <u>151</u> (B)
8. <u>Empetrum nigrum</u>	3	<input type="checkbox"/>	FAC	Prevalence Index = B/A = <u>3.974</u>
9. <u>Potentilla villosa</u>	0.1	<input type="checkbox"/>	UPL	
10. _____	0	<input type="checkbox"/>	_____	
<b>Total Cover:</b>			<u>31.1</u>	
<b>Herb Stratum</b>	50% of Total Cover: <u>15.55</u>	20% of Total Cover: <u>6.22</u>		<b>Hydrophytic Vegetation Indicators:</b>
1. <u>Anthoxanthum monticola ssp. alpinum</u>	1	<input type="checkbox"/>	FACU	<input type="checkbox"/> Dominance Test is > 50%
2. <u>Campanula lasiocarpa</u>	0.1	<input type="checkbox"/>	UPL	<input type="checkbox"/> Prevalence Index is ≤ 3.0
3. <u>Artemisia norvegica</u>	2	<input checked="" type="checkbox"/>	FACU	<input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
4. <u>Carex microchaeta</u>	0.1	<input type="checkbox"/>	FAC	<input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. <u>Antennaria monocephala</u>	1	<input type="checkbox"/>	UPL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
6. <u>Silene acaulis</u>	0.1	<input type="checkbox"/>	UPL	Plot size (radius, or length x width) <u>10m</u>
7. <u>Arnica louiseana var. mendenhallii</u>	2	<input checked="" type="checkbox"/>	UPL	% Cover of Wetland Bryophytes (Where applicable) _____
8. <u>Antennaria monocephala</u>	0.1	<input type="checkbox"/>	UPL	% Bare Ground <u>30</u>
9. <u>Cardamine bellidifolia</u>	0.1	<input type="checkbox"/>	FAC	Total Cover of Bryophytes <u>5</u>
10. <u>Festuca brachyphylla</u>	1	<input type="checkbox"/>	UPL	
<b>Total Cover:</b>			<u>7.5</u>	<b>Hydrophytic Vegetation Present?</b> Yes <input type="radio"/> No <input checked="" type="radio"/>
50% of Total Cover:	<u>3.75</u>	20% of Total Cover:	<u>1.5</u>	

Remarks: betgla <20cm tall, prostrate. trace anemone (no flower). arnlou in hulten as arnica trace camlas, carmic, silaca, carbel

