

WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project Borough/City: Matanuska-Susitna Borough Sampling Date: 08-Aug-12
 Applicant/Owner: Alaska Energy Authority Sampling Point: SW12_T44_53
 Investigator(s): SLI, KMK Landform (hillside, terrace, hummocks etc.): Flat
 Local relief (concave, convex, none): flat Slope: 5.2 % / 3.0 ° Elevation: 752
 Subregion: Interior Alaska Mountains Lat.: 62.890181578 Long.: -148.466221643 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"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Remarks: pronounced microtopography, hummocks 1m high. Picea trees/shrubs on hummocks, standing water and emergents in hollows.	

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

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Picea mariana</u>	15	<input checked="" type="checkbox"/>	FACW	Number of Dominant Species That are OBL, FACW, or FAC: <u>7</u> (A)
2. _____	0	<input type="checkbox"/>	_____	Total Number of Dominant Species Across All Strata: <u>7</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"/>	_____	
Total Cover: <u>15</u>				
Sapling/Shrub Stratum	50% of Total Cover: <u>7.5</u>	20% of Total Cover: <u>3</u>		Prevalence Index worksheet:
1. <u>Betula nana</u>	7	<input checked="" type="checkbox"/>	FAC	Total % Cover of: Multiply by:
2. <u>Vaccinium uliginosum</u>	5	<input type="checkbox"/>	FAC	OBL Species <u>15</u> x 1 = <u>15</u>
3. <u>Empetrum nigrum</u>	3	<input type="checkbox"/>	FAC	FACW Species <u>56</u> x 2 = <u>112</u>
4. <u>Dasiphora fruticosa</u>	7	<input checked="" type="checkbox"/>	FAC	FAC Species <u>34</u> x 3 = <u>102</u>
5. <u>Vaccinium vitis-idaea</u>	2	<input type="checkbox"/>	FAC	FACU Species <u>1</u> x 4 = <u>4</u>
6. <u>Salix pulchra</u>	10	<input checked="" type="checkbox"/>	FACW	UPL Species <u>0</u> x 5 = <u>0</u>
7. <u>Picea glauca</u>	1	<input type="checkbox"/>	FACU	Column Totals: <u>106</u> (A) <u>233</u> (B)
8. <u>Picea mariana</u>	15	<input checked="" type="checkbox"/>	FACW	Prevalence Index = B/A = <u>2.198</u>
9. _____	0	<input type="checkbox"/>	_____	
10. _____	0	<input type="checkbox"/>	_____	
Total Cover: <u>50</u>				
Herb Stratum	50% of Total Cover: <u>25</u>	20% of Total Cover: <u>10</u>		Hydrophytic Vegetation Indicators:
1. <u>Carex aquatilis</u>	15	<input checked="" type="checkbox"/>	OBL	<input checked="" type="checkbox"/> Dominance Test is > 50%
2. <u>Equisetum palustre</u>	10	<input checked="" type="checkbox"/>	FACW	<input checked="" type="checkbox"/> Prevalence Index is ≤ 3.0
3. <u>Rubus chamaemorus</u>	5	<input type="checkbox"/>	FACW	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. <u>Carex canescens (IAM)</u>	3	<input type="checkbox"/>	FAC	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5. <u>Sanguisorba canadensis</u>	1	<input type="checkbox"/>	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
6. <u>Valeriana sitchensis</u>	1	<input type="checkbox"/>	FAC	Plot size (radius, or length x width) <u>10m</u>
7. <u>Carex bigelowii</u>	3	<input type="checkbox"/>	FAC	% Cover of Wetland Bryophytes (Where applicable) _____
8. <u>Calamagrostis canadensis</u>	3	<input type="checkbox"/>	FAC	% Bare Ground <u>45</u>
9. _____	0	<input type="checkbox"/>	_____	Total Cover of Bryophytes <u>50</u>
10. _____	0	<input type="checkbox"/>	_____	
Total Cover: <u>41</u>				Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>
50% of Total Cover: <u>20.5</u>	20% of Total Cover: <u>8.2</u>			

Remarks: 2% unid herb, possibly first year valerian leaves.

