

WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project Borough/City: Matanuska-Susitna Borough Sampling Date: 05-Aug-12
 Applicant/Owner: Alaska Energy Authority Sampling Point: SW12_T34_04
 Investigator(s): SLI, KMK Landform (hillside, terrace, hummocks etc.): Bench
 Local relief (concave, convex, none): concave Slope: 5.2 % / 3.0 ° Elevation: 1221
 Subregion: Southcentral Alaska Lat.: 62.895893245 Long.: -148.689354978 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"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks: species-rich bench adjacent to spring. spring captured by SW12_T34_V03. spring runs along southern bound of community, water drops below ground surface before shoulder of slope to reappear at next small bench (ca 50m downslope).	

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

	Absolute % Cover	Dominant Species?	Indicator Status		
Tree Stratum					
1. <u>Carex nigricans</u>	1	<input type="checkbox"/>	FACW	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>9</u> (A) Total Number of Dominant Species Across All Strata: <u>13</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>69.2%</u> (A/B)	
2. <u>Aster alpinus var. vierhapperi</u>	1	<input type="checkbox"/>	UPL		
3. <u>Lycopodium annotinum var. pungens</u>	1	<input type="checkbox"/>	UPL		
4. <u>Festuca altaica</u>	5	<input checked="" type="checkbox"/>	FAC		
5. <u>Luzula wahlenbergii</u>	2	<input checked="" type="checkbox"/>	OBL		
Total Cover:		<u>10</u>		Prevalence Index worksheet: Total % Cover of: Multiply by: OBL Species <u>2</u> x 1 = <u>2</u> FACW Species <u>31</u> x 2 = <u>62</u> FAC Species <u>48</u> x 3 = <u>144</u> FACU Species <u>11</u> x 4 = <u>44</u> UPL Species <u>15</u> x 5 = <u>75</u> Column Totals: <u>107</u> (A) <u>327</u> (B) Prevalence Index = B/A = <u>3.056</u>	
Sapling/Shrub Stratum					
50% of Total Cover:		<u>5</u>			
20% of Total Cover:		<u>2</u>			
1. <u>Salix rotundifolia</u>	10	<input checked="" type="checkbox"/>	FAC		
2. <u>Salix polaris</u>	5	<input type="checkbox"/>	FACW		
3. <u>Harrimanella stelleriana</u>	15	<input checked="" type="checkbox"/>	FACW		
4. <u>Luetkea pectinata</u>	10	<input checked="" type="checkbox"/>	UPL		
5. <u>Empetrum nigrum</u>	5	<input type="checkbox"/>	FAC		
6. <u>Salix reticulata</u>	5	<input type="checkbox"/>	FAC		
7. <u>Vaccinium uliginosum</u>	10	<input checked="" type="checkbox"/>	FAC		
8. <u>Cassiope tetragona</u>	2	<input type="checkbox"/>	FACU		
9. <u>Vaccinium vitis-idaea</u>	1	<input type="checkbox"/>	FAC		
10. <u>Poa alpina</u>	3	<input type="checkbox"/>	FACU		
Total Cover:		<u>66</u>			
Herb Stratum					
50% of Total Cover:		<u>33</u>			
20% of Total Cover:		<u>13.2</u>			
1. <u>Leptarrhena pyrolifolia</u>	3	<input checked="" type="checkbox"/>	FACW	Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is > 50% <input type="checkbox"/> Prevalence Index is ≤3.0 <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
2. <u>Veronica wormskjoldii</u>	3	<input checked="" type="checkbox"/>	FAC		
3. <u>Sedum rosea</u>	1	<input type="checkbox"/>	FAC		
4. <u>Sanguisorba canadensis</u>	7	<input checked="" type="checkbox"/>	FACW		
5. <u>Artemisia norvegica</u>	3	<input checked="" type="checkbox"/>	FACU		
6. <u>Antennaria rosea</u>	3	<input checked="" type="checkbox"/>	UPL		
7. <u>Anemone narcissiflora</u>	3	<input checked="" type="checkbox"/>	FACU		
8. <u>Trisetum spicatum</u>	2	<input type="checkbox"/>	FAC		
9. <u>Carex microchaeta</u>	5	<input checked="" type="checkbox"/>	FAC		
10. <u>Bistorta vivipara</u>	1	<input type="checkbox"/>	FAC		
Total Cover:		<u>31</u>			
50% of Total Cover:		<u>15.5</u>			
20% of Total Cover:		<u>6.2</u>			
Plot size (radius, or length x width) <u>5m</u> % Cover of Wetland Bryophytes (Where applicable) _____ % Bare Ground <u>2</u> Total Cover of Bryophytes <u>30</u>					
Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>					

Remarks: additional herbs listed in tree stratum. trace viola sp, pyrola minor. no flower on anemone, unsure of sp.

