

WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project Borough/City: Matanuska-Susitna Borough Sampling Date: 01-Aug-12
 Applicant/Owner: Alaska Energy Authority Sampling Point: SW12_T41_05
 Investigator(s): SLI, KMK Landform (hillside, terrace, hummocks etc.): Gulch or Gully
 Local relief (concave, convex, none): concave Slope: 21.2 % / 12.0 ° Elevation: 824
 Subregion: Interior Alaska Mountains Lat.: 62.7980999111 Long.: -148.015356646 Datum: WGS84
 Soil Map Unit Name: _____ NWI classification: PSS1B

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: immediately downslope from PEM1H: open water surrounded by caragu in 6-12+in water, with heavily used game trails through emergent wetland. This community becomes a steeper, well-defined gully further downslope.	

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

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum				Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
1. <u>Alnus viridis ssp. crispa</u>	<u>20</u>	<input checked="" type="checkbox"/>	FAC	
2. _____	<u>0</u>	<input type="checkbox"/>	_____	
3. _____	<u>0</u>	<input type="checkbox"/>	_____	
4. _____	<u>0</u>	<input type="checkbox"/>	_____	
5. _____	<u>0</u>	<input type="checkbox"/>	_____	
Total Cover: <u>20</u>				Prevalence Index worksheet: Total % Cover of: Multiply by: OBL Species <u>0</u> x 1 = <u>0</u> FACW Species <u>30</u> x 2 = <u>60</u> FAC Species <u>77</u> x 3 = <u>231</u> FACU Species <u>16</u> x 4 = <u>64</u> UPL Species <u>0</u> x 5 = <u>0</u> Column Totals: <u>123</u> (A) <u>355</u> (B) Prevalence Index = B/A = <u>2.886</u>
Sapling/Shrub Stratum 50% of Total Cover: <u>10</u> 20% of Total Cover: <u>4</u>				
1. <u>Alnus viridis ssp. crispa</u>	<u>50</u>	<input checked="" type="checkbox"/>	FAC	
2. <u>Ribes triste</u>	<u>5</u>	<input type="checkbox"/>	FAC	
3. <u>Rosa acicularis</u>	<u>1</u>	<input type="checkbox"/>	FACU	
4. <u>Linnaea borealis</u>	<u>1</u>	<input type="checkbox"/>	FACU	
5. <u>Rubus idaeus</u>	<u>5</u>	<input type="checkbox"/>	FACU	
6. _____	<u>0</u>	<input type="checkbox"/>	_____	
7. _____	<u>0</u>	<input type="checkbox"/>	_____	
8. _____	<u>0</u>	<input type="checkbox"/>	_____	
9. _____	<u>0</u>	<input type="checkbox"/>	_____	
10. _____	<u>0</u>	<input type="checkbox"/>	_____	
Total Cover: <u>62</u>				
Herb Stratum 50% of Total Cover: <u>31</u> 20% of Total Cover: <u>12.4</u>				
1. <u>Cornus canadensis</u>	<u>5</u>	<input type="checkbox"/>	FACU	
2. <u>Rubus arcticus ssp. acaulis</u>	<u>1</u>	<input type="checkbox"/>	FAC	
3. <u>Arctagrostis latifolia</u>	<u>30</u>	<input checked="" type="checkbox"/>	FACW	
4. <u>Trientalis europaea</u>	<u>0.1</u>	<input type="checkbox"/>	FACU	
5. <u>Dryopteris expansa</u>	<u>1</u>	<input type="checkbox"/>	FACU	
6. <u>Thalictrum sparsiflorum</u>	<u>1</u>	<input type="checkbox"/>	FACU	
7. <u>Mertensia paniculata</u>	<u>2</u>	<input type="checkbox"/>	FACU	
8. <u>Cystopteris montana</u>	<u>1</u>	<input type="checkbox"/>	FAC	
9. _____	<u>0</u>	<input type="checkbox"/>	_____	
10. _____	<u>0</u>	<input type="checkbox"/>	_____	
Total Cover: <u>41.1</u>				
50% of Total Cover: <u>20.55</u> 20% of Total Cover: <u>8.22</u>				

Hydrophytic Vegetation Indicators:
 Dominance Test is > 50%
 Prevalence Index is ≤ 3.0
 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 Problematic Hydrophytic Vegetation¹ (Explain)
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Plot size (radius, or length x width) 2m x 10m
 % Cover of Wetland Bryophytes (Where applicable) _____
 % Bare Ground 80
 Total Cover of Bryophytes 15

Hydrophytic Vegetation Present? Yes No

Remarks: trace vibedu, lyccla, trieur, phegoptris connectilis, acodel, salgla, viola selkirkii (pubescent above w deep sinus), epilobium sp. collected arclat (different from at other sites) - pressed.

