

WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project Borough/City: Matanuska-Susitna Borough Sampling Date: 24-Jun-12
 Applicant/Owner: Alaska Energy Authority Sampling Point: SW12_T17_02
 Investigator(s): SLI, LMF Landform (hillside, terrace, hummocks etc.): Hillside
 Local relief (concave, convex, none): rolling Slope: % / 17.8 ° Elevation: 925
 Subregion: Southcentral Alaska Lat.: 62.7936682125 Long.: -148.935615733 Datum: NAD83
 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"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks: characterizing dense shrubs in aerial. snow recently melted, understory only beginning to emerge. upslope is subalpine heath/diapensia community, downslope is vacvit tundra w graminoid patches.	

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

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum				
1. _____	0	<input type="checkbox"/>	_____	
2. _____	0	<input type="checkbox"/>	_____	
3. _____	0	<input type="checkbox"/>	_____	
4. _____	0	<input type="checkbox"/>	_____	
5. _____	0	<input type="checkbox"/>	_____	
Total Cover:		0		
Sapling/Shrub Stratum	50% of Total Cover: 0	20% of Total Cover: 0		
1. <u>Alnus viridis</u>	60	<input checked="" type="checkbox"/>	FAC	
2. <u>Ribes triste</u>	10	<input type="checkbox"/>	FAC	
3. <u>Spiraea stevenii</u>	1	<input type="checkbox"/>	FACU	
4. <u>Salix arbusculoides</u>	15	<input type="checkbox"/>	FACW	
5. _____	0	<input type="checkbox"/>	_____	
6. _____	0	<input type="checkbox"/>	_____	
7. _____	0	<input type="checkbox"/>	_____	
8. _____	0	<input type="checkbox"/>	_____	
9. _____	0	<input type="checkbox"/>	_____	
10. _____	0	<input type="checkbox"/>	_____	
Total Cover:		86		
Herb Stratum	50% of Total Cover: 43	20% of Total Cover: 17.2		
1. <u>Dryopteris expansa</u>	7	<input checked="" type="checkbox"/>	FACU	
2. <u>Rubus chamaemorus</u>	1	<input type="checkbox"/>	FACW	
3. <u>Cornus canadensis</u>	1	<input type="checkbox"/>	FACU	
4. <u>Calamagrostis canadensis</u>	5	<input checked="" type="checkbox"/>	FAC	
5. <u>Spinulum annotinum</u>	10	<input checked="" type="checkbox"/>	FACU	
6. _____	0	<input type="checkbox"/>	_____	
7. _____	0	<input type="checkbox"/>	_____	
8. _____	0	<input type="checkbox"/>	_____	
9. _____	0	<input type="checkbox"/>	_____	
10. _____	0	<input type="checkbox"/>	_____	
Total Cover:		24		
	50% of Total Cover: 12	20% of Total Cover: 4.8		

Dominance Test worksheet:
 Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)
 Total Number of Dominant Species Across All Strata: 4 (B)
 Percent of dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)

Prevalence Index worksheet:
 Total % Cover of: _____ Multiply by:
 OBL Species 0 x 1 = 0
 FACW Species 16 x 2 = 32
 FAC Species 75 x 3 = 225
 FACU Species 19 x 4 = 76
 UPL Species 0 x 5 = 0
 Column Totals: 110 (A) 333 (B)
 Prevalence Index = B/A = 3.027

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) 4x8m
 % Cover of Wetland Bryophytes (Where applicable) _____
 % Bare Ground 85
 Total Cover of Bryophytes 10

Hydrophytic Vegetation Present? Yes No

Remarks: ground cover predominantly litter, included in bare ground estimate. snow has only just melted, understory not developed.

