

WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project Borough/City: Matanuska-Susitna Borough Sampling Date: 02-Aug-12
 Applicant/Owner: Alaska Energy Authority Sampling Point: SW12_T54_07
 Investigator(s): SLI, KMK Landform (hillside, terrace, hummocks etc.): Kettle
 Local relief (concave, convex, none): flat Slope: % / 0.4 ° Elevation: 735
 Subregion: Southcentral Alaska Lat.: 62.8343860009 Long.: -149.148656941 Datum: NAD83
 Soil Map Unit Name: _____ NWI classification: **PEM1F**

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:	

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>Dasiphora fruticosa</u>	5	<input checked="" type="checkbox"/>	FAC	
2. <u>Empetrum nigrum</u>	5	<input checked="" type="checkbox"/>	FAC	
3. <u>Vaccinium uliginosum</u>	2	<input type="checkbox"/>	FAC	
4. <u>Andromeda polifolia</u>	2	<input type="checkbox"/>	FACW	
5. <u>Betula nana</u>	1	<input type="checkbox"/>	FAC	
6. <u>Picea glauca</u>	1	<input type="checkbox"/>	FACU	
7. <u>Spiraea stevenii</u>	1	<input type="checkbox"/>	FACU	
8. _____	0	<input type="checkbox"/>		
9. _____	0	<input type="checkbox"/>		
10. _____	0	<input type="checkbox"/>		
Total Cover:		17		
Herb Stratum				
	50% of Total Cover:	8.5	20% of Total Cover:	3.4
1. <u>Trichophorum caespitosum</u>	45	<input checked="" type="checkbox"/>	OBL	
2. <u>Eriophorum angustifolium</u>	7	<input type="checkbox"/>	OBL	
3. <u>Carex pluriflora</u>	5	<input type="checkbox"/>	OBL	
4. <u>Festuca altaica</u>	5	<input type="checkbox"/>	FAC	
5. <u>Dodecatheon jeffreyi</u>	5	<input type="checkbox"/>	FACW	
6. <u>Thalictrum alpinum</u>	2	<input type="checkbox"/>	FAC	
7. <u>Spiranthes romanzoffiana</u>	1	<input type="checkbox"/>	OBL	
8. <u>Deschampsia brevifolia</u>	1	<input type="checkbox"/>	OBL	
9. <u>Carex anthoxantha</u>	1	<input type="checkbox"/>	FACW	
10. <u>Carex vaginata</u>	1	<input type="checkbox"/>	OBL	
Total Cover:		73		
	50% of Total Cover:	36.5	20% of Total Cover:	14.6

Dominance Test worksheet:
 Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)
 Total Number of Dominant Species Across All Strata: 3 (B)
 Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:
 Total % Cover of: Multiply by:
 OBL Species 60 x 1 = 60
 FACW Species 8 x 2 = 16
 FAC Species 20 x 3 = 60
 FACU Species 2 x 4 = 8
 UPL Species 0 x 5 = 0
 Column Totals: 90 (A) 144 (B)
 Prevalence Index = B/A = 1.600

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) 10m
 % Cover of Wetland Bryophytes (Where applicable) _____
 % Bare Ground _____
 Total Cover of Bryophytes _____

Hydrophytic Vegetation Present? Yes No

Remarks: possibly a mix of trices and trialp. Grasses collected for id. Trace senecio sp, plantathera sp, equpal. Additional herbs 1% each drosera rotundifolia, carex livida, tofieldia pusilla, arctagrostis latifolia, swertia perennis, menyanthes trifoliata, carex pauciflora.

