

WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project Borough/City: Matanuska-Susitna Borough Sampling Date: 24-Aug-15
 Applicant/Owner: Alaska Energy Authority Sampling Point: SW15_T333_20
 Investigator(s): ERT, TXC Landform (hillside, terrace, hummocks etc.): Nivation Hollow
 Local relief (concave, convex, none): none Slope: 46.6 % / 25.0 ° Elevation: _____
 Subregion: Interior Alaska Mountains Lat.: _____ Long.: _____ 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:	

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

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum				
1. _____	_____	<input type="checkbox"/>	_____	
2. _____	_____	<input type="checkbox"/>	_____	
3. _____	_____	<input type="checkbox"/>	_____	
4. _____	_____	<input type="checkbox"/>	_____	
5. _____	_____	<input type="checkbox"/>	_____	
Total Cover:		<u>0</u>		
Sapling/Shrub Stratum				
	50% of Total Cover:	<u>0</u>	20% of Total Cover:	<u>0</u>
1. <u>Salix pulchra</u>	<u>4</u>	<input checked="" type="checkbox"/>	<u>FACW</u>	
2. <u>Salix reticulata</u>	<u>2</u>	<input checked="" type="checkbox"/>	<u>FAC</u>	
3. _____	<u>2</u>	<input checked="" type="checkbox"/>	_____	
4. _____	<u>0</u>	<input type="checkbox"/>	_____	
5. _____	<u>0</u>	<input type="checkbox"/>	_____	
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>8</u>		
Herb Stratum				
	50% of Total Cover:	<u>4</u>	20% of Total Cover:	<u>1.6</u>
1. <u>Calamagrostis canadensis</u>	<u>30</u>	<input checked="" type="checkbox"/>	<u>FAC</u>	
2. <u>Sanguisorba canadensis</u>	<u>12</u>	<input checked="" type="checkbox"/>	<u>FACW</u>	
3. <u>Carex membranacea</u>	<u>2</u>	<input type="checkbox"/>	<u>FACW</u>	
4. <u>Carex atrofusca</u>	<u>2</u>	<input type="checkbox"/>	<u>FACW</u>	
5. <u>Chamaenerion latifolium</u>	<u>2</u>	<input type="checkbox"/>	<u>FAC</u>	
6. <u>Festuca altaica</u>	<u>2</u>	<input type="checkbox"/>	<u>FAC</u>	
7. <u>Viola palustris(IAM)</u>	<u>1</u>	<input type="checkbox"/>	<u>FAC</u>	
8. <u>Antennaria monocephala</u>	<u>1</u>	<input type="checkbox"/>	<u>UPL</u>	
9. <u>Luzula wahlenbergii</u>	<u>0.1</u>	<input type="checkbox"/>	<u>OBL</u>	
10. _____	<u>0</u>	<input type="checkbox"/>	_____	
Total Cover:		<u>52.1</u>		
	50% of Total Cover:	<u>26.05</u>	20% of Total Cover:	<u>10.42</u>

Dominance Test worksheet:
 Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)
 Total Number of Dominant Species Across All Strata: 5 (B)
 Percent of dominant Species That Are OBL, FACW, or FAC: 80.0% (A/B)

Prevalence Index worksheet:
 Total % Cover of: Multiply by:
 OBL Species 0.1 x 1 = 0.1
 FACW Species 20 x 2 = 40
 FAC Species 37 x 3 = 111
 FACU Species 0 x 4 = 0
 UPL Species 1 x 5 = 5
 Column Totals: 58.1 (A) 156.1 (B)
 Prevalence Index = B/A = 2.687

Hydrophytic Vegetation Indicators:
 Dominance Test is > 50%
 Prevalence Index is ≤ 3.0
 Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
 Problematic Hydrophytic Vegetation (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) 0
 % Bare Ground 0
 Total Cover of Bryophytes 3

Hydrophytic Vegetation Present? Yes No

Remarks: 1% each Viola sp, Ranunculus sp.

