

**WETLAND DETERMINATION DATA FORM - Alaska Region**

Project/Site: Susitna-Watana Hydroelectric Project Borough/City: Matanuska-Susitna Borough Sampling Date: 21-Aug-15  
 Applicant/Owner: Alaska Energy Authority Sampling Point: SW15\_T303\_11  
 Investigator(s): WAD, SCB Landform (hillside, terrace, hummocks etc.): \_\_\_\_\_  
 Local relief (concave, convex, none): \_\_\_\_\_ Slope: \_\_\_\_\_ % / \_\_\_\_\_ ° Elevation: \_\_\_\_\_  
 Subregion: Interior Alaska Mountains Lat.: \_\_\_\_\_ Long.: \_\_\_\_\_ Datum: WGS84  
 Soil Map Unit Name: \_\_\_\_\_ **NWI classification: PEM1E**

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"/>	<b>Is the Sampled Area within a Wetland?</b> 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	
<b>Tree Stratum</b>				<b>Dominance Test worksheet:</b> Number of Dominant Species That are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>80.0%</u> (A/B)
1. _____	_____	<input type="checkbox"/>	_____	
2. _____	_____	<input type="checkbox"/>	_____	
3. _____	_____	<input type="checkbox"/>	_____	
4. _____	_____	<input type="checkbox"/>	_____	
5. _____	_____	<input type="checkbox"/>	_____	
<b>Total Cover:</b>		<u>0</u>		<b>Prevalence Index worksheet:</b> Total % Cover of: Multiply by: OBL Species <u>76.1</u> x 1 = <u>76.1</u> FACW Species <u>2.1</u> x 2 = <u>4.2</u> FAC Species <u>3</u> x 3 = <u>9</u> FACU Species <u>1</u> x 4 = <u>4</u> UPL Species <u>0</u> x 5 = <u>0</u> Column Totals: <u>82.2</u> (A) <u>93.3</u> (B) Prevalence Index = B/A = <u>1.135</u>
<b>Sapling/Shrub Stratum</b>				
50% of Total Cover:		<u>0</u>	20% of Total Cover: <u>0</u>	
1. <u>Salix pulchra</u>	<u>2</u>	<input checked="" type="checkbox"/>	FACW	
2. <u>Betula nana</u>	<u>1</u>	<input checked="" type="checkbox"/>	FAC	
3. <u>Picea glauca</u>	<u>1</u>	<input checked="" type="checkbox"/>	FACU	
4. <u>Vaccinium uliginosum</u>	<u>1</u>	<input checked="" type="checkbox"/>	FAC	
5. <u>Andromeda polifolia(IAM)</u>	<u>0.1</u>	<input type="checkbox"/>	OBL	
6. <u>Salix fuscescens</u>	<u>0.1</u>	<input type="checkbox"/>	FACW	
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"/>	_____	
<b>Total Cover:</b>		<u>5.2</u>		
<b>Herb Stratum</b>				
50% of Total Cover:		<u>2.6</u>	20% of Total Cover: <u>1.04</u>	
1. <u>Carex aquatilis</u>	<u>70</u>	<input checked="" type="checkbox"/>	OBL	
2. <u>Eriophorum angustifolium</u>	<u>5</u>	<input type="checkbox"/>	OBL	
3. <u>Calamagrostis canadensis</u>	<u>1</u>	<input type="checkbox"/>	FAC	
4. <u>Comarum palustre</u>	<u>1</u>	<input type="checkbox"/>	OBL	
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"/>	_____	
<b>Total Cover:</b>		<u>77</u>		
50% of Total Cover:		<u>38.5</u>	20% of Total Cover: <u>15.4</u>	

**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)  
<sup>1</sup> 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 20  
 Total Cover of Bryophytes 20

**Hydrophytic Vegetation Present?** Yes  No

Remarks: very wet sedge with small mossy hummocks with shrubs. several larger palsas with low birch and small spruce (not included in cover data)

