

**WETLAND DETERMINATION DATA FORM - Alaska Region**

Project/Site: Susitna-Watana Hydroelectric Project Borough/City: Matanuska-Susitna Borough Sampling Date: 23-Aug-15  
 Applicant/Owner: Alaska Energy Authority Sampling Point: SW15\_T310\_04  
 Investigator(s): BAB Landform (hillside, terrace, hummocks etc.): Hillside  
 Local relief (concave, convex, none): hummocky Slope: 10.5 % / 6.0 ° 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 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"/>	<b>Is the Sampled Area within a Wetland?</b> Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks:	

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

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b>	
1. <u>Picea glauca</u>	35	<input checked="" type="checkbox"/>	FACU	Number of Dominant Species That are OBL, FACW, or FAC:	<u>1</u> (A)
2. _____	0	<input type="checkbox"/>	_____	Total Number of Dominant Species Across All Strata:	<u>3</u> (B)
3. _____	0	<input type="checkbox"/>	_____	Percent of dominant Species That Are OBL, FACW, or FAC:	<u>33.3%</u> (A/B)
4. _____	0	<input type="checkbox"/>	_____		
5. _____	0	<input type="checkbox"/>	_____		
<b>Total Cover:</b>			<u>35</u>		
<b>Sapling/Shrub Stratum</b>	50% of Total Cover: <u>17.5</u>	20% of Total Cover: <u>7</u>			
1. <u>Alnus viridis ssp. sinuata</u>	70	<input checked="" type="checkbox"/>	FAC	<b>Prevalence Index worksheet:</b> Total % Cover of: Multiply by: OBL Species <u>0</u> x 1 = <u>0</u> FACW Species <u>21</u> x 2 = <u>42</u> FAC Species <u>91</u> x 3 = <u>273</u> FACU Species <u>42</u> x 4 = <u>168</u> UPL Species <u>20</u> x 5 = <u>100</u> Column Totals: <u>174</u> (A) <u>583</u> (B) Prevalence Index = B/A = <u>3.351</u>	
2. <u>Picea mariana</u>	15	<input type="checkbox"/>	FACW		
3. <u>Vaccinium uliginosum</u>	8	<input type="checkbox"/>	FAC		
4. <u>Empetrum nigrum</u>	5	<input type="checkbox"/>	FAC		
5. <u>Rhododendron groenlandicum</u>	3	<input type="checkbox"/>	FAC		
6. <u>Salix pulchra</u>	3	<input type="checkbox"/>	FACW		
7. <u>Rosa acicularis</u>	3	<input type="checkbox"/>	FACU		
8. <u>Linnaea borealis</u>	1	<input type="checkbox"/>	FACU		
9. <u>Salix reticulata</u>	1	<input type="checkbox"/>	FAC		
10. <u>Ribes triste</u>	1	<input type="checkbox"/>	FAC		
<b>Total Cover:</b>			<u>110</u>		
<b>Herb Stratum</b>	50% of Total Cover: <u>55</u>	20% of Total Cover: <u>22</u>			
1. <u>Boykinia richardsonii</u>	20	<input checked="" type="checkbox"/>	UPL	<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> Dominance Test is > 50% <input type="checkbox"/> Prevalence Index is ≤3.0 <input type="checkbox"/> Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
2. <u>Equisetum arvense</u>	3	<input type="checkbox"/>	FAC		
3. <u>Dodecatheon jeffreyi</u>	2	<input type="checkbox"/>	FACW		
4. <u>Cornus canadensis</u>	2	<input type="checkbox"/>	FACU		
5. <u>Mertensia paniculata</u>	1	<input type="checkbox"/>	FACU		
6. <u>Petasites frigidus</u>	1	<input type="checkbox"/>	FACW		
7. _____	0	<input type="checkbox"/>	_____		
8. _____	0	<input type="checkbox"/>	_____		
9. _____	0	<input type="checkbox"/>	_____		
10. _____	0	<input type="checkbox"/>	_____		
<b>Total Cover:</b>			<u>29</u>	Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes (Where applicable) _____ % Bare Ground <u>25</u> Total Cover of Bryophytes <u>45</u>	
50% of Total Cover: <u>14.5</u> 20% of Total Cover: <u>5.8</u>			<b>Hydrophytic Vegetation Present?</b> Yes <input type="radio"/> No <input checked="" type="radio"/>		
Remarks: <u>1% rubus pedatus</u>					

