

WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project Borough/City: Matanuska-Susitna Borough Sampling Date: 21-Jun-12
 Applicant/Owner: Alaska Energy Authority Sampling Point: SW12_T32_09
 Investigator(s): JGK Landform (hillside, terrace, hummocks etc.): Floodplain
 Local relief (concave, convex, none): hummocky Slope: 26.7 % / 15.0 ° Elevation: 803
 Subregion: Interior Alaska Mountains Lat.: 62.7634149085 Long.: -148.349201972 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 checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks: water in pit may be due to recent upstream snowmelt	

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

<u>Tree Stratum</u>	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	0	<input type="checkbox"/>	_____	Number of Dominant Species That are OBL, FACW, or FAC: <u>4</u> (A)
2. _____	0	<input type="checkbox"/>	_____	Total Number of Dominant Species Across All Strata: <u>4</u> (B)
3. _____	0	<input type="checkbox"/>	_____	Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
4. _____	0	<input type="checkbox"/>	_____	
5. _____	0	<input type="checkbox"/>	_____	
Total Cover: <u>0</u>				
<u>Sapling/Shrub Stratum</u>	50% of Total Cover: <u>0</u>	20% of Total Cover: <u>0</u>		Prevalence Index worksheet:
1. <u>Alnus viridis ssp. sinuata</u>	70	<input checked="" type="checkbox"/>	FAC	Total % Cover of: Multiply by:
2. <u>Salix alaxensis</u>	15	<input type="checkbox"/>	FAC	OBL Species <u>0</u> x 1 = <u>0</u>
3. <u>Picea glauca</u>	2	<input type="checkbox"/>	FACU	FACW Species <u>20</u> x 2 = <u>40</u>
4. _____	0	<input type="checkbox"/>	_____	FAC Species <u>126</u> x 3 = <u>378</u>
5. _____	0	<input type="checkbox"/>	_____	FACU Species <u>2</u> x 4 = <u>8</u>
6. _____	0	<input type="checkbox"/>	_____	UPL Species <u>0.1</u> x 5 = <u>0.500</u>
7. _____	0	<input type="checkbox"/>	_____	Column Totals: <u>148.1</u> (A) <u>426.5</u> (B)
8. _____	0	<input type="checkbox"/>	_____	Prevalence Index = B/A = <u>2.880</u>
9. _____	0	<input type="checkbox"/>	_____	
10. _____	0	<input type="checkbox"/>	_____	
Total Cover: <u>87</u>				Hydrophytic Vegetation Indicators:
<u>Herb Stratum</u>	50% of Total Cover: <u>43.5</u>	20% of Total Cover: <u>17.4</u>		<input checked="" type="checkbox"/> Dominance Test is > 50%
1. <u>Equisetum arvense</u>	15	<input checked="" type="checkbox"/>	FAC	<input checked="" type="checkbox"/> Prevalence Index is ≤ 3.0
2. <u>Petasites frigidus</u>	5	<input type="checkbox"/>	FACW	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
3. <u>Dodecatheon frigidum</u>	15	<input checked="" type="checkbox"/>	FACW	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
4. <u>Valeriana capitata</u>	1	<input type="checkbox"/>	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5. <u>Calamagrostis canadensis</u>	20	<input checked="" type="checkbox"/>	FAC	Plot size (radius, or length x width) <u>5m x 10m</u>
6. <u>Anemone richardsonii</u>	5	<input type="checkbox"/>	FAC	% Cover of Wetland Bryophytes (Where applicable) <u>0</u>
7. <u>Boykinia richardsonii</u>	0.1	<input type="checkbox"/>	UPL	% Bare Ground <u>15</u>
8. _____	0	<input type="checkbox"/>	_____	Total Cover of Bryophytes <u>15</u>
9. _____	0	<input type="checkbox"/>	_____	
10. _____	0	<input type="checkbox"/>	_____	
Total Cover: <u>61.1</u>				Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>
50% of Total Cover: <u>30.55</u>	20% of Total Cover: <u>12.22</u>			

Remarks: 2% picgla tree grouped w shrubs for dominance test, as total tree cover <5%

