WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: Matanuska-Susitna Borough Sampling Date: 01-Aug-13
Applicant/Owner: Alaska Energy Authority	Sampling Point: SW13_T141_05
Investigator(s): BAB	Landform (hillside, terrace, hummocks etc.): Valley bottom
Local relief (concave, convex, none): flat	Slope: <u>1.7 % / 1.0 °</u> Elevation: <u>1015</u>
Subregion : Interior Alaska Mountains Lat.:	63.2171541732 Long.: -148.283428084 Datum: WGS84
Soil Map Unit Name:	NWI classification: PEM1E
	ar? Yes No (If no, explain in Remarks.) tły disturbed? Are "Normal Circumstances" present? Yes No problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ● Yes ●	No O No O	Is the Sampled Area	
Hydric Soil Present?	Yes 🔍	No \bigcirc		Yes 🖲 No 🔾
Wetland Hydrology Present?	Yes 🖲	No O	within a Wetland?	

Remarks: bottom of a wide gently sloping drainage with deserted beaver dams down stream

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

Tree Stratum % Cover Species? Status Number of Dominant Species			Absolute	Dominant	Indicator	Dominance Test worksheet:
1 0	Tree	e Stratum				Number of Dominant Species
2.	1.		0			That are OBL, FACW, or FAC: (A)
3.	2					
4. 0 0 0 Prevalence index morksheet: 5. 0 0 0 Prevalence index morksheet: 5. 0 0 0 0 1. Salix pulchra 0 0 0 Prevalence index morksheet: 1. Salix pulchra 0 0 FACW FACW FACW 2. 0 0 FACW FACW FACW FACW 4. 0 0 FACW FACW FACW FACW Species 10. x = 40 4. 0 0 FACW FACW Species 2. x = 6 FACU Species 2. x = 6 5. 0 0 0 FACW FACW Species 2. x = 6 7. 0 0 Column Totals: 63.1 (A) 94.20 (B) 8. 0 0 Column Totals: 53.1 (A) 94.20 (B) 9. 0 0 Workpolytic Vegetation Indicators: 0 Workpolytic Vegetation Indicators: 0 0 Momonkpolytic Vegetation Indicators:						Species Across All Strata: (B)
5. 0	•					
Total Cover:			0			That Are OBL, FACW, or FAC: 100.0% (A/B)
Saping/Shrub Stratum50% of Total Cover:020% of Total Cover:0OBL Species40x1 =401.Salix pulchra10 \checkmark FACWFACW Species19.1x2 =38.202.03.004.0-05.0-0	5.		0			Prevalence Index worksheet:
1. Salix pulchra 10 Image: FACW FACW <t< td=""><td></td><td>Total Cover:</td><td></td><td></td><td></td><td>Total % Cover of: Multiply by:</td></t<>		Total Cover:				Total % Cover of: Multiply by:
1 1	Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species40 x 1 =40
2. 0 □ FAC Species 2 x 3 = 6 3. 0 □ FAC Species 2 x 3 = 6 4. 0 □ FAC Species 2 x 4 = 0 4. 0 □ UPL Species 2 x 5 = 10 5. 0 □ Column Totals: 63.1 (A) 94.20 (B) 6. 0 □ Prevalence Index = B/A = 1.493 8. 0 □ Wydrophytic Vegetation Indicators: 9. 0 □ Wydrophytic Vegetation Indicators: 10. 0 □ Wrevalence Index is ≤ 3.0 11. Carex aquatilis 30 O OBL Problematic Hydrophytic Vegetation 1 (Explain) 12. Comarum palustre 10 OBL Pacewalence Index is disturbed or problematic. 13. <t< td=""><td>1.</td><td>Salix pulchra</td><td>10</td><td>\checkmark</td><td>FACW</td><td></td></t<>	1.	Salix pulchra	10	\checkmark	FACW	
3. 0	2.		-			FAC Species <u>2</u> x 3 = <u>6</u>
4. 0	3.		0			FACU Species x 4 =
5. 0	4.		0			UPL Species 2 x 5 = 10
6. 0 0 Prevalence Index = B/A = 1.493 7. 0 0 Hydrophytic Vegetation Indicators: 9. 0 0 Prevalence Index = B/A = 1.493 9. 0 0 Prevalence Index = B/A = 1.493 10. 0 0 Prevalence Index = B/A = 1.493 10. 0 0 Prevalence Index = B/A = 1.493 11. Carex aquatilis 0 Prevalence Index is ≤3.0 12. Comarum palustre 10 OBL Problematic Hydrophytic Vegetation ¹ (Explain) 13. Arctagrostis latifolia 5 FACW Problematic Hydrophytic Vegetation ¹ (Explain) 14. Polemonium pulcherrimum 2 UPL Plot size (radius, or length x width) 10m 15. Viola epipsila 2 FACW % Cover of Wetand Bryophytes Plot size (radius, or length x width) 10m 5. Viola epipsila 1 FAC % Bare Ground Plot size (radius, or length x width) 10m 6. Petasites frigidus 1 FAC % Bare Ground Plot size (radius, or length x width) 10m 9.	5					
7. 0 0 0 0 1.493 8. 0 0 0 0 0 0 9. 0 <	-		-			Column Totals: <u>63.1</u> (A) <u>94.20</u> (B)
8.						Prevalence Index = B/A = <u>1.493</u>
9. 0 0 ✓ Dominance Test is > 50% 10. 0 0 ✓ Prevalence Index is ≤ 3.0 Herb Stratum 50% of Total Cover: 2 Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) 1. Carex aquatilis 30 ✓ OBL Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) 2. Comarum palustre 10 OBL Problematic Hydrophytic Vegetation ¹ (Explain) 3. Arctagrostis latifolia 5 FACW Present, unless disturbed or problematic. 4. Polemonium pulcherrimum 2 UPL Plot size (radius, or length x width) 10m 5. Viola epipsila 2 FACW % Cover of Wetland Bryophytes						Hydrophytic Vegetation Indicators:
10.						
Total Cover: 10 50% of Total Cover: 2 1. Carex aquatilis 2. Comarum palustre 3. Arctagrostis latifolia 3. Arctagrostis latifolia 5. Polemonium pulcherrimum 2. Patasites frigidus 7. Luzula parviflora 8. Veronica wormskjoldii 9. Equisetum variegatum 0.1 FACW Yeronica rubra 0.1 50% of Total Cover: 53.2 Yeronica rubra 0.1 9. Facur 10. Facur 10. Facur 10. Yeronica tubra 10. Yeronica tubra <tr< td=""><td></td><td></td><td></td><td></td><td></td><td></td></tr<>						
Herb Stratum 50% of Total Cover: 5 20% of Total Cover: 2 Remarks or on a separate sheet) 1. Carex aquatilis 30 ✓ OBL Problematic Hydrophytic Vegetation ¹ (Explain) 2. Comarum palustre 10 OBL Problematic Hydrophytic Vegetation ¹ (Explain) 3. Arctagrostis latifolia 5 FACW Problematic Hydrophytic Vegetation ¹ (Explain) 4. Polemonium pulcherrimum 2 UPL Plot size (radius, or length x width) 10m 5. Viola epipsila 2 FACW % Cover of Wetland Bryophytes (Where applicable) 7. Luzula parviflora 1 FAC % Bare Ground	10.					
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50% of Total Cover: <u>26.6</u> 20% of Total Cover: <u>10.64</u> Present? Yes NO	10.					
				of Total Cover:	10.64	Present? Yes • No O
	Rem			-		1

			dox Features			
(inches) Color (mois		Color (moist)	<u>%</u> T	ype ¹ Loc ²	Texture	Remarks
0-12	100				Fibric Organics	very rooty
12-15					Hemic Organics	w semi angular cobbles
				,		
¹ Type: C=Concentration. D=I	Depletion. RM=R	educed Matrix ² Locatio	on: PL=Pore Lir	ning. RC=Root Ch	annel. M=Matrix	
Hydric Soil Indicators:		Indicators for P	roblematic Hy	dric Soils: ³		
Histosol or Histel (A1)		Alaska Color C	4	Г	Alaska Gleyed Without	Hue 5Y or Redder
Histic Epipedon (A2)		Alaska Alpine		Ľ	Underlying Layer	
Hydrogen Sulfide (A4)			With 2.5Y Hue		Other (Explain in Rem	arks)
Thick Dark Surface (A12)						
Alaska Gleyed (A13)					mary indicator of wetland	1 hydrology,
Alaska Redox (A14)		and an appropria	ate landscape p	osition must be p	resent	
Alaska Gleyed Pores (A15)	1	⁴ Give details of a	color change in	Remarks		
Restrictive Layer (if present):						nt? Yes 🖲 No 🔾
Type: Depth (inches):					Hydric Soil Prese	nt? Yes 🖲 No 🔾
Type: Depth (inches): Remarks:					Hyaric Soli Prese	nt? Yes ♥ No ∪
Depth (inches):					Hyaric Soli Prese	nt? Yes ♥ No ∪
Depth (inches):					Hyaric Soli Prese	nt? Yes ♥ No ∪
Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Indicat					Secondary Ir	ndicators (two or more are required)
Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Indicat Primary Indicators (any one is					Secondary Ir	ndicators (two or more are required) tained Leaves (B9)
Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Indicat Primary Indicators (any one is Surface Water (A1)			Visible on Aerial		Secondary Ir Water S Drainag	ndicators (two or more are required) tained Leaves (B9) e Patterns (B10)
Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Indicat Primary Indicators (any one is Surface Water (A1) High Water Table (A2)		Sparsely Ve	getated Concav		Secondary Ir Water S Drainag Oxidized	ndicators (two or more are required)
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Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Indicat Primary Indicators (any one is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)		Sparsely Ver Marl Deposi	getated Concav ts (B15) ulfide Odor (C1)	e Surface (B8)	Secondary Ir Water S Drainag Oxidized Presenc Salt Dep	ndicators (two or more are required)
Depth (inches): Remarks:		Sparsely Ver Marl Deposi Hydrogen S Dry-Season	getated Concav ts (B15) ulfide Odor (C1) Water Table (C	e Surface (B8)	Secondary Ir Secondary Ir Water S Drainag Oxidized Presenc Salt Dep Stunted	ndicators (two or more are required) tained Leaves (B9) e Patterns (B10) I Rhizospheres along Living Roots (C3) e of Reduced Iron (C4) posits (C5) or Stressed Plants (D1)
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