WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampling Date	: 07-Jul-13
Applicant/Owner: Alaska Energy Authority		Sampling Point:	SW13_T134_06
Investigator(s): WAD, BAB	Landform (hills	ide, terrace, hummocks etc.): Channel (activ	/e)
Local relief (concave, convex, none): concave	Slope: 1.7	% / 1.0 ° Elevation: 833	
Subregion : Southcentral Alaska Lat.:	62.687805772	Long.: -148.745749712	Datum: WGS84
Soil Map Unit Name:		NWI classification: PEM	1F
	ar? Yes (tly disturbed? problematic?		es
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point l	ocations, transects, important features	s, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ● Yes ● Yes ●	No	Is the Sampled Area within a Wetland?	Yes 🖲 No 🔿
Remarks:				

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

			۵hc	olute	Dominant	Indicator	Dominance Test worksheet:
Tre	e Stratum			Cover	Species?	Status	Number of Dominant Species
1.			-	0			That are OBL, FACW, or FAC:3 (A)
2.	-			0			Total Number of Dominant
3.				0			Species Across All Strata: (B)
4.				0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
 5.				0			
0.		Total Cover		0			Prevalence Index worksheet:
C	line (Church Churchum	50% of Total Cover:			of Total Cover:	0	Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum		0	20%	of Total Cover.	0	OBL Species <u>30</u> x 1 = <u>30</u>
1.	Salix pulchra			5	\checkmark	FACW	FACW Species <u>5.2</u> x 2 = <u>10.4</u>
2.				0			FAC Species x 3 =
3.				0			FACU Species <u>0</u> x 4 = <u>0</u>
4.				0			UPL Species x 5 =
5.				0			Column Totals: 35.2 (A) 40.4 (B)
				0			
				0			Prevalence Index = B/A = 1.148
				0			Hydrophytic Vegetation Indicators:
				0			✓ Dominance Test is > 50%
				0			✓ Prevalence Index is \leq 3.0
		Total Cover		5			\square Morphological Adaptations ¹ (Provide supporting data in
Her	b Stratum	50% of Total Cover:	2.5	<u> </u>	of Total Cover:	1	Remarks or on a separate sheet)
1.	Carex aquatilis			20	\checkmark	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Eriophorum angustifolium			10	\checkmark	OBL	¹ Indicators of hydric soil and wetland hydrology must
3.	Sanguisorba canadensis			0.1		FACW	be present, unless disturbed or problematic.
4.	Viola epipsila			0.1		FACW	
5.				0			Plot size (radius, or length x width) <u>10m</u>
				0			% Cover of Wetland Bryophytes (Where applicable)
				0			% Bare Ground
				0			Total Cover of Bryophytes
				0			
				0			Hydrophytic
		Total Cover		30.2			Vegetation
		50% of Total Cover:			of Total Cover:	6.04	Present? Yes No
Rem	arks:						

SOIL

Depth (inches) Color (moist) % Color (moist) % Yype ¹ Loc ² Texture Remarks (inches) Color (moist) % Color (moist) % Yype ¹ Loc ² Texture Remarks (inches) Color (moist) % Yype ¹ Loc ² Texture Remarks (inches) Color (moist) % Yype ¹ Loc ² Texture Remarks (inches) Color (moist) % Yype ¹ Loc ² Texture Remarks (inches) Color (moist) % Yype ¹ Loc ² Texture Remarks (inches): Color (moist) % Yype ¹ Loc ² Texture Remarks (inches): Inchestors Inchestors Inchestors Inchestors Inchestors Inchestors (inches): Indicators for Problematic Hydric Soils ³ Alaska Gleyed Without Hue SY or Redder Underlying Layer Histic Epipedon (A2) Alaska Color Change (TA4) Indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, and an appropriate landscape position must be present Alaska Gleyed (A13) 3 One
Image: Section of the section of t
Hydric Soil Indicators: Indicators for Problematic Hydric Soils: ³ Histosol or Histel (A1) Alaska Color Change (TA4) ⁴ Alaska Gleyed Without Hue 5Y or Redder Underlying Layer Histic Epipedon (A2) Alaska Alpine swales (TA5) Underlying Layer Hydrogen Sulfide (A4) Alaska Redox With 2.5Y Hue Other (Explain in Remarks) Thick Dark Surface (A12) ³ One indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, and an appropriate landscape position must be present Alaska Gleyed Pores (A13) ⁴ Give details of color change in Remarks Restrictive Layer (if present): Type: Type: Depth (inches):
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☐ Hydrogen Sulfide (A4) ☐ Alaska Redox With 2.5Y Hue ✓ Other (Explain in Remarks) ☐ Thick Dark Surface (A12) ³ One indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, and an appropriate landscape position must be present △ Alaska Redox (A14) ⁴ Give details of color change in Remarks Restrictive Layer (if present): Type: Type: Depth (inches):
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Restrictive Layer (if present): Hydric Soil Present? Yes No
Type: Hydric Soil Present? Yes No O
Depth (inches):
Depth (inches):
Remarks:
assume hydric soil due to hydrophytic vegetation and inundation.
HYDROLOGY
Wetland Hydrology Indicators: Secondary Indicators (two or more are required
Primary Indicators (any one is sufficient) Water Stained Leaves (B9)
✓ Surface Water (A1) Inundation Visible on Aerial Imagery (B7) ✓ Drainage Patterns (B10)
High Water Table (A2) Sparsely Vegetated Concave Surface (B8) Oxidized Rhizospheres along Living Roots (
Saturation (A3) Marl Deposits (B15) Presence of Reduced Iron (C4) Water Marks (B1) Hydrogen Sulfide Odor (C1) Salt Deposits (C5)
Water Marks (B1) Hydrogen Sulfide Odor (C1) Salt Deposits (C5) Sediment Deposits (B2) Dry-Season Water Table (C2) Stunted or Stressed Plants (D1)
Drift Deposits (B3) Other (Explain in Remarks) Geomorphic Position (D2)
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□ Drift Deposits (B3) □ Other (Explain in Remarks) □ Geomorphic Position (D2) □ Algal Mat or Crust (B4) □ Shallow Aquitard (D3) □ Iron Deposits (B5) □ Microtopographic Relief (D4) □ Surface Soil Cracks (B6) ✔ FAC-neutral Test (D5) Field Observations: Surface Water Present? Yes ● No ● Depth (inches): 5 With With Line Deposition of the state of the stat
□ Drift Deposits (B3) □ Other (Explain in Remarks) □ Geomorphic Position (D2) □ Algal Mat or Crust (B4) □ Shallow Aquitard (D3) □ Iron Deposits (B5) □ Microtopographic Relief (D4) □ Surface Soil Cracks (B6) ✓ FAC-neutral Test (D5) Field Observations: Surface Water Present? Yes ● No ● Surface Water Present? Yes ● No ● Depth (inches): 5 Water Table Present? Yes ● No ● Depth (inches): 0 Wetland Hydrology Present? Yes ● No ●
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□ Drift Deposits (B3) □ Other (Explain in Remarks) □ Geomorphic Position (D2) □ Algal Mat or Crust (B4) □ Shallow Aquitard (D3) □ Iron Deposits (B5) □ Microtopographic Relief (D4) □ Surface Soil Cracks (B6) ✓ FAC-neutral Test (D5) Field Observations: Surface Water Present? Yes ● No ● Water Table Present? Yes ● No ● Saturation Present? Yes ● No ● Depth (inches): 0 Wetland Hydrology Present? Yes ● No ●
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