WETLAND DETERMINATION DATA FORM - Alaska Region

Project	Site: Susitna-Watana Hydroelectric Project	Вс	prough/City:	Matanusk	a-Susitna Borough Sampling Date: 24-Jun-12
pplica	nt/Owner: Alaska Energy Authority				Sampling Point: SW12_T17_09
nvesti	ator(s): SLI, LMF	L	andform (hill	side, terrac	e, hummocks etc.): Bench
ocal r	lief (concave, convex, none): concave		Slope:	%/ 12.1	1 ° Elevation: 755
ubrea	on : Southcentral Alaska	Lat.: 6	2.790288216		Long.: -148.956705737 Datum: NAD83
-	o Unit Name:				NWI classification: PEM1E
	atic/hydrologic conditions on the site typical for this	a time of year?	Voc	• No ()	(If no, explain in Remarks.)
Are V Are V	egetation □ , Soil □ , or Hydrology □ egetation □ , Soil ☑ , or Hydrology □ IARY OF FINDINGS - Attach site map sh	significantly naturally pro	disturbed? bblematic?	Are "N (If nee	lormal Circumstances" present? Yes \odot No \bigcirc ded, explain any answers in Remarks.)
	Hydrophytic Vegetation Present? Yes 🔍 No	0			
	Hydric Soil Present? Yes 🔍 No	\bigcirc			pled Area
	Wetland Hydrology Present? Yes ● No	0	wi	thin a W	etland? Yes $ullet$ No $igodoldsymbol{ imes}$
Rema	rks: small emergent toeslope wetland on bench. up bound.	oslope is well-d	Irained alnus	steep slope	e. wetland runs ~50m E-W, no inlet/outlet. seeps along N
EGE	TATION - Use scientific names of plants.	List all spee	cies in the	plot.	1
		Absolute	Dominant	Indicator	Dominance Test worksheet:
	Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)
1.		0			Total Number of Dominant
2.		0			Species Across All Strata: <u>2</u> (B)
3.					Percent of dominant Species
4.		0			That Are OBL, FACW, or FAC:(A/B)
5.		0			Prevalence Index worksheet:
	Total Cov				Total % Cover of: Multiply by:
Sap	ing/Shrub Stratum 50% of Total Cover:	20% 0	of Total Cover:	0	OBL Species <u>12</u> x 1 = <u>12</u>
1.		0			FACW Species <u>30</u> x 2 = <u>60</u>
2.		٥			FAC Species x 3 =6
3.		0			FACU Species $0 x 4 = 0$
4.		0			UPL Species x 5 =
5.		0			Column Totals: <u>44</u> (A) <u>78</u> (B)
6.		0			Prevalence Index = B/A = 1.773
7.		0			Prevalence Index = B/A = <u>1.773</u>
8.		0			Hydrophytic Vegetation Indicators:
9.		0			✓ Dominance Test is > 50%
10.		0			✓ Prevalence Index is ≤3.0
Her	Stratum 50% of Total Cover:		of Total Cover	: 0	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1.	Eriophorum russeolum	30	\checkmark	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
	Carex magellanica	10	\checkmark	OBL	¹ Indicators of hydric soil and wetland hydrology must
	Carex aquatilis	2		OBL	be present, unless disturbed or problematic.
4.	Equisetum sylvaticum	· 2		FAC	Dist size (radius, er langth y width)
5.		-			Plot size (radius, or length x width) <u>2x5m</u> % Cover of Wetland Bryophytes
					(Where applicable)
					% Bare Ground87
					Total Cover of Bryophytes 10
		0			
9.					Hydrophytic
9.	Total Cov 50% of Total Cover:	ver: 44			Hydrophytic Vegetation Present? Yes • No ·

		ist)	%	Color (moist)	<u>% Type¹</u>	Loc 2	Texture	Remarks
ydric Soll Indicators: Indicators for Problematic Hydric Solls. ³ Histosol or Histel (A1) Alaska Alpine swales (TA5) Undeflying Layer Higtic Explandon (A2) Alaska Redox With 2.5Y Hue Other (Explain in Remarks) Hydrogen Sufficie (A4) Alaska Redox With 2.5Y Hue Other (Explain in Remarks) Alaska Gleyed (A13) and an appropriate landscape position must be present Alaska Gleyed Nores (A15) Give details of color change in Remarks estrictive Layer (if present): Type: Type: Hydric Soil Present? Depth (inches): Hydric Soil Soil Or estanding water, assume hydric soils due to hydrophytic vegetation and wetland hydrology Pintare Water (A1) Inundation Visible on Aerial Imagery (B7) VEROLOGY Sparsely Vegetated Concave Surface (B8) Variate Water (A1) Inundation Visible on Aerial Imagery (B7) Variate Water (A1) Inundation Visible on Aerial Imagery (B7) Variate Water (A1) Hydrogen Suffice (D4) Variate Water (A1) Inundation Visible on Aerial Imagery (B7) Variate Water (A1) Inundation Visible on Aerial Imagery (B7) Variate Water (A1) Hydrogen Suffice (D4) Variate Water (A1) Inundation Visible on Aerial Imagery (B7)								p
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Histic Epipedon (A2) Alaska Alpine swales (TA5) Underlying Layer Hydrogen Suffide (A4) Alaska Redox With 2.5Y Hue ☑ Other (Explain in Remarks) Thick Dark Surface (A12) Alaska Gleyed (A13) a on appropriate landscape position must be present Alaska Gleyed Pores (A15) 4 Give details of color change in Remarks strictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes ● No ○ emarks: soil pit due to standing water, assume hydric soils due to hydrophytic vegetation and wetland hydrology YDROLOGY Secondary Indicators (two or more are required) Immar Indicators (anv one is sufficient) Imundation Visible on Aerial Imagery (87) Surface Water (A1) Imundation Visible od (C1) Sedimetr Deposits (B1) Hydrogens Suffice Od (C1) Sedimetr Deposits (B1) Hydrogens Suffice Od (C1) Sedimetr Deposits (B3) Other (Explain in Remarks) Surface Water Relef (D1) Dresesce Plants (D1) In on Deposits (B3) Other (Explain in Remarks) Sedimetr Deposits (B3) Other (Explain in Remarks) Sedimetr Deposits (B3) Other (Explain in Remarks) Surface Water Relef (D4) Shaltwater Present? Yes ● No ○	lydric Soil Indicators:			Indicators for Pr	oblematic Hydric S	oils: ³		
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▲ Jaska Gleved Pores (A15) ⁴ Give details of color change in Remarks estrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes ● No ○ marks: o soil pit due to standing water, assume hydric soils due to hydrophytic vegetation and wetland hydrology YDROLOGY Yetland Hydrology Indicators: Primary Indicators (avo one is sufficient) Image: Indicators (A1) Image: Indicators (A2) Sparsely Vegetated Concave Surface (B8) Oxidized Rhizospheres along Living Roots (C3) Image: Indicators (B2) Dry-Season Water Table (C2) Image: Indicators (B3) Other (Explain in Remarks) Image: Indicators (B4) Image: Indicators (D3) Image: Indin Arror Image: Indicators (D3) <				and an appropriat	te landscape position	must be pres	ent	ydrology,
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✓ High Water Table (A2) □ Sparsely Vegetated Concave Surface (B8) □ Oxidized Rhizospheres along Living Roots (C3) ✓ Saturation (A3) □ Marl Deposits (B15) □ Presence of Reduced Iron (C4) □ 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) □ Algal Mat or Crust (B4) □ Other (Explain in Remarks) ✓ Microtopographic Relief (D4) □ Surface Soil Cracks (B6) ✓ PAC-neutral Test (D5) ✓ Field Observations: Surface Water Present? Yes ● No ○ Depth (inches): 4 Water Table Present? Yes ● No ○ Depth (inches): 0 Wetland Hydrology Present? Yes ● No ○	Type: Depth (inches): Remarks: no soil pit due to standing wat	tors:	nydric soils	due to hydrophytic	vegetation and wetla			ators (two or more are required)
✓ Saturation (A3) Marl Deposits (B15) Presence of Reduced Iron (C4) 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) △ 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): 4 Water Table Present? Yes ● No ○ Depth (inches): 0 Saturation Present? Yes ● No ○ Depth (inches): 0	Type: Depth (inches): Remarks: To soil pit due to standing wat IYDROLOGY Wetland Hydrology Indica Primary Indicators (any one i	tors:	iydric soils			ind hydrology	Secondary Indi	cators (two or more are required) ned Leaves (B9)
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□ Sediment Deposits (B2) □ Dry-Season Water Table (C2) □ Stunted or Stressed Plants (D1) □ 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: □ Depth (inches): 4 Water Table Present? Yes < No	Type: Depth (inches): Remarks: no soil pit due to standing wat IYDROLOGY Wetland Hydrology Indica Primary Indicators (any one i Surface Water (A1) I High Water Table (A2)	tors:	nydric soils	Inundation V Sparsely Veg	risible on Aerial Image etated Concave Surfa	ind hydrology	Secondary Indi Water Stai Drainage F Oxidized R	cators (two or more are required) ned Leaves (B9) atterns (B10) hizospheres along Living Roots (C3)
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