WETLAND DETERMINATION DATA FORM - Alaska Region

Project/	Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 26-Aug-15
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW15_T346_05
Investig	pator(s): SLI. SCB		Landform (hill	side, terrac	e, hummocks etc.): Toeslope
Local re	elief (concave, convex, none): concave		Slope: 0.0		· ·
	ion : Interior Alaska Mountains	Lat.:			Long.: Datum: WGS84
_	p Unit Name:				NWI classification: PEM1E
	natic/hydrologic conditions on the site typical for this tir	mo of vo	ar? Ves	● No ○	(If no, explain in Remarks.)
Are Ve	egetation	significar naturally	ntly disturbed? problematic?	Are "N (If nee	ormal Circumstances" present? Yes No O ded, explain any answers in Remarks.)
SUMN	MARY OF FINDINGS - Attach site map show	ving sa	mpling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes ◉ No ◯)			
	Hydric Soil Present? Yes ● No ○)			pled Area
	Wetland Hydrology Present? Yes ◉ No ◯)	wi	ithin a W	etland? Yes ● No ○
Rema	rks:		·		
VEGE	TATION -Use scientific names of plants. Li	st all sp	pecies in the	plot.	
		Absolut	e Dominant	Indicator	Dominance Test worksheet:
	Stratum	% Cove		Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)
1.					Total Number of Dominant
2.					Species Across All Strata: 2 (B)
3.			_		Percent of dominant Species
4.		_			That Are OBL, FACW, or FAC: 100.0% (A/B)
5.			_		Prevalence Index worksheet:
	Total Cover:				Total % Cover of: Multiply by:
Sapl	ing/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cover:	0	OBL Species <u>81.1</u> x 1 = <u>81.1</u>
1.	Salix pulchra	2		FACW	FACW Species <u>4.1</u> x 2 = <u>8.2</u>
2.	Vaccinium uliginosum	1		FAC	FAC Species <u>1.1</u> x 3 = <u>3.300</u>
3.	Salix fuscescens	1		FACW	FACU Species0 x 4 =0
4.	Andromeda polifolia(IAM)	0.1	_ 🖳	OBL	UPL Species x 5 =0
5.	Salix richardsonii	0.1	_	FACW	Column Totals: <u>86.3</u> (A) <u>92.6</u> (B)
6.		0	- 📙		Prevalence Index = B/A =
7.		0	-		1.075
8.		0	-		Hydrophytic Vegetation Indicators:
9.		0	-		✓ Dominance Test is > 50%
10.	Title	0	_		✓ Prevalence Index is ≤3.0
Herl	Total Cover: 50% of Total Cover:			: 0.84	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
_	Friends and an austifalium	 50		OBL	Problematic Hydrophytic Vegetation (Explain)
	Carex aquatilis		_	OBL	Indicators of hydric soil and wetland hydrology must
3.	Trichophorum caespitosum	10		OBL	be present, unless disturbed or problematic.
	Carex rotundata	1		OBL	
	Eriophorum russeolum			FACW	Plot size (radius, or length x width) 10m
6.	Carex bigelowii	0.1		FAC	% Cover of Wetland Bryophytes (Where applicable)
7.					% Bare Ground
					Total Cover of Bryophytes 1
			_		
		0	_		Hydrophytic
	Total Cover:				Vegetation Present? Yes No
	50% of Total Cover: <u>4</u>	1.05 20)% of Total Cover:	16.42	Present? Yes • No ·
Rema	arks: wet sedge meadow with palsas. veg description	n only fo	r wet sedge. <5	% total shr	ub cover, thus no shrub species dominant.

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SOIL Sampling Point: SW15_T346_05

	Matrix	aea to aocume	nt the indicator or confi Red c	ox Featu		ators)		
Depth Color (mo	oist)	%	Color (moist)	%	Type ¹	_Loc_2	Texture	Remarks
0-12							Mucky Peat	
12-16							Muck	
				-			P	
							-	
¹ Type: C=Concentration. D	=Depletion. F	RM=Reduced	Matrix ² Location:	PL=Pore	Lining. RC	=Root Cha	nnel. M=Matrix	
Hydric Soil Indicators:		1	Indicators for Pro	blematic	Hydric So	oils:		
✓ Histosol or Histel (A1)		[Alaska Color Cha	nge (TA4	4)		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipedon (A2)		[Alaska Alpine sw	ales (TA5)		Underlying Layer	
✓ Hydrogen Sulfide (A4)		[Alaska Redox Wi	th 2.5Y H	ue		Other (Explain in Remark	ss)
☐ Thick Dark Surface (A12)		_					
Alaska Gleyed (A13)			One indicator of h and an appropriate				nary indicator of wetland h	ydrology,
Alaska Redox (A14)				•	•		ESCIIC	
Alaska Gleyed Pores (A1	5)		⁴ Give details of colo	or change	in Remark	(S		
Restrictive Layer (if present):								
Type:							Hydric Soil Present	? Yes ⊙ No O
Depth (inches):								
I								
HYDROLOGY								
HYDROLOGY Wetland Hydrology Indica	itors:						Secondary Indi	cators (two or more are required)
								cators (two or more are required) ned Leaves (B9)
Primary Indicators (any one Surface Water (A1)			Inundation Vis	ible on Ae	rial Image	ry (B7)	Water Stai	
Wetland Hydrology Indica Primary Indicators (any one ✓ Surface Water (A1) ✓ High Water Table (A2)			Sparsely Veget	tated Con	-	, , ,	☐ Water Stai☐ Drainage F☐ Oxidized R	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3)
Wetland Hydrology Indica Primary Indicators (any one ✓ Surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3)			Sparsely Veget Marl Deposits	tated Con (B15)	cave Surfac	, , ,	Water Stai Drainage F Oxidized R Presence of	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4)
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