## WETLAND DETERMINATION DATA FORM - Alaska Region

Tojec	t/Site: Susitna-Watana Hydroelectric Project		Boro	ough/City:	Matanusk	a-Susitna Borough Sampling Date: 22-Aug-15
Applic	ant/Owner: Alaska Energy Authority					Sampling Point: SW15_T210_08
	igator(s): WAD, SCB		La	ndform (hill:	side, terrac	e, hummocks etc.): abandoned slough
	relief (concave, convex, none): none			ope: 5.2		
	gion : Interior Alaska Mountains	Lat				Long.: Datum: WGS84
		Lai	··· —			
	ap Unit Name:				<u> </u>	NWI classification: PEM2F
	matic/hydrologic conditions on the site typical for this ti				● No ○	
	, ,	•	•	isturbed?		ormal olloamotarioco present:
Are \	Vegetation ☐ , Soil ☑ , or Hydrology ☐	natural	ly prob	lematic?	(If nee	eded, explain any answers in Remarks.)
BUM	MARY OF FINDINGS - Attach site map sho	wing s	sampl	ling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes   No C	)				
	Hydric Soil Present? Yes ● No C	)		Is	the Sam	pled Area
	Wetland Hydrology Present? Yes ● No C			wi	thin a W	'etland? Yes ⊙ No ○
Dom	arks:			ļ		
Keiii	aiks.					
/FG	ETATION - Use scientific names of plants. L	ict all	cnoci	os in tho	alat	
LO	ETATION - OSE SCIENTIFIC Harries of plants. L	ist all	speci	es iii tile	piot.	Barrian and Tank was desk and
_		Absol		Dominant Species?		Dominance Test worksheet:  Number of Dominant Species
1.	ee Stratum	_% Co	vei	Species	Status	That are OBL, FACW, or FAC:
2.			_			Total Number of Dominant
3.			_			Species Across All Strata:1 (B)
4.			_			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
5.		_	_			
0.	Total Cover					Prevalence Index worksheet:
Sai	pling/Shrub Stratum 50% of Total Cover:			Total Cover:	0	Total % Cover of: Multiply by:
Sa	julig/siliub stratum		2070 01			OBL Species 65.2 x 1 = 65.2
1.		_	_			FAC Species 15 x 2 = 30
2.		_	_			FAC Species 10 x 3 = 30 FACU Species 0 x 4 = 0
3.			_			
4.			_			UPL Species0 x 5 =0
5.		-	_			Column Totals: 90.2 (A) 125.2 (B)
6.		_	_			Prevalence Index = B/A =1.388_
7.		_	_			II. dan da di Vanakatina Tadinakana
8. 9.		_				Hydrophytic Vegetation Indicators:  ✓ Dominance Test is > 50%
10.		_	_			✓ Prevalence Index is ≤ 3.0
10.	Total Cover		— )			
Не	rb Stratum 50% of Total Cover:			f Total Cover	: 0	Morphological Adaptations (P <sup>1</sup> ovide supporting data in Remarks or on a separate sheet)
1.	Equisetum fluviatile	6	50	<b>✓</b>	OBL	Problematic Hydrophytic Vegetation (Explain)
	Carex saxatilis		15		FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3.	Calamagrostis canadensis		.0		FAC	be present, unless disturbed or problematic.
4.	Carex aquatilis		5		OBL	District (and the second secon
5.	Comarum palustre	_	.1		OBL	Plot size (radius, or length x width)  Cover of Wetland Bryophytes  10m
	Potamogeton gramineus	0	.1		OBL	(Where applicable)
6.			0			% Bare Ground
			0			
7.		_		_		Total Cover of Bryophytes5
7. 8.		_	0			Total Cover of Bryophytes5
7. 8. 9.						Hydrophytic
7. 8. 9.		. <u>90</u>	0 0 .2		18.04	

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SOIL Sampling Point: SW15\_T210\_08 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) **Redox Features** Depth <u>Loc</u> 2 (inches) Color (moist) Color (moist) Type <sup>1</sup> <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix <sup>2</sup> Location: PL=Pore Lining, RC=Root Channel, M=Matrix Indicators for Problematic Hydric Soils: **Hydric Soil Indicators:** Histosol or Histel (A1) Alaska Color Change (TA4) ☐ Alaska Gleyed Without Hue 5Y or Redder Underlying Layer Alaska Alpine swales (TA5) Histic Epipedon (A2) Alaska Redox With 2.5Y Hue ✓ Other (Explain in Remarks) Hydrogen Sulfide (A4) Thick Dark Surface (A12) <sup>3</sup> One indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, Alaska Gleved (A13) and an appropriate landscape position must be present Alaska Redox (A14) <sup>4</sup> Give details of color change in Remarks Alaska Gleyed Pores (A15) Restrictive Layer (if present): Yes ● No ○ Type: **Hydric Soil Present?** Depth (inches): Remarks: inundated, no pit. assume hydric soil. **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (two or more are required) Primary Indicators (any one is sufficient) Water Stained Leaves (B9) ✓ Surface Water (A1) Drainage Patterns (B10) ✓ Inundation Visible on Aerial Imagery (B7) High Water Table (A2) Oxidized Rhizospheres along Living Roots (C3) Sparsely Vegetated Concave Surface (B8) Saturation (A3) Presence of Reduced Iron (C4) Marl Deposits (B15) Water Marks (B1) Salt Deposits (C5) ☐ Hydrogen Sulfide Odor (C1) 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: Yes ● No ○ Surface Water Present? Depth (inches): 2

Depth (inches):

Depth (inches):

Yes ● No ○

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Wetland Hydrology Present?

Yes O No •

Yes ○ No ●

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:

Water Table Present?

(includes capillary fringe)

Saturation Present?

D2-abandoned slough

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Remarks: