WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Denali Bo	rough Sampling Date: 01-Aug-13								
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW13_T145_08								
	gator(s): SLI, EAC		Landform (hill	side, terrac	e, hummocks etc.): Swale								
Local re	elief (concave, convex, none): concave		Slope:	% / 1.7	° Elevation: 729								
	ion : Interior Alaska Mountains	Lat ·	63.40115571		Long.: -148.645269035 Datum: NAD83								
_	p Unit Name:	Lut	03.40113371		NWI classification: PEM1F								
	·			No ○	(If no, explain in Remarks.)								
Are V	Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation , soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)												
	Hydrophytic Vegetation Present? Yes ● No C)	_										
	Hydric Soil Present? Yes ● No C)			pled Area								
	Wetland Hydrology Present? Yes ● No ℂ)	within a Wetland? Yes ● No ○										
Remarks: snails, algae, and aquatic moss in this lowland hgwfs													
Tree	TATION - Use scientific names of plants. Li	st all sp Absolute M Cove	e Dominant		Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)								
1.		0			Total Number of Dominant								
2.		0			Species Across All Strata: (B)								
3.		0	_		Percent of dominant Species								
4.		0	_		That Are OBL, FACW, or FAC: 100.0% (A/B)								
5.		0	_		Prevalence Index worksheet:								
	Total Covers		_		Total % Cover of: Multiply by:								
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cover:	0	OBL Species <u>35.2</u> x 1 = <u>35.2</u>								
1.	Andromeda polifolia (IAM)	0.1		OBL	FACW Species <u>0</u> x 2 = <u>0</u>								
2.		0			FAC Species0 x 3 =0								
3.		_			FACU Species0 x 4 =0								
4.		0	_		UPL Species <u>0</u> x 5 = <u>0</u>								
5.		0	_		Column Totals: <u>35.2</u> (A) <u>35.2</u> (B)								
6.		0	_		Prevalence Index = B/A =								
7.		0	_		Trevalence index - B/A - 1.000								
8.		0	_		Hydrophytic Vegetation Indicators:								
		0	_		✓ Dominance Test is > 50%								
10.		0	_		✓ Prevalence Index is ≤3.0								
Her	Total Cover: 50% of Total Cover:		% of Total Cover	: 0.02	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)								
	Carex livida	15	_	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)								
	Eriophorum scheuchzeri		_	OBL	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.								
3.	Eriophorum angustifolium	5	-	OBL	be present, unless disturbed of problematic.								
4.	Trichophorum caespitosum	3	- =	OBL	Plot size (radius, or length x width)								
5.	Carex aquatilis	0.1		OBL OBL	% Cover of Wetland Bryophytes								
	Triglochin palustris		-	ODL	(Where applicable)								
			-		% Bare Ground 80								
			-		Total Cover of Bryophytes 20								
		0	-		Underwhite								
10.	Total Cover:				Hydrophytic Vegetation								
	50% of Total Cover:1			7.02	Present? Yes • No O								
Rem	arks: aquatic moss scorpoides scorpoidium. andpol o	on small h	nummocks. tota	l shrub cove	er <5%, thus no shrub species dominant.								
					·								

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SOIL Sampling Point: SW13_T145_08

		he depth need	ded to docume	ent the indicator or co	nfirm the ab		ators)		
Depth (inches)	Color (mo	ist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
						.,,,,			
								-	
									P-
	-				-			-	
¹Type: C=Co	ncentration. D=	Depletion. F		d Matrix ² Location				nnel. M=Matrix	
Hydric Soil Indicators: Indicators for Problematic Hydric Soils. ³						oils: ³			
Histosol o	r Histel (A1)			Alaska Color Ch	nange (TA	1) 4		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epip	edon (A2)			Alaska Alpine s	wales (TA	5)		Underlying Layer	
Hydrogen	Hydrogen Sulfide (A4)			☐ Alaska Redox With 2.5Y Hue					
Thick Darl	Surface (A12)			_					
Alaska Gle	eyed (A13)			³ One indicator of and an appropriat				nary indicator of wetland h	ydrology,
Alaska Re	dox (A14)			ани ан арргорнас	e iaiiusca _t	e position i	nust be pre	Sent	
Alaska Gle	eyed Pores (A15	5)		⁴ Give details of co	olor chang	e in Remark	S		
Restrictive Laye	er (if present):								
Type: froz	en							Hydric Soil Present	? Yes 🏵 No 🔾
Depth (incl	nes): 24							-	
HYDROLO	GY								
Wetland Hyd	rology Indica	tors:						Secondary Indi	cators (two or more are required)
Primary Indica	itors (any one i	s sufficient)						Water Stai	ned Leaves (B9)
✓ Surface V	Vater (A1)			☐ Inundation V	isible on A	erial Imager	ry (B7)	☐ Drainage F	atterns (B10)
High Water Table (A2)				Sparsely Veg		_		Oxidized R	hizospheres along Living Roots (C3)
Saturation (A3)				✓ Marl Deposits	s (B15)		. ,	Presence o	f Reduced Iron (C4)
☐ Water Marks (B1) ☐ Hydrogen Sulfic					lfide Odor	(C1)		Salt Depos	its (C5)
Sediment	Sediment Deposits (B2) Dry-Season Water Table (C2)							Stunted or	Stressed Plants (D1)
Drift Depo	☐ Drift Deposits (B3) ☐ Other (Explain in Remarks)							✓ Geomorph	ic Position (D2)
Algal Mat	Algal Mat or Crust (B4)							✓ Shallow Ac	uitard (D3)
✓ Iron Depo	osits (B5)							Microtopog	raphic Relief (D4)
Surface S	oil Cracks (B6)							✓ FAC-neutra	
Field Observa	ations:								
Surface Wate	r Present?	Yes 💿	No \bigcirc	Depth (inche	s): 6				
Water Table F	Present?	Yes 🔾	No 💿	Depth (inche	c).		Wetlan	nd Hydrology Presen	t? Yes 💿 No 🔾
Saturation Pre				, ,	•		- 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	, 5.55, 1.65611	
(includes capi		Yes O	No •	Depth (inche	s):				
Describe Recor	ded Data (strea	am gauge, n	nonitor well,	aerial photos, prev	vious inspe	ection) if ava	ilable:		
Remarks:									
	connectina non	ds. 6in surfa	ace water ov	er organic mat w n	narl denos	its, iron floc	, and bioge	nic sheen, punch through	mat to active layer at 24in bgs.
.omana swaic	connecting poin	asi siii suile	ACC TYUICE UV	c. organic mat w n	ucpus	,	, and bloge	Sheem puhen unough	to deare layer at 2 iii bys.

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