WETLAND DETERMINATION DATA FORM - Alaska Region

Project/	Site: Susitna-Watana Hydroelectric	Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date:24-Aug-15							
Applica	nt/Owner: Alaska Energy Authority					Sampling Point: SW15_T328_01							
nvestigator(s): SLI, TXC Landform (hillside, terrace, hummocks etc.): Shoulder slope													
Local relief (concave, convex, none): concave Slope: 1.7 % / 1.0 ° Elevation:													
Subreai	on: Cook Inlet Mountains		Lat.			Long.: Datum: WGS84							
	Unit Name:					NWI classification: Upland							
		.:		Voo	No O								
	natic/hydrologic conditions on the site ty egetation \Box , Soil \Box , or Hydr		•	ear? res antly disturbed?		(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○							
	egetation \square , Soil \square , or Hydr	· _	•	y problematic?		eded, explain any answers in Remarks.)							
					•								
SUMN	IARY OF FINDINGS - Attach sit	e map sho	wing s	ampling point	t locations	s, transects, important features, etc.							
Hydrophytic Vegetation Present? Yes ○ No ●													
	Hydric Soil Present? Ye	s O No @)		pled Area								
		s O No 🤄)	within a Wetland? Yes ○ No ●									
Remarks: alpine shoulder slope, low betnan in protected areas. numerous frost boils, high lichen cover.													
	.,				-, J								
/EGE	TATION - Use scientific names of	of plants. Li	ist all s	species in the	plot.								
			Absolu	ıta Daminant	Indicator	Dominance Test worksheet:							
Tree	Stratum		% Cov		Status	Number of Dominant Species							
1.						That are OBL, FACW, or FAC: 2 (A)							
2.						Total Number of Dominant Species Across All Strata: 5 (B)							
3.						Percent of dominant Species							
4.			_	_		That Are OBL, FACW, or FAC: 40.0% (A/B)							
5.			_	_		Prevalence Index worksheet:							
		Total Cover	: <u> </u>	_		Total % Cover of: Multiply by:							
Sapl	ing/Shrub Stratum 50% of To	tal Cover:	0 2	20% of Total Cover	r: <u>0</u>	OBL Species <u>0</u> x 1 = <u>0</u>							
1.	Arctous alpinus		5	~	FACU	FACW Species4 x 2 =8							
2.	Loiseleuria procumbens		5	✓	FACU	FAC Species <u>10</u> x 3 = <u>30</u>							
3.	Betula nana		5	✓	FAC	FACU Species <u>15.1</u> x 4 = <u>60.40</u>							
4	Empetrum nigrum		2		FAC	UPL Species <u>1</u> x 5 = <u>5</u>							
5.	Vaccinium vitis-idaea		2	<u>. </u>	FAC	Column Totals: <u>30.1</u> (A) <u>103.4</u> (B)							
6	Rhododendron tomentosum		1	_	FACW	Prevalence Index = B/A = 3.435							
-	Salix pulchra		1	_	FACW								
_	Vaccinium uliginosum		1		FAC	Hydrophytic Vegetation Indicators:							
_	Diapensia lapponica		1		UPL	☐ Dominance Test is > 50%							
10.	Salix arctica	T.1.16.	0.	_	FACU	Prevalence Index is ≤3.0							
Herh	Stratum 50% of To	Total Cover otal Cover:		.1 20% of Total Cove	er: 4.62	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)							
-	Anthoxanthum monticola ssp. alpinum	_		~	UPL	Problematic Hydrophytic Vegetation (Explain)							
-	Carex atrofusca				FACW	¹ Indicators of hydric soil and wetland hydrology must							
-	Carox arrondood		_			be present, unless disturbed or problematic.							
)		Plot size (radius, or length x width) 10m							
_						% Cover of Wetland Bryophytes (Where applicable)							
7.			C			% Bare Ground <u>10</u>							
				<u> </u>		Total Cover of Bryophytes							
9.													
10.)		Hydrophytic							
		Total Cover				Vegetation Present? Yes ○ No ●							
	50% of To	tal Cover:	3.5 2	20% of Total Cover	r: <u>1.4</u>	Present? Yes O No O							
Rema	trace pedicularis, anemone, betu boils.	la hybrid. 80%	% lichen	covercladonia	, cladina, fla	vocetraria? bare ground includes exposed rock and frost							

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SOIL Sampling Point: SW15_T328_01

		the depth ne	eded to docur	nent the indicator or co	nfirm the ab		ators)					
Depth (inches)	Color (mo	moist) %		Color (moist)	% Type ¹		_Loc_2	Texture	Remarks			
0-0.5			100			-77-		Hemic Organics	Oe horizon			
0.5-2	7.5YR	2.5/2	100				-	Silt Loam	A horizon			
								-				
2-3	10YR	3/3						Silt Loam	Bw horizon			
							-					
¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix												
Hydric Soil In	ndicators:			Indicators for Pr	oblemati	Hydric So	oils: ³					
Histosol or	Histel (A1)			☐ Alaska Color Change (TA4) ☐ Alaska Gleyed Without Hue 5Y or Redder								
Histic Epip	edon (A2)			Alaska Alpine s	wales (TA	5)		Underlying Layer				
Hydrogen	Sulfide (A4)			Alaska Redox V	Vith 2.5Y H	lue	L	Other (Explain in Remarks)				
Thick Dark	Surface (A12))		3 0 :					duala a			
Alaska Gle	yed (A13)			and an appropriat				mary indicator of wetland hesent	iyarology,			
Alaska Red	. ,					•	•					
,	yed Pores (A15	5)		⁴ Give details of co	DIOF CHAIR	e ili Kemark	.5					
Restrictive Laye	er (if present):								0 0			
Type:								Hydric Soil Present	? Yes ○ No •			
Depth (inch	ies):											
,												
HYDROLO												
Wetland Hydr	rology Indica	tors:						Secondary Indi	cators (two or more are required)			
Primary Indicat		s sufficient)					Water Stained Leaves (B9)				
Surface Water (A1)				Inundation V		_		☐ Drainage Patterns (B10)				
High Water Table (A2)				Sparsely Veg		cave Surfac	ce (B8)		hizospheres along Living Roots (C3)			
	Saturation (A3)				(B15)				of Reduced Iron (C4)			
Water Marks (B1)				☐ Hydrogen Su				Salt Depos				
Sediment Deposits (B2) Drift Deposits (B3)				☐ Dry-Season \					Stressed Plants (D1) ic Position (D2)			
_	or Crust (B4)			Other (Explai	n in Rema	rks)			juitard (D3)			
Iron Depo	, ,								graphic Relief (D4)			
	oil Cracks (B6)								al Test (D5)			
Field Observa								TAC ficult	11 1031 (133)			
Surface Water		Yes C	No 💿	Depth (inche	s):							
Water Table P			No 💿		•		Wetla	nd Hydrology Presen	t? Yes O No •			
		_	_	Depth (inche	s):		Wetia	ila Hyarology Fresen	it: les 🔾 NO 🔾			
Saturation Present? (includes capillary fringe) Yes No •			No 🖭	Depth (inche	s):							
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												
no wetland hydrology indicators												
	,	-										

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