WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampling Date: 24-Aug-15										
Applicant/Owner: Alaska Energy Authority		Sampling Point:SW15_T315_01										
Investigator(s): EKJ, SCB	Landform (hillsig	de, terrace, hummocks etc.): Ridgetop										
Local relief (concave, convex, none): convex	Slope: 8.7 %	% / 5.0 ° Elevation:										
Subregion : Cook Inlet Mountains	Lat.:	Long.: Datum: WGS84										
Soil Map Unit Name: NWI classification: Upland												
	ificantly disturbed? rally problematic?	 No ○ (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes ● No ○ (If needed, explain any answers in Remarks.) bocations, transects, important features, etc. 										
Hydrophytic Vegetation Present? Yes ● No ○ Hydric Soil Present? Yes ○ No ● Wetland Hydrology Present? Yes ○ No ●		he Sampled Area hin a Wetland? Yes ◯ No ◉										
Remarks: VEGETATION - Use scientific names of plants. List a	all species in the pl	lot.										
		Dominance Test worksheet: Status Number of Dominant Species That are OBL, FACW, or FAC: 4										
2.		Total Number of Dominant Species Across All Strata:5_(B)										

2.					Species Across All Strata: 5 (B)				
3.					Percent of dominant Species				
4.					That Are OBL, FACW, or FAC: 80.0% (A/B)				
5.									
	Total Cover:	0	_		Prevalence Index worksheet: Total % Cover of: Multiply by:				
San	ling/Shrub Stratum 50% of Total Cover: (0 2	.0% of Total Cover:	0					
		0							
	Empetrum nigrum	2(FAC					
2.	Betula nana	5		FAC	FAC Species <u>33.1</u> x 3 = <u>99.3</u>				
3.	Salix pulchra	5		FACW	FACU Species <u>8.2</u> x 4 = <u>32.8</u>				
4.	Cassiope tetragona			FACU	UPL Species x 5 =				
5.	Vaccinium uliginosum	5	\checkmark	FAC	Column Totals:(A)(B)				
6.	Loiseleuria procumbens	1		FACU					
7.	Arctous ruber	2		FAC	Prevalence Index = B/A = <u>3.067</u>				
8.	Rhododendron tomentosum	0.	1	FACW	Hydrophytic Vegetation Indicators:				
9.		0			✓ Dominance Test is > 50%				
10.		0			Prevalence Index is ≤3.0				
Total Cover: 43.1 Morphological Adaptations (Provide supporting data in									
Her	b Stratum 50% of Total Cover: 21	8.62	Remarks or on a separate sheet)						
1.	Artemisia norvegica	0.	1	FACU	Problematic Hydrophytic Vegetation (Explain)				
2.	Spinulum annotinum	1		FACU	¹ Indicators of hydric soil and wetland hydrology must				
3.	Festuca altaica	0.	1	FAC	be present, unless disturbed or problematic.				
4.	Anthoxanthum monticola ssp. alpinum	1		UPL					
5.	Carex bigelowii	1		FAC	Plot size (radius, or length x width) <u>10m</u>				
6.			1	FACU	% Cover of Wetland Bryophytes (Where applicable)				
7.					% Bare Ground 5				
					Total Cover of Bryophytes 0				
		0			Hydrophytic				
Total Cover: 33 Vegetation									
	50% of Total Cover: <u>1.65</u> 20% of Total Cover: <u>0.66</u> Present? Yes • No ·								
Rem	Remarks: dwarf ericaceous lichen, patches of low betnan, scattered salpul. no dominant herbs as total herb cover <5%.								
	wan encaceous inclen, patches of low bellian, scattered salpul. no dominant herbs as total herb cover <5%.								

		the depth ne Matrix	eded to docu	ument the indicator or confirm the absence of indicators) Redox Features			cators)			
Depth (inches)	Color (mo	ist)	%	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks	
0-2		_						Hemic Organics		
2-10	7.5YR	2.5/3	100					Loam	with semiangular gravel and cobbles	
10-19		4/4	100					Sandy Loam	with semiangular fine-coarse gravel	
		., .								
			,							
¹ Type: C=Cor	ncentration. D=	Depletion.	RM=Redu	ced Matrix ² Location		-		nnel. M=Matrix		
Hydric Soil I	ndicators:			Indicators for Pre	oblematio	Hydric S	oils: ³			
Histosol or	Histel (A1)			Alaska Color Ch	ange (TA4	ł) 4		Alaska Gleyed Without H	ue 5Y or Redder	
Histic Epip	edon (A2)			Alaska Alpine sv	wales (TA5	5)	_	Underlying Layer		
Hydrogen	Sulfide (A4)			Alaska Redox W	/ith 2.5Y F	lue		Other (Explain in Remarl	s)	
Thick Dark	Surface (A12))		3 On a lindlantan of					u des la su c	
🗌 Alaska Gle	yed (A13)			and an appropriat				nary indicator of wetland h esent	iyarology,	
Alaska Red	dox (A14)				-	-				
Alaska Gle	yed Pores (A1	5)		⁴ Give details of co	olor change	e in Remari	<s< td=""><td></td><td></td></s<>			
Restrictive Laye	er (if present):									
Type:								Hydric Soil Present	? Yes 🔿 No 🖲	
Depth (incl	nes):									
Remarks:							I			
no hydric soil ir	dicators									
,										
	<u></u>									
HYDROLO								Constant to the		
Wetland Hyd)						cators (two or more are required) ned Leaves (B9)	
Surface W		is sumclent	1	Inundation Vi	ciblo on A	orial Imago	m (P7)		Patterns (B10)	
	er Table (A1)			Sparsely Vege		5	, , ,		hizospheres along Living Roots (C3)	
Saturation				Marl Deposits			ce (D0)		f Reduced Iron (C4)	
Water Ma	. ,			Hydrogen Sul	. ,	(C1)		Salt Depos		
	Deposits (B2)			Dry-Season V					Stressed Plants (D1)	
				Other (Explain		• •		Geomorphic Position (D2)		
	or Crust (B4)								juitard (D3)	
Iron Depo								_	graphic Relief (D4)	
· ·	oil Cracks (B6)							_ ``	l Test (D5)	
Field Observa										
Surface Water	Present?	Yes C	No 🖲	Depth (inche	s):					
Water Table P	resent?	Yes \mathbb{C}	No 🖲	Depth (inche	c).		Wetlar	nd Hydrology Presen	t? Yes 🔿 No 🖲	
Saturation Pre				i v	,					
(includes capi		res \bigcirc	No 🖲	Depth (inche	s):					
Describe Recor	ded Data (stre	am gauge,	monitor w	ell, aerial photos, prev	ious inspe	ction) if av	ailable:			
Remarks:										
no hydrology ir	ndicators									