WETLAND DETERMINATION DATA FORM - Alaska Region

Project	t/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Denali Bo	orough Sampling Date: 31-Jul-13			
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T205_04			
• •	gator(s): SLI, EAC		Landform (hill	side, terrac	ee, hummocks etc.): Flat			
	relief (concave, convex, none): flat			% / 1.0				
	gion : Interior Alaska Mountains	l at ·	63.36864233		Long.: -148.793114543 Datum: WGS84			
	ap Unit Name:	Lat	03.30004233		NWI classification: PSS1B			
	matic/hydrologic conditions on the site typical for this ti		-0 Voo	No ○	(If no, explain in Remarks.)			
Are V	/egetation ☐ , Soil ☐ , or Hydrology ☐ /egetation ☐ , Soil ☐ , or Hydrology ☐ //egetation ☐ //egeta	significantl naturally p wing sar	y disturbed? roblematic?	Are "N (If nee	lormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.)			
			Is	the Sam	npled Area			
	0 0				/etland? Yes ● No ○			
	Wetland Hydrology Present? Yes No							
	erks: ETATION - Use scientific names of plants. L	ist all spe		plot.	Dominance Test worksheet:			
	e Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)			
	Picea glauca	0.1	. 🔲	FACU	Total Number of Dominant			
2.		0	. 📙		Species Across All Strata:3 (B)			
3.		0	. 📙		Percent of dominant Species			
4.		0			That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.	Tatal Course				Prevalence Index worksheet:			
	Total Cover			0.02	Total % Cover of: Multiply by:			
Sap	lling/Shrub Stratum 50% of Total Cover:	0.05 20%	o or rotal cover:	0.02	OBL Species 0 x 1 = 0			
1.	Picea glauca	0.1	. 📙	FACU	FACW Species 17 x 2 = 34			
2.	Betula nana			FAC	FACUS pages 2 4 7			
3.	Salix pulchra	1		FACW	FACU Species 0.1 x 4 = 0.400 UPL Species 0 x 5 = 0			
4.	Empetrum nigrum	. 15	·	FAC				
5.	Vaccinium uliginosum		. 🔻	FACW	Column Totals: <u>85.1</u> (A) <u>238.4</u> (B)			
6.	Ledum decumbens Vaccinium vitis-idaea	. <u>15</u> 5		FAC	Prevalence Index = B/A =			
	Betula glandulosa	. <u> </u>	·	FAC	Hydrophytic Vegetation Indicators:			
	Detail giamoliosa	0		1710	Dominance Test is > 50%			
		0			✓ Prevalence Index is ≤3.0			
	Total Cover b Stratum 50% of Total Cover:			: 15.42	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
1.	Carex bigelowii	7	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)			
	Rubus chamaemorus			FACW	¹ Indicators of hydric soil and wetland hydrology must			
3.					be present, unless disturbed or problematic.			
					Plot size (radius, or length x width) 10m			
					Plot size (radius, or length x width) 10m % Cover of Wetland Bryophytes			
6.		0			(Where applicable)			
					% Bare Ground <u>10</u>			
					Total Cover of Bryophytes			
10.	Takal Carre				Hydrophytic			
	Total Cover 50% of Total Cover:		6 of Total Cover:	1.6	Vegetation Present? Yes ● No ○			
	30/0 UI TULAI CUVEI.	4 ZU/	- or rotar cover.	1.0				

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SOIL Sampling Point: SW13_T205_04

		the depth no	eeded to docum	ent the indicator or co	nfirm the ab		ators)				
Depth (inches)	Color (mo	iet)	<u></u> %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-3	5YR	2.5/2	100	Color (moist)	_/0_	Турс	LUC	Fibric Organics			
3-6	5YR	2.5/1	100					Hemic Organics			
-					-						
6-11	7.5YR	3/2						Sapric Organics	w some mineral content		
							-				
¹Type: C=Cor	ncentration. D=	=Depletion	. RM=Reduce	d Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	annel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	c Hydric So	oils: ³				
Histosol or	r Histel (A1)			Alaska Color Ch	nange (TA	4 1)		Alaska Gleyed Without H	ue 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		Other (Explain in Remark	s)		
☐ Thick Dark	Surface (A12))		3							
Alaska Gle	eyed (A13)			One indicator of and an appropriat	hydrophyt e landscar	ic vegetatio ne position r	n, one prin	mary indicator of wetland h	ydrology,		
Alaska Red	dox (A14)							cocine			
	eyed Pores (A1			⁴ Give details of co	olor chang	e in Remark	.s				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	? Yes ● No O		
Depth (inch	ies):										
60% subrounde	-										
HYDROLO											
Wetland Hydi								Secondary Indi	cators (two or more are required)		
Primary Indica		is sufficien	t)					Water Stained Leaves (B9)			
						/isible on Aerial Imagery (B7)					
✓ High Wate	Sparsely Veg		ncave Surfac	ce (B8)		hizospheres along Living Roots (C3)					
Saturation	. ,			Marl Deposits	` '			_	f Reduced Iron (C4)		
Water Ma				☐ Hydrogen Su		` '		☐ Salt Depos			
	Deposits (B2)			Dry-Season \					Stressed Plants (D1) ic Position (D2)		
☐ Drift Depo	or Crust (B4)			U Other (Explai	n in Kema	rks)			juitard (D3)		
Iron Depo								_	graphic Relief (D4)		
	oil Cracks (B6)								Il Test (D5)		
Field Observa									11 1031 (123)		
Surface Water		Yes C	No ●	Depth (inche	s):						
Water Table P			No O		•		Wotla	nd Hydrology Presen	t? Yes • No O		
				Depth (inche	s): 10		Wetia	na nyarology Presen	ti les 🤄 NO 🗢		
Saturation Pre (includes capil	llary fringe)		No O	Depth (inche							
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											
small scattered pools of open water, appear relatively permanent (bare substrates, aquatic moss scosco). do not think these meet intent of surface water (a1).											

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