WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	В	Borough/City:	Denali Bo	orough Sampling Date: 06-Aug-13				
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T148_05				
	gator(s): SLI, EAC	side, terrac	e, hummocks etc.): Footslope						
	relief (concave, convex, none): hummocky		Selevation: 732						
		L at :	Slope:						
	gion : Interior Alaska Mountains	Lat							
	ap Unit Name:				NWI classification: PSS1B				
	matic/hydrologic conditions on the site typical for this t	•		● No ○	(If no, explain in Remarks.)				
		•	y disturbed?		ionnal oli cametanoco procont.				
Are \	/egetation ☐ , Soil ☐ , or Hydrology ☐	naturally pr	roblematic?	(If nee	eded, explain any answers in Remarks.)				
BUMI	MARY OF FINDINGS - Attach site map sho	wing san	npling point	locations	s, transects, important features, etc.				
	Hydrophytic Vegetation Present? Yes No								
	Hydric Soil Present? Yes ● No C		Is	Is the Sampled Area					
	Wetland Hydrology Present? Yes No	_	within a Wetland? Yes ● No ○						
Rem	arks: may have burned in past? few small saplings/tre		shrubs on hial	n points, ot	herwise dwarf shrubs comprise woody vegetation.				
	ETATION - Use scientific names of plants. L	Absolute	Dominant	Indicator	Dominance Test worksheet:				
	e Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)				
1.					Total Number of Dominant				
2.					Species Across All Strata: 4 (B)				
3.					Percent of dominant Species				
4.					That Are OBL, FACW, or FAC: 100.0% (A/B)				
5.	Tatal Causa				Prevalence Index worksheet:				
	Total Cover		of Total Covers		Total % Cover of: Multiply by:				
Sap	bling/Shrub Stratum 50% of Total Cover:	_0 20%	of Total Cover:	0	OBL Species x 1 =				
1.	Empetrum nigrum	25	✓	FAC	FACW Species 10.2 x 2 = 20.40				
2.	Betula nana	15	✓	FAC	FAC Species 67 x 3 = 201				
3.	Vaccinium vitis-idaea	10		FAC	FACU Species <u>0.1</u> x 4 = <u>0.400</u>				
4.	Vaccinium uliginosum			FAC	UPL Species <u>0</u> x 5 = <u>0</u>				
5.	Rhododendron tomentosum	0.1		FACW	Column Totals: <u>84.3</u> (A) <u>228.8</u> (B)				
6.					Prevalence Index = B/A = 2.714				
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					✓ Dominance Test is > 50%				
10.					✓ Prevalence Index is ≤3.0				
Hei	Total Cover rb Stratum 50% of Total Cover:			: 11.42	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)				
1.	Carex bigelowii		✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)				
2.	Eriophorum vaginatum		✓	FACW	¹ Indicators of hydric soil and wetland hydrology must				
3.	Rubus chamaemorus			FACW	be present, unless disturbed or problematic.				
4.	Carex rotundata			OBL	Plot size (radius, or length x width)				
5.	Carex aquatilis			OBL	% Cover of Wetland Bryophytes				
6.	Eriophorum angustifolium	2		OBL	(Where applicable)				
7.	Anthoxanthum monticola ssp. alpinum			UPL FACW	% Bare Ground10				
8.	Arctagrostis latifolia			- ACVV	Total Cover of Bryophytes				
^									
9.		0			Hydrophytic Vegetation				
9. 10.									
		: <u>27.2</u>	of Total Cover:	5.44	Vegetation Present? Yes No				

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SOIL Sampling Point: SW13_T148_05

Profile Descripti	on: (Describe to	the depth ne	eded to docum	nent the indicator or co	onfirm the at	sence of indic	ators)		10mt. 51115_1140_55		
Depth Description		Matrix			dox Featu						
(inches)	Color (mo	oist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-8	2.5YR	2.5/2	100					Sapric Organics	possible charcoal at 5in bgs.		
8-13	7.5YR	3/2	100					Silty Clay Loam			
13-17	7.5YR	2.5/2	100		-			Clay Loam			
17-18								Fine Sandy Loam			
					-						
									-		
-											
¹Type: C=Cor	ncentration. D	=Depletion	. RM=Reduce	ed Matrix ² Location		_		nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pr		4	oils: ³				
Histosol or	Histel (A1)			Alaska Color Cl		-		Alaska Gleyed Without H	ue 5Y or Redder		
✓ Histic Epip	edon (A2)			Alaska Alpine s	•	•		Underlying Layer			
Hydrogen	Sulfide (A4)			☐ Alaska Redox \	Nith 2.5Y I	Hue		Other (Explain in Remark	(S)		
	Surface (A12	2)		3 One indicator of	· hydronhy	tic vegetatio	n one nrin	nary indicator of wetland h	vydrology		
Alaska Gle				and an appropriat					ydrology,		
☐ Alaska Red	` '	_,		4 Give details of co	olor chang	ıe in Remark	s				
☐ Alaska Gle	yed Pores (A1	5)				, c					
Restrictive Laye	er (if present):										
	ve layer (froze	n)						Hydric Soil Present	? Yes ● No O		
Depth (inch	nes): 20										
Remarks:											
HYDROLO	GY										
Wetland Hydi	rology Indica	ators:						Secondary Indi	cators (two or more are required)		
Primary Indica	tors (any one	is sufficient	t)						ned Leaves (B9)		
Surface W	/ater (A1)			☐ Inundation V	isible on A	Aerial Imager	ry (B7)	(B7) Drainage Patterns (B10)			
High Wate	er Table (A2)	Sparsely Veg	jetated Co	ncave Surfac	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)				
✓ Saturation	n (A3)			Marl Deposit	s (B15)			Presence of	of Reduced Iron (C4)		
☐ Water Ma	rks (B1)			Hydrogen Su	ılfide Odor	(C1)		☐ Salt Depos	its (C5)		
Sediment		✓ Dry-Season \	Water Tab	le (C2)		☐ Stunted or	Stressed Plants (D1)				
Drift Depo	osits (B3)			Other (Expla	in in Rema	arks)		Geomorph	ic Position (D2)		
Algal Mat	or Crust (B4)							✓ Shallow Ac	uitard (D3)		
☐ Iron Depo	sits (B5)								graphic Relief (D4)		
Surface So	oil Cracks (B6))						✓ FAC-neutra	l Test (D5)		
Field Observa	ations:										
Surface Water	Present?		No 💿	Depth (inche	es):						
Water Table P	resent?	Yes 🤄	No 🔾	Depth (inche	es): 18		Wetla	nd Hydrology Presen	t? Yes 💿 No 🔾		
Saturation Pre		Yes 🧿	No O	Depth (inche	-s)· 10						
(includes capi				' '							
Describe Recor	ded Data (stre	eam gauge,	monitor well	l, aerial photos, pre	vious inspe	ection) if ava	ilable:				
Remarks:											

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