WETLAND DETERMINATION DATA FORM - Alaska Region

. 0,00	t/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Denali Bo	rough Sampling Date: 08-Aug-13			
Applica	ant/Owner: Alaska Energy Authority			Sampling Point: SW13_T146_04				
nvesti	gator(s): SLI, EAC	lside, terrac	ce, hummocks etc.): Footslope					
_ocal r	relief (concave, convex, none): flat		Slope: 1.7	% / 1.0	- ·			
	gion : Interior Alaska Mountains	lat: 6	33.383072138	_ —	Long.: -148.743862152 Datum: WGS84			
	ap Unit Name:		J3.303072130	<u> </u>	NWI classification: PEM1B			
	•			● No ○				
Are V	regetation ☐ , Soil ☐ , or Hydrology ☐ MARY OF FINDINGS - Attach site map sho	significantly naturally pro wing sam	disturbed?	Are "N (If nee	(If no, explain in Remarks.) formal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes No	nlad Araa						
	Hydric Soil Present? Yes No)						
	Wetland Hydrology Present? Yes No)	within a Wetland? Yes ● No ○					
	narks: brighter green forest signature. level, no swale ETATION - Use scientific names of plants. L			plot.				
					Dominance Test worksheet:			
Tre	e Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species			
	Picea glauca	10	V	FACU	That are OBL, FACW, or FAC:5(A)			
2.		0			Total Number of Dominant Species Across All Strata: 6 (B)			
3.		0			Percent of dominant Species			
4.					That Are OBL, FACW, or FAC: 83.3% (A/B)			
5.		0			Prevalence Index worksheet:			
	Total Cover	10			Total % Cover of: Multiply by:			
Sap	oling/Shrub Stratum 50% of Total Cover:	5 20%	of Total Cover	:2	OBL Species $0 \times 1 = 0$			
1	Diago glavas	3		FACU	FACW Species ####; x 2 = 16.40			
2.	Picea glauca Betula glandulosa	3		FAC	FAC Species 77.1 x 3 = 231.3			
3.	Salix reticulata	5	<u>✓</u>	FAC	FACU Species 13.1 x 4 = 52.40			
4.	Arctostaphylos rubra	5	✓	FAC	UPL Species 0 x 5 = 0			
5.	Ledum groenlandicum	3	Π	FAC				
6.	Vaccinium uliginosum	2		FAC	Column Totals: <u>98.4</u> (A) <u>300.1</u> (B)			
7.	Vaccinium vitis-idaea	1		FAC	Prevalence Index = B/A = 3.050			
8.	Empetrum nigrum	3		FAC	Hydrophytic Vegetation Indicators:			
9.	Salix pulchra	7	✓	FACW	✓ Dominance Test is > 50%			
		0			Prevalence Index is ≤3.0			
	Total Cover b Stratum 50% of Total Cover:		of Total Cover	r: 6.4	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
1.	Equisetum arvense		~	FAC	Problematic Hydrophytic Vegetation (Explain)			
2.	Tephroseris atropurpurea	0.1		FAC	¹ Indicators of hydric soil and wetland hydrology must			
3.	Carex bigelowii	-	~	FAC	be present, unless disturbed or problematic.			
4.	Rubus chamaemorus	-		FACW	Plot size (radius, or length x width)			
5.	Petasites frigidus	0.1		FACW	% Cover of Wetland Bryophytes			
6.	Equisetum scirpoides			FACU	(Where applicable)			
7.	Arctagrostis latifolia			FACW	% Bare Ground5			
8.		•			Total Cover of Bryophytes90			
		0 0						
10.	Takal Carre				Hydrophytic			
	Total Cover 50% of Total Cover:		of Total Cover	. 11 20	Vegetation Present? Yes ● No ○			
Rem	harks: both carbig and carsty? collected, split cover if trace pedicularis			11.20	1			

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SOIL Sampling Point: SW13_T146_04

									-· r -	10mt. 5W15_1140_64		
	ion: (Describe to	the depth ne	eded to docum	nent the inc		firm the ab ox Featu		ators)				
Depth (inches)	Color (me		%	Color (n		_%_	Type ¹	Loc ²	Texture	Remarks		
0-5	5YR	2.5/2	100						Fibric Organics			
5-6	5YR	3/2	100						Hemic Organics			
6-7	 5Y	3/1	90	5YR	4/4	10	С	PL	Silty Clay			
7-14	2.5YR	2.5/1	100						Hemic Organics			
14-15	10YR	3/3	85 85	5YR	5/6	15	С	PL	Silt Loam			
								-				
								-	-			
¹Type: C=Cor	ncentration. D	=Depletion.	RM=Reduce	ed Matrix	² Location:	: PL=Por	e Lining. RC	=Root Cha	annel. M=Matrix			
Hydric Soil I	ndicators:			Indicat	tors for Pro	blemati	c Hydric S	oils: ³				
Histosol or	r Histel (A1)			Alas	ska Color Cha	ange (TA	4) ⁴		Alaska Gleyed Without Hu	ue 5Y or Redder		
✓ Histic Epip	edon (A2)			Alas	aska Alpine swales (1A5)				Underlying Layer			
Hydrogen	Sulfide (A4)			Alas	ska Redox W	ith 2.5Y H	Hue		Other (Explain in Remark	5)		
	k Surface (A12	.)		3 ∩ne i	ndicator of h	nvdronhv	tic vegetatio	n one nrir	mary indicator of wetland hy	vdrology		
Alaska Gle					appropriate					, droiogy,		
✓ Alaska Red	, ,	r\		4 Give	details of col	lor chang	e in Remark	(S				
	eyed Pores (A1											
Restrictive Laye										• v		
Type: active Depth (inch	•								Hydric Soil Present?	? Yes ⊙ No O		
, ,	165). 15							Ţ				
Remarks:												
HYDROLO	~v											
Wetland Hyd		ators:							Secondary Indic	rators (two or more are required)		
Primary Indica)							ned Leaves (B9)		
Surface W	Vater (A1)			☐ In	undation Vis	sible on A	erial Image	ry (B7)		atterns (B10)		
					Sparsely Vegetated Concave Surface (B8)					nizospheres along Living Roots (C3)		
✓ Saturation (A3)					arl Deposits	(B15)			Presence of	Reduced Iron (C4)		
☐ Water Ma	☐ Water Marks (B1)					fide Odor	(C1)		Salt Deposi	ts (C5)		
Sediment	Deposits (B2)			✓ Dry-Season Water Table (C2)					Stunted or	Stressed Plants (D1)		
Drift Depo				Other (Explain in Remarks)						c Position (D2)		
	or Crust (B4)								Shallow Aqı			
☐ Iron Depo	` '									raphic Relief (D4)		
	oil Cracks (B6)	1						1	☐ FAC-neutral	Test (D5)		
Field Observa Surface Water		Vac (No 💿	D.	epth (inches	۸,						
			No O			•		14/otlo	Usadasalama Droconi	t? Yes • No O		
Water Table F				De	epth (inches): 14		Wetia	nd Hydrology Present	:? Yes ♥ No ∪		
Saturation Pre (includes capi		Yes •	No O	De	epth (inches): 11						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												

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