WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project Borough/City: Denali Borough Applicant/Owner: Alaska Energy Authority	Sampling Date: 08-Aug-13									
	Sampling Point: SW13_T146_05									
Investigator(s): SLI, EAC Landform (hillside, terrace, hum										
	Elevation: 688									
	: -148.746973275 Datum: NAD83									
Soil Map Unit Name:										
	NWI classification: Upland									
Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal of	(If no, explain in Remarks.) Circumstances" present? Yes No xplain any answers in Remarks.) sects, important features, etc.									
S Is the Sampled	Is the Sampled Area									
Hydric Soil Present? res O No O within a Wetland	within a Wetland? Yes ○ No ●									
Wetland Hydrology Present? Yes No										
	inance Test worksheet:									
Tree Stratum % Cover Species? Status Numb	ber of Dominant Species are OBL, FACW, or FAC: 4 (A)									
1. Picea glauca 7 🗸 FACU	are OBL, FACW, or FAC:4(A) Number of Dominant									
	ies Across All Strata:5(B)									
	ent of dominant Species									
	Are OBL, FACW, or FAC: 80.0% (A/B)									
	llence Index worksheet:									
	Total % Cover of: Multiply by:									
	OBL Species x 1 =0									
1. Tica glada	FACW Species 2 x 2 = 4									
2. Betala giaridalosa	FAC Species <u>115.1</u> x 3 = <u>345.3</u>									
	FACU Species <u>16</u> x 4 = <u>64</u>									
	UPL Species <u>0</u> x 5 = <u>0</u>									
	Column Totals: <u>133.1</u> (A) <u>413.3</u> (B)									
6. Rhododendron groenlandicum 3 FAC 5 Automorphism 5 FAC	Prevalence Index = B/A = 3.105									
7. Arctous ruber 5 FAC 8. Dasiphora fruticosa 1 FAC Hydro										
	ophytic Vegetation Indicators: Dominance Test is > 50%									
	Prevalence Index is ≤3.0									
	Morphological Adaptations ¹ (Provide supporting data in									
Herb Stratum50% of Total Cover:56.520% of Total Cover:22.6	Remarks or on a separate sheet)									
1. Festuca altaica 5 FAC	Problematic Hydrophytic Vegetation ¹ (Explain)									
2. Carex scirpoidea 2 FACU ¹ Indic	cators of hydric soil and wetland hydrology must									
3. Carex bigelowii 5 FAC be pr	esent, unless disturbed or problematic.									
4. Saussurea angustifolia 1 FAC Plot s	ize (radius, or length x width)									
5. Tephroseris atropurpurea	over of Wetland Bryophytes									
	re applicable)									
	re Ground <u>5</u>									
	Cover of Bryophytes 80									
9	or and the state of									
10 0	rophytic									
10 Hyd Vego	ropnytic etation sent? Yes • No O									

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SOIL Sampling Point: SW13_T146_05

										, rome: 50015_11+0_05	
Profile Descripti	ion: (Describe to		eeded to docu	ıment the inc				ators)			
Depth (inches)	Color (moist)			Color (moist)		ox Featu %	Type 1	_Loc_ ²	- Texture	Remarks	
0-2	5YR	3/2	100	,	10130,		1,000		Fibric Organics		
2-5			100						Hemic Organics		
	2.5YR	2.5/1								-	
5-15	10YR	4/2	80	5YR	5/6	20	_ <u>C</u>	PL	Fine Loamy Sand	Doesn't mean Alaska Redox specifications.	
15-20	5Y	5/2	100						Fine Sand	Yellow color due to parent material - not gl	
-						-		-	-	. ———	
									-		
¹ Type: C=Cor	ncentration. D=	-Depletion	. RM=Redu	ced Matrix	² Location	: PL=Por	e Lining. RC	C=Root Cha	annel. M=Matrix		
Hydric Soil I	ndicators:			Indicat	ors for Pro	blemati	c Hydric So	oils: ³			
Histosol or	r Histel (A1)			Alas	ka Color Ch	ange (TA	4)		Alaska Gleyed Without H	ue 5Y or Redder	
Histic Epip	` '			Alas	ka Alpine sv	vales (TA!	5)		Underlying Layer		
	Sulfide (A4)			Alas	ka Redox W	/ith 2.5Y I	Hue		Other (Explain in Remarks)		
l — ' · ·	Surface (A12))									
Alaska Gle									mary indicator of wetland h	ydrology,	
Alaska Red				and an	appropriate	3 lanusca _l	pe position r	must be pre	esent		
	eyed Pores (A1	5)		4 Give	details of co	lor chang	e in Remark	(S			
Restrictive Laye										:? Yes ○ No •	
Type: activ	,								Hydric Soil Present	:? Yes ○ No •	
Depth (inch	nes): 26										
10% subrounded cobbles in lowest horizon. no hydric soil indicators.											
HYDROLO	GY										
Wetland Hyd		tors:							Secondary Indi	icators (two or more are required)	
Primary Indica			t)						Water Stained Leaves (B9)		
Surface W	Vater (A1)			In	undation Vi	sible on A	Aerial Image	ry (B7)	(B7) Drainage Patterns (B10)		
	er Table (A2)						ncave Surfac	, , ,		Rhizospheres along Living Roots (C3)	
Saturation				Marl Deposits (B15)				()	Presence of Reduced Iron (C4)		
☐ Water Ma					/drogen Sulf	` '	(C1)		Salt Deposits (C5)		
	Deposits (B2)				y-Season W				Stunted or Stressed Plants (D1)		
☐ Drift Depo	,				her (Explair					ic Position (D2)	
	or Crust (B4)						,			quitard (D3)	
☐ Iron Depo	` ,									graphic Relief (D4)	
Surface S	oil Cracks (B6)									al Test (D5)	
Field Observa											
Surface Water		Yes C	No ●	D _f	epth (inches	s):					
Water Table P			No ●			•		Wetla	nd Hydrology Presen	nt? Yes O No 💿	
Saturation Pre				De	epth (inches	s):		VV CLIG	ila Hyarology Fresch	iti ies 🔾 iiu 🔾	
(includes capi		Yes 🤇	No 💿	De	epth (inches	s):					
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Domanico.											
Remarks:	t to indicate	_									
no wetland hyd	drology indicate	ors									

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