WETLAND DETERMINATION DATA FORM - Alaska Region

Project/	/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Denali Bo	orough Sampling Date: 06-Aug-13						
Applica	nt/Owner: Alaska Energy Authority		-	Sampling Point: SW13_T160_05							
Investigator(s): CTS, AMD Landform (hillside, terrace, hummocks etc.): Swale Local relief (concave, convex, none): flat Slope: 3.0 % / 1.7 ° Elevation: 704											
	ion : Interior Alaska Mountains	Lat:									
_		Lat	63.367900372	<u>′</u>							
	p Unit Name:		,	<u> </u>	NWI classification: PSS1B						
Are Vo	egetation , Soil , or Hydrology r	significantly naturally pr ving sam	y disturbed? oblematic?	(If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.						
Is the Sampled Area											
	· · · · · · · · · · · · · · · · · · ·		within a Wetland? Yes ● No ○								
	Wetland Hydrology Present? Yes ● No C)									
	TATION -Use scientific names of plants. Li	Absolute	Dominant	Indicator	Dominance Test worksheet:						
	Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)						
	Picea glauca	15	✓	FACU	Total Number of Dominant						
2.					Species Across All Strata:5(B)						
3.					Percent of dominant Species That Are OBL, FACW, or FAC: 80,0% (A/B)						
4. 5.					That Are OBL, FACW, or FAC: <u>80.0%</u> (A/B)						
J.	Total Cover:				Prevalence Index worksheet:						
CI			of Total Cover:	2	Total % Cover of: Multiply by:						
		7.5 20%	—	3	OBL Species <u>5</u> x 1 = <u>5</u>						
1.	Picea glauca	5		FACU	FACW Species 36 x 2 = 72						
	Salix richardsonii		✓	FACW	FACUS pages 23 x 3 = 354						
	Vaccinium uliginosum	25	✓	FAC	FACU Species 20 x 4 = 80 UPL Species 0 x 5 = 0						
	Salix reticulata	30	✓	FAC							
	Ledum groenlandicum			FAC	Column Totals: <u>179</u> (A) <u>511</u> (B)						
	Ledum decumbens	<u>5</u>		FACW	Prevalence Index = B/A =2.855_						
	Vaccinium vitis-idaea	2	H	FAC	H. J. J. P. W. J. P. P. J. P.						
-	Salix pulchra	8		FAC FACW	Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%						
	Dasiphora fruticosa	1	Ä	FAC	✓ Prevalence Index is ≤ 3.0						
10.	Total Cover:			1710	Morphological Adaptations ¹ (Provide supporting data in						
Herl	50% of Total Cover:		6 of Total Cover	23.2	Remarks or on a separate sheet)						
1.	Arctostaphylos rubra	4		FAC	Problematic Hydrophytic Vegetation (Explain)						
2.	Carex aquatilis	5		OBL	¹ Indicators of hydric soil and wetland hydrology must						
3.	Equisetum arvense	30	✓	FAC	be present, unless disturbed or problematic.						
4.	Carex bigelowii	_		FAC	Plot size (radius, or length x width)						
5.	Tofieldia pusilla	_1_		FAC	% Cover of Wetland Bryophytes						
6.	Arctagrostis latifolia	1		FACW	(Where applicable)						
7.	Rubus chamaemorus			FACW	% Bare Ground						
8.					Total Cover of Bryophytes 80						
10.	Tetal Covers			Hydrophytic							
	Total Cover: 50% of Total Cover:		of Total Cover:	9.6	Vegetation Present? Yes ● No ○						
_					1						
Rema	arks: Lichen = 10, Vacoxy = 0.1	<u> </u>			·						

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SOIL Sampling Point: SW13_T160_05

Profile Descript	ion: (Describe to		eded to docur	nent the inc				cators)		10mc. 50015_1100_05		
Depth (inches)		Matrix				ox Featu		. 2		Do-marko		
(inches) 0-5	Color (m	ioist)	<u>%</u>	Color (m	oist)	<u>%</u>	Type ¹	<u>Loc</u> ²	Hemic Organics	Remarks		
									Fibric Organics			
5-8												
8-12	5Y		80	7.5YR	4/6	20	_ <u>C</u>	PL	Silt Loam	Very fibric		
¹Type: C=Co	ncentration. D	=Depletion	RM=Reduce	ed Matrix	² Location	: PL=Pore	e Lining. RO	=Root Cha	annel. M=Matrix			
Hydric Soil I	ndicators:			Indicat	ors for Pro	blematio	c Hydric S	oils: ³				
4								Alaska Gleyed Without H	ue 5Y or Redder			
Histic Epip	edon (A2)			Alasl	ka Alpine sv	vales (TA	5)		Underlying Layer			
Hydrogen	Sulfide (A4)			Alasi	ka Redox W	ith 2.5Y H	lue		Other (Explain in Remark	rs)		
	c Surface (A12	2)		3 ∩ne ir	dicator of h	hydronhyt	ic vegetatio	n one nrin	mary indicator of wetland h	vydrology		
Alaska Gle							e position i			yurology,		
✓ Alaska Re	. ,	15)		4 Give o	etails of co	lor change	e in Remark	KS .				
	eyed Pores (A1											
Restrictive Laye	,	:										
Type: Acti	•								Hydric Soil Present	? Yes ● No O		
Depth (inches): 12												
Remarks:												
HYDROLO	GY											
Wetland Hyd										cators (two or more are required)		
Primary Indica		is sufficient	:)						· ·			
	Vater (A1)						erial Image					
✓ High Wat	, ,						ncave Surfa	ce (B8)		hizospheres along Living Roots (C3)		
✓ Saturation (A3)					│ Marl Deposits (B15) │ Hydrogen Sulfide Odor (C1)					f Reduced Iron (C4)		
☐ Water Ma		`							☐ Salt Depos			
	Deposits (B2))			y-Season W				✓ Geomorphi	Stressed Plants (D1)		
☐ Drift Depo				□ Ot	ner (Explair	ı ın Rema	rks)			` '		
☐ Algai Mat	or Crust (B4)								✓ Shallow Aq			
	oil Cracks (B6	3							FAC-neutra	graphic Relief (D4)		
Field Observa		')							TAC fledut	ii rest (D3)		
Surface Wate		Yes C	No •	De	pth (inches	s):						
Water Table F			No O			•		Wetla	nd Hydrology Presen	t? Yes • No O		
Saturation Pre				De	pth (inches	5): 10		Weda	na riyarology r resen	ti les 🔾 No 🔾		
(includes capi		Yes •	No 🔾	De	pth (inches	s): 5						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												

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