WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	В	Borough/City:	Denali Bo	orough Sampling Date: 03-Aug-13			
Applica	int/Owner: Alaska Energy Authority				Sampling Point: SW13_T159_05			
	gator(s): CTS, AMD		Landform (hill	ndform (hillside, terrace, hummocks etc.): Floodplain				
-	elief (concave, convex, none): flat		Slope: 1.0					
	ion: Interior Alaska Mountains	l at ·	63.37945795		Long.: -148.789777398 Datum: WGS84			
_		Lat	03.37943793	<u> </u>				
	p Unit Name:		0 V	No ○	NWI classification: PSS1/EM1C			
Are V Are V		ignificantly aturally pr ving sam	y disturbed? roblematic?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.) s, transects, important features, etc.			
			Is	the Sam	pled Area			
			wi	thin a W	/etland? Yes ● No ○			
	Wetland Hydrology Present? Yes ● No ○ arks:							
	TATION -Use scientific names of plants. Lis	Absolute	Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species			
	Stratum	% Cover	Species?	Status FACU	That are OBL, FACW, or FAC:3(A)			
2.	Picea glauca			FACU	Total Number of Dominant			
3.					Species Across All Strata:5(B)			
4.					Percent of dominant Species That Are OBL, FACW, or FAC: 60.0% (A/B)			
5.								
0.	Total Cover:	2			Prevalence Index worksheet:			
San			of Total Cover	0.4	Total % Cover of: Multiply by:			
Зар		1 20%			OBL Species 5 x 1 = 5			
	Salix pulchra		✓	FACW	FACW Species 41.1 x 2 = 82.2			
	Salix richardsonii	15	✓	FACW	FAC Species			
	Salix pseudomonticola	8		FAC	FACU Species 25 x 4 = 100 UPL Species 0 x 5 = 0			
	Picea glauca	<u>5</u>		FACU FAC				
	Dasiphora fruticosa	4		FAC	Column Totals: <u>121.1</u> (A) <u>337.2</u> (B)			
6. 7.	Betula nana			FAC	Prevalence Index = B/A = 2.784			
					Hydranhytic Vocatation Indicators			
9.					Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%			
10.					✓ Prevalence Index is ≤3.0			
	Total Cover: b Stratum 50% of Total Cover:	62	6 of Total Cover	: 12.4	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
1.	Calamagrostis canadensis	25	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Anemone parviflora		✓	FACU	Indicators of hydric soil and wetland hydrology must			
3.	Rubus arcticus (IAM)			FACU	be present, unless disturbed or problematic.			
4.	Comarum palustre			OBL	District Analysis and an extra 1992			
5.	Equisetum arvense			FAC	Plot size (radius, or length x width) 10m			
6.	Polemonium acutiflorum	2		FAC	% Cover of Wetland Bryophytes (Where applicable)			
7.	Astragalus alpinus	1		FAC	% Bare Ground15			
8.	Parnassia palustris	1		FACW	Total Cover of Bryophytes			
9.	Viola epipsila	0.1		FACW				
10.					Hydrophytic			
	Total Cover: 50% of Total Cover:28		of Total Cover	11.42	Vegetation Present? Yes ● No ○			
Rem	arks: Lichen = 0							

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SOIL Sampling Point: SW13 T159 05

JUIL									Samping	Point: 34412_1139_03		
Profile Descript	ion: (Describe to t		eded to docum	ent the inc				ators)				
Depth	Matrix			-		ox Features			_			
(inches)	Color (moi		<u>%</u>	Color (m	oist)	<u>%</u>	Type ¹	_Loc_ ²	Texture	Remarks		
0-7	2.5Y	3/2	100						Silt Loam	very fibric		
7-16	5Y	3/1	85	10YR	4/6	15	С		Silt Loam	very fibric		
	-					-						
									-			
¹ Type: C=Coi	ncentration. D=	Depletion.	RM=Reduce	d Matrix	² Location	PL=Pore	e Lining. RC	=Root Char	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicat	ors for Pro	blematic	: Hydric So	oils:				
	r Histel (A1)				ka Color Ch		4		Alaska Gleyed Without H	ue 5Y or Redder		
	pedon (A2)				ka Alpine sv		-		Underlying Layer	ue 5 : 6: Neude.		
	Sulfide (A4)				ka Redox W		-		Other (Explain in Remarks)			
	k Surface (A12)					2.5						
				³ One ii	ndicator of I	nydrophyt	ic vegetatio	n, one prim	ary indicator of wetland h	nydrology,		
☐ Alaska Gle				and an	appropriate	landscap	e position n	nust be pre	sent			
	` ,	`		4 Give	letails of co	or change	e in Remark	S				
Alaska Gle	eyed Pores (A15)										
Restrictive Laye	er (if present):											
Type: Acti	ve layer								Hydric Soil Present	? Yes 💿 No 🔾		
Depth (incl	nes): 16											
Remarks:												
Kemarks.												
HYDROLO	GY											
Wetland Hyd	rology Indica	tors:							Secondary Indi	cators (two or more are required)		
	ators (any one is)							ned Leaves (B9)		
Surface V	Vater (A1)			☐ In	ındation Vis	sible on A	erial Imager	v (B7)	Drainage F	Patterns (B10)		
✓ High Wat								·				
	Saturation (A3) Marl Deposits (B15)					.0 (20)	Presence of Reduced Iron (C4)					
	Water Marks (B1) Hydrogen Sulfide Odor (C1)					Salt Depos	` ,					
	Sediment Deposits (B2) Dry-Season Water Table (C2)							Stressed Plants (D1)				
								Geomorphic Position (D2)				
									Shallow Aquitard (D3)			
	☐ Algal Mat or Crust (B4) ☐ Iron Deposits (B5)											
										graphic Relief (D4)		
	oil Cracks (B6)							1	☐ FAC-neutra	al Test (D5)		
Field Observa		v (N. (a)			_						
	r Present?		No 💿	De	epth (inches):						
Surface Wate			No \bigcirc	De	epth (inches): 11		Wetlan	nd Hydrology Presen	it? Yes 💿 No 🔾		
Surface Wate Water Table F	Present?	Yes 🔍	110									
Water Table F	esent?				anth (inches). 7						
Water Table F	esent?		No O		epth (inches): 7						
Water Table F Saturation Pre (includes capi	esent?	Yes •	No O	De			ction) if ava	ilable:				
Water Table F Saturation Pre (includes capi	esent? illary fringe)	Yes •	No O	De			ction) if ava	ilable:				
Water Table F Saturation Pre (includes capi	esent? illary fringe)	Yes •	No O	De			ction) if ava	ilable:				
Water Table F Saturation Pro (includes capi Describe Recor	esent? illary fringe)	Yes •	No O	De			ction) if ava	ilable:				
Water Table F Saturation Pro (includes capi Describe Recor	esent? illary fringe)	Yes •	No O	De			ction) if ava	iilable:				
Water Table F Saturation Pro (includes capi Describe Recor	esent? illary fringe)	Yes •	No O	De			ction) if ava	ilable:				

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