## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	Е	Borough/City:	Denali Bo	orough Sampling Date: 06-Aug-12						
Applica	ant/Owner: Alaska Energy Authority			-	Sampling Point: SW12_T16_07						
	gator(s): SLI, KMK	lside, terrac	ee, hummocks etc.): Hillside								
	relief (concave, convex, none): flat	% / 11.9									
	gion: Interior Alaska Mountains	l at ·	Slope: 63.426869866		Long.: -148.605041885 Datum: NAD83						
		Lat	03.420009000	<u> </u>							
	ap Unit Name:		• V	No ○	NWI classification: Upland						
Are \ Are \	/egetation □ , Soil □ , or Hydrology □ I	significantl naturally p wing san	y disturbed? roblematic?	Are "N (If nee	(If no, explain in Remarks.)  Iormal Circumstances" present? Yes No No eded, explain any answers in Remarks.)  Iormal Circumstances" present? Yes No						
Hydrophytic Vegetation Present? Yes No Signature No Signa											
	Hydric Soil Present? Yes No •		within a Wetland? Yes ○ No ●								
Rem	Wetland Hydrology Present? Yes No   No	)	•		Citation .						
	ETATION - Use scientific names of plants. Li	st all spe	Dominant	•	Dominance Test worksheet:  Number of Dominant Species						
1.		0			That are OBL, FACW, or FAC:3(A)						
2.		0			Total Number of Dominant Species Across All Strata: 5 (B)						
3.		0									
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 60.0% (A/B)						
5.		0			Prevalence Index worksheet:						
	Total Covers				Total % Cover of: Multiply by:						
Sap	oling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover	:0	OBL Species 1 x 1 = 1						
1	Alnus viridis	85	<b>✓</b>	FAC	FACW Species 6 x 2 = 12						
	P95 12-1-	- 10		FAC	FAC Species 108 x 3 = 324						
3.	I in an a fermalia			FACU	FACU Species 22 x 4 = 88						
	Spiraea stevenii			FACU	UPL Species 0 x 5 = 0						
5.					Column Totals: <u>137</u> (A) <u>425</u> (B)						
6.		^			Column Totals: <u>137</u> (A) <u>425</u> (B)						
7.					Prevalence Index = B/A = 3.102						
8.		0			Hydrophytic Vegetation Indicators:						
9.		0			✓ Dominance Test is > 50%						
10.		0			☐ Prevalence Index is ≤3.0						
Hei	Total Cover: b Stratum 50% of Total Cover:	r: <u>21</u>	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)								
1.	Lycopodium clavatum	5	<b>✓</b>	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)						
2.	Equisetum sylvaticum	3		FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must						
3.	Chamaenerion angustifolium	5	<b>✓</b>	FACU	be present, unless disturbed or problematic.						
4.	Sanguisorba canadensis	-	<b>✓</b>	FACW	Plot size (radius, or length x width)						
5.	Calamagrostis canadensis		<b>✓</b>	FAC	% Cover of Wetland Bryophytes						
6.	Rumex occidentalis			OBL	(Where applicable)						
7.	Cornus canadensis	1		FACU	% Bare Ground55						
8.	Rubus chamaemorus	- 1		FACU	Total Cover of Bryophytes 40						
-	LIEUGOTORIO AVIDANCA	1		FACU							
9.	Dryopteris expansa	^									
9. 10.		0			Hydrophytic						
	Total Cover:		of Total Cover	: 6.4	Hydrophytic Vegetation Present?  Yes No						

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SOIL Sampling Point: SW12\_T16\_07

		the depth ne	eded to docur	ment the indicator or co	onfirm the abo		cators)				
Depth (inches)	Color (moi	ist)	%	Color (moist)	%	Type <sup>1</sup>	_Loc_2	Texture	Remarks		
0-4					. —			Fibric Organics			
4-6			100					Hemic Organics			
6-18	7.5YR	3/3	95				-	Silt Loam	5% sapric organic lenses		
	, 15							0 2.2	370 Supric organic lenses		
								-			
¹Type: C=Cor	ncentration. D=	Depletion.	RM=Reduce	ed Matrix <sup>2</sup> Location				annel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pr		4	oils:	-			
Histosol or	r Histel (A1)			☐ Alaska Color Change (TA4) ☐ Alaska Gleyed Without Hue 5Y or Redder							
Histic Epip	oedon (A2)			Alaska Alpine swales (TA5)  Underlying Layer							
	Sulfide (A4)			☐ Alaska Redox V	Nith 2.5Y F	lue	_	Other (Explain in Remark	(5)		
	k Surface (A12)			<sup>3</sup> One indicator of	f hydronhyt	tic vegetatic	on one prin	mary indicator of wetland h	ovdrology		
Alaska Gle				and an appropriat					ydrology,		
Alaska Red				4 Give details of co	olor chang	e in Remarl	ks				
	eyed Pores (A15	·)					<del>-</del>				
Restrictive Laye	er (if present):								- · · · ·		
Type:	h\;							Hydric Soil Present	? Yes ○ No •		
Depth (inch Remarks:	nes):										
HYDROLO											
Wetland Hyd	rology Indica	tors:						Secondary Indi	cators (two or more are required)		
	ators (any one is	s sufficient	)					Water Stained Leaves (B9)			
Surface Water (A1)				Inundation V	isible on A	erial Image	ery (B7)		Patterns (B10)		
High Water Table (A2)				Sparsely Veg		ncave Surfa	ce (B8)		hizospheres along Living Roots (C3)		
Saturation	` '			Marl Deposits	` ,			_	of Reduced Iron (C4)		
Water Ma		☐ Hydrogen Su				Salt Depos					
Sediment	Dry-Season \					Stressed Plants (D1) ic Position (D2)					
Drift Depo	or Crust (B4)			Other (Explain	ın ın kema	rks)			quitard (D3)		
Iron Depo	` ,						graphic Relief (D4)				
I — ·	ioil Cracks (B6)							_	al Test (D5)		
Field Observa									11 1650 (123)		
Surface Water		Yes C	No •	Depth (inche	<u>es):</u>						
Water Table P			No 💿	Depth (inche	•		Wetla	nd Hydrology Presen	it? Yes O No 💿		
Saturation Pre		_	_		•				110 - 110 -		
(includes capi		Yes ∪	No 💿	Depth (inche	es):						
Describe Recor	rded Data (strea	am gauge,	monitor we	ll, aerial photos, pre	vious inspe	ection) if ava	ailable:				
Remarks:		_	_	_	_	_	_				
no wetland hyd	drology indicato	ors									

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