WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	I	Borough/City:	Denali Bo	orough Sampling Date: 02-Aug-13				
Applica	ant/Owner: Alaska Energy Authority	Sampling Point: SW13_T149_08							
	gator(s): SLI, EAC	side, terrac	e, hummocks etc.): Floodplain						
	relief (concave, convex, none): flat	% / 0.0	<u>-</u>						
	·	l ot :							
	gion : Interior Alaska Mountains	Lai	63.38385427						
	ap Unit Name:	<u> </u>	NWI classification: PSS1C						
Are \	/egetation □ , Soil □ , or Hydrology □ I	significant naturally p wing sar	ly disturbed? roblematic?	(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 C	pled Area							
	Hydric Soil Present? Yes No C			within a Wetland? Yes ● No ○					
	Wetland Hydrology Present? Yes No C)	•••	a **	ottaria:				
	narks: This is a tall closed shrub community but soil pi				Dominance Test worksheet:				
_		Absolute			Number of Dominant Species				
1.	e Stratum	% Cover	Species?	Status	That are OBL, FACW, or FAC:3 (A)				
		0	. 📙		Total Number of Dominant				
2. 3.		0	-		Species Across All Strata: 3 (B)				
4.					Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)				
5.		0			That Ale OBE, I AOW, OF I AC				
J.	Total Cover		. 🗀		Prevalence Index worksheet:				
C			- 6 of Total Cover		Total % Cover of: Multiply by:				
Sap	oling/Shrub Stratum 50% of Total Cover:	0 20%	_	0	OBL Species 90.2 x 1 = 90.2				
1.	Myrica gale	_ 90	_	OBL	FACW Species <u>5.1</u> x 2 = <u>10.2</u>				
2.	Dasiphora fruticosa	0.1		FAC	FAC Species 76.3 x 3 = 228.9				
3.	Salix pseudomonticola	_50		FAC	FACU Species <u>0.1</u> x 4 = <u>0.400</u>				
4.	Salix alaxensis	5	. 📙	FAC	UPL Species <u>0</u> x 5 = <u>0</u>				
5.	Salix arbusculoides	5	. 📙	FACW	Column Totals: <u>171.7</u> (A) <u>329.7</u> (B)				
6.	Salix barclayi	20	. 📙	FAC	Prevalence Index = B/A = 1.920				
7.		0			Trevalence index Birt				
8.		0	. 📙		Hydrophytic Vegetation Indicators:				
9.		0	. 📙		✓ Dominance Test is > 50%				
10.		0_	. \square		Prevalence Index is ≤3.0				
Hei	Total Cover: 50% of Total Cover: 8		% of Total Cove	34.02	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)				
1.	Carex aquatilis	0.1	. 📃	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)				
2.	Equisetum arvense	_1_		FAC	¹ Indicators of hydric soil and wetland hydrology must				
3.	Parnassia palustris	0.1	. 📙	FACW	be present, unless disturbed or problematic.				
4.	Carex Ioliacea		. 📙	OBL	Plot size (radius, or length x width)				
5.	Phleum alpinum			FACU	% Cover of Wetland Bryophytes				
6.	Agrostis scabra			FAC	(Where applicable)				
7.	Trisetum spicatum			FAC	% Bare Ground				
8.					Total Cover of Bryophytes				
10.			. \square		Hydrophytic				
	Total Covers		6 of Total Cover	0.32	Vegetation Present? Yes ● No ○				
	50% of Total Cover:	() X − 71™							

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SOIL Sampling Point: SW13_T149_08

	ion: (Describe to t	the depth ne	eded to docu	ment the inc		firm the abs		ators)				
Depth Color (moi		ist)	%	Color (moist)		% Type ¹	Loc ²	Texture	Remarks			
0-2	10YR	4/1	100			_			Loam	rooted		
2-13	5PB	4/1	70	2.5YR	4/6	30		PL	Very Fine Sandy Loam			
13-18	10B	4/1	80	2.5YR	4/6	20	С	PL	Very Fine Sandy Loam			
-						-						
									-			
¹Type: C=Cor		Depletion.	RM=Reduc				_		annel. M=Matrix			
Hydric Soil I	ndicators:			Indicat	ors for Pro	blematio	Hydric So	oils: ³	_			
Histosol or	r Histel (A1)				ka Color Ch			✓ Alaska Gleyed Without Hue 5Y or Redder				
Histic Epip	edon (A2)			Alaska Alpine swales (TA5)					Underlying Layer			
l — · ·	Sulfide (A4)			Alasi	ka Redox W	/ith 2.5Y F	lue		Other (Explain in Remark	(S)		
	Surface (A12)			³ One ir	ndicator of I	hvdrophvt	ic vegetatio	n, one prin	mary indicator of wetland h	vdrology,		
☐ Alaska Gle				and an	appropriate	e landscáp	e position r	nust be pre	esent	, 5,,		
	yed Pores (A15	5)		4 Give o	letails of co	lor change	e in Remark	s				
		·')										
Restrictive Laye Type:	er (ii present):								Hydric Soil Present	? Yes • No •		
Depth (inch	nes):								nyunc son Fresent	i les 🔾 NO 🔾		
Remarks:	,.											
sand lenses thr		,		· g								
HYDROLO	GY											
Wetland Hyd	rology Indica	tors:							Secondary Indi	cators (two or more are required)		
Primary Indica	tors (any one is	s sufficient	:)						Water Stained Leaves (B9)			
Surface W	/ater (A1)			Inundation Visible on Aerial Imagery (B7)					Drainage Patterns (B10)			
High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)						hizospheres along Living Roots (C3)		
☐ Saturation		Marl Deposits (B15)					_	f Reduced Iron (C4)				
Water Ma	☐ Hydrogen Sulfide Odor (C1)					Salt Depos						
✓ Sediment	☐ Dry-Season Water Table (C2) ☐ Other (Explain in Remarks)						Stressed Plants (D1) ic Position (D2)					
							rks)			uitard (D3)		
☐ Iron Deposits (B5)										raphic Relief (D4)		
	oil Cracks (B6)								✓ FAC-neutra			
Field Observa												
Surface Water	r Present?	Yes C	No 💿	De	epth (inches	s):						
Water Table F	Present?	Yes C	No 💿	De	pth (inches	5):		Wetla	nd Hydrology Presen	t? Yes ● No ○		
Saturation Pre		Vec C	No •			•						
(includes capi	Depth (inches):											
Describe Recor	ded Data (strea	am gauge,	monitor we	ll, aerial p	hotos, prev	ious inspe	ction) if ava	ilable:				
Remarks:												
Nenana River floodplain												

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