## 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_07			
	gator(s): SLI, EAC	Landform (hil	lside, terrace, hummocks etc.): Valley bottom					
	relief (concave, convex, none): flat		Slope:		2 ° Elevation: 671			
	gion : Interior Alaska Mountains	l at ·	63.38237309					
		Lat						
	ap Unit Name:		2 V	(a) N1- (1)	NWI classification: Upland			
	matic/hydrologic conditions on the site typical for this t /egetation	•	r?	No O  Are "N	(If no, explain in Remarks.)  Iormal Circumstances" present? Yes ● No ○			
Are \	/egetation $\square$ , Soil $\square$ , or Hydrology $\square$	naturally p	roblematic?	(If nee	eded, explain any answers in Remarks.)			
SUMI	MARY OF FINDINGS - Attach site map sho	wing sar	npling point	locations	s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes   No			41 0	uste di Austri			
	Hydric Soil Present? Yes O No		Is the Sampled Area within a Wetland? Yes ○ No ●					
	Wetland Hydrology Present? Yes O No	•	W	ithin a W	retland? res Uno S			
Rem	arks: see SW13-T149-05 for description of boundary w	hillslope v	wetland.					
/EGI	ETATION - Use scientific names of plants. L	ist all sp		plot.	Dominance Test worksheet:			
Tre	e Stratum	% Cover		Status	Number of Dominant Species			
1.	Picea glauca	20	<b>✓</b>	FACU	That are OBL, FACW, or FAC: 2 (A)			
2.		0			Total Number of Dominant Species Across All Strata: 3 (B)			
3.		0			Percent of dominant Species			
4.		0			That Are OBL, FACW, or FAC: 66.7% (A/B)			
5.		0			Prevalence Index worksheet:			
	Total Cover	r: <u>20</u>			Total % Cover of: Multiply by:			
Sap	oling/Shrub Stratum 50% of Total Cover:	10 20%	6 of Total Cover	:4	OBL Species 0 x 1 = 0			
1	Picea glauca	1		FACU	FACW Species 22 x 2 = 44			
2.	Rosa acicularis		- <u>П</u>	FACU	FAC Species 84 x 3 = 252			
3.	Salix pulchra			FACW	FACU Species 33.1 x 4 = 132.4			
4.	Ribes triste	1		FAC	UPL Species0 _ x 5 =0			
5.	Spiraea stevenii			FACU	Column Totals: _139.1 (A) _428.4 (B)			
6.		•						
7.		0			Prevalence Index = B/A = 3.080			
8.		0			Hydrophytic Vegetation Indicators:			
9.		•			✓ Dominance Test is > 50%			
10.		0			Prevalence Index is ≤3.0			
Hei	Total Cover: 50% of Total Cover:	r: <u>6</u>	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)					
1.	Calamagrostis canadensis	80	✓	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
2.	Polemonium acutiflorum	1		FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
3.	Aconitum delphiniifolium	1		FAC	be present, unless disturbed or problematic.			
4.	Mertensia paniculata			FACU	Plot size (radius, or length x width)			
5.	Rubus arcticus (IAM)			FACU	% Cover of Wetland Bryophytes			
6.	Cornus suecica			FAC	(Where applicable)			
7.	Petasites frigidus		. 📙	FACW	% Bare Ground			
8.	Chamaenerion angustifolium		. 📙	FACU	Total Cover of Bryophytes			
9.								
			. $\square$		Hydrophytic			
10.		00 4			Vegetation			
10.	<b>Total Cover</b> 50% of Total Cover: 4			: 17.82	Present? Yes • No •			

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SOIL Sampling Point: SW13 T149 07

Profile Descripti	ion: (Describe to	the depth ne	eded to documer	nt the indicator	or confirm the at	sence of indic	cators)	· ·	10mt. 5W15_1145_07		
Depth		Matrix			Redox Feat			_			
(inches)	Color (m	oist)	% (	Color (moist)	%	Type <sup>1</sup>	_Loc_2	Texture	Remarks		
0-3	10YR	3/2	100					Silt Loam			
3-17	7.5YR	2.5/1	2	.5YR 3,	/4			Silt Loam			
								-			
¹Type: C=Cor	ncentration. D	=Depletion	RM=Reduced	Matrix <sup>2</sup> Loc	ation: PL=Por	e Lining. RO	C=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:		I	ndicators fo	r Problemati	ic Hydric S	oils: <sup>3</sup>				
Histosol or	r Histel (A1)			Alaska Col	or Change (TA	4)		Alaska Gleyed Without Hue 5Y or Redder			
Histic Epip	edon (A2)			Alaska Alpi	ine swales (TA	5)		Underlying Layer			
Hydrogen	Sulfide (A4)			Alaska Red	lox With 2.5Y	Hue		Other (Explain in Remark	s)		
Thick Dark	Surface (A12	2)	,	3 One indicate	of buduonbu	tie veestatie		nary indicator of wetland h	duology		
Alaska Gle	eyed (A13)				priate landsca				ydrology,		
Alaska Red	. ,			4 Cive details	of color chang	 Io in Domarl	kc				
☐ Alaska Gle	yed Pores (A1	.5)		· Give details	or color criang	je ili Kelliali	KS .				
Restrictive Laye	er (if present):	:									
Type:								Hydric Soil Present?	? Yes ○ No •		
Depth (inch	nes):										
Remarks:											
no hydric soil ir	ndicators. 3-17	7in - Ienses	of decomposed	d organics and	d sand from pr	ior deposition	on events				
HYDROLO	GY										
Wetland Hydi		ators:						Secondary Indic	ators (two or more are required)		
Primary Indica			:)						ned Leaves (B9)		
Surface W	/ater (A1)			Inundation	on Visible on A	Aerial Image	ery (B7)	☐ Drainage P	atterns (B10)		
High Water Table (A2)				Sparsely	Vegetated Co	ncave Surfa	ce (B8)	Oxidized Rh	nizospheres along Living Roots (C3)		
Saturation (A3)				Marl Dep	osits (B15)			Presence of	Reduced Iron (C4)		
Water Marks (B1)				Hydroge	n Sulfide Odor	(C1)		Salt Deposi	ts (C5)		
Sediment	Deposits (B2)	)		Dry-Seas	on Water Tab	le (C2)		Stunted or	Stressed Plants (D1)		
Drift Deposits (B3)				Other (E	xplain in Rema	arks)		_	c Position (D2)		
	or Crust (B4)							☐ Shallow Aq			
Iron Depo									raphic Relief (D4)		
	oil Cracks (B6)	)						☐ FAC-neutra	Test (D5)		
Field Observa		Voc C	No •	Danth (	\.						
Surface Water			No 💿	Depth (i	,						
Water Table P				Depth (i	nches):		Wetlai	nd Hydrology Present	t? Yes O No 🗨		
Saturation Pre (includes capil		Yes C	No ●	Depth (i	nches):						
Describe Recor	ded Data (stre	eam gauge,	monitor well, a	aerial photos,	previous insp	ection) if av	ailable:				
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											
no wetland hydrology indicators											

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