## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/	Site: Susitna-Watana Hydroe	lectric Project	E	Borough/City:	Denali Bo	rough Sampling Date: 08-Aug-13		
Applica	nt/Owner: Alaska Energy Auth	ority			-	Sampling Point: SW13_T146_05		
	ator(s): SLI, EAC			Landform (hil	lside, terrac	e, hummocks etc.): Footslope		
-	elief (concave, convex, none):	flat			% / 1.0			
	on: Interior Alaska Mountains		l at ·	63.383001566	_ —	Long.: -148.746973276 Datum: WGS84		
_	Unit Name:		Lat.	03.303001300	<u> </u>	NWI classification: Upland		
	P .	-:4- 4:! <b>f 4</b>  -:- <b>4</b> :		-0 Voo	● No ○			
Are Ve	egetation , Soil ,	or Hydrology  s	ignificantl aturally p	ly disturbed? roblematic?	Are "N (If nee	(If no, explain in Remarks.)  Iormal Circumstances" present? Yes ● No ○  Ided, explain any answers in Remarks.)  Iormal Circumstances" present? Yes ● No ○  Ided, explain any answers in Remarks.)		
ı	Hydrophytic Vegetation Present?	Yes  No		_				
	Hydric Soil Present?	Yes O No 💿			Is the Sampled Area			
	Wetland Hydrology Present?	Yes ○ No ●		w	ithin a W	Vetland? Yes ○ No ●		
	active layer is more shallow	V.				us slobe communities, but more mesic, less lichen cover,		
/EGE	TATION - Use scientific na	mes of plants. Lis	st all spe	ecies in the	plot.			
			Absolute		Indicator	Dominance Test worksheet:		
	Stratum		% Cover		Status	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)		
-	Picea glauca			. 💆	FACU	Total Number of Dominant		
2.			0			Species Across All Strata:5(B)		
3.			0	. 📙		Percent of dominant Species		
4. 5.			0			That Are OBL, FACW, or FAC: 80.0% (A/B)		
J		Total Cover:	7	. 🗀		Prevalence Index worksheet:		
Canl	ing/Chruh Stratum 50	% of Total Cover:		6 of Total Cover	. 14	Total % Cover of: Multiply by:		
Зарі	ing/Shrub Stratum 50	on rotal cover.	3.5 20%	or rotal cover	1.4	OBL Species 0 x1 = 0		
-	Picea glauca			. 📙	FACU	FACW Species 2 x 2 = 4		
-	Betula glandulosa		40		FAC	FAC Species <u>115.1</u> x 3 = <u>345.3</u> FACU Species 16 x 4 = 64		
-	Vaccinium uliginosum		30		FAC			
-	Vaccinium vitis-idaea		3		FAC			
-	Empetrum nigrum		20		FAC FAC	Column Totals: <u>133.1</u> (A) <u>413.3</u> (B)		
-	Ledum groenlandicum Arctostaphylos rubra		<del></del> 5	. 📙	FAC	Prevalence Index = B/A = 3.105		
-	Dasiphora fruticosa		1		FAC	Hydrophytic Vogotation Indicators		
_	Salix reticulata				FAC	Hydrophytic Vegetation Indicators:  Dominance Test is > 50%		
_	Ledum decumbens				FACW	Prevalence Index is ≤3.0		
		<b>Total Cover:</b> 0% of Total Cover:			r: 22.6	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)		
1.	Festuca altaica		5	<b>✓</b>	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
2.	0		2		FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
3.	0 1::!- "			<b>✓</b>	FAC	be present, unless disturbed or problematic.		
4.	0				FAC	Plot size (radius, or length x width) 10m		
5.	Tephroseris atropurpurea		0.1		FAC	Plot size (radius, or length x width) 10m    Cover of Wetland Bryophytes		
6.			0	. 📙		(Where applicable)		
				. 📙		% Bare Ground5		
8.						Total Cover of Bryophytes 80		
			0					
10.			0	. $\square$		Hydrophytic		
	FC	<b>Total Cover:</b> 1% of Total Cover: 6	<u>13.1</u> .55	6 of Total Cover	: 2.62	Vegetation Present? Yes  No		

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SOIL Sampling Point: SW13\_T146\_05

Profile Description			eeded to docu	ument the inc				ators)				
Depth		Matrix				lox Featu		2		Possester		
(inches)	Color (me		<u>%</u> _	Color (m	noist)	_%_	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-2	5YR	3/2							Fibric Organics			
2-5	2.5YR	2.5/1			-	-			Hemic Organics			
5-15	10YR	4/2	80	5YR	5/6	20	С	PL	Fine Loamy Sand	Doesn't mean Alaska Redox specifications.		
15-20	5Y	5/2	100						Fine Sand	Yellow color due to parent material - not gl		
								-				
								-		. ———		
1 <sub>Type:</sub> C-Con		——————————————————————————————————————		ced Matrix	2 Location	· DI – Dore	- ———— e Linina DC		annel. M=Matrix			
		-Depletioi	i. Ki – Kedu				c Hydric So		aillei. M-Mauix			
Hydric Soil In							4	oiis:	]	57. 5.11		
	Histel (A1)				ka Color Ch				☐ Alaska Gleyed Without Hue 5Y or Redder Underlying Layer			
Histic Epip					ka Alpine sv ka Redox W	-			Other (Explain in Remark	(5)		
	Sulfide (A4)	2)		∟ Alasi	na Neuox W	/IUI 2.51 I	iue			٠,		
Alaska Gle	Surface (A12	2)							mary indicator of wetland h	ydrology,		
Alaska Red				and an	appropriate	e landscap	e position r	nust be pr	esent			
	yed Pores (A1	15)		4 Give o	letails of co	lor chang	e in Remark	S				
Restrictive Laye	r (if present):	:										
Type: activ	e layer								Hydric Soil Present	? Yes ○ No •		
Depth (inch	es): 26											
10% subrounde	ed cobbles in	lowest hor	zon. no hyd	ric soil indi	cators.							
HYDROLO	GV.											
Wetland Hydr		ators:							Secondary Indi	cators (two or more are required)		
Primary Indicat			nt)							ned Leaves (B9)		
Surface W		10 041110101	,	☐ In	undation Vi	sible on A	erial Image					
High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)					Oxidized Rhizospheres along Living Roots (C3)			
Saturation (A3)				Marl Deposits (B15)					Presence of Reduced Iron (C4)			
☐ Water Mar	Water Marks (B1)				drogen Sul	fide Odor	(C1)		Salt Deposits (C5)			
Sediment Deposits (B2)				Dry-Season Water Table (C2)					Stunted or Stressed Plants (D1)			
Drift Depo	☐ Drift Deposits (B3)					n in Rema	rks)		Geomorphic Position (D2)			
	or Crust (B4)								Shallow Ac	quitard (D3)		
Iron Depo						_	graphic Relief (D4)					
	oil Cracks (B6)	)						1	☐ FAC-neutra	al Test (D5)		
Field Observa		v (	No ●									
Surface Water	Present?			De	epth (inches	s):						
Water Table P	resent?	Yes	○ No ⊙	De	epth (inches	s):		Wetla	nd Hydrology Presen	t? Yes O No 🖲		
Saturation Pre (includes capil		Yes	No •	De	epth (inches	s):						
Describe Record	ded Data (stre	eam gauge	, monitor w	ell, aerial p	hotos, prev	ious inspe	ection) if ava	ilable:				
Remarks:												
no wetland hyd	rology indicat	tors										

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