## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitn	a-Watana Hydroele	ectric Project		Вс	orough/City:	Denali Bo	rough Sampling Date	Date: 06-Aug-12	
Applicant/Owner: Al	aska Energy Autho	rity					Sampling Point:	SW12_T04_05	
	S, EKJ			L	_andform (hill	lside, terrac	e, hummocks etc.): Ridgetop		
ocal relief (concave,	•	convex			Slope: 5.2	% / 3.0			
ubregion: Interior A	_		Ĺ	at · 6	33.45518990			Datum: WGS84	
oil Map Unit Name:				JO. <del>1</del> 00 100 00	<u> </u>				
						● No ○	NWI classification: Upla	ana	
re climatic/hydrologic Are Vegetation  Are Vegetation  UMMARY OF FI	, Soil . , or	r Hydrology r Hydrology	signifi	cantly ally pro	disturbed?	Are "N (If nee	(If no, explain in Remarks.) ormal Circumstances" present?  Y ded, explain any answers in Remark t, transects, important feature	,	
Hvdrophytic Ve	getation Present?	Yes O	No 💿						
Hydric Soil Pre	-	Yes O	No 💿	Is the Sampled Area within a Wetland? Yes ○ No ●					
Wetland Hydro		Yes O	No •						
		163 🔾	110 🕓						
Remarks: Top of e		nes of pla	nts. List al	l spe	cies in the	plot.			
			Δhe	olute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum				over	Species?	Status	Number of Dominant Species	4 (A)	
1.				0			That are OBL, FACW, or FAC:	1(A)	
2.				0			Total Number of Dominant Species Across All Strata:	4(B)	
3.				0			Percent of dominant Species		
4				0			That Are OBL, FACW, or FAC:	25.0% (A/B)	
5				0			Prevalence Index worksheet:		
		Tota	Cover: _	0			Total % Cover of: Multip	oly by:	
Sapling/Shrub Stra	tum 50%	6 of Total Cov	er: <u>0</u>	20% (	of Total Cover	0	OBL Species 0 x 1	= 0	
1. Empetrum nig	rum			15		FAC	FACW Species 3 x 2	= 6	
2. Arctostaphylos	alpina			30	✓	FACU	FAC Species 42.1 x 3	= 126.3	
3. Loiseleuria pro	ocumbens			30	<b>✓</b>	FACU	FACU Species 61 x 4		
4. Ledum decum	bens			3		FACW	UPL Species 1.1 x 5	= 5.500	
5. Vaccinium ulig				15		FAC	Column Totals: 107.2 (A)	<u>381.8</u> (B)	
6. Salix stolonifer	ra			1		UPL	Prevalence Index = B/A =	3.562	
7. Betula nana				10		FAC		3.302	
8. Dryas octopeta				0.1		UPL	Hydrophytic Vegetation Indicators:		
9. Vaccinium vitis				0.1		FAC	Dominance Test is > 50%		
10. Betula glandul	USd	Tata	l Cover:	1		FAC	Prevalence Index is ≤3.0		
Herb Stratum_	509		_	1 <u>05</u> _ 20%	of Total Cove	r: 21.04	Morphological Adaptations <sup>1</sup> (Provi Remarks or on a separate sheet)	de supporting data in	
Carex microch				1	<b>✓</b>	FAC	Problematic Hydrophytic Vegetation	n <sup>1</sup> (Explain)	
	monticola ssp. alp	inum		1	<u></u>	FACU	<sup>1</sup> Indicators of hydric soil and wetland h		
	ormoona oop. a.p			0			be present, unless disturbed or problen		
				0			21		
				0			Plot size (radius, or length x width)	_10m	
				0			% Cover of Wetland Bryophytes (Where applicable)	0	
				0			% Bare Ground	_50	
				0			Total Cover of Bryophytes	2	
				0					
10				0			Hydrophytic		
			Cover:	2			Vegetation Present?  Yes No	•	
	50%	of Total Cove	or. 1	20%	of Total Cover	0.4	Present? Yes $\cup$ No $\circ$	<i></i>	

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SOIL Sampling Point: SW12\_T04\_05

		the depth no	eeded to docur	nent the indicator or co	nfirm the ab		ators)				
Depth (inches)	Depth ————		0/0	Color (moist)	Type <sup>1</sup>	_Loc_ <sup>2</sup>	- Texture	Remarks			
0-6	10YR	3/4	90	Color (moise)	<u>%</u>	Турс	LOC	Sand	coarse sand to rounded gravel		
6-15	10YR	3/3	60					Sand	coarse sand to rounded gravel		
					-						
15-20	10YR	3/3	100					Coarse Sand	sub angular coarse sand		
¹Type: C=Cor	ncentration. D=	=Depletion	. RM=Reduce	ed Matrix <sup>2</sup> Location	n: PL=Por	e Lining. RC	=Root Cha	annel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	c Hydric So	oils: <sup>3</sup>				
Histosol or	r Histel (A1)			Alaska Color Ch	nange (TA	4) <sup>4</sup>		Alaska Gleyed Without Hue 5Y or Redder     Underlying Layer			
Histic Epip	edon (A2)			Alaska Alpine s	wales (TA	5)					
Hydrogen	Sulfide (A4)			Alaska Redox V	Vith 2.5Y H	Hue		Other (Explain in Remarl	(S)		
☐ Thick Dark	Surface (A12)	)		_							
Alaska Gle	yed (A13)			<sup>3</sup> One indicator of and an appropriat	hydrophyl	tic vegetation	n, one prir	mary indicator of wetland h	nydrology,		
Alaska Red	dox (A14)				•	-	•	escrit			
Alaska Gle	eyed Pores (A15	5)		<sup>4</sup> Give details of co	olor chang	e in Remark	is .				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	? Yes ○ No ⊙		
Depth (inch	nes):										
HYDROLO	GY										
Wetland Hyd	rology Indica	tors:						Secondary Indi	cators (two or more are required)		
Primary Indica	tors (any one i	s sufficien	t)					Water Stai	ned Leaves (B9)		
Surface W	/ater (A1)			☐ Inundation V	isible on A	erial Image	ry (B7)		Patterns (B10)		
High Wate	er Table (A2)			Sparsely Veg	etated Cor	ncave Surfac	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)		
Saturation	. ,			Marl Deposits	(B15)				of Reduced Iron (C4)		
☐ Water Ma				Hydrogen Su				☐ Salt Depos			
	Deposits (B2)			☐ Dry-Season V					Stressed Plants (D1)		
☐ Drift Depo				Uther (Explai	n in Rema	rks)			ic Position (D2)		
	or Crust (B4)								quitard (D3)		
Iron Depo	` ,							_	graphic Relief (D4)		
	oil Cracks (B6)						1	FAC-neutra	al Test (D5)		
Field Observa		Voc (	No ●	Danth (in the	-)-						
Surface Water				Depth (inche	s):						
Water Table P		Yes C	No 💿	Depth (inche	s):		Wetla	nd Hydrology Presen	t? Yes O No 💿		
Saturation Pre (includes capi		Yes C	No •	Depth (inche	s):						
Describe Recor	ded Data (stre	am gauge,	monitor we	l, aerial photos, prev	vious inspe	ection) if ava	ailable:				
Remarks:											
no wetland hyd	trology indicate	ors									
no wedana nyo	arology IIIUICd[(	ס וע									

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