## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydr	oelectric Project		Borough/City	/: Denali Bo	rough Sampling Da	ate: 04-Aug-13		
Applica	nt/Owner: Alaska Energy A	uthority				Sampling Point:	SW13_T166_04		
nvestic	gator(s): CTS, AMD	-		Landform (	hillside, terrac	ce, hummocks etc.): Flat			
- ∟ocal re	elief (concave, convex, none):	flat		Slope: 3	3.0 % / 1.7	° Elevation: 741			
Subrea	ion: Interior Alaska Mountair	ne	l at ·	63.3868689		Long.: -148.559689522	Datum: WGS84		
	p Unit Name:	15		03.300000	7.54				
	-	() () . (	hi ni ni	0 V	es   No	NWI classification: PS	51B		
Are V	natic/hydrologic conditions on egetation , Soil egetation , Soil	, or Hydrology [	significar naturally	ntly disturbed?	? Are "N (If nee	(If no, explain in Remarks.)  ormal Circumstances" present?  ded, explain any answers in Remarks, transects, important feature	•		
	Hydrophytic Vegetation Prese	nt? Yes 💿 I	No O						
	Hydric Soil Present?	Yes ⊙ I	No O	Is the Sampled Area					
	Wetland Hydrology Present?	Yes ● I	No O	,	within a Wetland? Yes ● No ○				
Rema									
'EGE	TATION -Use scientific	names of plant	·			Dominance Test worksheet:			
Tree	Stratum		Absolut % Cove			Number of Dominant Species			
1.	Picea glauca		10	<b>✓</b>	FACU	That are OBL, FACW, or FAC:	4(A)		
2.	Picea mariana		16	_	FACW	Total Number of Dominant Species Across All Strata:	5 (B)		
3.			0			Percent of dominant Species			
4.			0			That Are OBL, FACW, or FAC:	80.0% (A/B)		
5.			0			Prevalence Index worksheet:	•		
,		Total C	<b>Cover:</b> 26	_			ply by:		
Sapl	ing/Shrub Stratum	50% of Total Cover	13 20	% of Total Cov	er: <u>5.2</u>	OBL Species 1 x 1			
					FACIL	FACW Species 65.1 x 2			
	Picea glauca				FACU	FAC Species 116 x 3			
2.	Picea mariana				FACW	FACU Species 21.1 x 4	<u> </u>		
3.	Betula nana				FAC	UPL Species 0 x 5			
	Salix pulchra				FACW FAC				
5.	Vaccinium uliginosum					Column Totals: 203.2 (A)	<u>563.6</u> (B)		
	Ledum decumbens				FACW	Prevalence Index = B/A =	2.774_		
	Empetrum nigrum			-	FAC				
	Vaccinium vitis-idaea			-	FAC	Hydrophytic Vegetation Indicators	:		
	Spiraea stevenii			-	FACU	Dominance Test is > 50%			
10.		Total C	<u> </u>	_		Prevalence Index is ≤3.0			
Herl	Stratum	50% of Total Cover			ver: 21	Morphological Adaptations <sup>1</sup> (Prov Remarks or on a separate sheet)	ride supporting data in		
-	Equisetum arvense		45		FAC	Problematic Hydrophytic Vegetation	on <sup>1</sup> (Explain)		
2.	Calamagrostis canadensis				FAC	<sup>1</sup> Indicators of hydric soil and wetland h			
3.	Eriophorum scheuchzeri				OBL	be present, unless disturbed or problem	natic.		
3. 4.	Rubus chamaemorus				FACW				
٠. 5.	Cornus canadensis				FACU	Plot size (radius, or length x width)	_10m		
5. 6.	Managaguniflara				FACU	% Cover of Wetland Bryophytes (Where applicable)			
7.	Dotacitos frigidus				FACW	% Bare Ground	0		
7. 8.	Dumov orations				FAC	Total Cover of Bryophytes	<u>0</u> _85		
9.	Caray mambranaga				FACW	rotal cover of bryophytes	00		
10.	Carox momeranacea		0			Hydronbytic			
10.		Total C		_		Hydrophytic Vegetation			
		50% of Total Cover	Present? Yes • No •						
Rema	arks: Lichen = 3					•			

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SOIL Sampling Point: SW13\_T166\_04

Profile Descript	ion: (Describe to t		eded to docu	ment the inc		firm the abs		ators)				
Depth (inches)	Color (moi	latrix st)		Color (m			Type <sup>1</sup>	_Loc_2	- Texture	Remarks		
0-3	COIOI (IIIOI	St)	100	COIOI (III	IOISLJ	<u>%</u>	туре	LUC	Hemic Organics			
3-9		3/1	90	7.5YR	4/4	10		PL	Silt Loam			
									-			
9-15	5Y	3/1	85	7.5YR	4/6	15	C	M	Silt Loam	Large cobbles		
						-						
¹Type: C=Co	ncentration. D=	Depletion.	RM=Redu	ced Matrix	<sup>2</sup> Location	: PL=Pore	e Lining. RC	=Root Cha	annel. M=Matrix			
Hydric Soil I	ndicators:			Indicat	ors for Pro	blematio	: Hydric So	oils: <sup>3</sup>				
Histosol o	r Histel (A1)				ka Color Ch		4		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip	pedon (A2)			Alasl	ka Alpine sv	vales (TA5	5)		Underlying Layer			
Hydrogen	Sulfide (A4)			Alasl	ka Redox W	ith 2.5Y F	lue		Other (Explain in Remark	(S)		
Thick Dar	k Surface (A12)			3								
Alaska Gle	eyed (A13)						ic vegetatio e position r		mary indicator of wetland h esent	nydrology,		
<b>✓</b> Alaska Re	dox (A14)						•					
Alaska Gle	eyed Pores (A15	)		4 Give o	letails of co	lor change	e in Remark	S				
Restrictive Lay	er (if present):											
Type: Acti									Hydric Soil Present	? Yes ● No ○		
Depth (inc	•								,	-		
Remarks:												
HYDROLO	GY											
=	rology Indicat									cators (two or more are required)		
	itors (any one is	sufficient	)						Water Stained Leaves (B9)			
	Vater (A1)			_			erial Imagei					
							cave Surfac	e (B8)	✓ Oxidized Rhizospheres along Living Roots (C3)			
Saturation				<ul><li>☐ Marl Deposits (B15)</li><li>☐ Hydrogen Sulfide Odor (C1)</li></ul>					☐ Presence of Reduced Iron (C4) ☐ Salt Deposits (C5)			
☐ Water Ma	Deposits (B2)											
Drift Dep	. ,				y-Season W					Stressed Plants (D1) ic Position (D2)		
	. ,			Ot	her (Explair	ın kema	rks)					
	oil Cracks (B6)								✓ FAC-neutra			
Field Observ												
Surface Wate		Yes C	No 💿	De	pth (inches	i):						
Water Table I			No 💿			•		Wetla	nd Hydrology Presen	it? Yes • No O		
Saturation Pro				De	epth (inches	5):		Wetia	na riyarology Fresen	it: les C NO C		
(includes cap		Yes 🔾	No 💿	De	epth (inches	s):						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												
-												

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