WETLAND DETERMINATION DATA FORM - Alaska Region

rojeci	/Site: Susitna-Watana Hydr	oelectric Project		Borough/City	: Denali Bo	rough Sampling Date:	02-Aug-13				
Applica	ant/Owner: Alaska Energy A	uthority				Sampling Point:	SW13_T204_04				
nvestic	gator(s): CTS, AMD			Landform (I	nillside, terrac	ce, hummocks etc.): Flat					
	relief (concave, convex, none):	flat		Slope: 1	.0 % / 0.6						
	,		l ot .				Dotum: MCS94				
_	jion : Interior Alaska Mountair	1S	Lat.:	63.3831872	294	Long.:148.634158134					
Soil Ma	p Unit Name:					NWI classification: PSS1/EM1E					
Are V Are V	matic/hydrologic conditions on to degree the conditions on the conditions of the conditions on the conditions of the conditions on the con	, or Hydrology [significan naturally	tly disturbed?	(If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yeaded, explain any answers in Remarks. s, transects, important features	,				
Hydrophytic Vegetation Present? Yes No ○											
	Hydric Soil Present?	Yes ⊙ I	No O		Is the Sampled Area						
	Wetland Hydrology Present?	Yes ● I	No O	'	within a W	etland? Yes No					
	arks:										
/EGE	ETATION - Use scientific	names of plant	<u>-</u>			Dominance Test worksheet:					
Tre	e Stratum		Absolut % Cove			Number of Dominant Species					
1.			0			That are OBL, FACW, or FAC:	4(A)				
2.			0		-	Total Number of Dominant Species Across All Strata:	4 (B)				
3.				-			(D)				
4.			0	- =		Percent of dominant Species That Are OBL, FACW, or FAC:	100.0% (A/B)				
5.			$\frac{}{}$	- =			,				
		Total C		_		Prevalence Index worksheet:	u bu				
San	ling/Shrub Stratum	50% of Total Cover		– % of Total Cov	er: 0	Total % Cover of: Multipl					
Зар	mig/Siliub Stratum	3070 01 10141 60001				OBL Species 37.1 x 1 =	3711				
1.	Dasiphora fruticosa		15		FAC	FACW Species 17 x 2 =					
2.	Salix pulchra			_	FACW	FAC Species <u>23.3</u> x 3 =	03.30				
3.	Betula nana				FAC	FACU Species 4.1 x 4 =					
4.	Picea glauca				FACU	UPL Species 0 x 5 =	0				
5.	Salix reticulata		2	_	FAC	Column Totals: 81.5 (A)	<u>157.4</u> (B)				
6.	Vaccinium uliginosum		1	_ 🖳	FAC		1 021				
7.	Vaccinium oxycoccos		0.1		OBL	Prevalence index – B/A –	1.931				
8.	Empetrum nigrum		0.1		FAC	Hydrophytic Vegetation Indicators:					
9.			0	_		✓ Dominance Test is > 50%					
10.			0	_		✓ Prevalence Index is ≤3.0					
Her	b Stratum_	Total C 50% of Total Cover	1212		ver: <u>8.44</u>	Morphological Adaptations ¹ (Provide Remarks or on a separate sheet)					
1.	Carex aquatilis		20		OBL	Problematic Hydrophytic Vegetation					
2.	Equisetum fluviatile		10	_	OBL	¹ Indicators of hydric soil and wetland hyd	Irology must				
3.	Eriophorum angustifolium		3	_ 📙	OBL	be present, unless disturbed or problema	itic.				
4.	Comarum palustre		3		OBL	Plot size (radius, or length x width)	_10m				
5.	Eriophorum russeolum		1	_	FACW	% Cover of Wetland Bryophytes	10111				
6.	Caltha palustris		1	_ 📙	OBL	(Where applicable)					
7.	Parnassia palustris		1	_ 📙	FACW	% Bare Ground	0				
8.	Bistorta vivipara		0.1		FAC	Total Cover of Bryophytes	35				
9.	Rubus arcticus (IAM)		0.1		FACU						
10.	Rumex arcticus		0.1		FAC	Hydrophytic					
		Total C				Vegetation	1				
1		50% of Total Cover	10.65 20	% of Total Cov	er: 7.86	Present? Yes • No C	/				

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SOIL Sampling Point: SW13_T204_04

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicator. Matrix Redox Features						ators)						
Depth (inches)							. 2	Texture	Remarks			
0-20	Color (mois	it)	<u>%</u> 100	Color (moist)	<u>%</u>	Type ¹	_Loc_2	Hemic Organics	Remarks			
								Tiernic Organics				
								-				
								-				
¹Type: C=Coi	¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix											
Hydric Soil Indicators: Indicators for Problematic Hydric Soils:												
✓ Histosol or Histel (A1)				Alaska Color C	hange (TA	1) 4		Alaska Gleyed Without H	ue 5Y or Redder			
Histic Epipedon (A2)				Alaska Alpine swales (TA5) Underlying Layer								
Hydrogen	Sulfide (A4)			Alaska Redox \	Nith 2.5Y H	lue		Other (Explain in Remark	rs)			
☐ Thick Darl	Surface (A12)			3								
Alaska Gle	eyed (A13)			One indicator of and an appropria				nary indicator of wetland h	ydrology,			
Alaska Red	dox (A14)					•	•	COCITC				
Alaska Gle	eyed Pores (A15))		⁴ Give details of o	olor chang	e in Remark	S					
Restrictive Laye	er (if present):											
Type:								Hydric Soil Present	? Yes 💿 No 🔾			
Depth (incl	nes):											
Remarks:												
HYDROLO												
=	rology Indicat							Secondary Indi	cators (two or more are required)			
	itors (any one is	sufficient)						Water Stai	ned Leaves (B9)			
✓ Surface W	Vater (A1)			Inundation V	isible on A	erial Imagei	ry (B7)	☐ Drainage F	atterns (B10)			
High Wat	er Table (A2)			Sparsely Veg		ncave Surfac	ce (B8)		hizospheres along Living Roots (C3)			
Saturation	. ,			Marl Deposit	, ,				f Reduced Iron (C4)			
☐ Water Ma				Hydrogen Su	Ifide Odor	(C1)		Salt Depos				
	Deposits (B2)			Dry-Season \					Stressed Plants (D1)			
Drift Depo	. ,			Uther (Expla	in in Rema	rks)		_	ic Position (D2)			
	or Crust (B4)								uitard (D3)			
Iron Depo	• •								raphic Relief (D4)			
☐ Surface S	oil Cracks (B6)							✓ FAC-neutra	l Test (D5)			
Field Observa	ations:											
Surface Wate	r Present?	Yes 💿		Depth (inche	es): 5							
Water Table F	Present?	Yes 🔾	No 🕑	Depth (inche	es):		Wetla	nd Hydrology Presen	t? Yes ◉ No 🔾			
Saturation Pre		Yes 🔾	No 💿	Depth (inche	oc).							
(includes capi				• •								
Describe Recor	ded Data (strea	m gauge, n	nonitor well	, aerial photos, pre	vious inspe	ection) if ava	ilable:					
Remarks:												
Surface water in deep troughs												

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