WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroeled	tric Project	Во	orough/City:	Denali Bo	rough Sampling Date: 06-Aug-12					
Applica	int/Owner: Alaska Energy Authori	itv									
Investigator(s): SLI, KMK Landform (hillside, terrace, hummocks etc.): Mountainslope Local relief (concave, convex, none): flat Slope: 17.6 % / 10.0 ° Elevation: 944											
		11									
Subreg	ion : Interior Alaska Mountains		Lat.: 6	3.427468243	8	Long.: -148.600344975 Datum: WGS84					
Soil Ma	p Unit Name:					NWI classification: Upland					
Are V Are V	egetation , Soil , or l	Hydrology sign Hydrology nat n site map showir	nificantly urally pro	disturbed?	(If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes No ded, explain any answers in Remarks.) t, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes No Signature No Signa											
	Hydric Soil Present?	Yes O No •				/etland? Yes ○ No ●					
	Wetland Hydrology Present?	Yes O No 💿									
	arks: TATION -Use scientific nam	·				Dominance Test worksheet:					
Tro	Stratum		bsolute 6 Cover	Dominant Species?	Indicator Status	Number of Dominant Species					
1.	e Stratum_		0		Status	That are OBL, FACW, or FAC: 4 (A)					
2.						Total Number of Dominant					
3.						Species Across All Strata: 4 (B)					
3. 4.						Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B	۵				
5.						1101.070 (705)					
J.		Total Cover:	0			Prevalence Index worksheet:					
San	ling/Shrub Stratum 50%	of Total Cover:0	0	Total % Cover of: Multiply by:							
Зар	mig/Sili ub Stratum 50%	or rotal cover	20/0 (of Total Cover:		OBL Species <u>0</u> x1 = <u>0</u>					
1.	Vaccinium uliginosum		30	✓	FAC	FACW Species 17 x 2 = 34					
2.	Salix pulchra				FACW	FAC Species 101 x 3 = 303					
3.	Ledum decumbens		10		FACW	FACU Species <u>4</u> x 4 = <u>16</u>					
4.	Vaccinium vitis-idaea		5		FAC	UPL Species <u>0</u> x 5 = <u>0</u>					
	Empetrum nigrum		0.1		FAC	Column Totals: <u>122</u> (A) <u>353</u> (B)				
6.	Betula glandulosa		2		FAC	Prevalence Index = B/A =2.893_					
7.	Picea glauca		2		FACU	Trevalence index – B/A –					
8.	Betula nana		40	✓	FAC	Hydrophytic Vegetation Indicators:					
9.	Salix glauca		_1_		FAC	✓ Dominance Test is > 50%					
10.			0			✓ Prevalence Index is ≤3.0					
Her	b Stratum 50%	Total Cover: of Total Cover: <u>48.</u>	<u>97.1</u> 55 20%	of Total Cover	: 19.42	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	1				
1.	Equisetum sylvaticum		15	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)					
2.	Carex bigelowii		7	✓	FAC	¹ Indicators of hydric soil and wetland hydrology must					
3.	Bistorta plumosa		2		FACU	be present, unless disturbed or problematic.					
4.	Saussurea angustifolia		1		FAC	Plot size (radius, or length x width) 10m					
5.			0			Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes					
6.			0			(Where applicable)					
7.			0			% Bare Ground					
8.			0			Total Cover of Bryophytes 85					
			0								
			0			Hydrophytic					
		Total Cover:	25			Vegetation					
	50%	of Total Cover: <u>12.5</u>	20%	of Total Cover:	5	Present? Yes No					
Rem	arks: trace calcan										

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SOIL Sampling Point: SW12_T16_06

		the depth ne	eded to docur	nent the indicator or co	nfirm the ab		cators)						
Depth (inches)	Color (mo			Color (moist)	%	Type ¹	_Loc_2	- Texture	Remarks				
0-3	Color (IIIO	isty		color (moise)		Турс	LUC	Fibric Organics					
3-5			100					Hemic Organics					
		2/2			-				100/5				
5-11	5YR	3/2	90					Silt Loam	10% fine gravels				
11-16	5YR	3/3						Silt Loam	20% subang gravels-cobbles				
¹Type: C=Cor	ncentration. D=	Depletion.	RM=Reduc	ed Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	annel. M=Matrix					
Hydric Soil Indicators: Indicators for Problematic Hydric Soils:													
Histosol or	r Histel (A1)			Alaska Color Cl	hange (TA								
Histic Epip	edon (A2)			Alaska Alpine swales (TA5) Underlying Layer									
Hydrogen	Sulfide (A4)			Alaska Redox V	Nith 2.5Y I	lue		Other (Explain in Remark	(S)				
☐ Thick Dark	Surface (A12)			3.0	ole at a steel			to Protect of Control I	A. J.				
Alaska Gle	yed (A13)			and an appropriat				mary indicator of wetland hesent	nydrology,				
Alaska Red	dox (A14)					•							
Alaska Gle	eyed Pores (A15	5)		⁴ Give details of co	olor chang	e in Kemark	KS						
Restrictive Laye	er (if present):												
Type:								Hydric Soil Present	? Yes ○ No •				
Depth (inch	nes):												
HYDROLO	GY												
Wetland Hydi	rology Indica	tors:						Secondary Indi	cators (two or more are required)				
Primary Indica	tors (any one i	s sufficient)					Water Stai	ned Leaves (B9)				
Surface W	/ater (A1)			Inundation V	isible on A	erial Image	ry (B7)	Drainage Patterns (B10)					
High Wate	er Table (A2)			Sparsely Veg	etated Cor	ncave Surfac	ce (B8)	Oxidized Rhizospheres along Living Roots (C3)					
Saturation	` '			Marl Deposits	s (B15)			Presence of Reduced Iron (C4)					
Water Ma				Hydrogen Su				Salt Deposits (C5)					
	Deposits (B2)		☐ Dry-Season \				Stunted or Stressed Plants (D1)						
☐ Drift Depo				Other (Explain	in in Rema	rks)			ic Position (D2)				
Algal Mat or Crust (B4) Shallow Aquitard (D3)								. ,					
☐ Iron Depo	. ,							_	graphic Relief (D4) al Test (D5)				
Field Observa	oil Cracks (B6)							FAC-fleutra	ii rest (D5)				
Surface Water		Yes C	No ●	Depth (inche	e).								
			No •		•		Matle.	nd Hydrology Presen	t? Yes O No •				
Water Table P		_	_	Depth (inche	es):		wetia	na nyarology Presen	tes O NO O				
Saturation Present? (includes capillary fringe) Yes No •			Depth (inches):										
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:													
Remarks:													
no wetland hydrology indicators													

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