WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydro	electric Project		Borou	gh/City:	Matanusk	a-Susitna Borough Sampling Date: 10-Jul-13					
Applica	int/Owner: Alaska Energy Au	thority					Sampling Point: SW13_T127_04					
Investigator(s): SLI, SCB Landform (hillside, terrace, hummocks etc.): Mountainslope												
Local relief (concave, convex, none): hummocky Slope: 8.0 % / 4.6 ° Elevation: 1140												
	,	пантоску	Lat	_								
_	ion : Southcentral Alaska		40992713	3								
Soil Map Unit Name: NWI classification: Upland												
Are V	egetation . Soil .	, or Hydrology \Box s	significa naturall	antly dist y problei	urbed? matic?	(If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.) s, transects, important features, etc.					
	Hydrophytic Vegetation Presen	t? Yes ● No ○)									
	Hydric Soil Present?	Yes ○ No ●	pled Area									
	Wetland Hydrology Present?	Yes ○ No ●		within a Wetland? Yes ○ No ●								
		100 0 110 0										
Remarks: VEGETATION - Use scientific names of plants. List all species in the plot. Absolute Dominant Indicator Dominance Test worksheet:												
Tree	Stratum		% Cov		pecies?	Status	Number of Dominant Species					
1.				0			That are OBL, FACW, or FAC:3 (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: 75.0% (A/B)					
5.				0			Prevalence Index worksheet:					
		Total Cover:	0				Total % Cover of: Multiply by:					
Sap	ling/Shrub Stratum	50% of Total Cover:	02	20% of To	tal Cover	:0	OBL Species 0 x 1 = 0					
1	Salix rotundifolia			5	~	FAC	FACW Species 19 x 2 = 38					
	O-P - Libra		-	2	V	FACW	FAC Species 10 x 3 = 30					
	Vaccinium uliainacum		-	1		FAC	FACU Species 10.1 x 4 = 40.40					
4.	vaconiani anginocani		_	0		-7.0	UPL Species 0 x 5 = 0					
5.				0			Column Totals: 39.1 (A) 108.4 (B)					
6.				0			Column Totals. <u>39.1</u> (A) <u>100.4</u> (B)					
7.				0			Prevalence Index = B/A = 2.772					
8.			_	0			Hydrophytic Vegetation Indicators:					
9.				0			✓ Dominance Test is > 50%					
10.				0			✓ Prevalence Index is ≤3.0					
Herl	b Stratum_	Total Cover: 50% of Total Cover:			otal Cove	r: <u>1.6</u>	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)					
1.	Sanguisorba officinalis		1	10	✓	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)					
2.	Artemisia norvegica			10	✓	FACU	¹ Indicators of hydric soil and wetland hydrology must					
3.	Ranunculus nivalis			5		FACW	be present, unless disturbed or problematic.					
4.	Sedum rosea			1		FAC	Plot size (radius, or length x width) 10m					
5.	Veratrum viride		_	1		FAC	Plot size (radius, or length x width) % Cover of Wetland Bryophytes					
6.	Viola epipsila		_	1		FACW	(Where applicable)					
7.	Senecio triangularis		_	1		FACW	% Bare Ground					
8.	Festuca altaica		_	1		FAC	Total Cover of Bryophytes					
9.	Valeriana capitata		_	1		FAC						
10.	Hydrophytic											
	5	Total Cover: 50% of Total Cover:1			otal Cover	6.22	Vegetation Present? Yes No ○					
Rem	arks: trace lycopodium alpinu erigeron humilis, pyrola		rubcha	a, rubaro	, polacu,	veronica w	ornskjoldii, carex podocarpa, aconitum delphinifolium,					

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SOIL Sampling Point: SW13_T127_04

		the depth ne	eded to docur	ment the indicator or co	nfirm the abs		cators)						
Depth (inches)	Color (mo	ist)	%	Color (moist)	%	Type ¹	_Loc_2	Texture	Remarks				
0-2								Hemic Organics					
2-16	2.5Y	3/2	100					Loam					
16-20	2.5Y	2.5/1	100					Clay Loam					
10-20	Z.J1	2.3/1						Clay Loain					
				<u> </u>									
¹Type: C=Cor	¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix												
Hydric Soil I	ndicators:			Indicators for Pr	oblemation	C Hydric So	oils:						
Histosol or	r Histel (A1)			Alaska Color Change (TA4) Alaska Gleyed Without Hue 5Y or Redder									
Histic Epip	edon (A2)			Alaska Alpine s	-			Underlying Layer					
	Sulfide (A4)			Alaska Redox V	Nith 2.5Y F	lue	Other (Explain in Remark	s)					
	c Surface (A12))		3 One indicator of	hydronhyt	ric vegetatio	n one nrin	mary indicator of wetland h	udrology				
Alaska Gle				and an appropriat	te landscar	ne position r	must be pro	esent	ydrology,				
Alaska Red				4 Give details of co	olor chang	e in Remark	(S						
	eyed Pores (A15	5)											
Restrictive Laye	er (if present):							11 11 Call Bussent	? Yes○ No •				
Type:	220/1							Hydric Soil Present	? Yes ○ No •				
Depth (inch Remarks:	ies):												
HYDROLO													
Wetland Hyd									cators (two or more are required)				
	itors (any one i	s sufficient	:)						ned Leaves (B9)				
Surface Water (A1)				Inundation V				☐ Drainage Patterns (B10)					
High Water Table (A2)				Sparsely Veg		icave Surfac	ce (B8)		nizospheres along Living Roots (C3)				
Saturation (A3)				Marl Deposits	,	(01)			f Reduced Iron (C4)				
Water Marks (B1)								Salt Deposi	Stressed Plants (D1)				
Sediment Deposits (B2)				Dry-Season \					c Position (D2)				
	☐ Drift Deposits (B3) ☐ Other (Explain in Remarks)							Shallow Aq					
☐ Algal Mat or Crust (B4)☐ Iron Deposits (B5)									raphic Relief (D4)				
	oil Cracks (B6)							✓ FAC-neutra					
Field Observa									,				
Surface Water	r Present?	Yes C	No 💿	Depth (inche	es):								
Water Table F	Present?	Yes C	No ●	Depth (inche)·		Wetla	nd Hydrology Presen	t? Yes ○ No •				
Saturation Pre		_	No •		•			,. 5,	-				
(includes capi	llary fringe)			Depth (inche									
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:													
Remarks:													
only one secon	dary wetland h	ıydrology iı	ndicator										

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