WETLAND DETERMINATION DATA FORM - Alaska Region

Project/	Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 02-Jul-13							
Applicar	nt/Owner: Alaska Energy Authority			-	Sampling Point: SW13_T126_01							
Investigator(s): SLI, SCB Landform (hillside, terrace, hummocks etc.): Hillside Local relief (concave, convex, none): concave Slope: 24.9 % / 14.0 ° Elevation: 961												
		1 -4 -										
_	on : Southcentral Alaska	Lat.:	62.89432025		Long.:149.38982904							
	o Unit Name:				NWI classification: Upland							
Are Ve		significan naturally wing sa	tly disturbed? problematic? mpling point	(If nee	<u> </u>							
	Hydric Soil Present? Yes O No @				npled Area							
	Wetland Hydrology Present? Yes No		wi	ithin a W	Vetland? Yes ○ No •							
	, 0,											
Remarks: photo time 10:50, #1120-1122 mesic subalpine forb-rich meadow VEGETATION -Use scientific names of plants. List all species in the plot.												
VEGE	TATION - Ose scientific names of plants. L	ist all sp	becies in the	piot.								
		Absolute		Indicator	Dominance Test worksheet:							
Tree 1.	Stratum	% Cove	r Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC:5(A)							
-			_		Total Number of Dominant							
2. 3.			-		Species Across All Strata: 6 (B)							
4.			-		Percent of dominant Species That Are OBL, FACW, or FAC: 83.3% (A/B)							
5.		0	-									
-	Total Cover		_		Prevalence Index worksheet:							
Sanli	ing/Shrub Stratum 50% of Total Cover:		– % of Total Cover:	: 0	Total % Cover of: Multiply by:							
-					OBL Species 0 x 1 = 0							
-	Vaccinium uliginosum	30	_	FAC	FACW Species 0.1 x 2 = 0.200							
-	Empetrum nigrum	15		FAC	FAC Species57.1							
-	Arctostaphylos alpina	7		FACU								
_	Vaccinium vitis-idaea	3		FAC								
_	Picea glauca			FACU	Column Totals: <u>69.5</u> (A) <u>221.7</u> (B)							
-	Luetkea pectinata	1		UPL	Prevalence Index = B/A =3.190_							
-	Salix reticulata Loiseleuria procumbens	0.1		FACU FACU	II. dasahadia Varahadian Tadisahana							
_	Salix pulchra	0.1		FACW	Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%							
_	Spiraea stevenii	0.1		FACU	Prevalence Index is ≤3.0							
10.	Total Cover		_	17100	Morphological Adaptations ¹ (Provide supporting data in							
Herb			 0% of Total Cover	r: 11.48	Remarks or on a separate sheet)							
1.	Cornus suecica	3	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)							
-	Carex bigelowii	3	✓	FAC	¹ Indicators of hydric soil and wetland hydrology must							
3.	Carex microchaeta	3	✓	FAC	be present, unless disturbed or problematic.							
4.	Spinulum annotinum	3	✓	FACU	Plot size (radius, or length x width) 10m							
5.	Sanguisorba officinalis	0.1		FACW	Plot size (radius, or length x width)							
6.	Anemone parviflora	0.1		FACU	(Where applicable)							
7	Bistorta plumosa	0.1	_	FACU	% Bare Ground							
8	Chamerion latifolium	0.1	_	FAC	Total Cover of Bryophytes							
-	Arnica lessingii	0.1		UPL								
10	Equisetum arvense	0.1			Hydrophytic							
	Total Cover			. 252	Vegetation Present? Yes ● No ○							
	50% of Total Cover:	6.3 20	% of Total Cover:	: 2.52								
Rema	trace rosa acicularis, viola adunca, festuca alta 20% lichen, 20% moss	ica, anem	none narcissiflo	ra								

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SOIL Sampling Point: SW13_T126_01

		the depth ne	eded to docur	ment the indicator or cor	nfirm the ab		ators)				
Depth (inches)	Color (mo			Color (moist)	%	Type ¹	_Loc_2	Texture	Remarks		
0-4	10YR	2/1	100					Silt Loam	w heavy organics		
4-15	10YR	 3/4	100		-		-	Loam	w angular fine gravel-cobble		
					-				w angular fine graver cobble		
15-17	2.5Y	4/2						Silt Loam			
							-				
							-				
¹Type: C=Cor	ncentration. D=	:Depletion	. RM=Reduce	ed Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pro	oblemati	c Hydric So	oils: ³				
Histosol or	r Histel (A1)			Alaska Color Ch	nange (TA	4)		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip	` '			Alaska Alpine s	wales (TA!	5)		Underlying Layer			
	Sulfide (A4)			Alaska Redox V	Vith 2.5Y H	Hue	L	Other (Explain in Remark	(S)		
	Surface (A12)	į		_							
Alaska Gle				³ One indicator of and an appropriat				nary indicator of wetland h	ydrology,		
Alaska Red	dox (A14)					·		eseni			
Alaska Gle	eyed Pores (A15	j)		⁴ Give details of co	olor change	e in Remark	is				
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	t)					<u> </u>			
Surface W	/ater (A1)			Inundation Vi	isible on A	erial Image	ry (B7)				
High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)				Oxidized R	hizospheres along Living Roots (C3)		
Saturation	` '			Marl Deposits	; (B15)				of Reduced Iron (C4)		
☐ Water Ma				Hydrogen Sul				☐ 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 ●	Donth (incho	-)- 0						
Surface Water				Depth (inche	s): U						
Water Table P		Yes \subseteq) No ●	Depth (inche	s): 0		Wetla	nd Hydrology Presen	t? Yes ○ No •		
Saturation Pre (includes capi		Yes C	No •	Depth (inche	s): 0						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											
no wetland hyd	trology indicate	ors									
no wedana nye	arology maleate										

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