WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	xa-Susitna Borough Sampling Date: 06-Jul-13			
Applica	int/Owner: Alaska Energy Authority		Sampling Point: SW13_T115_03	3				
Investi	gator(s): JGK	e, hummocks etc.): Bench						
Local r	elief (concave, convex, none): hummocky	5 ° Elevation: 932						
Subreg	ion : Interior Alaska Mountains	 58	Long.: -148.306995631 Datum: NAD83					
_	p Unit Name:	NWI classification: PSS1B						
	natic/hydrologic conditions on the site typical for this ti	ime of ver	ar? Yes	● No ○	(If no, explain in Remarks.)			
		•	tly disturbed?		Iormal Circumstances" present? Yes No			
		•	problematic?		eded, explain any answers in Remarks.)			
		•						
SUMN	MARY OF FINDINGS - Attach site map sho		mpling point	locations	s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes No		lo.	the Com	nled Area			
	Hydric Soil Present? Yes No No			Is the Sampled Area within a Wetland? Yes ● No ○				
	Wetland Hydrology Present? Yes ● No)	W	Aumin a Welland?				
Rema	arks:							
VEGE	TATION - Use scientific names of plants. L	ist all sp	ecies in the	plot.				
		Absolut	e Dominant	Indicator	Dominance Test worksheet:			
	e Stratum	% Cove		Status	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)			
1.		0	_		Total Number of Dominant			
2.		0	-		Species Across All Strata: 4 (B)			
3.			- =		Percent of dominant Species	٦١		
4.		0	- =		That Are OBL, FACW, or FAC: (A/E	3)		
5.	Tatal Causa	0	_		Prevalence Index worksheet:			
C	Total Cover		– % of Total Cover	. 0	Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20		:0	OBL Species 0 x 1 = 0			
1.	Betula nana	40		FAC	FACW Species 18 x 2 = 36			
2.	Empetrum nigrum			FAC	FAC Species 91.2 x 3 = 273.6			
3.	Vaccinium uliginosum			FAC	FACU Species 3 x 4 = 12 UPL Species 0.1 x 5 = 0.500			
	Salix pulchra			FACW				
5.	Salix fuscescens			FACW	Column Totals: <u>112.3</u> (A) <u>322.1</u> ((B)		
6. 7.	Rhododendron tomentosum Dasiphora fruticosa			FACW FAC	Prevalence Index = B/A =			
	Vaccinium vitis-idaea	- 0.1		FAC	Hudronbutic Vocatation Indicators			
9.				TAC	Hydrophytic Vegetation Indicators: Dominance Test is > 50%			
10.					✓ Prevalence Index is ≤3.0			
	Total Cover	r: _89.1	_		Morphological Adaptations 1 (Provide supporting data in	n		
Her	b Stratum 50% of Total Cover:			r: <u>17.82</u>	Remarks or on a separate sheet)			
1.	Carex bigelowii	20	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Rubus arcticus (IAM)	3		FACU	¹ Indicators of hydric soil and wetland hydrology must			
3.	Veronica wormskjoldii	0.1		FAC	be present, unless disturbed or problematic.			
	Antennaria friesiana			UPL	Plot size (radius, or length x width) 10m			
			_ =		% Cover of Wetland Bryophytes 2			
			-		(Where applicable)			
			-		% Bare Ground <u>10</u>			
			- 📙		Total Cover of Bryophytes 35			
		0	-					
10.	Total Cover				Hydrophytic Vegetation			
	50% of Total Cover:			: 4.64	Present? Yes • No			
D					1			
Rem	arks: Lichen 15. Game trails							

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SOIL Sampling Point: SW13_T115_03

Profile Description		the depth ne	eeded to docu	ment the inc		irm the ab		ators)				
Depth (inches)	Color (moi	ist)	%	Color (m	noist)	%	Type ¹	_Loc_ ²	Texture	Remarks		
0-1									Fibric Organics			
1-2									Hemic Organics			
2-3	10YR	5/3	60	5YR	5/8	30	C	M	Silty Clay Loam			
				5YR	4/6	10						
2.5	10VD								Silty Clay Loam	Company		
3-5	10YR	5/3		5YR	5/3	30	C	M	Sity Clay Loan	Some coarse sand		
-				5YR	4/6	20	_ <u>C</u>	M	-			
5-12	5GY	5/1	80	7.5YR	5/8	20	C	M	Silt			
¹Type: C=Con		Depletion	. RM=Reduc		² Location:		_		annel. M=Matrix			
Histosol or					ka Color Cha		4		✓ Alaska Gleyed Without Hue 5Y or Redder			
Histic Epipe	` ,			Alaska Alpine swales (TA5)				Underlying Layer				
	Sulfide (A4)			☐ Alaska Redox With 2.5Y Hue ☐ Other (Explain in Remarks)					cs)			
_ ' '	Surface (A12)											
Alaska Gley	/ed (A13)			³ One in	ndicator of h appropriate	ydrophyt Iandscar	ic vegetation	n, one prir	mary indicator of wetland h	ydrology,		
Alaska Red	ox (A14)					-	-	-	cocine			
Alaska Gley	ed Pores (A15	5)		* Give o	details of col	or cnange	e in Remark	S				
Restrictive Laye	r (if present):											
Type: 2, 16	Type: 2, 16 Hydric Soil Present? Yes • No											
Depth (inch	es): silty clay l	oam, ice										
HYDROLO	GY											
Wetland Hydr	ology Indica	tors:							Secondary Indi	cators (two or more are required)		
Primary Indicat		s sufficient	t)							ned Leaves (B9)		
Surface W		Inundation Visible on Aerial Imagery (B7)					Drainage Patterns (B10)					
High Wate	Sparsely Vegetated Concave Surface (B8)				e (B8)	Oxidized Rhizospheres along Living Roots (C3)						
✓ Saturation Water Mar	. ,			Marl Deposits (B15)					☐ Presence of Reduced Iron (C4) ☐ Salt Deposits (C5) ☐ Stunted or Stressed Plants (D1) ☐ Geomorphic Position (D2) ☑ Shallow Aquitard (D3)			
	Deposits (B2)			☐ Hydrogen Sulfide Odor (C1)☐ Dry-Season Water Table (C2)								
Drift Depo	,			Other (Explain in Remarks)								
= '	or Crust (B4)			Other (Explain in Remarks)								
☐ Iron Depos										graphic Relief (D4)		
	oil Cracks (B6)									Il Test (D5)		
Field Observa	tions:											
Surface Water	Present?	Yes C	No 💿	De	epth (inches):						
Water Table Pr	resent?	Yes C	No 💿	De	epth (inches):		Wetla	nd Hydrology Presen	t? Yes 💿 No 🔾		
Saturation Pres		Yes 💿	No O	De	epth (inches)): 1						
(includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												
Remarks:												

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