WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroele	ectric Project	Borough/City	y: Matanusk	xa-Susitna Borough Sampling Date: 02-Aug-13			
Applicant/Owner: Alaska Energy Autho	prity			Sampling Point: SW13_T177_05			
Investigator(s): BAB	•	Landform (hillside, terrac	ce, hummocks etc.): Hillside			
Local relief (concave, convex, none):	convex	Slope: 8	3.7 % / 5.0	O ° Elevation: 1045			
– Subregion: Interior Alaska Mountains	Lat	63.075398	 84	Long.: -148.07663287 Datum: WGS84			
Soil Map Unit Name:				NWI classification: Upland			
Are Vegetation , Soil , o	r Hydrology 🔲 significa r Hydrology 🔲 naturall	antly disturbed	(If nee	(If no, explain in Remarks.) Normal Circumstances" present? Yes No eded, explain any answers in Remarks.)			
	•	ampling pol	int locations	s, transects, important features, etc.			
Hydrophytic Vegetation Present?	Yes No		Is the Sam	poled Area			
Hydric Soil Present?	Yes O No •		within a Wetland? Yes ○ No •				
Wetland Hydrology Present?	Yes ○ No ●						
Remarks: Convex lobe, possible old la VEGETATION - Use scientific nat		species in th	ne plot.	Dominance Test worksheet: Number of Dominant Species			
Tree Stratum 1.	-	o D	r Status	That are OBL, FACW, or FAC:5(A)			
2.	-	0	-	Total Number of Dominant Species Across All Strata: 5 (B)			
3.							
4.		0		Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B			
5.		0		Prevalence Index worksheet:			
	Total Cover: 0			Total % Cover of: Multiply by:			
Sapling/Shrub Stratum 509	% of Total Cover:02	20% of Total Cov	ver:0	OBL Species 0 x 1 = 0			
1. Betula nana	2	20	FAC	FACW Species 20 x 2 = 40			
2 Ledum decumbers	2	20	FACW	FAC Species 91 x 3 = 273			
3 Vaccinium uliginocum		25	FAC	FACU Species <u>0</u> x 4 = <u>0</u>			
4 Empotrum nigrum		30	FAC	UPL Species <u>0</u> x 5 = <u>0</u>			
5. Vaccinium vitis-idaea		5	FAC	Column Totals:111 (A)313 (B			
6		0		Prevalence Index = B/A = 2.820			
7		0		Prevalence index – B/A – <u>Z.820</u>			
8		0		Hydrophytic Vegetation Indicators:			
9		0		✓ Dominance Test is > 50%			
10		0		Prevalence Index is ≤3.0			
Herb Stratum 50	Total Cover:10 % of Total Cover:50	<u>0</u>	ver: 20	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
		<u>1</u>	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)			
Carex bigelowii 3.		0	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
4.		0		Plot size (radius, or length x width) 10m			
5		<u> </u>		% Cover of Wetland Bryophytes			
6		0		(Where applicable)			
7				% Bare Ground			
8				Total Cover of Bryophytes <u>15</u>			
9							
10	Total Cover:			Hydrophytic Vegetation			
T. Control of the Con	i otai Coveii 1	L					
509	6 of Total Cover:5.52	20% of Total Cov	/er: <u>2.2</u>	Present? Yes • No O			

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SOIL Sampling Point: SW13_T177_05

Depth	ion: (Describe to t	1atrix	cucu to uocu	mene the me		ox Featu		uto13)			
(inches)	Color (moi	ist)	%	Color (m	noist)	%	Type ¹	Loc 2	Texture	Remarks	
0-3			90	7.5YR	2.5/3	10			Sapric Organics	silt loam inclusions	
3-5	10YR	2/2	100						Sand		
5-7			90	7.5YR	2.5/3	10			Sapric Organics	silt loam inclusions	
7-8	7.5YR	2.5/2	100						Loamy Sand		
8-12			90	7.5YR	2.5/3	10			Sapric Organics	silt loam inclusions	
12-21	2.5Y	3/2	100						Sand		
	2.51										
Type: C=Cor		Depletion	. RM=Reduc	ced Matrix	² Location:	PL=Pore	 e Lining. RC	=Root Cha	nnel. M=Matrix		
Hydric Soil I	ndicators:			Indicat	ors for Pro	blematio	: Hvdric Sc	oils:			
	r Histel (A1)				ka Color Cha		4		Alaska Gleyed Without H	ue 5Y or Redder	
	pedon (A2)			Alaska Alpine swales (TA5)					Underlying Layer		
	Sulfide (A4)			Alas	ka Redox Wi	ith 2.5Y F	lue		Other (Explain in Remarl	(S)	
Thick Dark	c Surface (A12)										
Alaska Gle	eyed (A13)				ndicator of h appropriate				nary indicator of wetland hesent	nydrology,	
Alaska Red	dox (A14)						•	·			
Alaska Gle	eyed Pores (A15	5)		*Give t	details of col	or change	e iii Kemark	S			
Restrictive Laye	er (if present):										
Type:									Hydric Soil Present	? Yes ○ No •	
Depth (inch	nes):										
HYDROLO	GY										
HYDROLO Wetland Hyd		tors:							_Secondary Indi	cators (two or more are required)	
Wetland Hyd			t)							cators (two or more are required) ned Leaves (B9)	
Wetland Hydromary Indica Surface W	rology Indicar stors (any one is Vater (A1)		t)		undation Vis		_		Water Stai	ned Leaves (B9) Patterns (B10)	
Wetland Hydromary Indicated Surface William High Water	rology Indicated tors (any one is vater (A1) er Table (A2)		t)	☐ Sp	arsely Veget	tated Con	_		Water Stai Drainage F Oxidized R	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3)	
Wetland Hydromary Indica Primary Indica Surface W High Wate Saturation	rology Indicat stors (any one is Vater (A1) er Table (A2) n (A3)		:)	☐ Sp	arsely Veget arl Deposits	tated Con (B15)	cave Surfac		Water Stai Drainage F Oxidized R Presence of	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4)	
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