WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampling Da	ate: 01-Aug-13
Applicant/Owner: Alaska Energy Authority		Sampling Point:	SW13_T143_10
Investigator(s): WAD, RWM	Landform (hill	side, terrace, hummocks etc.):peat mound	1
Local relief (concave, convex, none): hummocky	Slope: 0.0	% / 0.0 ° Elevation: 1088	
Subregion : Interior Alaska Mountains Lat	63.224430799	Long.: -148.244246125	Datum: WGS84
Soil Map Unit Name:		NWI classification: Up	oland
	rear? Yes antly disturbed? y problematic?		Yes 🔍 No 🔿 rks.)
SUMMARY OF FINDINGS - Attach site map showing s	ampling point	locations, transects, important featur	es, etc.
Hydrophytic Vegetation Present? Yes No	ls	the Sampled Area	

Hydric Soil Present? Wetland Hydrology Present?	Yes ○ Yes ○	No 💿 No 💿	Is the Sampled Area within a Wetland?	Yes \bigcirc No \textcircled{ullet}				
Remarks: neat mound surrounded by fresh sedge march and open water								

Remarks: peat mound surrounded by fresh sedge marsh and open water.

VEGETATION - Use scientific names of plants. List all species in the plot.

٨		۸hc	Absolute Dominant I		Indicator	Dominance Test worksheet:		
	e Stratum			Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)	
1.			_	0				
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: (A/B)	
5.			_	0			Prevalence Index worksheet:	
		Total Cove	r: _	0			Total % Cover of: Multiply by:	
Sap	ling/Shrub Stratum	50% of Total Cover:	0	20%	of Total Cover:	0	OBL Species x 1 =	
1.	Ledum decumbens			55	\checkmark	FACW	FACW Species <u>59</u> x 2 = <u>118</u>	
2.	Spiraea stevenii		_	5		FACU	FAC Species <u>59</u> x 3 = <u>177</u>	
3.	Betula nana		_	35	\checkmark	FAC	FACU Species <u>5</u> x 4 = <u>20</u>	
4.	Vaccinium vitis-idaea			5		FAC	UPL Species x 5 =	
5.				10		FAC	Column Totals: 123 (A) 315 (B)	
6.	Empetrum nigrum		_	5		FAC	Prevalence Index = B/A = 2.561	
7.			_	0			Prevalence Index = B/A = <u>2.561</u>	
				0			Hydrophytic Vegetation Indicators:	
9.			_	0			✓ Dominance Test is > 50%	
			_	0			✓ Prevalence Index is \leq 3.0	
		Total Cove		115			Morphological Adaptations ¹ (Provide supporting data in	
Herb Stratum 50% of Total Cover: 57.5		_ 20%	of Total Cover:	23	Remarks or on a separate sheet)			
1.	Eriophorum vaginatum		_	1		FACW	Problematic Hydrophytic Vegetation ¹ (Explain)	
2.	2. Carex bigelowii		4		FAC	¹ Indicators of hydric soil and wetland hydrology must		
3.	Rubus chamaemorus		_	3		FACW	be present, unless disturbed or problematic.	
4.			_	0			Plot size (radius, or length x width) <u>10m</u>	
5.			_	0			% Cover of Wetland Bryophytes	
6.			_	0			(Where applicable)	
7.			_	0			% Bare Ground	
8.			_	0			Total Cover of Bryophytes	
9.			_	0				
10.			_	0			Hydrophytic	
Total Cover:		8			Vegetation			
		50% of Total Cover:	4	20%	of Total Cover:	1.6	Present? Yes No	
Rem	narks:							

Profile Descript	ion: (Describe to the	e depth needed atrix	to document t		onfirm the abs dox Featu		ators)				
Depth (inches)							Loc 2	Texture	Remarks		
0-2	Color (moist	t) <u>%</u> 10		or (moist)	%	Type ¹	LOC -	Fibric Organics	Nelligins		
2-16			<u> </u>					Hemic Organics			
	·							·			
	·										
	ncentration. D=D	epletion. RM=				-		nnel. M=Matrix			
Hydric Soil I	ndicators:			licators for Pr		4	oils:	,			
	r Histel (A1)			Alaska Color Cl		-	L	Alaska Gleyed Without Hu	ie 5Y or Redder		
Histic Epip	pedon (A2)			Alaska Alpine swales (TA5) Underlying Layer							
_ · •	Sulfide (A4)			Alaska Redox V	Nith 2.5Y F	lue	L	Other (Explain in Remark	5)		
	k Surface (A12)		3 C	no indicator of	f hydrophy	tic vegetatic	on one nrir	nary indicator of wetland h	idrology		
	eyed (A13)			d an appropriat					yurology,		
Alaska Re	. ,		40	ive details of o	olor chang	o in Domarl					
Alaska Gle	eyed Pores (A15)		- 0	ive details of co			is .				
Restrictive Lay	er (if present):										
Type:								Hydric Soil Present	Yes 🔾 No 🖲		
Depth (incl	hes):							,			
Remarks:											
	or a histosol but n	not saturated									
0											
HYDROLO	GY										
Wetland Hyd	rology Indicato	rs:						Secondary Indic	ators (two or more are required)		
Primary Indica	ators (any one is s	sufficient)						Water Stair	ed Leaves (B9)		
Surface V	Vater (A1)			Inundation V	/isible on A	erial Image	ry (B7)	B7) Drainage Patterns (B10)			
🗌 High Wat	er Table (A2)		Ľ	Sparsely Veg	jetated Cor	ncave Surfar	ce (B8)	Oxidized R	izospheres along Living Roots (C3)		
Saturation	n (A3)] Marl Deposits	s (B15)			Presence of Reduced Iron (C4)			
Water Ma	arks (B1)] Hydrogen Su	Ilfide Odor	(C1)		Salt Deposi	ts (C5)		
Sediment	Deposits (B2)			Dry-Season \	Water Tabl	.e (C2)		Stunted or Stressed Plants (D1)			
Drift Dep	osits (B3)			Other (Explai	in in Rema	rks)		Geomorphi	c Position (D2)		
🗌 Algal Mat	or Crust (B4)							Shallow Aq	uitard (D3)		
Iron Depo	osits (B5)							Microtopog	raphic Relief (D4)		
Surface S	ioil Cracks (B6)							✓ FAC-neutra	Test (D5)		
Field Observa	ations:		_				\top				
Surface Wate		Yes \bigcirc N		Depth (inche	es):						
Water Table F	Present?	Yes \bigcirc N	lo 🖲	Depth (inche	es):		Wetla	nd Hydrology Presen	t? Yes 🔾 No 🖲		
Saturation Pre (includes capi		$_{\rm Yes} \odot _{\rm N}$	lo 🖲	Depth (inche	es):						

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:

Remarks:

only one secondary hydrology indicator observed