## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site:	Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampl	ing Date: 04-Aug-13
Applicant/Owne	r: Alaska Energy Authority		Sampling Poin	t: <b>SW13_T133_06</b>
Investigator(s):	WAD, RWM	Landform (hill	side, terrace, hummocks etc.): depre	ssion
Local relief (cor	ncave, convex, none):	Slope: 0.0	% / 0.0 ° Elevation: 746	
Subregion : In	terior Alaska Mountains Lat.	: 62.916181564	Long.: -148.079970837	Datum: WGS84
Soil Map Unit N	ame:		NWI classification	n: PUBH
Are climatic/hyc Are Vegetation Are Vegetation		ear? Yes ntly disturbed? / problematic?	No (If no, explain in Remain Are "Normal Circumstances" preser (If needed, explain any answers in F	ht? Yes $oldsymbol{ imes}$ No $oldsymbol{ imes}$
SUMMARY	<b>OF FINDINGS</b> - Attach site map showing sates	ampling point	locations, transects, important fe	eatures, etc.
Hydroph	vtic Vegetation Present? Yes   No			

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ● Yes ● Yes ●	No () No () No ()	Is the Sampled Area within a Wetland?	Yes $\ \odot$ No $\bigcirc$	

Remarks: lake forming by impoundment of surface water by glacial till deposits. steep banks comprise till material on 3 sides.

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

		۸h	solute	Dominant	Indicator	Dominance Test worksheet:		
			Cover_	Species?	Status	Number of Dominant Species		
1.			0			That are OBL, FACW, or FAC: (A)		
2.			0		-	Total Number of Dominant Species Across All Strata: 1 (B)		
3.			0			Percent of dominant Species		
4.			0			That Are OBL, FACW, or FAC:100.0% (A/B)		
5.			0					
Total Cover:						Prevalence Index worksheet: Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum 50% of Total Cover:	0	20% (	of Total Cover:	0	OBL Species34 x 1 =34		
	· · · ·		0			FACW Species $0 \times 2 = 0$		
1. 2.			0			FAC Species $2 \times 3 = 6$		
2. 3.			0			FACU Species $0 \times 4 = 0$		
3. 4.			0			UPL Species $0 \times 5 = 0$		
			0					
			0			Column Totals: <u>36</u> (A) <u>40</u> (B)		
			0			Prevalence Index = B/A = <u>1.111</u>		
			0			Underschutig Vosstation Tudiostova		
0.		_	0			Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%		
		_	0			✓ Dominance rest is $> 30\%$ ✓ Prevalence Index is $\leq 3.0$		
10.	Total Cove							
Her	b Stratum50% of Total Cover:			of Total Cover:	0	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)		
1.	Carex aquatilis		20	$\checkmark$	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
2.			5		OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
3.	Sparganium hyperboreum		5		OBL	be present, unless disturbed or problematic.		
4.	Hippuris vulgaris		4		OBL			
5.	Calamagrostis canadensis		2		FAC	Plot size (radius, or length x width) <u>10m</u>		
6.			0			% Cover of Wetland Bryophytes (Where applicable)		
			0			% Bare Ground		
			0			Total Cover of Bryophytes		
			0					
			0			Hydrophytic		
	Total Cove	er:	36			Vegetation		
	50% of Total Cover:	-		of Total Cover:	7.2	Present? Yes $\bullet$ No $\bigcirc$		
Remarks: floating mat of sparganium in center								

		e depth nee <b>atrix</b>	ded to docun	nent the indicator or co	nfirm the ab dox Featu		cators)		
Depth (inches)	Color (mois	t)	%	Color (moist)	%	Type <sup>1</sup>	Loc 2	Texture	Remarks
		-,				.,,,,			
	·								
								-	
	·								
<sup>1</sup> Type: C=Cone	centration. D=[	Pepletion. F	RM=Reduce	ed Matrix <sup>2</sup> Location	n: PL=Por	e Lining. R	C=Root Cha	nnel. M=Matrix	
Hydric Soil In	dicators			Indicators for Pr	oblemati	c Hydric S	oils: <sup>3</sup>		
_				Alaska Color C		4		Alaska Claved Without H	
Histosol or				Alaska Color Cl		-		Alaska Gleyed Without H Underlying Layer	ue St of Redder
Histic Epipe				Alaska Redox V	-	-	$\checkmark$	Other (Explain in Remar	ks)
Hydrogen S	. ,				viui 2.51 i	lue			
	Surface (A12)			<sup>3</sup> One indicator of	hydrophyt	tic vegetatio	on, one prin	nary indicator of wetland I	nydrology,
Alaska Gley				and an appropria					
Alaska Red	. ,			<sup>4</sup> Give details of c	olor chang	e in Remarl	ks		
	ed Pores (A15)				5				
Restrictive Layer	r (if present):								
Type:								Hydric Soil Present	? Yes 🖲 No 🔾
Depth (inche	es):								
Remarks: descibing lake a	nd fresh sedge	fringe. ass	ume hydric	soil due to inundat	ion and hy	rdophytic v	egetation.		
HYDROLOG	GY								
Wetland Hydro	ology Indicat	ors:						Secondary Ind	cators (two or more are required)
Primary Indicat	ors (any one is	sufficient)						Water Sta	ined Leaves (B9)
✓ Surface Wa	ater (A1)			Inundation V	isible on A	erial Image	ery (B7)	Drainage I	Patterns (B10)
🗌 High Wate	r Table (A2)			Sparsely Veg	etated Cor	ncave Surfa	ice (B8)	Oxidized R	hizospheres along Living Roots (C3)
Saturation	(A3)			🗌 Marl Deposit	s (B15)			Presence of	of Reduced Iron (C4)
U Water Mar	ks (B1)			🗌 Hydrogen Su	lfide Odor	(C1)		Salt Depos	sits (C5)
Sediment [	Deposits (B2)			Dry-Season	Nater Tabl	e (C2)		Stunted or	Stressed Plants (D1)
Drift Depos	sits (B3)			🗌 Other (Expla	in in Rema	rks)		Geomorph	ic Position (D2)
🗌 Algal Mat d	or Crust (B4)							Shallow A	quitard (D3)
Iron Depos	sits (B5)							Microtopo	graphic Relief (D4)
Surface So	il Cracks (B6)							FAC-neutra	al Test (D5)
Field Observat	tions:	~	~						
Surface Water	Present?	Yes 🖲	No 🔾	Depth (inche	es): 0				
Water Table Pr	esent?	$_{\rm Yes} \bigcirc$	No 🖲	Depth (inche	es): 0		Wetla	nd Hydrology Preser	it? Yes $lacksquare$ No $igodom$
Saturation Pres (includes capill		$_{\rm Yes} \bigcirc$	No 🖲	Depth (inche	es): 0				
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:									
Remarks:									
can only guess how deep this lake is. prob relatively shallow considering aquatic veg and well developed fringe.									