WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampli	ng Date: 07-Aug-13
Applicant/Owner: Alaska Energy Authority		Sampling Point	SW13_T142_08
Investigator(s): WAD, RWM	Landform (hills	side, terrace, hummocks etc.): lake ba	ank
Local relief (concave, convex, none):	Slope: 0.0	% / 0.0 ° Elevation: 1195	
Subregion : Interior Alaska Mountains	Lat.: 63.09402442	Long.:148.296005845	Datum: WGS84
Soil Map Unit Name:		NWI classification	ו: Upland
	of year? Yes (nificantly disturbed? urally problematic?	 No (If no, explain in Remar Are "Normal Circumstances" presen (If needed, explain any answers in R 	t? Yes 🔍 No 🔾
SUMMARY OF FINDINGS - Attach site map showin	ng sampling point	locations, transects, important fe	eatures, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ● Yes ○ Yes ○	Is the Sampled Area within a Wetland?	Yes \bigcirc No $oldsymbol{igstar}$
Remarks: covex bank of pond. dry.			

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

			Abso	lute	Dominant	Indicator	Dominance Test worksheet:
Tre	e Stratum		% Co		Species?	Status	Number of Dominant Species
1.				0			That are OBL, FACW, or FAC:3 (A)
2.			-	0			Total Number of Dominant
3.			-	0			Species Across All Strata: (B)
4.			-	0			Percent of dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B)
 5.			-				
5.		Tatal Cause	-	0			Prevalence Index worksheet:
	_	Total Cover:		0	(=		Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 5	50% of Total Cover:	0	20% 0	of Total Cover:	0	OBL Species x 1 =
1.	Cassiope tetragona			15	\checkmark	FACU	FACW Species 9 x 2 = <u>18</u>
2.	Energy a far and a farm and			10	\checkmark	FAC	FAC Species <u>18.1</u> x 3 = <u>54.30</u>
3.	Salix polarie			5		FACW	FACU Species <u>20</u> x 4 = <u>80</u>
4.	Solix pulobro			2		FACW	UPL Species <u>1.1</u> x 5 = <u>5.500</u>
	Spiraga atovanii			2		FACU	Column Totals: 48.2 (A) 157.8 (B)
6.				0			
				0			Prevalence Index = B/A = <u>3.274</u>
				0			
				0			✓ Dominance Test is > 50%
			-	0			Prevalence Index is ≤ 3.0
		Total Cover:	5	34			\square Morphological Adaptations ¹ (Provide supporting data in
Her	b Stratum	50% of Total Cover:			of Total Cover:	6.8	Remarks or on a separate sheet)
1.	Carex atrofusca			2		FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Fastura altaina			4	\checkmark	FAC	¹ Indicators of hydric soil and wetland hydrology must
3.	Artemisia norvegica		_	2		FACU	be present, unless disturbed or problematic.
4.	Antennaria monocephala		_	1		UPL	
5.	Carex bigelowii		-	4	\checkmark	FAC	Plot size (radius, or length x width) <u>10m</u>
6.	Campanula lasiocarpa			0.1		UPL	% Cover of Wetland Bryophytes
7	Lumile environ			1		FACU	% Bare Ground
8.	Equipatum anyongo			0.1		FAC	Total Cover of Bryophytes
				0			
				0			Hydrophytic
10.		Total Cover:		4.2			Vegetation
	5	60% of Total Cover:			of Total Cover:	2.84	Present? Yes • No
Dam	arka						1
кет	arks:						

Depth (inches) C	Matrix	eeded to docum	nent the indicator o	Redox Featu			_	
	olor (moist)	%	Color (moist)	%	Type ¹	<u>Loc</u> ²	Texture	Remarks
0-2		100					Fibric Organics	-
2-10		100					Coarse Sand	
10-15 1	0YR 3/6	60	10YR 4/	6 40	RM	PL	Sandy Loam	
Type: C=Concentra		1. RM=Reduce			-		annel. M=Matrix	-
ydric Soil Indicat			Indicators fo		4	oils:	7	
	. ,			or Change (TA	-	L	Alaska Gleyed Without H Underlying Layer	lue 5Y or Redder
Histic Epipedon (ne swales (TA lox With 2.5Y I	,	Г	Other (Explain in Remar	ks)
Hydrogen Sulfide				0X WIUI 2.51 I	пие			
Thick Dark Surfa Alaska Gleyed (A)	· · ·						mary indicator of wetland	hydrology,
Alaska Gleyeu (A			and an appro	priate landscap	pe position	must be pr	esent	
Alaska Redox (A			⁴ Give details	of color chang	je in Remarl	ks		
estrictive Layer (if p	resent):							
Type: Depth (inches):							Hydric Soil Present	:? Yes 🔾 No 🖲
YDROLOGY								
	/ Indicators:						_Secondary Ind	icators (two or more are required)
etland Hydrology rimary Indicators (a	any one is sufficien	. <u>t)</u>						icators (two or more are required) ined Leaves (B9)
Yetland Hydrology rimary Indicators (a	any one is sufficien A1)	it)		on Visible on A	-	, , ,	Water Sta	ined Leaves (B9) Patterns (B10)
Yetland Hydrology rimary Indicators (a Surface Water (High Water Tab	any one is sufficien A1)		Sparsely	Vegetated Cor	-	, , ,	Water Sta	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3
Vetland Hydrology rimary Indicators (a Surface Water (a High Water Tabl Saturation (A3)	any one is sufficien A1) le (A2)		Sparsely	Vegetated Cor oosits (B15)	ncave Surfa	, , ,	Water Sta	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3 of Reduced Iron (C4)
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