WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampling	g Date: 05-Jul-13				
Applicant/Owner: Alaska Energy Authority		Sampling Point:	SW13_T136_04				
Investigator(s): SLI, SCB	Landform (hills	ide, terrace, hummocks etc.): Terrace					
Local relief (concave, convex, none): flat	Slope: 0.0	% / 0.0 ° Elevation: 501					
Subregion : Southcentral Alaska Lat.:	62.940275669	Long.: -149.14637959	Datum: WGS84				
Soil Map Unit Name:	NWI classification: PEM1E						
Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation , soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation , soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)							
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.							

Remarks: photo time 1445, #s 1249-1252. shallow organic layer over boulders w water. small hummocks/vegetated boulders w saplings. parts of site exposed rock w standing water.

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

		Absolute [Dominant	Indicator	Dominance Test worksheet:			
Tre	e Stratum			over	Species?	Status	Number of Dominant Species		
1.			-	0			That are OBL, FACW, or FAC: <u>3</u> (A)		
2.				0			Total Number of Dominant		
2. 3.							Species Across All Strata:3 (B)		
				0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)		
4.				0			That Are OBL, FACW, or FAC: (A/B)		
5.				0			Prevalence Index worksheet:		
Total Cover:			0			Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum	50% of Total Cover:	0	20%	of Total Cover:	0	OBL Species 26.1 x 1 = 26.1		
1.	Dasiphora fruticosa			15	\checkmark	FAC	FACW Species <u>13</u> x 2 = <u>26</u>		
2.	D'			2		FACW	FAC Species <u>16.2</u> x 3 = <u>48.60</u>		
3.	Retula nana			1		FAC	FACU Species <u>0.1</u> x 4 = <u>0.400</u>		
4.	Salix pulabra			1		FACW	UPL Species 0 x 5 = 0		
5.				0.1		FAC	Column Totals: 55.4 (A) 101.1 (B)		
6.	Salix alaxanaia			0.1		FAC			
7.	Potulo populoskopo			0.1		FACU	Prevalence Index = B/A = <u>1.825</u>		
8.				0			Hydrophytic Vegetation Indicators:		
				0			✓ Dominance Test is > 50%		
				0			✓ Prevalence Index is \leq 3.0		
Total Cover: 19.3						Morphological Adaptations ¹ (Provide supporting data in			
Herb Stratum 50% of Total Cover: 9.6		9.65	20%	of Total Cover:	3.86	Remarks or on a separate sheet)			
1.	Trichophorum caespitosum			20	\checkmark	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Carex saxatilis			10	\checkmark	FACW	¹ Indicators of hydric soil and wetland hydrology must		
3.	Carex limosa			5		OBL	be present, unless disturbed or problematic.		
4.	Carex aquatilis			1		OBL	Dist size (radius, ar length y width)		
5.	Trichophorum alpinum			0.1		OBL	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			Undraub, tie		
10.		Total Cover		86.1			Hydrophytic Vegetation		
50% of Total Cover: <u>18.05</u> 20% of Total Cover: <u>7.22</u> Present? Yes									
Darr	auka						1		
Remarks:									

	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features									
Depth (inches)			~~~~ Co		%	Type ¹	Loc ²	Texture	Remarks	
0-8	Color (mois	st) -	<u>/ </u>	olor (moist)	70	Туре	LOC	Sapric Organics	Keinako	
	·									
-										
						·				
		,								
¹ Type: C=Cor	ncentration. D=I	Depletion. RN	1=Reduced №	1atrix ² Location	n: PL=Pore	e Lining. RC	C=Root Cha	nnel. M=Matrix		
Hydric Soil I	ndicators:		In	dicators for Pr	oblematic	: Hydric So	oils: ³			
_	r Histel (A1)			Alaska Color Cl		4		Alaska Gleyed Without H	ue 5Y or Redder	
Histic Epip	. ,			Alaska Alpine s		-	-	Underlying Layer		
	Sulfide (A4)			Alaska Redox V		-		Other (Explain in Remark	ය)	
	k Surface (A12)		-							
Alaska Gle								nary indicator of wetland h	iydrology,	
Alaska Gle			a	nd an appropriat	te landscap	e position r	must be pre	esent		
	dox (A14) eyed Pores (A15)	`	4	Give details of co	olor change	e in Remark	s			
)								
Restrictive Laye	er (if present):								$\hat{}$	
Type:								Hydric Soil Present	? Yes $ullet$ No $igcap$	
Depth (incl	nes):									
Remarks:			_	_	_	_				
refusal at 8in b	gs - boulders									
	-									
HYDROLO	GY									
	rology Indicat	ors:						Secondary Indi	cators (two or more are required)	
-	tors (any one is								ned Leaves (B9)	
Surface W			[Inundation V	/isihle on A	erial Image	rv (B7)	_	Patterns (B10)	
High Wate			-	Sparsely Veg		-	, , ,		hizospheres along Living Roots (C3)	
Saturation	. ,		Γ	Marl Deposite					of Reduced Iron (C4)	
Water Ma	. ,			Hydrogen Su	, ,	(C1)		Salt Depos		
	Deposits (B2)		Ĺ	Dry-Season \					Stressed Plants (D1)	
	,		Ĺ	Other (Explained)				_	ic Position (D2)	
	or Crust (B4)		L			'KS)			juitard (D3)	
									graphic Relief (D4)	
· - ·	()									
	oil Cracks (B6)							TAC-Ileuu a	il Test (DS)	
Field Observa		Yes 🖲	$ \sim $	D. all (in the	`					
Surface Wate		-	-	Depth (inche	:s): 2				$\hat{}$	
Water Table F	Present?	Yes 🖲	No \bigcirc	Depth (inche	es): 2		Wetlaı	nd Hydrology Presen	t? Yes 🖲 No 🔾	
Saturation Pre (includes capi		Yes 🖲	No O	Depth (inche	es): 0					
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:										
Remarks:										