## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 07-Aug-13								
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW13_T196_01								
	gator(s): SLI, EAC		Landform (hill	side, terrac	e, hummocks etc.): Toeslope								
	elief (concave, convex, none): flat		Slope:	% / 2.5									
	ion : Interior Alaska Mountains	l at ·	 63.308701873		Long.: -148.203031421 Datum: NAD83								
_		Lat	03.300701070										
	p Unit Name:			<u> </u>	NWI classification: PEM1B								
	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  No  No  No  No  No  No  No  No  No												
	Are Vegetation , Soil , or Hydrology and naturally problematic? (If needed, explain any answers in Remarks.)												
Are v	egetation, Soil, or Hydrology	naturally	problematic?	(If nee	ded, explain any answers in Remarks.)								
SUMN	MARY OF FINDINGS - Attach site map sho	wing sa	impling point	locations	s, transects, important features, etc.								
	Hydrophytic Vegetation Present? Yes   No	$\overline{}$											
	Hydric Soil Present? Yes   No		pled Area										
	Wetland Hydrology Present? Yes ● No (	_	wi	thin a W	etland? Yes   No								
	arks: relatively small linear feature off road. dasfru and		dominate slightly	y more wet	portion of wetland to W of this point.								
VEGE	TATION - Use scientific names of plants. L	ict all cr	necies in the	nlot									
	OSC Scientific flames of plants. L				Dominance Test worksheet:								
Tree	e Stratum	Absolut % Cove		Indicator Status	Number of Dominant Species								
1.		0			That are OBL, FACW, or FAC: 2 (A)								
2.		0			Total Number of Dominant Species Across All Strata: 2 (B)								
3.		0			Percent of dominant Species								
4.		0			That Are OBL, FACW, or FAC: 100.0% (A/B)								
5.		0			Prevalence Index worksheet:								
	Total Cover	r: <u>0</u>			Total % Cover of: Multiply by:								
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cover:	0	OBL Species 44.2 x 1 = 44.2								
1	Picea glauca	1		FACU	FACW Species 1.1 x 2 = 2.200								
2.	Dasinhora fruticosa	15		FAC	FAC Species 28.1 x 3 = 84.30								
3.	Arctous ruber	3		FAC	FACU Species 1 x 4 = 4								
4.	Andromeda polifolia (IAM)	0	1	OBL	UPL Species <u>0</u> x 5 = <u>0</u>								
5.	Betula glandulosa			FAC	Column Totals: <u>74.4</u> (A) <u>134.7</u> (B)								
6.													
7.		_			Prevalence Index = B/A = 1.810								
8.		0			Hydrophytic Vegetation Indicators:								
9.		0			✓ Dominance Test is > 50%								
10.		0	_		✓ Prevalence Index is ≤3.0								
	Total Cover				☐ Morphological Adaptations <sup>1</sup> (Provide supporting data in								
Her	b Stratum 50% of Total Cover:				Remarks or on a separate sheet)								
1.	Rumex arcticus			FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)								
2.	Juncus biglumis	2		OBL	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.								
3.	Swertia perennis	- 1	-	FACW	be present, unless disturbed of problematic.								
4.	Tofieldia pusilla Trichophorum caespitosum	- <u>1</u>		FAC OBL	Plot size (radius, or length x width)								
5.	Spiranthes romanzoffiana	0.:		OBL	% Cover of Wetland Bryophytes								
6. 7.	Thalictrum alpinum			FAC	(Where applicable)								
8.	Parnassia palustris			FACW	% Bare Ground								
9.	Saussurea angustifolia	0.:		FAC	Total Cover of Bryophytes								
	Carex livida	2		OBL	Hydrophytic								
	Total Cover	- — r <b>:</b> _53.3	_		Vegetation								
			 )% of Total Cover:	10.66	Present? Yes • No ·								
Rem	50% of Total Cover:	26.65 20	% of Total Cover:		- (-)								

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SOIL Sampling Point: SW13\_T196\_01

		the depth no	eeded to docume	ent the indicator or co	nfirm the ab		ators)				
Depth (inches)	Color (mo	ist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-10	5YR	3/2	100	- Color (				Sapric Organics			
10-19	10YR	3/1	100					Coarse Sand	25% subrounded cobbles 10% subrounded		
									23 // Subiodifided Cobbles 10 // Subiodifided		
¹Type: C=Cor	ncentration. D=	:Depletion	. RM=Reduced	d Matrix <sup>2</sup> Location	n: PL=Pore	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pr	oblematio	: Hydric So	oils: <sup>3</sup>				
Histosol or	r Histel (A1)			Alaska Color Cl	nange (TA4	4 1)		Alaska Gleyed Without H	ue 5Y or Redder		
✓ Histic Epip	` ,			Alaska Alpine s	wales (TA5	5)		Underlying Layer			
	Sulfide (A4)			Alaska Redox V	Nith 2.5Y F	lue		Other (Explain in Remarks)			
	Surface (A12)										
Alaska Gle								nary indicator of wetland h	ydrology,		
Alaska Red				and an appropriat		·	•	esent			
	eyed Pores (A15	5)		<sup>4</sup> Give details of co	olor change	e in Remark	s				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	? Yes ● No O		
Depth (inch	nes):										
HYDROLO	GY										
Wetland Hyd	rology Indica	tors:						Secondary Indi	cators (two or more are required)		
Primary Indica	tors (any one i	s sufficien	t)					Water Stair	ned Leaves (B9)		
Surface Water (A1)				☐ Inundation V	isible on A	erial Imager	ry (B7)	Drainage Patterns (B10)			
☐ High Water Table (A2)				Sparsely Veg	etated Cor	cave Surfac	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)		
Saturation (A3)				Marl Deposits	s (B15)			Presence o	f Reduced Iron (C4)		
☐ Water Marks (B1)				Hydrogen Su	lfide Odor	(C1)		Salt Depos	its (C5)		
Sediment Deposits (B2)				✓ Dry-Season \	Nater Table	e (C2)		Stunted or	Stressed Plants (D1)		
☐ Drift Depo				Other (Explai	in in Rema	rks)		Geomorphi	ic Position (D2)		
Algal Mat						Shallow Aq	uitard (D3)				
Iron Depo	sits (B5)							Microtopog	raphic Relief (D4)		
☐ Surface S	oil Cracks (B6)							✓ FAC-neutra	l Test (D5)		
Field Observa	ations:										
Surface Water	r Present?		No 💿	Depth (inche	es):						
Water Table F	resent?	Yes 🤄	No 🔾	Depth (inche	es): 17		Wetla	nd Hydrology Presen	t? Yes 💿 No 🔾		
Saturation Pre (includes capi		Yes •	No O	Depth (inche	es): 13						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											

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