## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 09-Jul-13		
Applic	ant/Owner: Alaska Energy Authority			-	Sampling Point: SW13_T123_06		
	gator(s): WAD. BAB		Landform (hill:	side. terrac	ee, hummocks etc.): Hillside		
	relief (concave, convex, none): hummocky		Slope: 14.0		-		
	,,,,	l ot :					
	gion : Southcentral Alaska	Lal	62.751952171				
	ap Unit Name:				NWI classification: PSS1/EM1B		
Are \	matic/hydrologic conditions on the site typical for this /egetation $\Box$ , Soil $\Box$ , or Hydrology $\Box$ /egetation $\Box$ , Soil $\Box$ , or Hydrology $\Box$	significantl	r? Yes ' ly disturbed? roblematic?		(If no, explain in Remarks.)  Iormal Circumstances" present? Yes ● No ○  eded, explain any answers in Remarks.)		
SUM	MARY OF FINDINGS - Attach site map sh		npling point	iocations	s, transects, important features, etc.		
	Hydrophytic Vegetation Present? Yes   No	_	le	tha Sam	pled Area		
	Hydric Soil Present? Yes ● No	$\circ$		thin a W	-		
	Wetland Hydrology Present? Yes   No	0	WI	ının a vv	etianu?		
Ren	narks: photo num 1251,1252 photo time 1450						
VEGI	ETATION -Use scientific names of plants.	List all sne	ecies in the	nlot.			
	23 Section in Maries of plants.	List all sp	ceres in the	piot.	Dominance Test worksheet:		
Tro	e Stratum	Absolute % Cover		Indicator Status	Number of Dominant Species		
1.	e Stratum_	0		<u> </u>	That are OBL, FACW, or FAC:4 (A)		
2.	-		. 🗀		Total Number of Dominant Species Across All Strata: 5 (B)		
3.			·				
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 80.0% (A/B)		
5.					December 2 Tenders considerate		
	Total Cove	er: 0			Prevalence Index worksheet:  Total % Cover of: Multiply by:		
Sa	oling/Shrub Stratum 50% of Total Cover:	0 20%	6 of Total Cover:	0	OBL Species 2 x 1 = 2		
	Collin rotioulate	15	<b>✓</b>	FAC	FACW Species 8.1 x 2 = 16.20		
2.	Salix reticulata  Empetrum nigrum		. 🔻	FAC	FAC Species53.2		
3.	Vaccinium uliginosum			FAC	FACU Species 8 x 4 = 32		
4.	Dasiphora fruticosa	_ <u>10</u> 5		FAC	UPL Species 0 x 5 = 0		
5.	Saliv pulchra		·	FACW			
6.	Vaccinium vitis-idaea			FAC	Column Totals:71.3 (A)209.8 (B)		
7.	Table I adda	0			Prevalence Index = B/A =		
8.					Hydrophytic Vegetation Indicators:		
9.		0			✓ Dominance Test is > 50%		
10.		0			✓ Prevalence Index is ≤3.0		
He	Total Cover: 50% of Total Cover:	: 8.02	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)				
1.	Dodecatheon pulchellum	1		FACW	Problematic Hydrophytic Vegetation (Explain)		
2.	Platanthera hyperborea	0.1		FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
3.	Carex bigelowii	15	<b>✓</b>	FAC	be present, unless disturbed or problematic.		
4.	Sanguisorba canadensis	_ 5	<b>✓</b>	FACW	Plot size (radius, or length x width) 10m		
5.	Anemone parviflora			FACU	% Cover of Wetland Bryophytes		
6.	Artemisia norvegica			FACU	(Where applicable)		
7.	Eriophorum angustifolium	2		OBL	% Bare Ground		
8.	Achillea millefolium			FACU	Total Cover of Bryophytes		
9.	Solidago multiradiata	$-\frac{1}{0.1}$		FACU FAC			
10.	Valeriana capitata  Total Cove	Hydrophytic Vegetation					
1	i otal Cove	er: <u>31.2</u>			* Cyclation		
	50% of Total Cover:	15.6 20%	of Total Cover:	6.24	Present? Yes • No •		

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SOIL Sampling Point: SW13\_T123\_06

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)										
Depth	latrix		dox Featu		. 2	Taveture	Domanto			
(inches) Color (mois	st) %	Color (moist)	<u>%</u>	Type <sup>1</sup>	_Loc_2	Texture Crannica	Remarks			
0-4						Fibric Organics	tiny sand layer below this layer			
4-8			_			Hemic Organics				
8-10						Sapric Organics	beyond this is rocks			
<sup>1</sup> Type: C=Concentration. D=	Depletion. RM:	=Reduced Matrix <sup>2</sup> Locatio	n: PL=Pore	Lining. RC	=Root Cha	nnel. M=Matrix				
Hydric Soil Indicators:  Indicators for Problematic Hydric Soils:  Histosol or Histel (A1)  Alaska Color Change (TA4)						Alaska Gleyed Without Hue 5Y or Redder				
✓ Histic Epipedon (A2)			Alaska Color Change (1A4)  Alaska Slpine swales (TA5)  Underlying Layer							
Hydrogen Sulfide (A4)		_	Alaska Redox With 2.5Y Hue  Other (Explain in Remarks)							
Thick Dark Surface (A12)										
Alaska Gleyed (A13)						nary indicator of wetland h	ydrology,			
Alaska Redox (A14)		and an appropria	te landscap	e position r	nust be pre	esent				
Alaska Gleyed Pores (A15	)	<sup>4</sup> Give details of o	color change	in Remark	S					
Restrictive Layer (if present):										
Туре:						<b>Hydric Soil Present</b>	? Yes ● No O			
Depth (inches):										
HYDROLOGY										
Wetland Hydrology Indicat	ors:					Secondary Indi	cators (two or more are required)			
Primary Indicators (any one is							ned Leaves (B9)			
✓ Surface Water (A1)		☐ Inundation \	/isible on Ae	erial Image	ry (B7)	Drainage Patterns (B10)				
✓ High Water Table (A2)		Sparsely Veg		-	, , ,	Oxidized Rhizospheres along Living Roots (C3)				
✓ Saturation (A3)		Marl Deposit	s (B15)			Presence of	of Reduced Iron (C4)			
Water Marks (B1)		Hydrogen Su	ılfide Odor (	(C1)		Salt Depos	its (C5)			
Sediment Deposits (B2)		Dry-Season	Water Table	e (C2)		Stunted or	Stressed Plants (D1)			
Drift Deposits (B3)		Other (Expla	in in Remar	ks)			ic Position (D2)			
Algal Mat or Crust (B4)							quitard (D3)			
☐ Iron Deposits (B5)							graphic Relief (D4)			
Surface Soil Cracks (B6)						☐ FAC-neutra	al Test (D5)			
Field Observations:	Yes   N	lo O	\- 2							
Surface Water Present?			•		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	. d 11d l	v 0 v.			
Water Table Present?	Yes   N		es): 7		wetiai	nd Hydrology Presen	t? Yes • No O			
Saturation Present? (includes capillary fringe)	Yes   N	lo O Depth (inch	es): 4							
Describe Recorded Data (strea	m gauge, mor	nitor well, aerial photos, pre	vious inspec	ction) if ava	ilable:					
Remarks:										
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