WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	ka-Susitna Borough Sampling Date: 08-Jul-13							
Applica	ant/Owner: Alaska Energy Authority		Sampling Point: SW13_T131_04									
Investig	gator(s): SLI, SCB	lside, terrac	ce, hummocks etc.): Terrace									
-	elief (concave, convex, none): hummocky		Slope:		3 ° Elevation: 106							
	ion : Interior Alaska Mountains	Lat ·	 62.97512078		Long.: -148.271301627 Datum: NAD83							
_		<u> </u>	NWI classification: PSS1B									
	matic/hydrologic conditions on the site typical for this t	•			(If no, explain in Remarks.) Jormal Circumstances" present? Yes ● No ○							
		•	itly disturbed?		tornal olloanistarioco present:							
Are v	egetation , Soil , or Hydrology	naturally	problematic?	(If nee	eded, explain any answers in Remarks.)							
SUM	MARY OF FINDINGS - Attach site map sho	wing sa	mpling point	locations	s, transects, important features, etc.							
	Hydrophytic Vegetation Present? Yes ● No	\supset		410	. 1. 1.4							
	Hydric Soil Present? Yes No	\supset		Is the Sampled Area								
	Wetland Hydrology Present? Yes No	\supset	W	within a Wetland? Yes ● No ○								
Rema	arks:											
VEGE	TATION - Use scientific names of plants. L	ist all sr	pecies in the	plot.								
		Absolut			Dominance Test worksheet:							
Tree	e Stratum	% Cove		Status	Number of Dominant Species							
1.		0			That are OBL, FACW, or FAC:							
2.		0			Total Number of Dominant Species Across All Strata: 5 (B)							
3.					Percent of dominant Species							
4.		0			That Are OBL, FACW, or FAC: 80.0% (A/B)							
5.		0			Prevalence Index worksheet:							
	Total Cover	r: <u> </u>			Total % Cover of: Multiply by:							
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cover	:0	OBL Species 0.1 x 1 = 0.1							
1.	Salix pulchra	10		FACW	FACW Species 12 x 2 = 24							
2.	Retula nana			FAC	FAC Species :####; x 3 = 169.8							
3.	Vaccinium uliginosum			FAC	FACU Species 3.3 x 4 = 13.2							
4.	Rhododendron tomentosum	2		FACW	UPL Species 0 x 5 = 0							
5.	Empetrum nigrum	15		FAC	Column Totals: 72 (A) 207.1 (B)							
6.	Salix reticulata	2		FAC								
7.	Vaccinium vitis-idaea	0.1	L	FAC	Prevalence Index = B/A = 2.876							
8.	Dasiphora fruticosa	1		FAC	Hydrophytic Vegetation Indicators:							
9.	Spiraea stevenii	0.1	L \square	FACU	✓ Dominance Test is > 50%							
10.	Cassiope tetragona	0.1	ı 🗆	FACU	✓ Prevalence Index is ≤3.0							
	Total Cover				Morphological Adaptations ¹ (Provide supporting data in							
Her	b Stratum 50% of Total Cover:	32.65 20	_	r: <u>13.06</u>	Remarks or on a separate sheet)							
1.	Carex bigelowii	3	_	FAC	Problematic Hydrophytic Vegetation (Explain)							
2.	Bistorta plumosa	0.1		FACU	¹ Indicators of hydric soil and wetland hydrology must							
3.	Anthoxanthum monticola ssp. alpinum	1		UPL	be present, unless disturbed or problematic.							
4.	Festuca altaica	0.1		FAC	Plot size (radius, or length x width) 10m							
5.	Carex scirpoidea	2		FACU	% Cover of Wetland Bryophytes							
6.	Carex vaginata	0.1		OBL	(Where applicable)							
7.	Poa arctica	0.1		FAC	% Bare Ground							
8.	Bistorta vivipara	0.1		FAC	Total Cover of Bryophytes							
9.	Trisetum spicatum	0.1		FAC								
10.	Polemonium acutiflorum	0.1	_	FAC	Hydrophytic							
	Total Cover 50% of Total Cover:		_ % of Total Cover	: 1.34	Vegetation Present? Yes ● No ○							
	_				I							
Rem	arks: Numerous dead salpul anb betnan branches a coll.	nd whole	shrubs. Traces	of additiona	al carex spp, poa sp (TBD), Stellaria longipes. two grasses							

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SOIL Sampling Point: SW13_T131_04

		the depth ne	eded to docum	ent the indicator or co	nfirm the ab		ators)					
Depth (inches)	Color (mo		%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks			
0-2	Coloi (IIIC	istj		Color (Illoist)		Туре	LUC	hemic organics	To the state of th			
	7 FVD	2/2						Hemic Organics				
2-12	7.5YR	3/2	95					nemic Organics	w 5% 10YR3/3 silt loam inclusions			
	-				-		-					
							-					
¹ Type: C=Con	¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix											
Hydric Soil In	ndicators:			Indicators for Pr	oblemati	Hydric So	oils: ³					
Histosol or	Histel (A1)			Alaska Color C	hange (TA	1)4		Alaska Gleyed Without Hue 5Y or Redder				
✓ Histic Epipe	edon (A2)			Alaska Alpine	pine swales (TA5) Underlying Layer							
Hydrogen S	Sulfide (A4)			Alaska Redox V	With 2.5Y H	lue		Other (Explain in Remark	(S)			
☐ Thick Dark	Surface (A12)		_								
Alaska Gley	yed (A13)							nary indicator of wetland h	ydrology,			
Alaska Red				and an appropria	te iaiiuscaț	e position i	nust be pre	esent				
Alaska Gley	yed Pores (A1	5)		4 Give details of c	olor chang	e in Remark	S					
Restrictive Laye	r (if present):											
Type:								Hydric Soil Present	? Yes • No O			
Depth (inch	es):							•				
Remarks:												
refusal at 12in -	bodiacis											
HYDROLO	GY											
Wetland Hydr		itors:						Secondary Indi	cators (two or more are required)			
Primary Indicat)					Water Stained Leaves (B9)				
Surface W	ater (A1)			☐ Inundation V	isible on A	erial Imager						
✓ High Water Table (A2)				Sparsely Veg		_		Oxidized Rhizospheres along Living Roots (C3)				
Saturation (A3)				☐ Marl Deposit			(==)		of Reduced Iron (C4)			
Water Marks (B1)				Hydrogen Su	, ,	(C1)		Salt Depos	its (C5)			
Sediment Deposits (B2) Dry-Season Water Table (C2)									Stressed Plants (D1)			
Drift Deposits (B3) Other (Explain in Remarks)									ic Position (D2)			
	or Crust (B4))			juitard (D3)			
☐ Iron Depo									graphic Relief (D4)			
	oil Cracks (B6)								Il Test (D5)			
Field Observa	. ,											
Surface Water		Yes 〇	No 💿	Depth (inche	es):							
Water Table P			No O	, ,	•		Wetla	nd Hydrology Presen	t? Yes • No O			
Saturation Pre				Depth (inche	es): 12		Weda	na rryarology r resen	ti les C No C			
(includes capill		Yes •	No O	Depth (inche	es): 10							
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												

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