WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 03-Aug-13			
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T173_06			
	gator(s): BAB		Landform (hillside, terrace, hummocks etc.): Footslope					
	elief (concave, convex, none): concave		Slope: 8.7 % / 5.0 ° Elevation: 1064					
_	jion : Interior Alaska Mountains	Lat	63.1639814749 Long.: -148.262490761 Datum: WGS84					
	p Unit Name:			<u> </u>	NWI classification: Upland			
Are V Are V		significantly naturally proving sam	/ disturbed? oblematic?	(If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.			
			Is	Is the Sampled Area				
			within a Wetland? Yes ○ No ●					
	Wetland Hydrology Present? Yes ● No ○ arks:							
	ETATION - Use scientific names of plants. Lis	st all spe Absolute M Cover	cies in the Dominant Species?		Dominance Test worksheet: Number of Dominant Species That are ORL FACW or FACCO.			
1.		0			That are OBL, FACW, or FAC: 4 (A)			
2.		0_			Total Number of Dominant Species Across All Strata: 4 (B)			
3.					Percent of dominant Species			
4.		0			That Are OBL, FACW, or FAC:			
5.		0			Prevalence Index worksheet:			
	Total Cover:				Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species 20 x 1 = 20			
1	Salix pulchra	85	✓	FACW	FACW Species 104 x 2 = 208			
	Saliv harolavi	5		FAC	FAC Species 53 x 3 = 159			
	Betula nana	5		FAC	FACU Species 3 x 4 = 12			
4.	Cornus suecica	1		FAC	UPL Species 0 x 5 = 0			
5.					Column Totals: 180 (A) 399 (B)			
6.								
7.		0			Prevalence Index = B/A = 2.217			
8.		0			Hydrophytic Vegetation Indicators:			
9.		0			✓ Dominance Test is > 50%			
10.		0			✓ Prevalence Index is ≤3.0			
Her	Total Cover: b Stratum 50% of Total Cover:		of Total Cover	: 19.2	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
1.	Swertia perennis	_1_		FACW	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Calamagrostis canadensis	5		FAC	¹ Indicators of hydric soil and wetland hydrology must			
3.	Petasites frigidus			FACW	be present, unless disturbed or problematic.			
4.	Sedum rosea	2		FAC	Plot size (radius, or length x width)			
5.	Sanguisorba canadensis		~	FACW	% Cover of Wetland Bryophytes			
6.	Equisetum arvense	5		FAC	(Where applicable)			
7.	Carex podocarpa			FAC	% Bare Ground			
8.	Carex bigelowii			FAC	Total Cover of Bryophytes			
9.	Solidago multiradiata	3		FACU				
10.	Carex lasiocarpa		✓	OBL	Hydrophytic			
	Total Cover: 50% of Total Cover:	16.8	Vegetation Present? Yes ● No ○					
		42 20%	of Total Cover:		1			
Rem	arks: rubarc, polpul, astalp trace,							

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SOIL Sampling Point: SW13_T173_06

Profile Description: (Describe to the depth needed to d					onfirm the ab		ators)					
Depth (inches)	Color (me	nist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks			
0-3	COIOI (IIII	Jiscy	100	Color (moist)		Турс	LUC	Fibric Organics				
3-24	10YR	3/2	60					Silt Loam	10yr 3/4 sand 40%. Interbedded. fluvial?			
					_			JIC LOUIT	Toyr 3/4 sand 40%. Interbedded. Huviair			
									,			
							-					
								-				
¹Type: C=Cor	¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix											
Hydric Soil I	ndicators:			Indicators for P	roblematio	c Hydric So	oils: ³					
☐ Histosol or Histel (A1) ☐ Alaska Color Change (TA4)						1)4	Alaska Gleyed Without Hue 5Y or Redder					
Histic Epip	edon (A2)			Alaska Alpine swales (TA5) Underlying Layer								
	Sulfide (A4)			Alaska Redox	With 2.5Y H	lue		Other (Explain in Remark	her (Explain in Remarks)			
	Surface (A12)										
Alaska Gle	-	,						nary indicator of wetland h	ydrology,			
Alaska Rec				and an appropria	te landscap	e position r	nust be pre	esent				
	yed Pores (A1	5)		4 Give details of o	olor chang	e in Remark	S					
Restrictive Laye	er (if present):											
Type:	, ,							Hydric Soil Present	? Yes ○ No ●			
Depth (inch	nes):											
Remarks:	.00).											
HYDROLO	GY											
Wetland Hydi	rology Indica	ators:						Secondary Indi	cators (two or more are required)			
Primary Indica	tors (any one	is sufficient						Water Stained Leaves (B9)				
Surface W	/ater (A1)			☐ Inundation \	/isible on A	erial Imager						
High Water Table (A2)				Sparsely Veg		-		Oxidized Rhizospheres along Living Roots (C3)Presence of Reduced Iron (C4)				
Saturation (A3)				Marl Deposit			(==)					
Water Marks (B1)				Hydrogen Su	. ,	(C1)		Salt Depos	` '			
✓ Sediment Deposits (B2) □ Dry-Season Water Table (i									Stressed Plants (D1)			
☐ Drift Deposits (B3) ☐ Other (Explain in Re									ic Position (D2)			
. — .	` ,			Other (Expla	iii iii Keilia	113)			uitard (D3)			
	☐ Algal Mat or Crust (B4) ☐ Iron Deposits (B5)								raphic Relief (D4)			
Surface Soil Cracks (B6)								✓ FAC-neutra				
Field Observa	` '	'						The neutro	1 1050 (155)			
Surface Water		Yes O	No 💿	Depth (inche	ec).							
		_	No •		,		Wat la	u d Haduala ara Dua a a a	t? Yes • No O			
Water Table P				Depth (inche	es):		wetia	nd Hydrology Presen	t? Yes • No ·			
Saturation Present? (includes capillary fringe) Yes No Depth (inches):												
Describe Record	ded Data (stre	eam gauge,	monitor well,	aerial photos, pre	vious inspe	ection) if ava	ilable:					
Remarks:												

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