WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 01-Aug-12						
Applica	nt/Owner: Alaska Energy Authority		Sampling Point: SW12_T41_07								
Investigator(s): SLI, KMK Landform (hillside, terrace, hummocks etc.): Hillside											
Local r	elief (concave, convex, none): hummocky		Slope:	% / 13.4	-						
Subrea	ion : Interior Alaska Mountains	Lat.	62.79481306	 15	Long.: -148.016689074 Datum: NAD83						
_	p Unit Name:		. 02.70401000	10	NWI classification: Upland						
	natic/hydrologic conditions on the site typical for this	time of w	oor? Vee	● No ○	(If no, explain in Remarks.)						
Are V Are V	egetation , Soil , or Hydrology egetation , Soil , or Hydrology	significa naturally	intly disturbed? problematic?	Are "N (If nee	ormal Circumstances" present? Yes No O ded, explain any answers in Remarks.)						
	MARY OF FINDINGS - Attach site map sh		ampling point	locations	s, transects, important features, etc.						
	Hydrophytic Vegetation Present? Yes No		le	the Sam	pled Area						
	Hydric Soil Present? Yes No			ithin a W	_						
Rema	Wetland Hydrology Present? Yes O No	•	00	1011111 a vv	etiana:						
	ETATION - Use scientific names of plants.	List all s	ite Dominant	plot. Indicator Status	Dominance Test worksheet: Number of Dominant Species						
	e Stratum Betula neoalaskana		.0 V	FACU	That are OBL, FACW, or FAC: 4 (A)						
	Diago planta		so 🔽	FACU	Total Number of Dominant						
3.	Picea giauca			170	Species Across All Strata: 6 (B)						
4.					Percent of dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)						
5.					Describeras Index weeksheets						
	Total Cov	er:)		Prevalence Index worksheet: Total % Cover of: Multiply by:						
Sap	ling/Shrub Stratum 50% of Total Cover:	20 2	0% of Total Cover	:8	OBL Species 0 x 1 = 0						
1	Alnus viridis	2	0	FAC	FACW Species 0 x 2 = 0						
2.	Spiraea stevenii		1	FACU	FAC Species 81 x 3 = 243						
3.	Rosa acicularis		5 🗆	FACU	FACU Species 63 x 4 = 252						
4.	Rhododendron groenlandicum		5 🗌	FAC	UPL Species 0 x 5 = 0						
5.	Empetrum nigrum		5 🗆	FAC	Column Totals: <u>144</u> (A) <u>495</u> (B)						
6.	Vaccinium uliginosum	1	.5	FAC							
7.	Vaccinium vitis-idaea	1	.0	FAC	Prevalence Index = B/A = 3.438						
8.	Salix commutata	!	5	FAC	Hydrophytic Vegetation Indicators:						
9.	Linnaea borealis		7	FACU	✓ Dominance Test is > 50%						
10.	Salix barclayi		1	FAC	Prevalence Index is ≤3.0						
	Total Cov b Stratum 50% of Total Cover:		L 20% of Total Cove	r: 440	Morphological Adaptations (Provide supporting data in						
-					Remarks or on a separate sheet)						
	Mertensia paniculata		<u>2</u>	FACU	Problematic Hydrophytic Vegetation (Explain)						
	Cornus canadensis Equisetum sylvaticum			FACU FAC	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.						
	Lucas addina alamatima		3	FACU							
	Lycopodium ciavatum			TACO	Plot size (radius, or length x width) 10m						
					% Cover of Wetland Bryophytes (Where applicable)						
			\Box		% Bare Ground						
					Total Cover of Bryophytes						
					Hydrophytic						
	Total Cov				Vegetation						
	50% of Total Cover:	<u>15</u> 2	0% of Total Cover	:6	Present? Yes ♥ No ∪						
Rem	arks: trace petfri. salix and grass collected for con	firmation	- not same as co	llected 7/31	/12.						

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SOIL Sampling Point: SW12_T41_07

Profile Description	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features						ators)					
Depth (inches)	Color (mo		%	Color (moist)	%	Type ¹	_Loc_2	Texture	Remarks			
0-2	Color (IIIo	ist)	-70	Color (Illoist)		Туре	LUC	Fibric Organics	T.C.II.			
2-4								Hemic Organics				
4-5					_			Sapric Organics				
	10)/D	2/2						Sapric Organics				
5-16	10YR	3/2	60						distubance, see remarks			
¹Type: C=Con	centration. D=	Depletion.	RM=Reduce	d Matrix ² Locatio	n: PL=Pore	e Lining. RC	=Root Cha	nnel. M=Matrix				
Hydric Soil Ir	dicators:			Indicators for P	roblematio	Hydric So	oils: ³					
Histosol or	Histosol or Histel (A1) Alaska Color Change (TA4)							Alaska Gleyed Without Hue 5Y or Redder				
Histic Epip	edon (A2)			Alaska Alpine	swales (TA5	5)		Underlying Layer				
Hydrogen :	Sulfide (A4)			Alaska Redox	With 2.5Y F	lue		Other (Explain in Remark	rs)			
Thick Dark	Surface (A12)			3 One indicator of	i buduan bud	ia vaaatatia		name indicator of wetland b	vidro lo qui			
Alaska Gle	yed (A13)			and an appropria				nary indicator of wetland h esent	ydrology,			
Alaska Red	` '			4 Give details of o	olor change	e in Remark	rs.					
	yed Pores (A15)										
Restrictive Laye	r (if present):											
Type:	00).							Hydric Soil Present	? Yes ○ No •			
Depth (inch	es):											
no hydric soil indicators. 5-16in: distubance indicators include some charcoal, buried lenses of sapric organics and lenses of sand deposition throughout mineral horizon [40% of horizon].												
HYDROLO	GY											
Wetland Hydr		tors:						Secondary Indi	cators (two or more are required)			
Primary Indicat								Water Stained Leaves (B9)				
Surface Water (A1)				☐ Inundation Visible on Aerial Imagery (B7)				☐ Drainage Patterns (B10)				
High Water Table (A2)				Sparsely Veg	jetated Con	cave Surfac	ce (B8)	Oxidized Rhizospheres along Living Roots (C3)				
Saturation (A3)				Marl Deposit	s (B15)				f Reduced Iron (C4)			
Water Marks (B1)				Hydrogen Su	ılfide Odor	(C1)		Salt Depos	its (C5)			
Sediment Deposits (B2)				Dry-Season		. ,			Stressed Plants (D1)			
Drift Deposits (B3) Other (Explain in						rks)			ic Position (D2)			
	or Crust (B4)								uitard (D3)			
☐ Iron Depo					_	raphic Relief (D4) Il Test (D5)						
Field Observa	oil Cracks (B6)							FAC-Heutra	il Test (D5)			
Surface Water		Yes 〇	No	Depth (inch	-c).							
Water Table P		Yes O	_	, ,	•		Wetla	nd Hydrology Presen	t? Yes ○ No •			
Saturation Pre				Depth (inch	es):		Wetiai	na riyarology Fresch	ti les C NO C			
(includes capil		Yes O	No 🖭	Depth (inch	es):							
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												
no wetland hyd	rology indicato	rs										

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