WETLAND DETERMINATION DATA FORM - Alaska Region

TOJECT	/Site: Susitna-Watana Hydroelectric Project		В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 26-Jun-12		
Applica	nt/Owner: Alaska Energy Authority					Sampling Point: SW12_T20_11		
nvestig	gator(s): JGK			Landform (hills	side, terrac	e, hummocks etc.): Knob		
Local r	elief (concave, convex, none): convex			Slope:	% / 2.9	° Elevation: 567		
Subrea	ion : Southcentral Alaska		Lat.:	62.724908190		Long.: -148.82883579 Datum: NAD83		
_	p Unit Name:	_		02.72 1000 100		NWI classification: Upland		
	natic/hydrologic conditions on the site typical for	this time	of voor	2 Yes	● No ○	(If no, explain in Remarks.)		
Are V Are V	egetation , Soil , or Hydrology egetation , Soil , or Hydrology	☐ signi	ficantly rally pr	/ disturbed? oblematic?	Are "N (If nee	ormal Circumstances" present? Yes No O ded, explain any answers in Remarks.)		
SUMN	MARY OF FINDINGS - Attach site map		g sam	ipling point	locations	s, transects, important features, etc.		
	, , , , , , , , , , , , , , , , , , , ,	No O		lo	tha Cam	nlad Araa		
	,	No 💿				pled Area etland? Yes ◯ No ◉		
Rema	7 37	No 💿		WI	uiiii a vv	Vetland? Yes ○ No ●		
/EGE	TATION -Use scientific names of plar	nts. List a	II spe	cies in the	olot.			
			solute	Dominant		Dominance Test worksheet:		
	e Stratum Picea mariana	_%_	Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC:4 (A)		
2.	Picea manana		7	✓	FACW	Total Number of Dominant		
3.						Species Across All Strata:4 (B)		
4.			0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)		
5.			0			Prevalence Index worksheet:		
	Total	Cover:	7			Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum 50% of Total Cove	r: <u>3.5</u>	_ 20%	of Total Cover:	1.4	OBL Species0 x 1 =0		
1.	Vaccinium uliginosum		15	✓	FAC	FACW Species 32 x 2 = 64		
	Vaccinium vitis-idaea		5		FAC	FAC Species <u>45</u> x 3 = <u>135</u>		
3.	Rhododendron tomentosum		25	✓	FACW	FACU Species 0 x 4 = 0		
4.	Betula glandulosa		20	✓	FAC	UPL Species <u>0</u> x 5 = <u>0</u>		
5.	Empetrum nigrum		5		FAC	Column Totals:77 (A)199 (B)		
6.			0_			Prevalence Index = B/A = 2.584		
7.			0			Prevalence Index = B/A =2.584		
8.						Hydrophytic Vegetation Indicators:		
			0			✓ Dominance Test is > 50%		
10.		_				✓ Prevalence Index is ≤3.0		
Her	b Stratum 50% of Total Cove	-	<u>70</u> 20%	of Total Cover	14	 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 		
1.			0			Problematic Hydrophytic Vegetation ¹ (Explain)		
2.			0			¹ Indicators of hydric soil and wetland hydrology must		
3.						be present, unless disturbed or problematic.		
						Plot size (radius, or length x width)		
						% Cover of Wetland Bryophytes 2		
						(Where applicable)		
			0			% Bare Ground		
						Total Cover of Bryophytes		
10.	Total	Cover:	0			Hydrophytic Vegetation		
1		_		of Total Covers	0	Present? Yes • No •		
	50% of Total Cove	r: _ 0	_ 20/0	or rotal cover.	0			

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SOIL Sampling Point: SW12_T20_11

JUIL								Sampinig) Point: 3W12_12U_11		
Profile Description	•		eeded to doci	ument the indicator or cor			cators)				
Depth (inches)	Matrix					x Features	. 2	Taratura	Damarka		
(inches) 0-1	Color (moist)		<u>%</u>	Color (moist)	_%_	Type ¹	<u>Loc</u> ²	Texture Fibric Organics	Remarks 20% roots		
								Sapric Organics	-		
1-2									w/charcoal 20%		
2-4	7.5YR	3/4						Fine Sandy Loam	inclusions of oxidized areas		
4-7	5YR	2.5/2						Coarse Loamy Sand	coarse sand to rounded cobbles (10%)		
7-13	10R	2.5/1	85					Very Coarse Loamy Sand	gradation into 5YR 2.5/2coarse S-rounded		
13-17	7.5YR	2.5/3	100					Very Coarse Loamy Sand			
									·		
¹Type: C=Con	centration. D	=Depletion	ı. RM=Redu	ced Matrix ² Location	n: PL=Por	e Lining. RC	C=Root Cha	nnel. M=Matrix			
Hydric Soil In	ndicators:			Indicators for Pro	oblemati	c Hydric So	oils: ³				
Histosol or	Histel (A1)			Alaska Color Ch	nange (TA	4 4)		Alaska Gleyed Without H	lue 5Y or Redder		
Histic Epipe	edon (A2)			Alaska Alpine s	wales (TA	5)		Underlying Layer			
Hydrogen S	Sulfide (A4)			Alaska Redox V	Vith 2.5Y I	Hue	Ш	Other (Explain in Remar	ks)		
	Surface (A12	.)		³ One indicator of	hydrophy	tic vegetatic	on one prim	nary indicator of wetland I	hydrology		
Alaska Gley				and an appropriat					rydrology,		
Alaska Red	. ,	- \		4 Give details of co	olor chang	ie in Remark	ks				
-	yed Pores (A1										
Restrictive Laye	r (if present):								O . O		
Type:	. 3							Hydric Soil Present	:? Yes ○ No •		
Depth (inch	es):										
Remarks:											
:::/5501.0											
HYDROLO	_	· •						Consider to the			
Wetland Hydr Primary Indicat			n+)					Secondary Indicators (two or more are required) Water Stained Leaves (B9)			
Surface W		15 Junicien	<u>()</u>	Inundation V	isible on A	Lerial Image					
	er Table (A2)			Sparsely Vege		_			Rhizospheres along Living Roots (C3)		
Saturation (A3)				Marl Deposits		icave Juria	ce (bo)		of Reduced Iron (C4)		
Water Mar	` '			Hydrogen Sul	. ,	(C1)		Salt Depos	` '		
	Sediment Deposits (B2)				Water Tabl				r Stressed Plants (D1)		
☐ Drift Depo				Other (Explai		. ,			nic Position (D2)		
	or Crust (B4)					,			quitard (D3)		
☐ Iron Depo	. ,								graphic Relief (D4)		
	oil Cracks (B6))						✓ FAC-neutra	al Test (D5)		
Field Observa	tions:										
Surface Water	Present?	Yes 🤇	○ No ●	Depth (inche	:s):						
Water Table P	resent?	Yes 🤇	○ No ●	Depth (inche	es):		Wetlar	nd Hydrology Preser	nt? Yes O No 💿		
Saturation Pre		Yes C	No ●	Depth (inche	•						
		am gauge	, monitor w	ell, aerial photos, prev	vious inspe	ection) if ava	ailable:				
5 4											
Remarks:											

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