WETLAND DETERMINATION DATA FORM - Alaska Region

rojeci	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 28-Aug-15		
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW15_T333_07		
nvesti	gator(s): AFW	e, hummocks etc.): Mountainslope					
.ocal r	elief (concave, convex, none): hummocky		Slope: 7.0	% / 4.0	° Elevation:		
ubrea	ion : Interior Alaska Mountains	Lat.:			Long.: Datum: WGS84		
_	p Unit Name:		NWI classification: PSS1B				
	natic/hydrologic conditions on the site typical for this	time of year	ur? Vac	No ○	(If no, explain in Remarks.)		
Are V Are V	egetation , Soil , or Hydrology egetation , Soil , or Hydrology . MARY OF FINDINGS - Attach site map short	significani naturally p owing sai	tly disturbed? problematic?	Are "N (If nee	ormal Circumstances" present? Yes No Oded, explain any answers in Remarks.)		
Ì	Hydrophytic Vegetation Present? Yes No	and Area					
	Hydric Soil Present? Yes No	\bigcirc	Is the Sampled Area within a Wetland? Yes ● No ○				
	Wetland Hydrology Present? Yes No	0	W	itnin a w	etiand? Tes © NO C		
Rema	ırks:						
'EGE	TATION -Use scientific names of plants.	List all sp		plot.	Dominance Test worksheet:		
	e Stratum_	% Cove	r Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)		
1.					Total Number of Dominant		
2.			. 📙		Species Across All Strata:3 (B)		
3.			. 📙		Percent of dominant Species		
4. -					That Are OBL, FACW, or FAC: 100.0% (A/B)		
5.	Takal Carr				Prevalence Index worksheet:		
	Total Cover				Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum 50% of Total Cover:	0 209	% of Total Cover —	0	OBL Species 7 x1 = 7		
1.	Vaccinium uliginosum	30	. 💆	FAC	FACW Species 10 x 2 = 20		
2.	Vaccinium vitis-idaea			FAC	FACUS pecies 105 x 3 = 315		
3.	Salix reticulata		. 📙	FAC	FACU Species 2 x 4 = 8		
4.	Empetrum nigrum		. 📙	FAC	UPL Species <u>0</u> x 5 = <u>0</u>		
5.	Salix pulchra		. 📙	FACW	Column Totals: <u>124</u> (A) <u>350</u> (E		
6.	Rhododendron tomentosum	_	. 📙	FACW	Prevalence Index = B/A =		
7.	Betula nana	_ 3	. 📙	FACU			
8. 0	Cassiope tetragona	$-\frac{2}{0}$. 📙	FACU	Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%		
		$ \frac{0}{0}$	·		✓ Prevalence Index is ≤3.0		
	Total Cove b Stratum 50% of Total Cover:		 	r: 16.4	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)		
	Carex bigelowii	25	✓	FAC	Problematic Hydrophytic Vegetation (Explain)		
	Eriophorum angustifolium			OBL	¹ Indicators of hydric soil and wetland hydrology must		
					be present, unless disturbed or problematic.		
					Plot size (radius, or length x width) 10m		
					Plot size (radius, or length x width)		
		_	. 🔲		(Where applicable)		
7.		0	. 📙		% Bare Ground35		
8.			. 📙		Total Cover of Bryophytes 60		
9.							
10.			. \square		Hydrophytic		
	Total Cove 50% of Total Cover: _	Vegetation Present? Yes ● No ○					
	50% OF TOTAL COVER.	/i 203	vo or rotal cover	. X.4			

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SOIL Sampling Point: SW15_T333_07

Profile Description	on: (Describe to	the denth ne	eded to docur	ment the indicator or co	nfirm the ab	sence of indic	atore)	• -	10mm: 54415_1555_57	
		Matrix	eueu io aocai		dox Featı		dluisj			
Depth (inches)	Color (me		 %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-1			100					Peat		
1-6			100					Mucky Peat	w mineral content	
6-7	7.5YR	4/4	100					Loamy Sand	rounded gravel	
7-20	10Y	4/1	100					Sandy Clay Loam	some fine gravel. thixotropic.	
		-,, -						2227 2.27	Johne line graven diixodopie.	
										
¹ Type: C=Con	centration. D	=Depletion	. RM=Reduc	ed Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix		
Hydric Soil Ir	ndicators:			Indicators for Pr	oblemati	c Hydric So	oils: ³			
Histosol or	Histel (A1)			Alaska Color Cl		4	_	Alaska Gleyed Without H	ue 5Y or Redder	
Histic Epip	edon (A2)			Alaska Alpine s	wales (TA	5)		Underlying Layer		
Hydrogen	Sulfide (A4)			Alaska Redox V	With 2.5Y	Hue		Other (Explain in Remark	s)	
Thick Dark	Surface (A12	2)		30						
Alaska Gle	yed (A13)			and an appropriat				nary indicator of wetland h esent	lydrology,	
Alaska Red	dox (A14)				,		•			
Alaska Gle	yed Pores (A1	.5)		⁴ Give details of co	olor chang	e in Kemark	S			
Restrictive Laye	er (if present):	:								
Type: sand	dy clay Ioam							Hydric Soil Present	? Yes ● No O	
Depth (inch	nes): 7									
Remarks:										
HYDROLO	GY									
Wetland Hydr		ators:						Secondary India	cators (two or more are required)	
Primary Indicat			t)						ned Leaves (B9)	
Surface W	ater (A1)			☐ Inundation V	isible on A	erial Image	rv (B7)			
✓ High Water Table (A2)				☐ Sparsely Veg		_			hizospheres along Living Roots (C3)	
✓ Saturation (A3)				Marl Deposit			,	Presence o	f Reduced Iron (C4)	
☐ Water Marks (B1)				Hydrogen Su	lfide Odor	(C1)		☐ Salt Depos	its (C5)	
Sediment	Deposits (B2))		☐ Dry-Season \	Nater Tab	le (C2)		☐ Stunted or	Stressed Plants (D1)	
☐ Drift Depo	osits (B3)			Other (Expla	in in Rema	ırks)		Geomorphi	ic Position (D2)	
Algal Mat	or Crust (B4)							✓ Shallow Aq	juitard (D3)	
☐ Iron Depo	sits (B5)							Microtopog	graphic Relief (D4)	
Surface So	oil Cracks (B6))						FAC-neutra	l Test (D5)	
Field Observa	itions:									
Surface Water	Present?		No ●	Depth (inche	es):					
Water Table P	resent?	Yes 🤄	No 🔾	Depth (inche	es): 6		Wetla	nd Hydrology Presen	t? Yes 💿 No 🔾	
Saturation Pre		Yes 🖲	No O	Depth (inche	e)· 1					
(includes capil	llary fringe)	165	110 0	Берит (піспе	.5). 1					
Describe Record	ded Data (stre	eam gauge,	monitor we	ll, aerial photos, pre	vious inspe	ection) if ava	ailable:			
Remarks:										
very small micro	olows with sta	anding wate	er							

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