WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Si	te: Susitna-Watana Hyd	roelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 24-Jun-12		
Applicant/	/Owner: Alaska Energy A	uthority		_		Sampling Point: SW12_T17_07		
 Investigat		,		Landform (hill	side, terrac	e, hummocks etc.): Hillside		
•	ef (concave, convex, none):	undulating		 Slope: 50.9				
	Southcentral Alaska	undalating	Lat	- 62.791709908		Long.: -148.942889969 Datum: WGS84		
_			Lat.	. 62.791709906	55			
•	Unit Name:			- 24	No ○	NWI classification: Upland		
Are Veg Are Veg	etation , Soil ARY OF FINDINGS - A	, or Hydrology , or Hydrology	significa naturally wing s	intly disturbed? problematic?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.		
	drophytic Vegetation Prese			Is	the Sam	pled Area		
Hy	ydric Soil Present?	Yes O No G	_	within a Wetland? Yes ○ No ●				
W	etland Hydrology Present?	Yes O No 🤄)		u **	ottana.		
Remark VEGET	ks: ATION - Use scientific	names of plants. L	ist all s	pecies in the	plot.	Dominous Testaments		
			Absolu			Dominance Test worksheet: Number of Dominant Species		
Tree S	tratum		% Cov	<u>ver</u> <u>Species?</u>	Status	That are OBL, FACW, or FAC:3(A)		
_						Total Number of Dominant		
2. 3.						Species Across All Strata:3(B)		
4.						Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)		
5.								
· -		Total Cove				Prevalence Index worksheet:		
Sanline	g/Shrub Stratum	50% of Total Cover:		— 0% of Total Cover:	0	Total % Cover of: Multiply by:		
		_		_		OBL Species 0 x1 = 0 FACW Species 17 x2 = 34		
_	Inus viridis ssp. crispa			0	FAC			
-	piraea stevenii			.0	FACU			
				.5	FACW	FACU Species 27 x 4 = 108 UPL Species 2 x 5 = 10		
4. 5.				<u>o</u>				
_						Column Totals: <u>138</u> (A) <u>428</u> (B)		
6. — 7.						Prevalence Index = B/A = 3.101		
8.						Hydrophytic Vegetation Indicators:		
9.						✓ Dominance Test is > 50%		
40						Prevalence Index is ≤3.0		
	Stratum	Total Cove 50% of Total Cover:			: 13	☐ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
-	alamagrostis canadensis	_		0	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)		
_				0	FACU	¹ Indicators of hydric soil and wetland hydrology must		
	hamerion angustifolium			7 🗆	FACU	be present, unless disturbed or problematic.		
· -	aranium hiaknallii			2	UPL			
_	Sala advisas			2	FAC	Plot size (radius, or length x width) 10m		
	uhua ahamaamamia			1	FACW	% Cover of Wetland Bryophytes (Where applicable)		
6. R				1	FACW	% Bare Ground		
-								
7. S			(<u> </u>		Total Cover of Bryophytes		
7. <u>S</u>	anguisorba officinalis		(Total Cover of Bryophytes		
7. <u>S</u> 8 9	anguisorba officinalis		(_ =		Hydrophytic		
7. <u>S</u> 8 9	anguisorba officinalis		(- (- 73					

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SOIL Sampling Point: SW12_T17_07

Profile Description	on: (Describe to t	he depth nee	ded to docume	nt the indicator or c	onfirm the abs	ence of indica	ators)		
Depth		latrix			dox Featu				
(inches)	Color (moi	st)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-1	2.5Y	4/2	75 1	LOYR 3/6	25	С	PL	Loamy Sand	redox c also in living root channels
1-3	7.5YR	2.5/3	80					Clay Loam	20% roots
3-18	7.5YR	3/4						Sandy Clay Loam	25% cobbles >4in
	7.51.1							,,	
¹Type: C=Con	ncentration. D=	Depletion.	RM=Reduced	Matrix ² Locatio	n: PL=Pore	Lining. RC	=Root Cha	nnel. M=Matrix	
Hydric Soil Ir	ndicators:			indicators for P	roblematic	Hvdric Sc	oils:		
	Histel (A1)			Alaska Color (4		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipe	` '		Ī	Alaska Alpine		-		Underlying Layer	de 31 of Redder
	Sulfide (A4)			Alaska Redox	•	,		Other (Explain in Remark	(S)
l — ' · ·	Surface (A12)								
Alaska Glev								nary indicator of wetland h	ydrology,
Alaska Red				and an appropria	ite ianascape	e position n	nust be pre	esent	
Alaska Gley	yed Pores (A15)		4 Give details of	color change	in Remark	S		
Restrictive Laye	or (if precent):								
Type:	i (ii present).							Hydric Soil Present	? Yes ○ No •
Depth (inch	nes):							Tryuric 3011 Fresent	: 1es C 110 C
Remarks:									
HYDROLO	GY								
Wetland Hydr		tors:						Secondary Indi	cators (two or more are required)
Primary Indicat									ned Leaves (B9)
Surface W	ater (A1)			Inundation	Visible on Ae	rial Imager	y (B7)	☐ Drainage F	Patterns (B10)
High Wate	er Table (A2)			Sparsely Ve	getated Con	cave Surfac	e (B8)	Oxidized R	hizospheres along Living Roots (C3)
☐ Saturation	n (A3)			Marl Deposi	ts (B15)			Presence of	of Reduced Iron (C4)
Water Mar	rks (B1)			Hydrogen S	ulfide Odor (C1)		Salt Depos	its (C5)
Sediment	Deposits (B2)			☐ Dry-Season	Water Table	(C2)		Stunted or	Stressed Plants (D1)
Drift Depo	osits (B3)			Other (Expla	ain in Remar	ks)		Geomorph	ic Position (D2)
Algal Mat	or Crust (B4)							Shallow Ad	quitard (D3)
☐ Iron Depo	sits (B5)							☐ Microtopog	graphic Relief (D4)
Surface So	oil Cracks (B6)							✓ FAC-neutra	al Test (D5)
	tione	_							
Field Observa	itions:			Dantle (in ale	es):				
		Yes 🔾		Depth (inch	,				
Field Observa	Present?	Yes O		Depth (inch	•		Wetlar	nd Hydrology Presen	t? Yes O No 💿
Field Observa Surface Water	Present? Present? Present?		No 💿		es):		Wetlar	nd Hydrology Presen	t? Yes O No 💿
Field Observa Surface Water Water Table P Saturation Pre (includes capil	Present? Present? Present? Present?	Yes O	No No	Depth (inch	es):	ction) if ava		nd Hydrology Presen	t? Yes O No •
Field Observa Surface Water Water Table P Saturation Pre (includes capil Describe Record	Present? Present? Present? Present?	Yes O	No No	Depth (inch	es):	ction) if ava		nd Hydrology Presen	t? Yes ○ No •
Field Observa Surface Water Water Table P Saturation Pre (includes capil	Present? Present? Present? Present?	Yes O	No No	Depth (inch	es):	ction) if ava		nd Hydrology Presen	t? Yes ○ No •
Field Observa Surface Water Water Table P Saturation Pre (includes capil Describe Record	Present? Present? Present? Present?	Yes O	No No	Depth (inch	es):	ction) if ava		nd Hydrology Presen	t? Yes ○ No •
Field Observa Surface Water Water Table P Saturation Pre (includes capil Describe Record	Present? Present? Present? Present?	Yes O	No No	Depth (inch	es):	ction) if ava		nd Hydrology Presen	t? Yes ○ No •

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