WETLAND DETERMINATION DATA FORM - Alaska Region

Project/	/Site: Susitna-Watana Hydro	electric Project		Borough	/City:	Matanusk	ka-Susitna Borough Sampling Date:	11-Jul-13
Applica	nt/Owner: Alaska Energy Au	thority					Sampling Point: SV	V13_T139_14
nvestig	gator(s): WAD, BAB			Landfo	rm (hill	side, terrac	ce, hummocks etc.): trough	
ocal re	elief (concave, convex, none):	flat		_		% / 4.0		
	ion : Southcentral Alaska		l at ·	 62.814				atum: WGS84
_			. Lat	02.014	111112	<u> </u>		
	p Unit Name:					No ○	NWI classification: PEM1E	
Are Vo	egetation . Soil .	, or Hydrology , or Hydrology	significan naturally	itly disturi problema	bed? atic?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes eded, explain any answers in Remarks.) s, transects, important features,	
	Hydrophytic Vegetation Presen	t? Yes 💿 No	\circ			41	.11.4	
	Hydric Soil Present?	Yes 💿 No	\circ				pled Area	
	Wetland Hydrology Present?	Yes No	\circ		wi	thin a W	/etland? Yes ● No ○	
			t					
	arks: top section of trough pea photo num 1299, 1300. p TATION - Use scientific r	photo time 1637		oecies ii	n the	plot.		
		- Piarres				p. 0 t.	Dominance Test worksheet:	
Troc	e Stratum		Absolut % Cove		inant cies?	Indicator Status	Number of Dominant Species	
1.	Stratum		0			<u> </u>	That are OBL, FACW, or FAC:	(A)
2.				_			Total Number of Dominant	2 (D)
3.				_			Species Across All Strata:	(B)
4.				_			Percent of dominant Species That Are OBL, FACW, or FAC: 1	.00.0% (A/B)
5.			$ \frac{\circ}{\circ}$	_	\Box			
		Total Co		_			Prevalence Index worksheet:	b
Sanl	ling/Shrub Stratum	50% of Total Cover:		– % of Tota	l Cover:	0	Total % Cover of: Multiply OBL Species 75 x 1 =	•
-							OBL Species 75 x 1 = FACW Species 2 x 2 =	<u>75</u>
				_	✓	OBL		4
	Betula nana			_	✓	FAC	FACUL Species 10 x 3 =	30
3.				_			FACU Species 0 x 4 =	0
4.				_			UPL Species 0 x 5 =	0
5.			0	_			Column Totals: 87 (A)	(B)
6.				_			Prevalence Index = B/A =	1.253
7.				_				
8.				_			Hydrophytic Vegetation Indicators:	
_			0	_			✓ Dominance Test is > 50%	
10.			0	_	Ш		✓ Prevalence Index is ≤3.0	
		Total Co 50% of Total Cover:	10 20	0% of Tota	_		Morphological Adaptations ¹ (Provide semarks or on a separate sheet)	
	Trichophorum caespitosum			_		OBL	Problematic Hydrophytic Vegetation ¹	
'				_		OBL	¹ Indicators of hydric soil and wetland hydro	ology must
Ŭ.	Fritillaria camschatcensis			_		FAC	be present, unless disturbed or problematic	
4.	Menyanthes trifoliata			_		OBL	Plot size (radius, or length x width)	_10m
				_		FACW	% Cover of Wetland Bryophytes	
6.	Arctagrostis latifolia		1	_		FACW	(Where applicable)	
				_			% Bare Ground	
				_			Total Cover of Bryophytes	45
			_	_				
10.				_	\Box		Hydrophytic	
	·	Total Co			l Carre	40.4	Vegetation Present? Yes No	
		or rotal Cover:	33.520	% of Tota	ı cover:	13.4	riesent: res = NO =	
Rema		50% of Total Cover:	33.5 20	% of Tota	l Cover:	13.4	Present? Yes • No ·	

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SOIL Sampling Point: SW13_T139_14

Depth - (inches)	Matrix		Re	dox Features	of indicators)		
	Color (moist)	%	Color (moist)	% Ty	pe ¹ Loc ²	Texture	Remarks
0-16		100				Fibric Organics	
							-
							-
						<u></u>	_
							_
¹Type: C=Conc	entration. D=Depletion	on. RM=Reduce	ed Matrix ² Location	n: PL=Pore Lini	ng. RC=Root Ch	annel. M=Matrix	-
Hydric Soil Ind	licators:		Indicators for P	roblematic Hyd	tric Soils: ³		
Histosol or H	listel (A1)		Alaska Color (Change (TA4)		Alaska Gleyed Without H	lue 5Y or Redder
Histic Epiped	` '		Alaska Alpine			Underlying Layer	
Hydrogen Si				With 2.5Y Hue		Other (Explain in Remar	ks)
¬ ' ·	Surface (A12)						
Alaska Gleye	` '					mary indicator of wetland	hydrology,
Alaska Redo			and an appropria	ite landscape po	sition must be pr	resent	
Alaska Gleye	ed Pores (A15)		4 Give details of	color change in F	temarks		
testrictive Layer							
Type:	(ii present).					Hydric Soil Present	t? Yes • No O
Depth (inche	e).					nyuric Son Present	tr fes © No C
YDROLOG	ΣΥ						
	iY logy Indicators:					_Secondary Ind	icators (two or more are required)
Vetland Hydro Primary Indicato	logy Indicators: rs (any one is sufficie	ent)					icators (two or more are required) ined Leaves (B9)
Vetland Hydro Primary Indicato Surface Wa	logy Indicators: rs (any one is sufficienter ter (A1)	ent)		Visible on Aerial	. , , ,	Water Sta	ined Leaves (B9) Patterns (B10)
Vetland Hydro Primary Indicato ✓ Surface Wat ✓ High Water	logy Indicators: rs (any one is sufficienter (A1) Table (A2)	ent)	Sparsely Ve	getated Concave	. , , ,	Water Sta Drainage Oxidized F	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3)
Vetland Hydro Primary Indicato V Surface Wai V High Water V Saturation (logy Indicators: rs (any one is sufficie ter (A1) Table (A2) A3)	ent)	Sparsely Ve	getated Concave ts (B15)	. , , ,	Water Sta Drainage Oxidized F	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4)
Vetland Hydro Primary Indicato ✓ Surface Wai ✓ High Water ✓ Saturation (Water Mark	logy Indicators: rs (any one is sufficienter (A1) Table (A2) A3) s (B1)	ent)	Sparsely Ve Marl Deposi Hydrogen S	getated Concave ts (B15) ulfide Odor (C1)	Surface (B8)	Water Sta Drainage Oxidized F Presence Salt Depo	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5)
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