WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydro	electric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 02-Jul-13						
Applica	ant/Owner: Alaska Energy Au	thority			Sampling Point: SW13_T126_02							
Investigator(s): SLI, SCB Landform (hillside, terrace, hummocks etc.): Hillside												
Local relief (concave, convex, none): none Slope: % / 23.0 ° Elevation: 824												
	·	Horic	Lot:	- · —								
	gion : Southcentral Alaska		Lal									
	ap Unit Name:					NWI classification: Upland						
Are \	/egetation , Soil	, or Hydrology S	significan naturally p	tly disturbed? problematic?	(If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ Iorded, explain any answers in Remarks.) Iorded, explain features, etc.						
	Hydrophytic Vegetation Presen	t? Yes No •)			·						
	Hydric Soil Present?	Yes O No •		Is	the Sam	he Sampled Area						
	Wetland Hydrology Present?	Yes O No •		wi	thin a W	/etland? Yes ○ No •						
Rem		res 🔾 140 🥴	,	"								
	ETATION - Use scientific r	names of plants. Li	st all sp Absolute Cove	e Dominant	plot. Indicator Status	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: 2 (A) Total Number of Dominant						
2.			0			Total Number of Dominant Species Across All Strata: 4 (B)						
3.			0			Percent of dominant Species						
4.			0	_		That Are OBL, FACW, or FAC: 50.0% (A/B)						
5.			0			Prevalence Index worksheet:						
		Total Cover		_		Total % Cover of: Multiply by:						
Sap	oling/Shrub Stratum	50% of Total Cover:	0 20	% of Total Cover:	0	OBL Species x 1 =0						
1.	Alnus viridis		80	✓	FAC	FACW Species0 x 2 =0						
2.			0			FAC Species <u>105.1</u> x 3 = <u>315.3</u>						
3.			•			FACU Species <u>45.1</u> x 4 = <u>180.4</u>						
4.			0			UPL Species <u>1</u> x 5 = <u>5</u>						
5.			0	_		Column Totals: <u>151.2</u> (A) <u>500.7</u> (B)						
6.			0	_		Prevalence Index = B/A =						
7.			0	_		Trevalence index = B/A =						
8.			0	-		Hydrophytic Vegetation Indicators:						
9.			0	-		☐ Dominance Test is > 50%						
10.			0	_		☐ Prevalence Index is ≤3.0						
Hei	rb Stratum_	Total Cover: 50% of Total Cover:		_)% of Total Cover	: 16	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)						
1.	Gymnocarpium dryopteris		30	✓	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)						
2.	Calamagrostis canadensis		20	✓	FAC	¹ Indicators of hydric soil and wetland hydrology must						
3.	Dryopteris expansa		15	✓	FACU	be present, unless disturbed or problematic.						
4.	Veratrum viride		5		FAC	Plot size (radius, or length x width) 10m						
5.	Trientalis borealis		1		UPL	Plot size (radius, or length x width) 10m % Cover of Wetland Bryophytes 0						
6.	Streptopus amplexifolius		0.1	_	FACU	(Where applicable)						
7.	Cornus suecica		0.1	_ 📙	FAC	% Bare Ground						
8.			0	_		Total Cover of Bryophytes						
				-								
10.			0	_		Hydrophytic						
		Total Cover:				Vegetation Present? Yes ○ No ●						
		50% of Total Cover:3	1 - 20	0/ of Tatal C		Present? Yes ∪ No •						

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SOIL Sampling Point: SW13_T126_02

Profile Description	•	ne depth nee	ded to docume	ent the indicator or co	nfirm the ab		ators)					
Depth (inches)							. 2	Texture	Remarks			
	Color (moi		<u>%</u>	Color (moist)	<u>%</u>	Type ¹	<u>Loc</u> 2					
0-17	10YR	3/2	100					Loam	w few f-c roots, few ang-subang gravels-c			
	-											
								-				
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix												
Hydric Soil Ir	ndicators:			Indicators for Pr	oblematio	: Hydric So	oils: ³					
		Alaska Color Cl		4		Alaska Gleyed Without H	ue 5Y or Redder					
Histosol or Histel (A1)				Alaska Alpine swales (TA5) Alaska Alpine swales (TA5)								
	Histic Epipedon (A2) Hydrogen Sulfide (A4)				Alaska Redox With 2.5Y Hue Other (Explain in Remarks)							
	Surface (A12)				2.5				,			
Alaska Gley								nary indicator of wetland h	ydrology,			
Alaska Red				and an appropriat	te landscap	e position r	nust be pre	esent				
	yed Pores (A15))		4 Give details of co	olor change	e in Remark	S					
Restrictive Laye	r (if precent):											
Type:	i (ii present).							Hydric Soil Present	? Yes ○ No •			
Depth (inch	oc).							nyulic son Present? Tes Unio				
Deput (inch	cs).											
no hydric soil in	dicators											
HYDROLO	GY											
Wetland Hydr		ors:						Secondary Indi	cators (two or more are required)			
Primary Indicat								Water Stained Leaves (B9)				
Surface W				☐ Inundation V	isible on A	erial Image	v (B7)		atterns (B10)			
High Water Table (A2)				Sparsely Veg		_		_	hizospheres along Living Roots (C3)			
☐ Saturation	Marl Deposits			()		f Reduced Iron (C4)						
☐ Water Mar	. ,			Hydrogen Su	. ,	(C1)		Salt Depos	` '			
	Deposits (B2)			☐ Dry-Season \					Stressed Plants (D1)			
Drift Depo				Other (Explain					ic Position (D2)			
	or Crust (B4)			ounc. (2xp.a.		,			uitard (D3)			
☐ Iron Depo									raphic Relief (D4)			
	oil Cracks (B6)								Il Test (D5)			
Field Observa	• • • • • • • • • • • • • • • • • • • •											
Surface Water		Yes 🔾	No	Depth (inche	es):							
Water Table P		Yes O		, ,	•		Wotla	nd Hydrology Presen	t? Yes ○ No •			
				Depth (inche	es):		Wetiai	na nyarology Presen	ti les 🔾 NO 😅			
Saturation Pre (includes capil		Yes O	No 🕑	Depth (inche	es):							
Describe Record	ded Data (strea	m gauge, r	nonitor well,	aerial photos, pre	vious inspe	ction) if ava	ilable:					
Remarks:												
no wetland hydrology indicators												

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