WETLAND DETERMINATION DATA FORM - Alaska Region

•	et/Site: Susitna-Watana Hydro	•		Borougl	h/City:	Matanusk	sa-Susitna Borough Sampling Date: 02-Aug-12				
Applica	ant/Owner: Alaska Energy Au	ıthority					Sampling Point: SW12_T53_02				
nvesti	igator(s): CTS, EKJ				Landform (hillside, terrace, hummocks etc.): Mountainslope						
_ocal	relief (concave, convex, none):	convex		_ Slope	Slope: 10.5 % / 6.0 ° Elevation: 761						
Subre	gion : Southcentral Alaska		Lat.:	62.806	62.8068199086 Long.: -149.056589968 Datum: WGS8						
Soil Ma	ap Unit Name:						NWI classification: Upland				
Are \	Vegetation , Soil	, or Hydrology	significar naturally	ntly distu	rbed? atic?	(If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.) Iormal Circumstances present? Yes No Oeded, explain any answers in Remarks.)				
Rem	Hydrophytic Vegetation Preser Hydric Soil Present? Wetland Hydrology Present? narks: Sdet on convex slope	Yes No (Yes No (Yes No (Yes No (•			the Sam thin a W	pled Area /etland? Yes ○ No ●				
/EGI	ETATION -Use scientific	names of plants. I	ist all s	pecies i	in the	plot.					
			Absolu			Indicator	Dominance Test worksheet:				
	ee Stratum		% Cov		ecies?	Status	Number of Dominant Species That are OBL, FACW, or FAC: (A)				
1.							Total Number of Dominant				
2.				_			Species Across All Strata:3(B)				
3. 4.				_			Percent of dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)				
5.			0	_			That Ale OBL, FACW, OFFAC. 00.7% (A/B)				
		Total Cover	r:	_	al Cover		Prevalence Index worksheet: Total % Cover of: Multiply by:				
Sap	pling/Shrub Stratum	50% of Total Cover:	0 20	0% of Tota	_	0	OBL Species 0 x 1 = 0				
1.	Vaccinium uliginosum		50)	✓	FAC	FACW Species <u>5.1</u> x 2 = <u>10.2</u>				
2.	Empetrum nigrum			_	✓	FAC	FACUS Species 126.2 x 3 = 378.6				
3.	Betula nana			_		FAC	FACU Species 6 x 4 = 24 UPL Species 0 x 5 = 0				
4.				_		FAC					
5.	Linnana haraalia			_		FACU	Column Totals: <u>137.3</u> (A) <u>412.8</u> (B)				
6.	Linnaea borealis		$- \frac{1}{0}$	_		FACU	Prevalence Index = B/A = 3.007				
7. 8.				_			Undership Variation Indicators				
9.				_			Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%				
				_	\Box		Prevalence Index is ≤3.0				
	rb Stratum_	Total Cove 50% of Total Cover:	r: <u>132</u>		tal Cover	26.4	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)				
-	Cornus canadensis		5		✓	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)				
	Pedicularis labradorica		- <u> </u>			FACW	¹ Indicators of hydric soil and wetland hydrology must				
	Calamagrostis canadensis			_		FAC	be present, unless disturbed or problematic.				
	Caray himalayyii			1		FAC	Plot size (radius, or length x width) 10m				
5.				_							
6.				_			% Cover of Wetland Bryophytes 30 (Where applicable)				
			0	_			% Bare Ground				
7.			0	_			Total Cover of Bryophytes				
7. 8.					1 1		Í.				
7. 8.			0	_							
7. 8. 9.			0	_			Hydrophytic				
7. 8. 9.			- 0 0 r: 5.3	_	al Cover:	1.06	Hydrophytic Vegetation Present? Yes No				

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SOIL Sampling Point: SW12_T53_02

Profile Description			eeded to docur	ment the indicator or co	onfirm the ab		cators)				
Depth (inches)		Matrix						- -	Parranto.		
(inches)	Color (mo		<u>%</u>	Color (moist)	<u>%</u>	Type ¹	<u>Loc</u> 2	Texture	Remarks		
0-2	10YR	2/2						Silt Loam	20% roots		
2-8	7.5YR	2.5/2						Silt Loam	few roots		
8-12	7.5YR	2.5/3	90					Sandy Loam	10% angular gravel		
12-19	10YR	3/3	90					Sandy Loam	10% coarse angular gravel and cobble		
					-						
		·									
¹Type: C=Con		=Depletion	RM=Reduce	ed Matrix ² Location	n: PL=Por	re Lining. RC	C=Root Cha	annel. M=Matrix			
Hydric Soil In	ndicators:			Indicators for Pr	oblemati	c Hydric S	oils:				
	Histel (A1)			Alaska Color Ch		4		Alaska Gleyed Without Ho	ue 5Y or Redder		
Histic Epipe	, ,				Alpine swales (TA5) Underlying Layer						
	Sulfide (A4)			Alaska Redox V	With 2.5Y I	Hue		Other (Explain in Remark	(S)		
_ ' '	Surface (A12))									
Alaska Gley	` '			³ One indicator of and an appropriat	hydrophyl	tic vegetation	on, one prin	mary indicator of wetland h	ydrology,		
Alaska Red	lox (A14)				•		-	asen.			
Alaska Gley	yed Pores (A1	5)		⁴ Give details of co	olor chang	e in Remark	ks				
Restrictive Laye	r (if present):										
Type:								Hydric Soil Present	? Yes ○ No •		
Depth (inch	es):										
HYDROLO	GY										
Wetland Hydr	ology Indica	tors:						Secondary Indic	cators (two or more are required)		
Primary Indicat	tors (any one	is sufficien	<u>.t)</u>					Water Stair	ned Leaves (B9)		
Surface W				Inundation V	isible on A	erial Image	ery (B7)	_	Patterns (B10)		
High Wate		Sparsely Veg	etated Cor	ncave Surfa	ice (B8)		hizospheres along Living Roots (C3)				
Saturation		Marl Deposits	s (B15)				of Reduced Iron (C4)				
Water Mar				Hydrogen Su				Salt Depos			
	Deposits (B2)			☐ Dry-Season V					Stressed Plants (D1)		
☐ Drift Depo				Other (Explai	in in Rema	ırks)			ic Position (D2)		
	or Crust (B4)								quitard (D3)		
☐ Iron Depos	. ,								graphic Relief (D4)		
Field Observa	oil Cracks (B6)							☐ FAC-Heuu a	al Test (D5)		
Surface Water		Ves (O No ●	Depth (inche	nc).						
			No •		•		'A' atla	1 Understand Dungen	t? Yes O No 💿		
Water Table Pi		_	_	Depth (inche	:s):		Wettai	nd Hydrology Presen	t? Yes O NO O		
Saturation Pres (includes capill		Yes (No ●	Depth (inche	es):						
Describe Record	ded Data (stre	am gauge	, monitor wel	ell, aerial photos, prev	vious inspe	ection) if ava	ailable:				
Remarks:											
no wetland hyd	rology indicate	ore									
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