## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	ct/Site: Susitna-Watana Hyd	roelectric Project		Borough/0	City: Matar	nuska-Susitna Borough Sampling Date: 04-Aug-12			
Applic	ant/Owner: Alaska Energy A	Authority				Sampling Point: SW12_T91_05			
nvesti	igator(s): CTS, EKJ			Landforn	Landform (hillside, terrace, hummocks etc.): Footslope				
_ocal	relief (concave, convex, none)	flat		_ Slope:	Slope: 3.5 % / 2.0 ° Elevation: 579				
Subre	gion : Southcentral Alaska		Lat.:	62.68997	799086	Long.:148.922309969			
Soil Ma	ap Unit Name:					NWI classification: Upland			
Are \		, or Hydrology	significan naturally powing sa	tly disturbe	ic? (If	(If no, explain in Remarks.) e "Normal Circumstances" present? Yes No needed, explain any answers in Remarks.) ons, transects, important features, etc.			
Ren	Hydrophytic Vegetation Prese Hydric Soil Present? Wetland Hydrology Present? narks: Hgmm	Yes O No	•			ampled Area a Wetland? Yes ○ No ●			
	ETATION - Use scientific	names of plants. I	List all sp		the plot.	Dominance Test worksheet:			
	ee Stratum		% Cove	r Speci	es? Stati	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)			
1.						Total Number of Dominant			
2.			0			Species Across All Strata: 4 (B)			
3. 4.			$- \frac{0}{0}$			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.			$ \frac{0}{0}$		- —				
Sap	pling/Shrub Stratum	<b>Total Cove</b> 50% of Total Cover:	_	Prevalence Index worksheet:  Total % Cover of: Multiply by:  OBL Species 0 x 1 = 0					
1.	Salix fuscescens		10	_	FACV				
	Betula nana		1		FAC	FAC Species 70 x 3 = 210			
3.	Salix barclayi				FAC	FACU Species 22 x 4 = 88			
4.	Vaccinium caespitosum				FACV	UPL Species 0 x 5 = 0			
5.					╣ —	Column Totals: <u>113.1</u> (A) <u>340.2</u> (B)			
6.					╣ —	Prevalence Index = B/A = 3.008			
7.				-	╣ —	_			
8.				_	╣ —	Hydrophytic Vegetation Indicators:			
9.			$- \frac{0}{0}$		i —	✓ Dominance Test is > 50%			
10.		Total Cove		_		Prevalence Index is ≤3.0			
Hei	rb Stratum	50% of Total Cover:	Cover: 3.	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)					
1.			40			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
2.	Chamerion angustifolium				FACU	Indicators of rigaric son and wedaria rigarology mast			
3.	Aconitum delphinifolium		_		FAC	be present, unless disturbed or problematic.			
4.	Solidago canadensis		-	-	FACU	—   Plot size (radius, or length x width) 10m			
5.	Sanguisorba canadensis				☐ FACV	% Cover of Wetland Bryophytes			
_	Rubus arcticus		- <u>5</u> 2	-	FAC FACU	(Where applicable)			
6.	Cornua conodensia		$-\frac{2}{0.1}$		FACU	70 Bare Ground			
7.					_ FACV	Total Cover of Bryophytes			
7. 8.	Viola epipsila				FAC				
7. 8. 9.	Viola epipsila  Calamagrostis canadensis		8		FAC_	_			
7. 8.	Viola epipsila  Calamagrostis canadensis	Total Cove	8		FAC	Hydrophytic			
7. 8. 9.	Viola epipsila  Calamagrostis canadensis	Total Cove	8 0 er: 96.1			Hydrophytic Vegetation			

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SOIL Sampling Point: SW12\_T91\_05

									10 51712_151_05			
Profile Description			eded to docu	ment the indicator or co			ators)					
Depth (inches)			 %	Redox Features  Color (moist)		Loc 2	Texture	Remarks				
0-2	COIOI (IIIO	nsc <sub>j</sub>	100	color (moist)	_/6	Турс	LUC	Fibric Organics				
2-4	7.5YR	3/1	95					Loam	5% roots			
4-9	10YR	3/3	100					Sandy Loam	few semiangular gravel			
9-12	10YR		100					Loamy Sand	Tew Serillarigular graver			
		5/4										
12-15	10YR	3/4	95					Loamy Sand	5% coarse sand to semiangular gravel			
¹Type: C=Con	centration. D=	Depletion.	RM=Reduc	ced Matrix <sup>2</sup> Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix				
Hydric Soil Ir	ndicators:			Indicators for Pr	oblemati	c Hydric Sc	oils: <sup>3</sup>					
	Histel (A1)			Alaska Color Ch		4		Alaska Gleyed Without H	ue 5Y or Redder			
Histic Epip	, ,			Alaska Alpine s	wales (TA	5)		Underlying Layer				
Hydrogen	Sulfide (A4)			Alaska Redox V	Vith 2.5Y	Hue		Other (Explain in Remark	s)			
☐ Thick Dark	Surface (A12)	)		3.0	6 4				d de			
Alaska Gle	yed (A13)			and an appropriat				nary indicator of wetland hesent	lydrology,			
Alaska Red	` ,			4 Give details of co	olor chang	e in Remark	·c					
☐ Alaska Gle	yed Pores (A1	5)		Give details of Co	Jior Chang	e iii keiliaik						
Restrictive Laye	er (if present):											
Type:								Hydric Soil Present	? Yes ○ No •			
Depth (inch	es):											
Remarks:												
no hydric soil in	dicators											
HYDROLO	GY											
Wetland Hydr	ology Indica	tors:						_Secondary Indi	cators (two or more are required)			
Primary Indicat			)					Water Stained Leaves (B9)				
Surface W	ater (A1)			☐ Inundation V	isible on A	Aerial Image	ry (B7)	☐ Drainage Patterns (B10)				
High Water Table (A2)				☐ Sparsely Veg	etated Co	ncave Surfac	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)			
Saturation (A3)				Marl Deposits	s (B15)			Presence of Reduced Iron (C4) Salt Deposits (C5)				
Water Mar	Water Marks (B1)				lfide Odor	(C1)						
Sediment	Deposits (B2)	☐ Dry-Season \	Water Tab	le (C2)		Stunted or	Stressed Plants (D1)					
Drift Depo	sits (B3)			Other (Explai	in in Rema	rks)		Geomorphi	ic Position (D2)			
	or Crust (B4)							Shallow Aq	juitard (D3)			
☐ Iron Depo	sits (B5)							_	graphic Relief (D4)			
Surface So	oil Cracks (B6)						1	✓ FAC-neutra	l Test (D5)			
Field Observa		., O	(									
Surface Water	Present?		No •	Depth (inche	s):							
Water Table P	resent?	Yes 🔾	No 💿	Depth (inche	s):		Wetla	nd Hydrology Presen	t? Yes ○ No •			
Saturation Pre (includes capil		Yes $\bigcirc$	No 💿	Depth (inche	s):							
		2m 42U40	monitor we	all porial photos pro	doug inco	action) if ava	vilable					
Describe Record	ieu Data (Stre	am gauge,	monitor we	ell, aerial photos, pre	vious irispe	ecuon) n ava	iliable:					
Domarkes												
Remarks: no wetland hydrology indicators												

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