## WETLAND DETERMINATION DATA FORM - Alaska Region

rojec	t/Site: Susitna-Watana Hyd	roelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 30-Jul-12			
pplic	ant/Owner: Alaska Energy A	Authority				Sampling Point: <b>SW12_T05_01</b>			
vest	gator(s): CTS, EKJ	·		Landform (hill	side, terrac	e, hummocks etc.): Channel (abandoned)			
ocal	relief (concave, convex, none)	: flat		Slope: 0.0	% / 0.0	° Elevation: 529			
ubre	gion: Interior Alaska Mountai	ins	Lat.:	- 62.779989908	 34	Long.: -147.923669974 Datum: WGS84			
	ap Unit Name:			<u> </u>		NWI classification: PSS1C			
	matic/hydrologic conditions on	the site tomical for this t	ima af va	vac.	● No ○				
	regetation $\square$ , Soil $\square$			tly disturbed?		(If no, explain in Remarks.)  Iormal Circumstances" present? Yes ● No ○			
	/egetation ✓ , Soil ✓		•	problematic?		eded, explain any answers in Remarks.)			
					•	,			
UM	MARY OF FINDINGS - A	•		mpling point	locations	s, transects, important features, etc.			
	Hydrophytic Vegetation Prese	ent? Yes O No 🤄	•	la la	the Com	npled Area			
	Hydric Soil Present?	Yes O No 🤄							
	Wetland Hydrology Present?	Yes ● No 🤇		within a Wetland? Yes ○ No ●					
Ren	narks: Vegetated river bar/isla	and							
	vegetatea river barriste	ina							
EGI	ETATION - Use scientific	names of plants. L	ist all sp	ecies in the	plot.				
			Absolute	e Dominant	Indicator	Dominance Test worksheet:			
Tre	e Stratum_		% Cove		Status	Number of Dominant Species			
1.	-		0			That are OBL, FACW, or FAC:			
2.			0			Species Across All Strata: 2 (B)			
3.			0	_		Percent of dominant Species			
4.			0	_ 📙		That Are OBL, FACW, or FAC: 0.0% (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 <u>0</u> x 1 = <u>0</u>			
1.	Populus balsamifera		70	<b>✓</b>	FACU	FACW Species 0 x 2 = 0			
2.	Salix alaxensis		15		FAC	FAC Species <u>20.2</u> x 3 = <u>60.60</u>			
3.	Salix glauca		3		FAC	FACU Species <u>84.1</u> x 4 = <u>336.4</u>			
4.	Dasiphora fruticosa		0.1		FAC	UPL Species0 x 5 =0			
5.			0	_		Column Totals: <u>104.3</u> (A) <u>397</u> (B)			
6.				_		Prevalence Index = B/A =3.806_			
7.				-					
8.			0	_		Hydrophytic Vegetation Indicators:			
9.			0	_		☐ Dominance Test is > 50%			
10.			0	_		☐ Prevalence Index is ≤3.0			
u.	b Stratum_	<b>Total Cover</b> 50% of Total Cover:	00.1		: 17.62	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)			
	Artemisia tilesii	3070 01 10141 001011			FACU	✓ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
1. 2.	Hedysarum alpinum		$-\frac{1}{10}$		FACU	Indicators of hydric soil and wetland hydrology must			
3.	Chamerion angustifolium				FACU	be present, unless disturbed or problematic.			
3. 4.	Solidago canadensis		0.1		FACU				
5.	Lupinus nootkatensis				FACU	Plot size (radius, or length x width) <u>10m</u>			
6.	Castilleja caudata		0.1		FAC	% Cover of Wetland Bryophytes (Where applicable)			
7.	Astrogalus alpinus		2		FAC	% Bare Ground			
8.			_			Total Cover of Bryophytes 0			
9.			•			· · · ,			
10.			0			Hydrophytic			
		Total Cover	: 16.2	16.2		Vegetation			
		rotal cover		_		Present? Yes O No •			

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SOIL Sampling Point: SW12\_T05\_01

Profile Descripti	on: (Describe to t	the depth ne	eeded to docu	ment the inc	dicator or con-	firm the ab	sence of indic	cators)				
Depth		Matrix			Red	ox Featu	res		_			
(inches)	Color (mo	ist)	<u>%</u>	Color (m	ioist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-6	2.5Y	4/2	93						Fine Sand	7% roots		
6-8	5Y	5/2	93						Fine Sand	7% roots		
8-15	2.5Y	4/2	90	10YR	4/6	10	С	М	Fine Sand	layers of fine sand and sand interbedded als		
15-16	2.5Y	4/2	100						Sand	0% roots		
-												
										. ———		
¹Type: C=Cor	ncentration. D=	Depletion	. RM=Reduc						nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicat	ors for Pro	blemati	C Hydric So	oils: <sup>3</sup>				
Histosol or	Histel (A1)			Alas	ka Color Cha	ange (TA	4)		Alaska Gleyed Without Hue 5Y or Redder			
Histic Epip	edon (A2)				Alaska Alpine swales (TA5)				Underlying Layer			
L Hydrogen	Sulfide (A4)			Alas	ka Redox W	ith 2.5Y F	lue	V	Other (Explain in Remark	KS)		
	Surface (A12)			3 ∩ne ir	ndicator of I	ovdronhyt	ic vegetatio	n one nrin	nary indicator of wetland h	avdrology		
Alaska Gle					appropriate					rydrology,		
Alaska Red	` ,	_		4 Give	letails of col	lor chang	e in Remark	(S				
☐ Alaska Gle	yed Pores (A15	5)		0.70	cturis or cor	ior charig	e iii reman					
Restrictive Laye	er (if present):											
Type:									<b>Hydric Soil Present</b>	? Yes O No 🖲		
Depth (inch	nes):											
Remarks:												
*globs of organ	nics and roots,	5% roots										
overrall, few we	ell rounded larg	ge gravel	throughout	matrix. ir	sufficient so	oil color fo	or redox de	velopment,	assume hydric soils.			
LIVEROLO	OV											
HYDROLO		<b>.</b>							Consider Total			
Wetland Hydi			<b>+</b> )						Secondary Indicators (two or more are required)  Water Stained Leaves (B9)			
	tors (any one i	s sumcien	L)			-:l-l A		(DZ)		` '		
Surface Water (A1) High Water Table (A2)					undation Vis		_		✓ Drainage Patterns (B10)  Oxidized Rhizospheres along Living Roots (C3)			
	Sparsely Vegetated Concave Surface (B8)						of Reduced Iron (C4)					
☐ Saturation (A3) ☐ Water Marks (B1)				<ul><li>☐ Marl Deposits (B15)</li><li>☐ Hydrogen Sulfide Odor (C1)</li></ul>					Salt Depos	` '		
	Deposits (B2)									Stressed Plants (D1)		
	,				y-Season W					ic Position (D2)		
☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4)					her (Explain	ı ın kema	rks)			, ,		
Iron Depo							quitard (D3) graphic Relief (D4)					
	oil Cracks (B6)									al Test (D5)		
Field Observa									FAC-fieutio	ar rest (D3)		
		Voc	No •	D	nth (inches	۸.						
Surface Water				De	epth (inches	5):						
Water Table P		Yes C	No •	De	epth (inches	s):		Wetla	nd Hydrology Presen	it? Yes ⊙ No ○		
Saturation Pre (includes capil		Yes C	No 💿	De	epth (inches	s):						
Describe Recor	ded Data (strea	am gauge	monitor we	ell, aerial p	hotos, previ	ious inspe	ection) if ava	ailable:				
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												
no wetland hydrology indicators												

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