## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Si	te: Susitna-Watana Hyd	roelectric Project		_ Borough/Ci	ity: Matanusk	ka-Susitna Borough Sampling Date: 19-Aug-15		
Applicant/	Owner: Alaska Energy A	uthority				Sampling Point: SW15_T316_01		
nvestigat		•		Landform	(hillside, terrac	ce, hummocks etc.): Ridgetop		
Local relie	ef (concave, convex, none):	convex		Slope:	8.7 % / 5.0			
	1: Cook Inlet Mountains		Lat			Long.: Datum: WGS84		
_	Jnit Name:		Lui			NWI classification: Upland		
•	-				Yes ● No ○			
	tic/hydrologic conditions on					(If no, explain in Remarks.)  Jormal Circumstances" present? Yes ● No ○		
Are Veg			·	antly disturbed		Tomas on our otter of process.		
Are Veg	etation	, or Hydrology	naturali	y problematic	? (If nee	eded, explain any answers in Remarks.)		
<b>SUMMA</b>	<b>ARY OF FINDINGS</b> - A	ttach site map sho	wing s	sampling po	oint locations	s, transects, important features, etc.		
Hv	drophytic Vegetation Prese	nt? Yes ⊙ No C	)					
	rdric Soil Present?	Yes O No @			Is the Sam			
	etland Hydrology Present?	Yes O No		within a Wetland? Yes ○ No •				
				nen hirch-eric	aceous shruh w	with patches of dwarf spruce, most of which looks like		
Kemana	picmar	eeply to valley with lake	5. IOW 0	pen biran-enc	aceous siliub v	vitil pateries of await sprace, most of which looks like		
/EGET	ATION - Use scientific	names of plants. L	ist all	species in t	he plot.			
					•	Dominance Test worksheet:		
Tree S	tratum		Absol % Co			Number of Dominant Species		
1.						That are OBL, FACW, or FAC: 2 (A)		
2.						Total Number of Dominant Species Across All Strata: 2 (B)		
3.						Percent of dominant Species		
4.						That Are OBL, FACW, or FAC: 100.0% (A/B)		
5.			_			Prevalence Index worksheet:		
		Total Cover	:	<u> </u>		Total % Cover of: Multiply by:		
Sapling	g/Shrub Stratum	50% of Total Cover:	0	20% of Total Co	over:0	OBL Species $0 \times 1 = 0$		
1. RI	hododendron tomentosum		4	.0	FACW	FACW Species 50 x 2 = 100		
	atula nana		_			FAC Species 65.2 x 3 = 195.6		
	mpetrum nigrum		_	5	FAC	FACU Species 0.2 x 4 = 0.800		
_	accinium vitis-idaea			0	FAC	UPL Species 0 x 5 = 0		
_	icea mariana		_	0	FACW	Column Totals: _115.4 (A) _296.4 (B)		
-	accinium uliginosum				FAC			
7. Ar	rctous ruber				FAC	Prevalence Index = B/A = <u>2.568</u>		
8. Be	etula neoalaskana		0	.1	FACU	Hydrophytic Vegetation Indicators:		
9.			(			✓ Dominance Test is > 50%		
10			(		FACU	✓ Prevalence Index is ≤3.0		
		Total Cover				Morphological Adaptations (Provide supporting data in		
_	tratum_	50% of Total Cover:	57.55	20% of Total C	over: 23.02	Remarks or on a separate sheet)		
1. <u>C</u>	arex bigelowii		0	.1 📙	FAC	Problematic Hydrophytic Vegetation (Explain)		
_	nthoxanthum monticola ssp	. alpinum		.1 📙	UPL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
			-	.1 📙	FAC	be present, unless disturbed or problematic.		
				<u> </u>		Plot size (radius, or length x width)		
				<u> </u>		% Cover of Wetland Bryophytes		
			_	<u> </u>		(Where applicable)		
			_			% Bare Ground		
			_	0		Total Cover of Bryophytes		
			_					
111		Total Cover	_	0		Hydrophytic Vegetation		
10			. U.	J				
10.		50% of Total Cover:			over: 0.06	Present? Yes   No		

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SOIL Sampling Point: SW15\_T316\_01

JUIL								Samping	Point: 2M12_1210_01		
Profile Description			eeded to docu	ment the indicator or co			ators)				
Depth	Matrix			Red		x Features	2	_			
(inches)	Color (mo	ist)	<u>%</u> _	Color (moist)	<u>%</u>	Type <sup>1</sup>	<u>Loc</u> 2	Texture	Remarks		
0-2								Fibric Organics			
2-6	10YR	2/2	100					Silt Loam			
6-12	7.5YR	2.5/3	100					Sandy Loam			
12-14	5YR	3/3	100					Fine Sand			
				-							
1 <sub>Typo</sub> C-Con		-Doplotion	DM-Dodu	ced Matrix <sup>2</sup> Location	DI – Don	- Lining DC		unnal M-Matrix			
		=Depletion	. RM=Reduc					ITILIEI. M=Matrix			
Hydric Soil I				Indicators for Pr		4	oils:	1			
	Histel (A1)			Alaska Color Cl		-		Alaska Gleyed Without Hu Underlying Layer	e 5Y or Redder		
Histic Epip				Alaska Alpine s				Other (Explain in Remarks	5)		
	Sulfide (A4)				VITTI 2.5Y I	nue		Other (Explain in Remarks	5)		
	Surface (A12)	)		<sup>3</sup> One indicator of	hydrophy	tic vegetatio	n, one prim	nary indicator of wetland hy	drology,		
Alaska Gle				and an appropriat	e landscap	pe position r	must be pre	esent			
	yed Pores (A1	5)		4 Give details of co	olor chang	e in Remark	(S				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present?	Yes ○ No •		
Depth (inch	ies):										
Remarks:											
no hydric soil indicators											
HYDROLO	GY										
Wetland Hydi	rology Indica	tors:						Secondary Indic	ators (two or more are required)		
Primary Indica	tors (any one	is sufficien	t)					Water Stained Leaves (B9)			
	Surface Water (A1) Inundation Visible on Aerial Imagery (B7						ry (B7)				
High Water Table (A2) Sparsely Vegetated						ncave Surfac	ce (B8)		izospheres along Living Roots (C3)		
Saturation (A3)			Marl Deposits	. ,				Reduced Iron (C4)			
Water Marks (B1)				Hydrogen Su				☐ Salt Deposit			
					Water Tabl				Stressed Plants (D1)		
	☐ Drift Deposits (B3) ☐ Other (Explain in Remarks)								Position (D2)		
Algal Mat or Crust (B4)  Shallow Aquitard (D3)											
☐ Iron Depo									raphic Relief (D4)		
	oil Cracks (B6)						1	☐ FAC-neutral	Test (D5)		
Field Observa		Voc (	No •	Death Code							
Surface Water		_	_	Depth (inche	:s):						
Water Table P		Yes 🤇	No 💿	Depth (inche	s):		Wetlar	nd Hydrology Present	:? Yes ○ No •		
Saturation Pre (includes capil		Yes C	No 💿	Depth (inche	s):						
		am gauge	, monitor we	ell, aerial photos, pre	vious inspe	ection) if ava	ailable:				
Remarks:											
no wetland hydrology indicators											

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