## WETLAND DETERMINATION DATA FORM - Alaska Region

rojec	t/Site: Susitna-Watana Hydroelectric Project		В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 22-Aug-15		
Applic	ant/Owner: Alaska Energy Authority					Sampling Point: SW15_T314_01		
	gator(s): GVF		I	Landform (hills	side, terrac	e, hummocks etc.): Hillside		
	relief (concave, convex, none): hummocky			Slope: 15.8				
	gion : Cook Inlet Mountains	La				Long.: Datum: WGS84		
		La	_					
	ap Unit Name:				<b>■</b> N= ○	NWI classification: Upland		
	matic/hydrologic conditions on the site typical for this till $\prime$ egetation $\square$ , Soil $\square$ , or Hydrology $\square$		-	disturbed?	● No ○ Are "N	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○		
Are ۱	/egetation $\square$ , Soil $\square$ , or Hydrology $\square$ ı	natura	lly pro	oblematic?	(If nee	ded, explain any answers in Remarks.)		
SUM	MARY OF FINDINGS - Attach site map show	vina :	sam	nlina point	locations	transects important features, etc.		
				pinig ponit	.0001.01.0	, transcotte, important routaires, etc.		
	, , , , <sub>0</sub>			ls '	Is the Sampled Area			
	· · · · · · · · · · · · · · · · · · ·					'etland? Yes ○ No ●		
	Wetland Hydrology Present? Yes No •	)		***	unin a vv	Charles .		
Rem	arks:							
/F-0	TATION							
/EG	<b>ETATION</b> -Use scientific names of plants. Li	st all	spe	cies in the p	olot.			
		Abso		Dominant	Indicator	Dominance Test worksheet:		
	e Stratum	% Co	over	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)		
1.		_	_			Total Number of Dominant		
2.		_	_			Species Across All Strata:3 (B)		
3.		_	_			Percent of dominant Species		
4. 5.		_	_			That Are OBL, FACW, or FAC: 100.0% (A/B)		
5.	Total Covers	_				Prevalence Index worksheet:		
C			<u>0</u>	of Total Cover:	0	Total % Cover of: Multiply by:		
Sal	sling/Shrub Stratum 50% of Total Cover:	0	20/6		0	OBL Species 0 x1 = 0		
	Vaccinium uliginosum	_	25	<b>✓</b>	FAC	FACW Species 15.1 x 2 = 30.20		
2.	Betula nana	_	22_	<b>V</b>	FAC	FAC Species <u>57.2</u> x 3 = <u>171.6</u> FACU Species 1 x 4 = 4		
3.	Rhododendron tomentosum	_	15	<b>✓</b>	FACW			
4.	Vaccinium vitis-idaea	_	5		FAC			
5.	Empetrum nigrum	_	5		FAC	Column Totals: <u>73.3</u> (A) <u>205.8</u> (B)		
6. 7.	Picea glauca  Betula glandulosa	_	1 ).1		FACU FAC	Prevalence Index = B/A =		
8.	Salix pulchra	_	0.1		FACW	Hydrophytic Vegetation Indicators:		
9.		_	0		TACV	Dominance Test is > 50%		
		_	0	Ē		✓ Prevalence Index is ≤3.0		
	Total Cover	7	3.2			Morphological Adaptations (Provide supporting data in		
Не	<b>b Stratum</b> 50% of Total Cover:			of Total Cover:	14.64	Remarks or on a separate sheet)		
1.	Carex bigelowii	_(	0.1		FAC	Problematic Hydrophytic Vegetation (Explain)		
2.			0			<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
			0			be present, unless disturbed or problematic.		
4.		_	0			Plot size (radius, or length x width)		
5.		_	0			% Cover of Wetland Bryophytes		
		_	0			(Where applicable)		
		_	0			% Bare Ground		
		_	0			Total Cover of Bryophytes 80		
		_	0					
10.	Total Cover	_	_			Hydrophytic Vegetation		
	Total Cover:							
	50% of Total Cover: (	0.5	20%	of Total Cover	0.02	Present? Yes   No		

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SOIL Sampling Point: SW15\_T314\_01

		the depth ne	eded to docu	ment the indicator or co	nfirm the ab		cators)					
Depth (inches)	Color (mo			Color (moist)	%	Type <sup>1</sup>	_Loc_2	- Texture	Remarks			
0-6	Coloi (IIIo	istj	100	Color (moist)		Туре	LUC	Hemic Organics				
	7.5YR	2 5/1	100					Loamy Sand				
6-13		2.5/1										
13-19	10YR	5/6	100					Fine Sand	few semi-rounded gravels			
					-							
-							-	-				
								-				
¹Type: C=Cor	ncentration. D=	=Depletion	. RM=Reduc	red Matrix <sup>2</sup> Location		_		annel. M=Matrix				
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	c Hydric So	oils: <sup>3</sup>					
Histosol or	r Histel (A1)			Alaska Color Ch	nange (TA	4) <sup>4</sup>		Alaska Gleyed Without H	ue 5Y or Redder			
Histic Epip	edon (A2)			Alaska Alpine s	a Alpine swales (TA5)  Underlying Layer							
Hydrogen	Sulfide (A4)			Alaska Redox V	Vith 2.5Y I	Hue	L	Other (Explain in Remark	s)			
Thick Dark	Surface (A12)	)										
Alaska Gle	eyed (A13)			<sup>3</sup> One indicator of and an appropriat	hydrophyl	tic vegetatio	on, one prin	mary indicator of wetland h	ydrology,			
Alaska Red	dox (A14)				•		-	esent				
Alaska Gle	eyed Pores (A1	5)		<sup>4</sup> Give details of co	olor chang	e in Remark	(S					
Restrictive Laye	er (if present):											
Type:								Hydric Soil Present	? Yes ○ No •			
Depth (inch	nes):											
HYDROLO	GY											
Wetland Hydi	rology Indica	tors:						Secondary Indi	cators (two or more are required)			
Primary Indica	tors (any one	is sufficient	t)					Water Stained Leaves (B9)				
☐ Surface W	/ater (A1)			☐ Inundation V	Visible on Aerial Imagery (B7) Drainage Patterns (B10)							
High Wate	er Table (A2)			☐ Sparsely Veg	etated Cor	ncave Surfac	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)			
Saturation	. ,			Marl Deposits	s (B15)			Presence of Reduced Iron (C4)				
Water Ma	rks (B1)			Hydrogen Su	lfide Odor	(C1)		Salt Depos	its (C5)			
Sediment	Deposits (B2)			Dry-Season V	Nater Tabl	ie (C2)		Stunted or	Stressed Plants (D1)			
Drift Depo				Other (Explai	n in Rema	ırks)		Geomorphi	ic Position (D2)			
	or Crust (B4)							_	juitard (D3)			
Iron Depo	` ,								graphic Relief (D4)			
Surface So	oil Cracks (B6)							<b>✓</b> FAC-neutra	l Test (D5)			
Field Observa	ations:											
Surface Water	r Present?		No 💿	Depth (inche	.s):				_			
Water Table P	resent?	Yes C	No ●	Depth (inche	:s):		Wetla	nd Hydrology Presen	t? Yes O No 💿			
Saturation Pre (includes capil		Yes C	No ●	Depth (inche	:s):							
Describe Recor	ded Data (stre	am gauge,	monitor we	ell, aerial photos, prev	vious inspe	ection) if ava	ailable:					
Remarks:												

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