WETLAND DETERMINATION DATA FORM - Alaska Region

Project	t/Site: Susitna-Watana Hydroelectri	c Project	E	Borough/City:	Matanusk	a-Susitna Borough Sampling Date:	19-Aug-15		
Applica	ant/Owner: Alaska Energy Authority					Sampling Point: S	W15_T321_03		
nvesti	gator(s): SLI, ATH			Landform (hil	side, terrac	e, hummocks etc.): Floodplain			
ocal r	relief (concave, convex, none): non	e		Slope: 0.0	% / 0.0	° Elevation:			
Subrec	gion: Cook Inlet Mountains	-	Lat.:			Long.:	Datum: WGS84		
_	ap Unit Name:		Lut			NWI classification: PEM1/			
				o V	● No ○		SS1E		
Are V Are V	/egetation ☐ , Soil ☐ , or Hy	vdrology vdrology	significantl naturally p	y disturbed? roblematic?	Are "N (If nee	(If no, explain in Remarks.) formal Circumstances" present? Yes ded, explain any answers in Remarks.) s, transects, important features,			
	Hydrophytic Vegetation Present?	Yes No)						
		Yes No		Is the Sampled Area					
	,	Yes No		within a Wetland? Yes ● No ○					
Rema	, ,								
/EGE	ETATION - Use scientific name	s of plants. L	ist all spe	ecies in the	•	Dominance Test worksheet:			
Tre	e Stratum		% Cover		Status	Number of Dominant Species	2 (4)		
1.			0			That are OBL, FACW, or FAC:	(A)		
2.			0			Total Number of Dominant Species Across All Strata:	3 (B)		
3.			0			Percent of dominant Species			
4.			0				100.0% (A/B)		
5.			0			Prevalence Index worksheet:			
		Total Cover	:			Total % Cover of: Multiply	bv:		
Sap	oling/Shrub Stratum 50% of	Total Cover:	0 20%	of Total Cover	0	OBL Species 10 x 1 =	10		
1.	Salix pulchra		60	✓	FACW	FACW Species 66 x 2 =	132		
	Spiraca atovanii				FACU	FAC Species 23.1 x 3 =	69.30		
3.	Diagonal and a second				FACU	FACU Species 3.1 x 4 =	12.4		
3. 4.	Detule none		-		FAC	UPL Species 0 x 5 =	0		
5.					TAC				
5. 6.						Column Totals: 102.2 (A)	<u>223.7</u> (B)		
7.						Prevalence Index = B/A =	2.189		
٥.			0			Hydronbytic Vocatation Indicators			
9.						Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%			
10.			0			✓ Prevalence Index is ≤3.0			
10.		Total Cover				Morphological Adaptations (Provide	supporting data in		
Her	b Stratum 50% of	Total Cover:		% of Total Cove	: 12.8	Remarks or on a separate sheet)	supporting data in		
1.	Calamagrostis canadensis		15	✓	FAC	Problematic Hydrophytic Vegetation	(Explain)		
2.	Comorum naluatra		10	\checkmark	OBL	¹ Indicators of hydric soil and wetland hydr	ology must		
3.	O				FACW	be present, unless disturbed or problemat			
4.	Entratura Lagrana				FAC	Diet eine (undies au lau alle au lau alle a			
5.	Dubus sharesans		-		FACW	Plot size (radius, or length x width)	_5m		
6.	D. b. a. a. C. a.		2		FAC	% Cover of Wetland Bryophytes (Where applicable)			
7.	Carrierations amongs		2		FAC	% Bare Ground	_60		
8.	Marata as 1244		0.1		FAC	Total Cover of Bryophytes	30		
9.	Chamaanarian anavatifalium		0.1		FACU	, , , ,			
10.			0			Hydrophytic			
		Total Cover	38.2			Vegetation			
	50% of	Total Cover:	19.1 20%	of Total Cover	7.64	Present? Yes • No •			
Rem	narks: trace polemonium, geranium,	viola							

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SOIL Sampling Point: SW15_T321_03

Profile Descripti			ded to documer	nt the indicator or co			ators)				
Depth		latrix			dox Featu		2		Parrieda		
(inches)	Color (moi	st)	<u>%</u> (Color (moist)	<u>%</u>	Type ¹	_Loc_2	Texture Muslay Post	Remarks		
0-12			— —					Mucky Peat	w/ mineral content		
12-16								Muck	w/mineral content		
16								Cobble	Refusal		
-								-			
1 _{Type: C=Cor}	ocentration D-	Denletion I	PM-Peduced	Matrix ² Location	n: DI – Dore	Lining PC	-Poot Cha	nnel M-Matriy			
		Depletion. I						illiei. M-Maulx			
Hydric Soil Indicators: Indicators for Problematic Hydric Soils						oils:	1				
Histosol or Histel (A1)			L	Alaska Color Change (TA4) Alaska Gleyed Without Hue 5Y or Redder Underlying Layer							
Histic Epip			L	☐ Alaska Alpine swales (TA5) Underlying Layer ☐ Alaska Redox With 2.5Y Hue ☐ Other (Explain in Remarks)							
	Sulfide (A4)		L	Alaska Redox (WIUI 2.51 F	iue		Outer (Explain in Remain	3)		
	Surface (A12)		:	³ One indicator of	hydrophyt	ic vegetatio	n, one prin	nary indicator of wetland h	nydrology,		
Alaska Gle				and an appropria	te landscap	e position n	nust be pre	esent			
	yed Pores (A15)		⁴ Give details of o	olor change	e in Remark	s				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	? Yes ● No ○		
Depth (inch	nes):							•			
Remarks:							I				
HYDROLO	GY										
Wetland Hyd		ors:						Secondary Indi	cators (two or more are required)		
_	tors (any one is							Water Stained Leaves (B9)			
☐ Surface W	/ater (A1)			☐ Inundation V	isible on A	erial Imager	(B7) Drainage Patterns (B10)				
					etated Con	cave Surfac	e (B8)	Oxidized R	hizospheres along Living Roots (C3)		
Saturation (A3)				Marl Deposits (B15)				_	of Reduced Iron (C4)		
Water Marks (B1)					ılfide Odor	(C1)		Salt Depos	its (C5)		
	Deposits (B2)			Dry-Season \		` '			Stressed Plants (D1)		
☐ Drift Depo	` ,			U Other (Expla	in in Rema	rks)		_	ic Position (D2)		
	or Crust (B4)								quitard (D3)		
☐ Iron Depo	` ,								graphic Relief (D4)		
	oil Cracks (B6)							✓ FAC-neutra	al Test (D5)		
Field Observa Surface Water		Yes O	No (Depth (inche).						
		Yes •			•		\4/ -4l	nd Hadralana Brass	t? Yes • No O		
Water Table P				Depth (inche	es): 12		wetiai	nd Hydrology Presen	t? Yes • No ·		
Saturation Pre (includes capi		Yes •	No O	Depth (inche	es): 4						
Describe Recor	ded Data (strea	m gauge, r	nonitor well,	aerial photos, pre	vious inspe	ction) if ava	ilable:				
Remarks:											
D2-floodplain											

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