WETLAND DETERMINATION DATA FORM - Alaska Region

rojec	t/Site: Susitna-Watana Hydr	oelectric Project	B	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 19-Aug-15			
pplica	ant/Owner: Alaska Energy Au	uthority				Sampling Point: SW15_T327_09			
vesti	gator(s): GVF			Landform (hil	lside, terrac	e, hummocks etc.): Hillside			
ocal r	relief (concave, convex, none):	flat		Slope: 21.2	2 % / 12.0	O ° Elevation:			
ıbrec	gion: Cook Inlet Mountains		Lat.:			Long.: Datum: WGS84			
	ap Unit Name:					NWI classification: Upland			
	·			0 Voo	● No ○				
Are V Are V	matic/hydrologic conditions on to degree the conditions on the conditions of the conditions on the con	, or Hydrology	significantly naturally pr wing sam	y disturbed? oblematic?	Are "N (If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.) s, transects, important features, etc.			
	Hydrophytic Vegetation Preser	nt? Yes 🔾 No 🖲)	_					
	Hydric Soil Present?	Yes ○ No •)	Is the Sampled Area					
	Wetland Hydrology Present?	Yes ○ No ④)	W	ithin a W	Vetland? Yes ○ No •			
Rema	arks:								
Tre	ETATION - Use scientific e Stratum Picea glauca	names of plants. Li	Absolute % Cover	Dominant Species?	plot. Indicator Status FACU	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)			
2.						Total Number of Dominant Species Across All Strata:4 (B)			
3.						Percent of dominant Species			
4.						That Are OBL, FACW, or FAC: 50.0% (A/B)			
5.						Prevalence Index worksheet:			
		Total Cover	: _3_			Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum	50% of Total Cover:	1.5 20%	of Total Cover	0.6	OBL Species <u>0</u> x 1 = <u>0</u>			
1.	Alnus viridis ssp. sinuata		75	✓	FAC	FACW Species 0 x 2 = 0			
2.	Ribes triste		5		FAC	FAC Species <u>107</u> x 3 = <u>321</u>			
3.	Spiraea stevenii		3		FACU	FACU Species <u>44.2</u> x 4 = <u>176.8</u>			
4.	Picea glauca		0.1		FACU	UPL Species <u>0</u> x 5 = <u>0</u>			
5.			-			Column Totals: <u>151.2</u> (A) <u>497.8</u> (B)			
6.						Prevalence Index = B/A =3.292_			
7.									
8.						Hydrophytic Vegetation Indicators:			
						Dominance Test is > 50%			
10.		Total Cover:	0			☐ Prevalence Index is ≤3.0			
Her	b Stratum	50% of Total Cover:		6 of Total Cove	r: 16.62	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)			
	Rubus pedatus		20	✓	FAC	Problematic Hydrophytic Vegetation (Explain)			
	Carnus canadansis		20	<u></u>	FACU	¹ Indicators of hydric soil and wetland hydrology must			
3.	Deventorio evenence		15	✓	FACU	be present, unless disturbed or problematic.			
4.	Talandalia avusasasa		-		FACU	Plot size (vadius av langth v width)			
5.	Calamagrostis canadensis				FAC	Plot size (radius, or length x width) 10m			
6.	Rubus arcticus		2		FAC	% Cover of Wetland Bryophytes (Where applicable)			
7.	Equisetum sylvaticum		1		FAC	% Bare Ground			
8.	Lycopodium clavatum		0.1		FACU	Total Cover of Bryophytes			
9.									
10.						Hydrophytic			
		Total Cover:				Vegetation Present? Yes ○ No ●			
		50% of Total Cover: 3	3 FF 300/	of Total Course		Present? Yes O No •			

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SOIL Sampling Point: SW15_T327_09

									10mt. 5W15_1527_65			
		the depth ne	eded to docu	ment the indicator or co	onfirm the ab		ators)					
Depth (inches)	Color (mo		%	Color (moist)	<u>%</u>	Type ¹	_Loc_2	Texture	Remarks			
0-5								Hemic Organics				
5-8	7.5YR	3/2	100					Silt Loam				
8-11	2.5YR	2.5/2	100					Silt Loam				
11-14	5YR	3/4	100					Sandy Loam				
14-18	10YR	4/2	100					Silt Loam				
¹Type: C=Cor	ncentration. D	=Depletion.	RM=Reduc	ced Matrix ² Location	n: PL=Por	re Lining. RC	=Root Cha	nnel. M=Matrix				
Hydric Soil I	ndicators:			Indicators for Pr	roblemati	ic Hydric Sc	oils:					
Histosol or	Histel (A1)			Alaska Color Cl		4		Alaska Gleyed Without Hu	ie 5Y or Redder			
Histic Epip	edon (A2)			Alaska Alpine s	-	-		Underlying Layer				
	Sulfide (A4)			Alaska Redox \	With 2.5Y	Hue		Other (Explain in Remarks	5)			
	Surface (A12	.)		³ One indicator of	hvdrophy	rtic veaetatio	n. one prim	nary indicator of wetland hy	vdrology.			
Alaska Gle				and an appropriat					diolog ₁₁			
Alaska Red	lox (A14) yed Pores (A1	5)		⁴ Give details of co	olor chang	je in Remark	S					
	-											
Restrictive Laye	er (if present):							Undric Sail Brocant?	Yes O No 💿			
Type: Depth (inch	nes):							Hydric Soil Present?	' Yes ∪ NU ⊖			
Remarks:												
no hydric soil in	dicators											
110 frydric 30ii iii	Iulcator 5											
HYDROLO	GY											
Wetland Hydi		ators:						Secondary Indic	rators (two or more are required)			
Primary Indica			:)						ned Leaves (B9)			
Surface W	☐ Inundation V	/isible on A	Aerial Imager	y (B7)	☐ Drainage Pa	atterns (B10)						
High Water Table (A2)				Sparsely Veg	jetated Co	ncave Surfac	e (B8)	Oxidized Rh	nizospheres along Living Roots (C3)			
Saturation	n (A3)			Marl Deposits	. ,			Presence of	Reduced Iron (C4)			
Water Mai				Hydrogen Su	ılfide Odor	(C1)		Salt Deposit				
	Deposits (B2)			☐ Dry-Season \	Water Tab	le (C2)			Stressed Plants (D1)			
☐ Drift Depo				U Other (Explain	in in Rema	arks)			c Position (D2)			
	or Crust (B4)							Shallow Aqu				
Iron Depo									raphic Relief (D4)			
Field Observa	oil Cracks (B6)	1						☐ FAC-neutral	Test (D5)			
Surface Water		Yes C	No •	Depth (inche	عم):							
Water Table P			No •		,		Wetlar	nd Hydrology Present	t? Yes O No 💿			
Saturation Pre				Depth (inche	,		TT CCIC.	ila fiyarology i rese	,: 163 C 110 C			
(includes capil		Yes ∪	No 💿	Depth (inche	es):							
Describe Record	ded Data (stre	am gauge,	monitor we	ell, aerial photos, pre	vious inspe	ection) if ava	ilable:					
Remarks:												
no wetland hydrology indicators												

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