WETLAND DETERMINATION DATA FORM - Alaska Region

rojec	t/Site: Susitna-Watana Hydr	oelectric Project	B	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 22-Jun-12
pplic	ant/Owner: Alaska Energy A	uthority				Sampling Point: SW12_T18_12
rvest	gator(s): SLI, EKJ			Landform (hill	side, terrac	e, hummocks etc.): Lowland
ocal	relief (concave, convex, none):	flat		Slope: 0.0	% / 0.0	° Elevation: 755
ubre	gion: Southcentral Alaska		Lat ·	62.847279908	 86	Long.: -149.225859968 Datum: WGS84
	ap Unit Name:			02.047270000		NWI classification: PEM1E
		h9- (-2) ((b)- (0 Vaa	● No ○	
Are \ Are \	matic/hydrologic conditions on to degree the conditions on the conditions of the conditions on the conditions of the conditions on the con	, or Hydrology	significantly naturally pr	y disturbed? oblematic?	Are "N (If nee	(If no, explain in Remarks.) formal Circumstances" present? Yes ● No ○ fided, explain any answers in Remarks.) formal Circumstances" present? Yes ● No ○ fided, explain any answers in Remarks.)
	Hydrophytic Vegetation Preser	nt? Yes • No)			
	Hydric Soil Present?	Yes No)	Is	the Sam	pled Area
	Wetland Hydrology Present?	Yes ● No C		wi	thin a W	etland? Yes No
D	narks:					
EGI	ETATION - Use scientific	names of plants. L				Dominance Test worksheet:
Tre	e Stratum		Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species
1.			0			That are OBL, FACW, or FAC: 4 (A)
2.			0			Total Number of Dominant Species Across All Strata: 4 (B)
3.			0			Percent of dominant Species
4.			0			That Are OBL, FACW, or FAC: 100.0% (A/B)
5.			0			Prevalence Index worksheet:
		Total Cover	:			Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum	50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species 15 x 1 = 15
1	Betula nana		5	✓	FAC	FACW Species 14 x 2 = 28
2.	Empetrum nigrum		10	✓	FAC	FAC Species 18 x 3 = 54
3.	Salix myrtillifolia				FACW	FACU Species 0 x 4 = 0
4.	Andromeda polifolia				FACW	UPL Species 0 x 5 = 0
5.	Vaccinium uliginosum		3		FAC	Column Totals: 47 (A) 97 (B)
6.			0			
7.						Prevalence Index = B/A =
8.			0			Hydrophytic Vegetation Indicators:
9.			0			✓ Dominance Test is > 50%
10.			0			✓ Prevalence Index is ≤3.0
He	b Stratum	Total Cover 50% of Total Cover:		6 of Total Cover	: 4.2	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1.	Carex aquatilis		15	✓	OBL	Problematic Hydrophytic Vegetation (Explain)
	Rubus chamaemorus		1		FACW	¹ Indicators of hydric soil and wetland hydrology must
			_		FACW	be present, unless disturbed or problematic.
						Plot size (radius, or length x width) 10m
			_			% Cover of Wetland Bryophytes
						(Where applicable)
						% Bare Ground
						Total Cover of Bryophytes98
			0			
10.		Total Cover				Hydrophytic Vegetation
				of Total Covers	5 2	Present? Yes No
		50% of Total Cover:	13 20%	OF LOCAL COVERS	5 /	riesche: ics = ito =

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SOIL Sampling Point: SW12_T18_12

	Matrix		Re	dox Featur		ators)		
(inches) Color (i			olor (moist)	_%_	Type ¹	<u>Loc</u> 2	Texture	Remarks
0-2		100					Fibric Organics	-
2-8		100					Hemic Organics	
								
1			2					
¹ Type: C=Concentration.	D=Depletion. R				_		nnel. M=Matrix	
Hydric Soil Indicators:		Iı	ndicators for P		4	oils:	1	
Histosol or Histel (A1)		L	Alaska Color C				Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipedon (A2)			☐ Alaska Alpine	,			Underlying Layer	
Hydrogen Sulfide (A4)		L	Alaska Redox	With 2.5Y Hu	ıe		Other (Explain in Remark	S)
Thick Dark Surface (A:	2)	3	One indicator o	f hydronhytic	vegetatio	n one prin	nary indicator of wetland h	vdrology
Alaska Gleyed (A13)			and an appropria					yurology,
Alaska Redox (A14)		4	Give details of o	color change	in Domark			
☐ Alaska Gleyed Pores (A	.15)		Give details of t	color change	III NCIIIai N			
Restrictive Layer (if present								
Type: active layer (from	en)						Hydric Soil Present	? Yes ● No O
Depth (inches): 8								
IYDROLOGY								
IYDROLOGY Wetland Hydrology Indi	cators:						_Secondary Indi	cators (two or more are required)
								cators (two or more are required) ned Leaves (B9)
Wetland Hydrology Indi			☐ Inundation \	Visible on Ae	rial Imagei	гу (В7)	Water Stair	
Wetland Hydrology Indi Primary Indicators (any on Surface Water (A1) High Water Table (A2	e is sufficient)			Visible on Aei getated Conc			Water Stain Drainage P Oxidized R	ned Leaves (B9) latterns (B10) hizospheres along Living Roots (C3)
Wetland Hydrology Indi Primary Indicators (any on Surface Water (A1) High Water Table (A2) Saturation (A3)	e is sufficient)			getated Conc			Water Stain Drainage P Oxidized R Presence o	ned Leaves (B9) latterns (B10) hizospheres along Living Roots (C3) f Reduced Iron (C4)
Vetland Hydrology Indi Primary Indicators (any on Surface Water (A1) High Water Table (A2) Saturation (A3)	e is sufficient)		Sparsely Ve	getated Conc	ave Surfac		Water Stain Drainage P Oxidized R	ned Leaves (B9) latterns (B10) hizospheres along Living Roots (C3) f Reduced Iron (C4)
Vetland Hydrology Indi Primary Indicators (any on Surface Water (A1) High Water Table (A2) Saturation (A3)	e is sufficient)		Sparsely Ve	getated Conc ts (B15)	cave Surfac		Water Stail Drainage P Oxidized R Presence o Salt Depos	ned Leaves (B9) latterns (B10) hizospheres along Living Roots (C3) f Reduced Iron (C4)
Wetland Hydrology Indi Primary Indicators (any on Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1)	e is sufficient)		Sparsely Ve	getated Cond ts (B15) ulfide Odor (cave Surfac C1) (C2)		Water Stail Drainage P Oxidized R Presence o Salt Depos Stunted or	ned Leaves (B9) atterns (B10) hizospheres along Living Roots (C3) f Reduced Iron (C4) its (C5)
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