WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Proje	ct		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 01-Aug-12						
Applica	nt/Owner: Alaska Energy Authority			Sampling Point: SW12_T41_03								
Investic	gator(s): SLI, KMK	e, hummocks etc.): Lowland										
Local relief (concave, convex, none): hummocky Slope: 0.0 % / 2.0 ° Elevation: 839												
	ion: Interior Alaska Mountains		L at :									
			Lal									
	p Unit Name:			NWI classification: PSS1/EM1E								
	re climatic/hydrologic conditions on the site typical for this time of year? Yes ● No ○ (If no, explain in Remarks.) Are Vegetation □ , Soil □ , or Hydrology □ significantly disturbed? Are "Normal Circumstances" present? Yes ● No ○											
Are V	egetation 🔲 , Soil 🗹 , or Hydrology	na	turally p	roblematic?		ded, explain any answers in Remarks.)						
CIIMA	MARY OF FINDINGS - Attach site ma				·	, ,						
		•	ny sai	ripiirig poirit	locations	s, transects, important leatures, etc.						
	Hydrophytic Vegetation Present? Yes	No O		ls t	Is the Sampled Area							
	Hydric Soil Present? Yes Yes	No O		within a Wetland? Yes • No								
	Wetland Hydrology Present? Yes ●	No O		VVII	iiiii a vv	euana:						
Remarks: carbig tussocks and peaty hummocks with mesic shrubs, intermixed with wet sedge too finely to map seperately. other lakeshore areas have less wet sedge and more tussocks and/or hummocks w mesic shrub community VEGETATION - Use scientific names of plants. List all species in the plot.												
	ose scientine names of pr			•		Dominance Test worksheet:						
Tro	e Stratum		bsolute 6 Cove		Indicator Status	Number of Dominant Species						
1.	: Stratum		0		Status	That are OBL, FACW, or FAC:(A)						
2.			0	- 📙		Total Number of Dominant						
3.			0	-		Species Across All Strata:						
4.			0	-		Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)						
5.			0	-								
	Tot	al Cover:	0	-		Prevalence Index worksheet: Total % Cover of: Multiply by:						
Sap	ling/Shrub Stratum 50% of Total Co	0010										
		ver: <u>0</u>		6 of Total Cover:	0	OBL Species 21 x1 = 21 FACW Species 38 x2 = 76						
	Vaccinium uliginosum		10	- 7	FAC	FAC Species 74 x 3 = 222						
2.	Empetrum nigrum		10	- V	FAC	FACU Species 2 x 4 = 8						
3.	Betula nana		15	- V	FAC	UPL Species $0 \times 5 = 0$						
4. 5.	Salix pulchra		10	- V	FACW FACW							
	Ledum decumbens			- 💆	FAC	Column Totals: <u>135</u> (A) <u>327</u> (B)						
6.	Vaccinium vitis-idaea			- 📙	FACU	Prevalence Index = B/A = 2.422						
_	Spiraea stevenii			- 📙	TACO	Undership Verstation Indicators						
9.			0	-		Hydrophytic Vegetation Indicators: Dominance Test is > 50%						
10.			0	- 🗒		✓ Prevalence Index is ≤3.0						
10.	Tot	al Cover:	61	_		Morphological Adaptations ¹ (Provide supporting data in						
Her	50% of Total Co			- % of Total Cover:	12.2	Remarks or on a separate sheet)						
1.	Carex aquatilis		10	✓	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)						
2.	Carex canescens (IAM)		20	✓	FAC	¹ Indicators of hydric soil and wetland hydrology must						
3.	Eriophorum viridicarinatum		10	✓	OBL	be present, unless disturbed or problematic.						
4.	Equisetum arvense		3		FAC	District (and its and leasth as width)						
5.	Carex bigelowii		10	✓	FAC	Plot size (radius, or length x width)						
6.	Arctagrostis latifolia		15	✓	FACW	% Cover of Wetland Bryophytes (Where applicable)						
7.	Petasites frigidus		3	. \square	FACW	% Bare Ground						
8.	Luzula parviflora		1		FAC	Total Cover of Bryophytes 30						
9.	Cornus canadensis		1	. \square	FACU							
10.	Equisetum fluviatile		1	. \square	OBL	Hydrophytic						
	Tot	al Cover:	74			Vegetation						
	50% of Total Co	ver: <u>37</u>	209	6 of Total Cover:	14.8	Present? Yes No						
Rem	erivir mult heads, no red base, conspi on 7/31/12	cuous leaf.	trace r	ubcha, parnassia	a palustris,	and poa sp. arclat same grass as collected at SW12_T46						

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SOIL Sampling Point: SW12_T41_03

Profile Descript		he depth needed to document the indicator or confirm the absence of indicator latrix Redox Features									
(inches)	Color (moi	st)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
					_						
				-							
									-		
	-					-					
¹Type: C=Cor	ncentration. D=	Depletion, F	RM=Reduce	d Matrix ² Location	: PL=Pore	- ———— e Linina. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I		- ср.сс.о		Indicators for Pro		_					
_i	r Histel (A1)			Alaska Color Ch		4		Alaska Gleyed Without Hue 5Y or Redder			
Histic Epip	• • •			Alaska Alpine sv		-		Underlying Layer	de 31 of Reddel		
				Alaska Redox W	•	•	✓	Other (Explain in Remark			
	Sulfide (A4)			Alaska Redox W	nui 2.51 i	iuc	_	(-,		
Alaska Gle	Surface (A12)			³ One indicator of	hydrophyt	ic vegetatio	n, one prim	nary indicator of wetland h	ydrology,		
				and an appropriate	e landscap	e position r	nust be pre	esent			
Alaska Red	oox (A14) eyed Pores (A15	`		4 Give details of co	lor change	e in Remark	:S				
)									
Restrictive Laye	er (if present):								? Yes • No O		
Type:								Hydric Soil Present	? Yes ● No ○		
Depth (inch	nes):										
HYDROLO	GY										
-	rology Indicat								cators (two or more are required)		
	itors (any one is	sufficient)						Water Stai	ned Leaves (B9)		
✓ Surface W	Vater (A1)			Inundation Vi	sible on A	erial Imagei	ry (B7)	☐ Drainage F	Patterns (B10)		
High Wate	er Table (A2)			Sparsely Vege	etated Con	cave Surfac	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)		
Saturation	n (A3)			Marl Deposits	(B15)			Presence o	f Reduced Iron (C4)		
Water Ma	rks (B1)			Hydrogen Sul	fide Odor	(C1)		☐ Salt Depos			
	Deposits (B2)			☐ Dry-Season W					Stressed Plants (D1)		
☐ Drift Depo				U Other (Explain	n in Rema	rks)		_	ic Position (D2)		
	or Crust (B4)								uitard (D3)		
✓ Iron Depo									graphic Relief (D4)		
	oil Cracks (B6)						1	✓ FAC-neutra	l Test (D5)		
Field Observa		v (a)									
Surface Water	r Present?	Yes •		Depth (inches	s): 4						
Water Table F	Present?	Yes 🔾	No 🕑	Depth (inches	s):		Wetlar	nd Hydrology Presen	t? Yes • No O		
Saturation Pre (includes capi		$_{Yes} \cap $	No •	Depth (inches	s):						
		m gauge, n	nonitor well,	aerial photos, prev	ious inspe	ction) if ava	ailable:				
Remarks:											
iron floc and bi	iogenic sheen in	standing w	vater								

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