WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	ca-Susitna Borough Sampling Date: 27-Jun-12								
Applica	int/Owner: Alaska Energy Authority		Sampling Point: SW12_T24_04										
Investi	gator(s): SLI, LMF	e, hummocks etc.): Plateau											
-	elief (concave, convex, none): hummocky		Slope:	% / 2.8	-								
Subrea	ion : Copper River Basin	Lat.:	62.65701794	 l6	Long.: -147.395765852 Datum: NAD83								
	p Unit Name:	NWI classification: Upland											
	natic/hydrologic conditions on the site typical for this tir	no of vo	ar? Ves	s ● No ○	(If no, explain in Remarks.)								
		•	tly disturbed?		Iormal Circumstances" present? Yes No								
		-	problematic?		eded, explain any answers in Remarks.)								
SUMN	MARY OF FINDINGS - Attach site map show		mpling poin	t locations	s, transects, important features, etc.								
Hydrophytic Vegetation Present? Yes No No Is the Sampled Area													
	Hydric Soil Present? Yes ○ No ●	1		Is the Sampled Area within a Wetland? Yes ○ No ●									
	Wetland Hydrology Present? Yes O No •	l	W										
Rema	arks:												
VEGE	TATION - Use scientific names of plants. Li	st all sp	ecies in the	plot.									
		Absolut	e Dominant	Indicator	Dominance Test worksheet:								
Tree	e Stratum	% Cove		Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)								
1.	Picea glauca	15	✓	FACU	Total Number of Dominant								
2.		0			Species Across All Strata: 7 (B)								
3.		0	- =		Percent of dominant Species								
4.		0	- =		That Are OBL, FACW, or FAC: 28.6% (A/B)								
5.		0 15			Prevalence Index worksheet:								
	Total Cover:	Total % Cover of: Multiply by:											
Sap	ling/Shrub Stratum 50% of Total Cover:	7.5 20	% of Total Cove	r: <u>3</u>	OBL Species x 1 =								
1.	Picea glauca	5		FACU	FACW Species 3 x 2 = 6								
2.	Betula glandulosa	_ 45	_ 💆	FAC	FACUS 200								
3.	Empetrum nigrum	10		FAC	FACU Species 25 x 4 = 100								
4.	Vaccinium uliginosum	35		FAC	UPL Species								
5.	Vaccinium vitis-idaea	10		FAC	Column Totals: <u>148</u> (A) <u>466</u> (B)								
6.	Rhododendron groenlandicum			FAC FAC	Prevalence Index = B/A =3.149_								
	Salix glauca Salix pulchra	3		FACW	Hydranhytic Vogotation Indicators								
9.		0		TACW	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:			er: <u>25.6</u>	Remarks or on a separate sheet)								
1.	Cornus canadensis	1	✓	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)								
2.	Spinulum annotinum		✓	FACU	¹ Indicators of hydric soil and wetland hydrology must								
3.	Diphasiastrum complanatum	-	✓	FACU	be present, unless disturbed or problematic.								
'	Chamaenerion angustifolium	-	_	FACU	Plot size (radius, or length x width)								
			_		% Cover of Wetland Bryophytes								
			-		(Where applicable)								
			-		% Bare Ground2								
			-		Total Cover of Bryophytes60								
			-										
10.			_		Hydrophytic								
			_	r: 1	Present? Yes No •								
_					1								
5. 6. 7. 8. 9.		0 0 0 0 0 0 5 2.5 20	% of Total Cove	r: <u>1</u>	(Where applicable) % Bare Ground Total Cover of Bryophytes 60 Hydrophytic Vegetation								

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SOIL Sampling Point: SW12_T24_04

	ion: (Describe to	o the depth n	eeded to docu	ment the indicator or co	onfirm the ab		cators)					
Depth (inches)	Color (m	ioist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks			
0-3								Fibric Organics				
3-18	7.5YR	2.5/3	90					Loamy Sand	10% med to coarse sub ang to rounded gr			
									-			
	-					-						
¹Type: C=Cor	ncentration. D)=Depletion	ı. RM=Reduc	ced Matrix ² Locatio	n: PL=Por	e Lining. RC	C=Root Cha	annel. M=Matrix				
Hydric Soil I	ndicators:			Indicators for P	roblemation	c Hydric S	oils: ³					
Histosol or	r Histel (A1)			Alaska Color C	hange (TA	4) ⁴		Alaska Gleyed Without Hue 5Y or Redder				
Histic Epip	edon (A2)			Alaska Alpine	swales (TA!	Object of the Contract of the						
Hydrogen	Sulfide (A4)			Alaska Redox	With 2.5Y H	lue	Other (Explain in Remarks)					
Thick Dark	Surface (A1	2)		•								
Alaska Gle	eyed (A13)			³ One indicator of and an appropria				mary indicator of wetland h	ydrology,			
Alaska Red	dox (A14)					•	•	esent				
Alaska Gle	yed Pores (A	15)		⁴ Give details of o	olor change	e in Remark	ks					
Restrictive Laye	er (if present)):										
Type:								Hydric Soil Present	? Yes ○ No •			
Depth (inch	nes):							•				
no hydric soil ir												
HYDROLO	GY	-				-						
Wetland Hydi		ators:						Secondary Indi	cators (two or more are required)			
Primary Indica			it)					Water Stained Leaves (B9)				
Surface W	/ater (A1)			Inundation \	√isible on A	erial Image	ery (B7)	☐ Drainage F	Patterns (B10)			
High Water Table (A2)				Sparsely Veg		_		Oxidized Rhizospheres along Living Roots (C3)				
Saturation (A3)				Marl Deposit			-		f Reduced Iron (C4)			
☐ Water Ma	rks (B1)			Hydrogen Si	ulfide Odor	(C1)		Salt Depos	its (C5)			
Sediment	Deposits (B2)		Dry-Season	Water Tabl	e (C2)			Stressed Plants (D1)			
Drift Depo				Other (Expla	in in Rema	rks)			ic Position (D2)			
	or Crust (B4)	1							juitard (D3)			
Iron Depo	. ,								graphic Relief (D4)			
Surface So	oil Cracks (B6	i)					П	☐ FAC-neutra	l Test (D5)			
Field Observa		. (
Surface Water	r Present?		○ No ⊙	Depth (inch	es):							
Water Table P	Present?	Yes 🤇	○ No ●	Depth (inch	es):		Wetla	nd Hydrology Presen	t? Yes ○ No •			
Saturation Pre (includes capi		Yes C	No •	Depth (inch	es):							
		eam gauge	, monitor we	ell, aerial photos, pre	evious inspe	ection) if av	ailable:					
Remarks:												
no wetland hyd	drology indica	tors										

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