WETLAND DETERMINATION DATA FORM - Alaska Region

^{>} rojec	t/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Denali Bo	rough Sampling Date: 31-Jul-13						
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T147_08						
Investigator(s): CTS, AMD Landform (hillside, terrace, hummocks etc.): Flat											
∟ocal	relief (concave, convex, none): flat		Slope:	%/ 2.8	B ° Elevation: 656						
Subre	gion : Interior Alaska Mountains	lat: (63.372000000		Long.: -148.94789 Datum: NAD83						
	ap Unit Name:										
	-			• No ()	NWI classification: PSS1B						
Are \ Are \	/egetation , Soil , or Hydrology , ARRY OF FINDINGS - Attach site map show	significantly naturally pr wing sam	v disturbed? oblematic?	Are "N (If nee	(If no, explain in Remarks.) lormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes No											
	Hydric Soil Present? Yes				/etland? Yes \odot No \bigcirc						
	<u>Wetland Hydrology Present?</u> Yes ● No ⊂ arks: Riverine low willow next to small creek)	VVI								
/EG	ETATION - Use scientific names of plants. Li				Dominance Test worksheet:						
Tre	e Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species						
1.		0			That are OBL, FACW, or FAC: (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: <u>100.0%</u> (A/B)						
5.		0			Prevalence Index worksheet:						
	Total Cover				Total % Cover of: Multiply by:						
Sa	bling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species $10 \times 1 = 10$						
1	Salix pulchra	75	\checkmark	FACW	FACW Species 77 x 2 = 154						
2.	Vaasinium uliginaaum			FAC	FAC Species $69 \times 3 = 207$						
3.	Salix barclayi			FAC	FACU Species 0 x 4 = 0						
4.	Salix richardsonii			FACW	UPL Species 0 x 5 = 0						
5.					Column Totals: <u>156</u> (A) <u>371</u> (B)						
6.											
7.		0			Prevalence Index = B/A = <u>2.378</u>						
8.		0			Hydrophytic Vegetation Indicators:						
9.		0			✓ Dominance Test is > 50%						
		0			✓ Prevalence Index is ≤3.0						
	Total Cover <u>b Stratum</u> 50% of Total Cover:		of Total Cover	:28.2	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)						
1.	Carex aquatilis	10	\checkmark	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)						
2.	Calamagrostis canadensis	5	\checkmark	FAC	¹ Indicators of hydric soil and wetland hydrology must						
3.		0			be present, unless disturbed or problematic.						
					Plot size (radius, or length x width) <u>10m</u>						
5.		0			% Cover of Wetland Bryophytes						
6.		0			(Where applicable)						
7.					% Bare Ground						
					Total Cover of Bryophytes						
۵											
		0									
					Hydrophytic						
	Total Cover 50% of Total Cover:	15	of Total Caus	3	Hydrophytic Vegetation Present? Yes • No O						

	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features							itors)				
Depth (inches)	Color (mo	ist)	%	Color (m	oist)	%	Type ¹	Loc ²	Texture	Remarks		
0-3			100		0.00)		.,,,,,		Fibric Organics			
3-14	5Y	3/1	80	10YR	4/4	20	C .	PL	Silty Clay Loam			
				1011		20	- <u> </u>					
		,										
¹ Type: C=Cor	ncentration. D=	Depletion	. RM=Reduc						nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicate	ors for Pro	blematio	Hydric So	ils: ³				
Histosol or	· Histel (A1)			🗌 Alask	a Color Cha	ange (TA4	4) ⁴] Alaska Gleyed Without Hu	ue 5Y or Redder		
Histic Epip	edon (A2)			Alask	a Alpine sw	ales (TAS	5)		Underlying Layer			
Hydrogen	Sulfide (A4)			Alask	a Redox W	ith 2.5Y F	lue		Other (Explain in Remark	s)		
	Surface (A12))										
Alaska Gle									nary indicator of wetland h	ydrology,		
Alaska Red	, , ,			and an	appropriate	landscap	e position n	nust be pre	esent			
	yed Pores (A1	5)		⁴ Give d	etails of col	or change	e in Remarks	5				
Restrictive Laye	er (if present):											
-	clay loam, act	ive laver							Hydric Soil Present?	? Yes 🖲 No 🔿		
Depth (inch		ive layer										
Remarks:												
HYDROLO	GY											
Wetland Hyd		tors:							Secondary Indic	ators (two or more are required)		
Primary Indica			t)							ned Leaves (B9)		
Surface W	/ater (A1)			🗌 Inu	Indation Vis	sible on A	erial Imager	v (B7)	🗹 Drainage P	atterns (B10)		
✓ High Wate	er Table (A2)						icave Surfac		_	nizospheres along Living Roots (C3)		
✓ Saturation (A3)								()	Presence of	f Reduced Iron (C4)		
🗌 Water Ma	rks (B1)				drogen Sulf		(C1)		Salt Deposi	ts (C5)		
	Deposits (B2)				/-Season W					Stressed Plants (D1)		
Drift Depo					ner (Explain		. ,		Geomorphi			
· .	or Crust (B4)								Shallow Aq			
Iron Depo										raphic Relief (D4)		
	oil Cracks (B6)								✓ FAC-neutra			
Field Observa												
Surface Water		Yes C) No 🖲	De	pth (inches)·						
Water Table P			No O			•		Wetla	nd Hydrology Present	t? Yes 🖲 No 🔾		
Saturation Pre					pth (inches			Weela	na nyarology riesen			
(includes capil		Yes 🖲) No 🔿	De	pth (inches): 9						
Describe Record	Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:												
Nenial NS.												