WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Denali Borough	Sampling Date:	08-Aug-13				
Applicant/Owner: Alaska Energy Authority		Samplir	ng Point: SW	13_T170_07				
Investigator(s): WAD, RWM	Landform (hills	side, terrace, hummocks etc.):	pond					
Local relief (concave, convex, none):none	Slope: 0.0	% / 0.0 ° Elevation: 821						
Subregion : Interior Alaska Mountains Lat.:	63.425348759	Long.: -148.646960	258 Dat	tum: WGS84				
Soil Map Unit Name: NWI classification: PUBHb								
Are climatic/hydrologic conditions on the site typical for this time of year? Yes No C (If no, explain in Remarks.) Are Vegetation Are "Normal Circumstances" present? Yes No C Are "No C Are "Normal Circumstances" present? Yes No C Are "Normal Circumstances" present? Yes Are "No C Are "No "								
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.								

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ● Yes ● Yes ●	· _	Is the Sampled Area within a Wetland?	Yes 🖲 No 🔿
Remarks: Active beaver dam plot				

VEGETATION - Use scientific names of plants. List all species in the plot.

			Absolute	Dominant	Indicator	Dominance Test worksheet:			
Tree	e Stratum		% Cover	Species?	Status	Number of Dominant Species			
1.		_	0			That are OBL, FACW, or FAC: (A)			
2.			0			Total Number of Dominant			
2. 3.						Species Across All Strata: <u>2</u> (B)			
•••			0			Percent of dominant Species That Are OBL, FACW, or FAC: 100,0% (A/B)			
4.			0			That Are OBL, FACW, or FAC: (A/B)			
5.			0			Prevalence Index worksheet:			
	Total Cover: Total % Cover of: Multiply by:					Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum 50% of Total Cover:	: <u> </u>) 20%	of Total Cover:	0	OBL Species x 1 =			
1.			0			FACW Species 0 x 2 = 0			
2.			0			FAC Species <u>1</u> x 3 = <u>3</u>			
3.			0			FACU Species 0 x 4 = 0			
4.			0			UPL Species $0 \times 5 = 0$			
5.			0			Column Totals: 8 (A) 10 (B)			
			0						
			0			Prevalence Index = B/A = <u>1.250</u>			
			0			Hydrophytic Vegetation Indicators:			
			0			✓ Dominance Test is > 50%			
			0			✓ Prevalence Index is ≤3.0			
			0						
Her	Total Cover: 0 Morphological Adaptations ¹ (Provide supporting data in S0% of Total Cover:								
1.	Carex aquatilis		5	\checkmark	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Comarum palustre		2	\checkmark	OBL	¹ Indicators of hydric soil and wetland hydrology must			
3.	Rumex arcticus		1		FAC	be present, unless disturbed or problematic.			
4.			0			Plot size (radius, or length x width) 10m			
			0			Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes			
			0			(Where applicable)			
			0			% Bare Ground			
			0			Total Cover of Bryophytes			
			0						
			0			Hydrophytic			
	Total C	Cover:	8			Vegetation			
	50% of Total Cover:	:4	20%	of Total Cover:	1.6	Present? Yes No			
Rem	Remarks: vegetation in a fringe surrounding beaver pond.								

SOIL

	iption: (Describe to the depth needed to document the indicator or confirm the absence of indicator Matrix Redox Features				cators)					
Depth (inches)	Color (moi	st)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rema	rks
		50)				1700	LUC			
									<u>-</u>	
			,					· .		
								·		
¹ Type: C=Co	ncentration. D=	Depletion. I	RM=Reduce	d Matrix ² Locatio	n: PL=Por	e Lining. RC	C=Root Cha	annel. M=Matrix		
Hydric Soil I	ndicators:			Indicators for P	roblemati	c Hydric So	oils: ³			
Histosol o	r Histel (A1)			Alaska Color C	hange (TA	4) 4)		Alaska Gleyed Without H	ue 5Y or Redder	
	edon (A2)			Alaska Alpine	swales (TA	5)		Underlying Layer		
	Sulfide (A4)			Alaska Redox	-	-	\checkmark	Other (Explain in Remark	ഭ)	
	surface (A12)									
Alaska Gle	. ,			³ One indicator of	hydrophyt	tic vegetatio	on, one prir	mary indicator of wetland h	ydrology,	
Alaska Gle				and an appropria	te landscap	pe position i	must be pro	esent		
	eyed Pores (A15	`		⁴ Give details of c	olor chang	e in Remark	s			
)								
Restrictive Lay	er (if present):									\sim
Type:								Hydric Soil Present	? Yes 🖲 No	, ()
Depth (incl	nes):									
HYDROLO	GY									
Wetland Hyd	rology Indicat	ors:							cators (two or more a	re required)
Primary Indica	tors (any one is	sufficient)						Water Stai	ned Leaves (B9)	
 Surface V 	/ater (A1)			Inundation \	/isible on A	erial Image	ry (B7)	Drainage P	Patterns (B10)	
High Wat	er Table (A2)			Sparsely Veg	etated Cor	ncave Surfa	ce (B8)	Oxidized R	hizospheres along Liv	ing Roots (C3)
Saturation	n (A3)			🗌 Marl Deposit	s (B15)			Presence o	f Reduced Iron (C4)	
🗌 Water Ma	rks (B1)			🗌 Hydrogen Su	Ifide Odor	(C1)		Salt Depos	its (C5)	
Sediment	Deposits (B2)			Dry-Season	Water Tabl	e (C2)		Stunted or	Stressed Plants (D1)	
Drift Dep	osits (B3)			🗌 Other (Expla	in in Rema	rks)		Geomorphi	ic Position (D2)	
🗌 Algal Mat	or Crust (B4)							Shallow Aq	uitard (D3)	
Iron Depo	osits (B5)							Microtopog	graphic Relief (D4)	
Surface S	oil Cracks (B6)							✓ FAC-neutra	l Test (D5)	
Field Observa	ations:									
Surface Wate	r Present?	Yes 🖲	No 🔿	Depth (inche	es): 0					
Water Table F	Present?	Yes \bigcirc	No 🖲	Depth (inche	es):		Wetla	nd Hydrology Presen	t? Yes 🖲 N	o ()
Saturation Pre		$_{Yes}$ \bigcirc	No 🖲	Depth (inche	,					
(includes capi Describe Recor				, aerial photos, pre	,	ection) if ava	ailable:			
_										
Remarks:										
depth unknow	n, banks saturat	ed.								