WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Samplin	ig Date: 09-Jul-13			
Applicant/Owner: Alaska Energy Authority		Sampling Point:	SW13_T120_01			
Investigator(s): JGK	Landform (hills	ide, terrace, hummocks etc.): depress	sion			
Local relief (concave, convex, none): concave	Slope: 0.0	% / 0.0 ° Elevation: 984				
Subregion : Southcentral Alaska Lat.:	62.701717019	Long.: -149.714099288	Datum: WGS84			
Soil Map Unit Name:		NWI classification:	PUBH			
Are 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 Vegetation , soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)						
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point	ocations, transects, important fea	atures, etc.			

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ④ Yes ④ Yes ④	· _	Is the Sampled Area within a Wetland?	Yes $ullet$ No $igodot$
Remarks:				

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

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum	% Cover		Status	Number of Dominant Species
1.	0			That are OBL, FACW, or FAC: <u>2</u> (A)
2.	0			Total Number of Dominant Species Across All Strata: 2 (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	r:0			Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	0 20%	6 of Total Cover:	0	OBL Species $10 \times 1 = 10$
1	0			FACW Species $5 \times 2 = 10$
2.	0			FAC Species 0 x 3 = 0
3.				FACU Species $0 \times 4 = 0$
4.				UPL Species 0 x 5 = 0
5.	0			Column Totals: <u>15</u> (A) <u>20</u> (B)
6.	0			
7.				Prevalence Index = B/A = <u>1.333</u>
8.				Hydrophytic Vegetation Indicators:
9.				✓ Dominance Test is > 50%
10.				✓ Prevalence Index is ≤3.0
Total Cover				Morphological Adaptations ¹ (Provide supporting data in
Herb Stratum 50% of Total Cover:	0 20	% of Total Cover:	0	Remarks or on a separate sheet)
1. Equisetum fluviatile	10	\checkmark	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Carex spectabilis	5		FACW	¹ Indicators of hydric soil and wetland hydrology must
3	0			be present, unless disturbed or problematic.
4				Plot size (radius, or length x width) <u>10m</u>
5	0			% Cover of Wetland Bryophytes
6	-			(Where applicable)
7	0			% Bare Ground
8				Total Cover of Bryophytes
9				
10.	0			Hydrophytic
Total Cover	r: 15			Vegetation
50% of Total Cover:	7.5 20%	6 of Total Cover:	3	Present? Yes \bullet No \bigcirc
Remarks: Vegetation cover represents emergent lacustri	ine fringe.	Center of water	body unve	getated.

SOIL

	-	e depth need atrix	ded to docun	nent the indicator or co	nfirm the at dox Featu		cators)		
Depth (inches)	Color (mois	t)	%	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks
		.,				Type	200		
								-	
			,					·	
¹ Type: C=Con	centration. D=D	epletion. F	RM=Reduce	ed Matrix ² Location	n: PL=Por	e Lining. R	C=Root Cha	nnel. M=Matrix	
Hydric Soil In	dicators			Indicators for P	oblemati	c Hydric S	oils ³		
_				Alaska Color C		4			
Histosol or	. ,			Alaska Color C	• •	,		Alaska Gleyed Without H Underlying Layer	ue SY or Redder
Histic Epipe				Alaska Redox			\checkmark	Other (Explain in Remar	(S)
Hydrogen S	. ,				WIUT 2.51	liue			.,
	Surface (A12)			³ One indicator of	hydrophy	tic vegetatio	on, one prin	nary indicator of wetland h	nydrology,
Alaska Gley				and an appropria	te landsca	pe position	must be pre	esent	
	()			⁴ Give details of c	olor chang	e in Remar	ks		
	ed Pores (A15)				-				
Restrictive Layer	r (if present):								
Type:								Hydric Soil Present	? Yes 🖲 No 🔾
Depth (inche	es):								
Remarks:									
assume hydric s	oil due to hydro	phytic veg	etation and	inundation.					
		. , .							
HYDROLOG	GY								
Wetland Hydro									cators (two or more are required)
Primary Indicat		sufficient)							ned Leaves (B9)
Surface Wa				Inundation V		-			Patterns (B10)
	r Table (A2)			Sparsely Veg		ncave Surfa	ice (B8)	_	hizospheres along Living Roots (C3)
Saturation				Marl Deposit	. ,				of Reduced Iron (C4)
Water Mar				Hydrogen Su	Ifide Odor	(C1)		Salt Depos	
_	Deposits (B2)			Dry-Season					Stressed Plants (D1)
Drift Depos	. ,			Other (Expla	in in Rema	arks)			ic Position (D2)
	or Crust (B4)							Shallow Ad	
Iron Depos	. ,								graphic Relief (D4)
Surface So	il Cracks (B6)							✓ FAC-neutra	al Test (D5)
Field Observa	tions:								
Surface Water	Present?	Yes 🖲		Depth (inche	es):				-
Water Table Pr	resent?	Yes \bigcirc	No 🖲	Depth (inche	es):		Wetla	nd Hydrology Presen	it? Yes 🖲 No 🔾
Saturation Pres		Yes \bigcirc	No 🖲	Depth (inche					
(includes capill				l, aerial photos, pre		ection) if av	ailable:		
		gaage, n							
Remarks:									
pond.									