WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Во	orough/City:	Matanusk	ka-Susitna Borough Sampling Date: 11-Jul-13
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T190_06
nvestigator(s): JGK	L	_andform (hill	side, terrac	ce, hummocks etc.): Bench
_ocal relief (concave, convex, none): flat		Slope:	%/ 2.5	5 ° Elevation: 890
Subregion : Interior Alaska Mountains	Lat.: 6	2.95426166 ²	1	Long.: -148.247489809 Datum: NAD83
Soil Map Unit Name:		2.00 120 100		NWI classification: PUBH
Are climatic/hydrologic conditions on the site typical for this	time of year?		• No ()	
Are Vegetation , Soil , or Hydrology Are Vegetation , Soil , or Hydrology SUMMARY OF FINDINGS - Attach site map sh	significantly naturally pro	disturbed? oblematic?	Are "N (If nee	lormal Circumstances" present? Yes No O
	•	p		
		ls	the Sam	ipled Area
		wi	ithin a W	/etland? Yes \odot No \bigcirc
Wetland Hydrology Present? Yes • No Remarks: Bufflehead feediing in pond.	<u> </u>	I		
EGETATION - Use scientific names of plants.				Dominance Test worksheet:
Tree 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: 0 (B)
3.				Percent of dominant Species
4.	0			That Are OBL, FACW, or FAC:0.0% (A/B)
5.	0			Prevalence Index worksheet:
Total Cov	er: 0			Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species $0 \times 1 = 0$
1	0			FACW Species $0 \times 2 = 0$
2.				FAC Species $0 \times 3 = 0$
3.				FACU Species 0 x 4 = 0
4.	_			UPL Species 0 x 5 = 0
5.				Column Totals: 0 (A) 0 (B)
6.				
7.				Prevalence Index = B/A = 0.000
8.	0			Hydrophytic Vegetation Indicators:
9.	0			Dominance Test is > 50%
10	0			Prevalence Index is ≤3.0
Total Cov <u>Herb Stratum</u> 50% of Total Cover:		of Total Cover		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1	0			Problematic Hydrophytic Vegetation ¹ (Explain)
2.				¹ Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Plot size (radius, or length x width) 5x10m
5				% Cover of Wetland Bryophytes
6				(Where applicable)
7				% Bare Ground
8				Total Cover of Bryophytes
9				
10				Hydrophytic Vegetation
l otal Cov	er: 0			
50% of Total Cover:	-	of Total Cover:	0	Present? Yes • No ·

		ie depth need atrix	led to docun	nent the indicator or co Re d	nfirm the ab dox Featu		cators)			
Depth (inches)	Color (mois	t)	%	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks	
		-,				-11				
					-					
									<u>.</u>	
<u>.</u>				<u>.</u>			-			
¹ Type: C=Con	centration. D=[Depletion. R	M=Reduce	ed Matrix ² Location	n: PL=Por	e Lining. R	C=Root Cha	nnel. M=Matrix		
Hydric Soil Ir	dicators:			Indicators for Pr	oblemati	c Hydric S	oils: ³			
Histosol or	Histel (A1)			Alaska Color C	hange (TA	4) ⁴] Alaska Gleyed Without H	ue 5Y or Redder	
Histic Epipe	edon (A2)			Alaska Alpine s	wales (TA	5)		Underlying Layer		
Hydrogen S	Sulfide (A4)			Alaska Redox \	Vith 2.5Y H	lue	\checkmark	Other (Explain in Remark	s)	
Thick Dark	Surface (A12)			30.000						
Alaska Gley	/ed (A13)			and an appropriat				nary indicator of wetland h esent	ydrology,	
Alaska Red	ox (A14)				-					
Alaska Gley	ed Pores (A15)			⁴ Give details of c	olor chang	e in Remari	KS			
Restrictive Laye	r (if present):									
Type:								Hydric Soil Present	? Yes 🖲 No 🔾	
Depth (inch	es):							-		
Remarks:										
pond, assume h	vdric soil.									
	,									
HYDROLO	GY									
Wetland Hydr		ors:						Secondary Indi	cators (two or more are required)	
Primary Indicat	ors (any one is	sufficient)						Water Stai	ned Leaves (B9)	
Surface W	ater (A1)			Inundation V	isible on A	erial Image	ery (B7)	🗌 Drainage P	atterns (B10)	
🗌 High Wate	High Water Table (A2) Sparsely Vegetated Concave Surface (B8)						ce (B8)	Oxidized Rhizospheres along Living Roots (C3)		
Saturation	. ,			🗌 Marl Deposit	s (B15)			Presence of Reduced Iron (C4)		
Water Mar	ks (B1)			Hydrogen Sulfide Odor (C1)				Salt Deposits (C5)		
_	Deposits (B2)			Dry-Season	Nater Tabl	e (C2)		Stunted or Stressed Plants (D1)		
Drift Depo	()			Other (Expla	in in Rema	rks)		Geomorphic Position (D2)		
	or Crust (B4)							Shallow Aquitard (D3)		
Iron Depo									raphic Relief (D4)	
	il Cracks (B6)							FAC-neutra	l Test (D5)	
Field Observa		v ()	•							
Surface Water	Present?	Yes 🖲	-	Depth (inche	es): 12					
Water Table P	resent?	Yes \bigcirc	No 🖲	Depth (inche	es):		Wetla	nd Hydrology Presen	t? Yes $ullet$ No $igcap$	
Saturation Pread (includes capil		$Yes \bigcirc $	No 🖲	Depth (inche	es):					
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:										
Remarks:										
Water depth es	timated at 1-5 f	ť								