WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: M	atanuska-Susitna Borough	Sampling Date:	08-Jul-13			
Applicant/Owner: Alaska Energy Authority		Samplir	ng Point: SW	13_T128_05			
Investigator(s): JER	Landform (hillside	e, terrace, hummocks etc.):	Channel (active)				
Local relief (concave, convex, none): none	Slope:1.7 %	/ 1.0 ° Elevation: 103	6				
Subregion : Southcentral Alaska Lat.:	62.945271015	Long.: -148.860623	598 Da	tum: WGS84			
Soil Map Unit Name:		NWI classi	fication: R2UBH				
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 "Normal Circumstances" present? Yes ● No ○ Are Vegetation ☑ , Soil ☑ , or Hydrology □ naturally problematic? (If needed, explain any answers in Remarks.)							
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.							

Hydrophytic Vegetation Present?	Yes 🖲	No 🔿					
Hydric Soil Present?	Yes 🖲	No 🔿	Is the Sampled Area	Yes 🖲 No 🔿			
Wetland Hydrology Present?	Yes 🖲	No 🔿	within a Wetland?				

Remarks: peat and mineral soil bottom, 2--8ft wide, 5ft deep, inflow to t124-02., wet sedge meadow banks.

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

		Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum		<u>% Cover</u>		Status	Number of Dominant Species That are OBL, FACW, or FAC: 0 (A)		
1		0					
2.		0			Total Number of Dominant Species Across All Strata: 0 (B)		
3.		0			Percent of dominant Species		
1		0			That Are OBL, FACW, or FAC: 0.0% (A/B)		
5.		0			Prevalence Index worksheet:		
	. 0			Total % Cover of: Multiply by:			
Sapling/Shrub Stratum	50% of Total Cover:	0 20%	6 of Total Cover:	0	OBL Species $0 \times 1 = 0$		
1		0			FACW Species 0 x 2 = 0		
2.					FAC Species x 3 =		
2		0			FACU Species x 4 =		
1		0			UPL Species x 5 =		
5.					Column Totals: 0 (A) 0 (B)		
6.		0			Prevalence Index = B/A = 0,000		
7		0					
8.		0			Hydrophytic Vegetation Indicators:		
9					Dominance Test is > 50%		
10.		0			Prevalence Index is ≤3.0		
	• 0			Morphological Adaptations ¹ (Provide supporting data in			
Herb Stratum	50% of Total Cover:	0 209	% of Total Cover	: 0	Remarks or on a separate sheet)		
1		0			Problematic Hydrophytic Vegetation ¹ (Explain)		
2.		0			¹ Indicators of hydric soil and wetland hydrology must		
3		0			be present, unless disturbed or problematic.		
4.		0			Plot size (radius, or length x width) 10m		
5		0			% Cover of Wetland Bryophytes		
6.					(Where applicable)		
7		0			% Bare Ground		
8		0			Total Cover of Bryophytes		
9.							
10.		0			Hydrophytic		
	Total Cover	• 0			Vegetation		
	50% of Total Cover:	0 20%	6 of Total Cover:	0	Present? Yes No		
Remarks: unvegetated active	channel						

Profile Description	•	e depth nee atrix	ded to docum	nent the indicator or co	nfirm the ab dox Featu		cators)				
(inches)	Color (mois	t)	%	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks		
		-,				- 11					
¹ Type: C=Con	centration. D=I	Depletion. I	RM=Reduce	ed Matrix ² Location	n: PL=Por	e Lining. RO	C=Root Cha	nnel. M=Matrix	-		
Hydric Soil In	dicators:			Indicators for P	oblemati	c Hydric S	oils: ³				
				Alaska Color C		4		Alaska Gleyed Without H	ue 5Y or Redder		
					wales (TA			Underlying Layer			
					\checkmark	Other (Explain in Remark	s)				
	Surface (A12)										
Alaska Gle	. ,							nary indicator of wetland h	ydrology,		
Alaska Red				and an appropria	te landscap	be position	must be pre	esent			
	yed Pores (A15)			⁴ Give details of c	olor chang	e in Remarl	ks				
Restrictive Laye	r (ii present):							Undrie Ceil Drocont	? Yes 🖲 No 🔾		
Type: Depth (inch	ور)،							Hydric Soil Present	r res \odot no \bigcirc		
	es).										
Remarks:											
active channel,	assume hydric :	soil									
HYDROLO	GY										
Wetland Hydr		ors:						Secondary Indi	cators (two or more are requir	ed)	
Primary Indicat	ors (any one is	sufficient)							ned Leaves (B9)		
Surface W	ater (A1)			Inundation V	'isible on A	erial Image	ery (B7)	Drainage Patterns (B10)			
High Water Table (A2) Sparsely Vegetated Concave Surface (B8)					Oxidized Rhizospheres along Living Roots (C3)						
Saturation	Saturation (A3) Marl Deposits (B15)				. ,	Presence of Reduced Iron (C4)					
🗌 Water Mar							Salt Depos	its (C5)			
Sediment	Sediment Deposits (B2)						Stunted or Stressed Plants (D1)				
Drift Depo	sits (B3)	☐ Other (Explain in Remarks)									
Algal Mat	Algal Mat or Crust (B4)					uitard (D3)					
Iron Depo	sits (B5)							Microtopographic Relief (D4)			
Surface So	oil Cracks (B6)							FAC-neutra	l Test (D5)		
Field Observa	tions:		_								
Surface Water	Present?	Yes 🖲	No 🔿	Depth (inche	es): 60						
Water Table P	resent?	$Yes \bigcirc $	No 🖲	Depth (inche	es): 0		Wetlar	nd Hydrology Presen	t? Yes 🖲 No 🔾		
Saturation Pre								, ,,			
(includes capil		Yes \bigcirc	NO 🔍	Depth (inche	es): 0						
Describe Record	led Data (strea	m gauge, r	nonitor wel	l, aerial photos, pre	vious inspe	ection) if av	ailable:				
				-	·						
Remarks:											
perrenial creek											