WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: M	atanuska-Susitna Boroug	h Sampling Dat	te: 31-Jul-13			
Applicant/Owner: Alaska Energy Authority		Sa	ampling Point:	SW13_T155_06			
Investigator(s): WAD, RWM	Landform (hillside	e, terrace, hummocks etc	.): Channel (act	tive)			
Local relief (concave, convex, none): concave	Slope: 10.5 %	/ 6.0 ° Elevation:	1107				
Subregion : Interior Alaska Mountains Lat.:	63.207367897	Long.: -148.43	4324622	Datum: WGS84			
Soil Map Unit Name:		NWI c	lassification: R3L	JBH			
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 sampling point locations, transects, important features, etc.							

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes () Yes () Yes ()	No () No () No ()	Is the Sampled Area within a Wetland?	Yes 🖲 No 🔿
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Remarks: permanently flooded upper perennial stream, single channel 20ft wide. substrate boulders.

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

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum	% Cover	Species?	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		
4	0			That Are OBL, FACW, or FAC: 0.0% (A/B)		
5	0			Prevalence Index worksheet:		
Total Cov	ver:			Total % Cover of: Multiply by:		
Sapling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species x 1 =		
1	0			FACW Species 0 x 2 = 0		
2.	0			FAC Species x 3 =		
3.			-	FACU Species x 4 =		
4.				UPL Species 0 x 5 = 0		
5.	-			Column Totals: 0 (A) 0 (B)		
6	0					
7.				Prevalence Index = B/A = 0.000		
8.				Hydrophytic Vegetation Indicators:		
9				Dominance Test is > 50%		
10				Prevalence Index is ≤3.0		
Total Cov				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	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) 10m		
5				Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes		
6.				(Where applicable)		
7				% Bare Ground		
8				Total Cover of Bryophytes		
9						
10.				Hydrophytic		
Total Cov				Vegetation		
50% of Total Cover:	0 20%	of Total Cover:	0	Present? Yes $ullet$ No $igloodow$		
Remarks: uvegetated channel, banks with overhanging	a willow.					

ted channel. banks with overhanging willow.

		ie depth nee atrix	ded to docun	nent the indicator or cor Rec	nfirm the ab		cators)		
Depth (inches)	Color (mois		%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
						Туре	LUC		
					·				
	·					-		p	
¹ Type: C=Cor	centration. D=I	Depletion. I	RM=Reduce	ed Matrix ² Location	1: PL=Por	e Lining. R	C=Root Cha	nnel. M=Matrix	
Hydric Soil Iı	ndicators:			Indicators for Pr	oblemati	c Hydric S	oils: ³		
	Histel (A1)			Alaska Color Ch		4		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epip	. ,			Alaska Alpine s		-		Underlying Layer	
	Sulfide (A4)			Alaska Redox V	Vith 2.5Y I	lue	\checkmark	Other (Explain in Remarl	<s)< td=""></s)<>
	Surface (A12)								
🗌 Alaska Gle	. ,			³ One indicator of	hydrophy	tic vegetatio	on, one prin	nary indicator of wetland h	nydrology,
Alaska Rec				and an appropriat	e landscaj	be position	must be pre	esent	
	yed Pores (A15)			⁴ Give details of co	olor chang	e in Remar	ks		
Restrictive Laye	r (if precent):								
Type:	a (ii presenc).							Hydric Soil Present	? Yes 🖲 No 🔾
Depth (inch	ec).							Hydric Soli Present	
Remarks:									
fluvaquent soils									
HYDROLO	GY								
Wetland Hydi	ology Indicat	ors:						Secondary Indi	cators (two or more are required)
Primary Indica	tors (any one is	sufficient)						Water Stai	ned Leaves (B9)
🖌 Surface W	ater (A1)			Inundation V	isible on A	erial Image	ery (B7)	🗌 Drainage F	Patterns (B10)
🗌 High Wate	er Table (A2)			Sparsely Veg	etated Co	ncave Surfa	ice (B8)	Oxidized R	hizospheres along Living Roots (C3)
Saturation	. ,			Marl Deposits	s (B15)			Presence of	of Reduced Iron (C4)
Water Marks (B1) Hydrogen Sulfide Odor (C1)					Salt Depos	sits (C5)			
Sediment	Deposits (B2)			Dry-Season V	Vater Tab	e (C2)		Stunted or	Stressed Plants (D1)
Drift Depo	sits (B3)			🗌 Other (Explai	n in Rema	rks)		Geomorph	ic Position (D2)
Algal Mat	or Crust (B4)							Shallow Ad	quitard (D3)
Iron Depo	sits (B5)							_	graphic Relief (D4)
Surface So	oil Cracks (B6)							FAC-neutra	al Test (D5)
Field Observa	tions:	\sim							
Surface Water	Present?	Yes 🖲	No 🔾	Depth (inche	s): 8				
Water Table P	resent?	Yes \bigcirc	No 🖲	Depth (inche	s):		Wetla	nd Hydrology Presen	it? Yes $ullet$ No $igcap$
Saturation Pre (includes capil		$_{\rm Yes} \bigcirc$	No 🖲	Depth (inche	s):				
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:									
Remarks:									