WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Вс	orough/City:	Matanusk	a-Susitna Borough Sampling Date:07-Aug-13				
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T196_06				
Investigator(s): SLI, EAC	e, hummocks etc.): Floodplain							
Local relief (concave, convex, none): hummocky		Slope:	%/ 8.6					
Subregion : Interior Alaska Mountains	Lat.: 6	3.303181647	 8	Long.: -148.200443984 Datum: NAD83				
Soil Map Unit Name:	0	NWI classification: PSS1E						
Are climatic/hydrologic conditions on the site typical for this t	ime of voor?		• No ()	(If no, explain in Remarks.)				
	•							
Are Vegetation , Soil , or Hydrology isignificantly 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 sho	wing sam	pling point	locations	s, transects, important features, etc.				
Hydrophytic Vegetation Present? Yes 🔍 No 🤇)							
Hydric Soil Present? Yes		lpled Area /etland? Yes ◉ No ◯						
Wetland Hydrology Present? Yes No)	Wi	thin a W	etland? Yes \bigcirc No \bigcirc				
Remarks: floodplain of small r2ubh. multiple small channel								
(colluvium) covered w thin organic mat and shru	bs (salpul, v	aculi). yellowj	acket hive	in snag.				
VEGETATION - Use scientific names of plants. L	ist all spe	cies in the i	olot.					
	Absolute	Dominant		Dominance Test worksheet:				
Tree Stratum	% Cover	Species?	Status	Number of Dominant Species				
1	0			That are OBL, FACW, or FAC: <u>5</u> (A)				
2.	0			Total Number of Dominant Species Across All Strata: 5 (B)				
3.	0			Percent of dominant Species				
4.	0			That Are OBL, FACW, or FAC:(A/B)				
5.	0			Prevalence Index worksheet:				
Total Cover	r:			Total % Cover of: Multiply by:				
Sapling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species <u>15</u> x 1 = <u>15</u>				
1. Salix richardsonii	25	\checkmark	FACW	FACW Species <u>65</u> x 2 = <u>130</u>				
2. Salix pulchra		\checkmark	FACW	FAC Species <u>14</u> x 3 = <u>42</u>				
3.				FACU Species x 4 =				
4.				UPL Species <u>0</u> x 5 = <u>0</u>				
5.				Column Totals: <u>94</u> (A) <u>187</u> (B)				
6.	0							
7	0			Prevalence Index = B/A = <u>1.989</u>				
8	0			Hydrophytic Vegetation Indicators:				
9	0			✓ Dominance Test is > 50%				
10	0			✓ Prevalence Index is \leq 3.0				
	00	of Total Course		Morphological Adaptations ¹ (Provide supporting data in				
_Herb Stratum50% of Total Cover:	32.5 20%			Remarks or on a separate sheet)				
1. Rumex arcticus			FAC	Problematic Hydrophytic Vegetation ¹ (Explain)				
2. Calamagrostis canadensis			FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
3. Comarum palustre			OBL					
4. Carex aquatilis			OBL	Plot size (radius, or length x width) <u>2x5m</u>				
5				% Cover of Wetland Bryophytes				
6				(Where applicable)				
7				% Bare Ground _10				
8				Total Cover of Bryophytes				
9				Hudron hudio				
10Total Cover				Hydrophytic Vegetation				
50% of Total Cover:	-	of Total Cover:	5.8	Present? Yes O No				
				<u> </u>				
Remarks:								

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Profile Descripti Depth	rofile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features						ators)		
(inches)	Color (mo	oist)	%	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks
0-4	7.5YR	2.5/2	100			.,,,,		Fibric Organics	
4-18	7.5YR	2.5/1	100					Hemic Organics	
		2.5/1							
	. <u> </u>		, <u> </u>				-		
	· ·		· ·					·	
		-Depletion	PM-Pedu	ced Matrix ² Location	. DI – Dor	e Lining PC	-Poot Cha	annel M-Matrix	
				Indicators for Pr		-			
Hydric Soil I				Alaska Color Cl		4	/iis: 		
Histosol or						-		Alaska Gleyed Without H Underlying Layer	ue 5Y or Redder
Histic Epip				Alaska Alpine s	•	,		Other (Explain in Remark	(c)
	Sulfide (A4)				viui 2.51 i	lue			
	Surface (A12))		³ One indicator of	hydrophyl	ic vegetation	n, one prin	nary indicator of wetland h	ydrology,
Alaska Gle				and an appropriat					
Alaska Red	eyed Pores (A1	5)		⁴ Give details of co	olor chang	e in Remark	5		
Restrictive Laye		-							
, Type:								Hydric Soil Present	? Yes 🖲 No 🔾
Depth (inch	nes):								
HYDROLO	GY								
Wetland Hyd	rology Indica	ators:						Secondary Indi	cators (two or more are required)
Primary Indica	tors (any one	is sufficier	it)					Water Stai	ned Leaves (B9)
Surface W	/ater (A1)			Inundation V	isible on A	erial Imager	y (B7)	🗌 Drainage F	Patterns (B10)
🖌 High Wate	. ,			Sparsely Veg	etated Cor	ncave Surfac	e (B8)	Oxidized R	hizospheres along Living Roots (C3)
Saturation				Marl Deposits	• •			_	f Reduced Iron (C4)
Water Ma				Hydrogen Su				Salt Depos	
	Deposits (B2)			Dry-Season \		• •		_	Stressed Plants (D1)
Drift Depo	()			Other (Explai	in in Rema	rks)			ic Position (D2)
	or Crust (B4)							_	uitard (D3)
Iron Depo								_	praphic Relief (D4)
	oil Cracks (B6)							✓ FAC-neutra	ii Test (D5)
Field Observa Surface Water		Yes) No 🖲	Depth (inche	c).				
Water Table P				Depth (inche			Wetla	nd Hydrology Presen	t? Yes 🖲 No 🔾
Saturation Pre	esent?			Depth (inche	,		The celu	na nyarology ricoch	
(includes capi						uction) if ave	ilable:		
		ani yauye	, monitor W	ell, aerial photos, prev	nous inspe				
Remarks:									
floodplain of sr	nall r2ubh								