WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: Ma	tanuska-Susitna Borou	gh Sampling Dat	e: 03-Aug-13
Applicant/Owner: Alaska Energy Authority		S	ampling Point:	SW13_T179_09
Investigator(s): WAD, RWM	Landform (hillside	, terrace, hummocks et	c.): stream bank	
Local relief (concave, convex, none): concave	Slope:1.7%	1.0 ° Elevation:	1201	
Subregion : Interior Alaska Mountains Lat.:	63.145970702	Long.: -148.3	05270433	Datum: WGS84
Soil Map Unit Name:		NWI	classification: PE	M1B
		No O (If no, exp Are "Normal Circumsta (If needed, explain any	inces present:	res 🔍 No 🔿 rs.)
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point loc	ations, transects, i	mportant feature	es, 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 🔿
Remarks:				

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

		Absolute	Dominant	Indicator	Dominance Test worksheet:
Tre	e Stratum	% Cove		Status	Number of Dominant Species
1.		0			That are OBL, FACW, or FAC: (A)
2.		0			Total Number of Dominant Species Across All Strata: 3 (B)
3.		0			Percent of dominant Species
4.		0			That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
5.		0			Prevalence Index worksheet:
	Total Cover	. 0	-		Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	6 of Total Cover:	0	OBL Species $16 \times 1 = 16$
1.	Salix reticulata	15	\checkmark	FAC	FACW Species 38 x 2 = 76
2.	Salix pulchra	2		FACW	FAC Species <u>23.1</u> x 3 = <u>69.30</u>
3.	· · · · · · · · · · · · · · · · · · ·				FACU Species <u>0</u> x 4 = <u>0</u>
4.		-			UPL Species x 5 =
5.					Column Totals: _77.1_ (A) _161.3_ (B)
6.		0	_		$D_{\text{rescalar set}} = D/A = -2.002$
7.		0			Prevalence Index = B/A = <u>2.092</u>
					Hydrophytic Vegetation Indicators:
					✓ Dominance Test is > 50%
		0			✓ Prevalence Index is \leq 3.0
	Total Cover	: 17			Morphological Adaptations ¹ (Provide supporting data in
Her	b Stratum 50% of Total Cover:		% of Total Cover:	3.4	Remarks or on a separate sheet)
1.	Sanguisorba canadensis	30	\checkmark	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Carex aquatilis	15	✓	OBL	¹ Indicators of hydric soil and wetland hydrology must
3.	Sedum rosea	5		FAC	be present, unless disturbed or problematic.
4.	Swertia perennis	3		FACW	Plot size (radius, or length x width) 10m
5.	Anemone richardsonii	3		FAC	Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes
6.	Dodecatheon pulchellum	2		FACW	(Where applicable)
7.	Arctagrostis latifolia	1		FACW	% Bare Ground
8.	Eriophorum angustifolium	1		OBL	Total Cover of Bryophytes 10
9.	Bistorta vivipara	0.1		FAC	
10.	Alopecurus magellanicus	0.1		FACW	Hydrophytic
	Total Cover	60.2	-		Vegetation
	50% of Total Cover:	<u>30.1</u> 209	6 of Total Cover:	12.04	Present? Yes \bullet No \bigcirc
Rem	arks: phicom 0.1. equary 1. parpal .1. acodel 1.				

SOIL

Depth	Matrix		ent the indicator or cor Red	lox Featur		ators)		
(inches) Color	(moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-2		100					Fibric Organics	
2-5		100					Hemic Organics	
5-10		90					organic and sand	thin layers of coarse sand interbeded with o
10-15 2.5Y	3/1	100					Coarse Sand	
								-
	, ,						-	
. <u> </u>				·				
				·				
¹ Type: C=Concentration	. D=Depletion				-		nnel. M=Matrix	
Hydric Soil Indicators			Indicators for Pro		4	oils:	1	
Histosol or Histel (A1)		Alaska Color Ch	• • •			Alaska Gleyed Without H Underlying Layer	ue 5Y or Redder
✓ Histic Epipedon (A2)			Alaska Alpine s				Other (Explain in Remarl	
Hydrogen Sulfide (A			Alaska Redox V	Vith 2.5Y Hu	Je			
Thick Dark Surface (A12)		³ One indicator of	hydrophytic	c vegetatio	n, one prin	nary indicator of wetland h	iydrology,
Alaska Gleyed (A13)			and an appropriat	e landscape	e position r	nust be pre	esent	
Alaska Gleyed Pores	(A15)		⁴ Give details of co	olor change	in Remark	S		
Restrictive Layer (if prese Type:	it):						Hydric Soil Present	? Yes 🖲 No 🔾
Depth (inches):							nyunc son Present	
Remarks:								
HYDROLOGY								
HYDROLOGY Wetland Hydrology In	licators:						Secondary Indi	cators (two or more are required)
		t)						cators (two or more are required) ned Leaves (B9)
Wetland Hydrology In Primary Indicators (any of Surface Water (A1)	ne is sufficien	t)	Inundation Vi	sible on Ae	rial Image	ту (В7)	Water Stai	
Wetland Hydrology In Primary Indicators (any of a strength of a	ne is sufficien	t)	Inundation Vi		5	, , ,	Water Stai	ned Leaves (B9)
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