WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampling Date: 06-Jul-13
Applicant/Owner: Alaska Energy Authority		Sampling Point: SW13_T112_03
Investigator(s): SLI, SCB	Landform (hills	ide, terrace, hummocks etc.): Hillside
Local relief (concave, convex, none): none	Slope: 20.0	% / 11.3 ° Elevation: 781
Subregion : Interior Alaska Mountains Lat.:	62.788963556	Long.: _148.262653828 Datum: WGS84
Soil Map Unit Name:		NWI classification: Upland
	ar? Yes ⁽ itly disturbed? problematic?	 No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes No (If no organization on a parameters)
SUMMARY OF FINDINGS - Attach site map showing sa	•	(If needed, explain any answers in Remarks.) 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: photo time 1230, #s 1296-1299. site appears to have burned in the past - scattered burn poles onsite.

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

		۸h	Absolute Dominant I		Indicator	Dominance Test worksheet:		
Tre	e Stratum		Cover	Species?	Status	Number of Dominant Species		
1.	Picea glauca		10	\checkmark	FACU	That are OBL, FACW, or FAC:(A)		
2.	Picea mariana		5	\checkmark	FACW	Total Number of Dominant Species Across All Strata: 5 (B)		
3.			0			Percent of dominant Species		
4.			0			That Are OBL, FACW, or FAC: 80.0% (A/B)		
5.			0			Prevalence Index worksheet:		
	Total Cover:		15			Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum 50% of Total Cove	r: <u>7.5</u>	20%	of Total Cover:	3	OBL Species x 1 =		
1.	Vaccinium uliginosum		40	\checkmark	FAC	FACW Species <u>5</u> x 2 = <u>10</u>		
2.	Alnus viridis ssp. crispa		30	\checkmark	FAC	FAC Species <u>156.3</u> x 3 = <u>468.9</u>		
3.	Salix barclayi		20		FAC	FACU Species <u>10</u> x 4 = <u>40</u>		
4.	Vaccinium vitis-idaea		20		FAC	UPL Species5 =25		
5.	Salix glauca		20		FAC	Column Totals: <u>176.3</u> (A) <u>543.9</u> (B)		
6.	Empetrum nigrum		5		FAC			
7.	Ledum groenlandicum		1		FAC	Prevalence Index = B/A = <u>3.085</u>		
8.	Dasiphora fruticosa		0.1		FAC	Hydrophytic Vegetation Indicators:		
9.	Salix reticulata		0.1		FAC	✓ Dominance Test is > 50%		
10.	Ledum decumbens		0.1		FACW	Prevalence Index is ≤ 3.0		
	Total	Cover:	136			Morphological Adaptations ¹ (Provide supporting data in		
Herb Stratum 50% of Total Cover: 68.15 20% of Total Cover:		27.26	Remarks or on a separate sheet)					
1.	Equisetum arvense		20	\checkmark	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Boykinia richardsonii		5		UPL	¹ Indicators of hydric soil and wetland hydrology must		
3.	Calamagrostis canadensis		0.1		FAC	be present, unless disturbed or problematic.		
4.	Saussurea angustifolia		0.1		FAC	Plot size (radius, or length x width) <u>10m</u>		
5.			0			% Cover of Wetland Bryophytes		
6.			0			(Where applicable)		
7.			0			% Bare Ground		
8.			0			Total Cover of Bryophytes 80		
			0					
			0			Hydrophytic		
	Total	Cover:	25.2			Vegetation		
	50% of Total Cove	r: <u>12.6</u>	20%	of Total Cover:	5.04	Present? Yes \bullet No \bigcirc		
Rem	arks: trace of castet							

	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Redox Features								
Depth (inches)	Color (mois			%	Type ¹	Loc 2	Texture	Remarks	
0-9		() %			Туре	LOC	Organics	Kendrks	
	. <u> </u>					. <u> </u>			
¹ Type: C=Cor	ncentration. D=D	epletion. RM=	Reduced Matrix ² Loca	ation: PL=Por	e Lining. R(C=Root Char	nnel. M=Matrix	-	
Hydric Soil I	ndicators:		Indicators for	r Problemati	c Hydric S	oils: ³			
Histosol or	r Histel (A1)		🗌 Alaska Colo	or Change (TA	4) ⁴		Alaska Gleyed Without H	ue 5Y or Redder	
Histic Epip	pedon (A2)		🗌 Alaska Alpir	ne swales (TAS	5)	_	Underlying Layer		
	Sulfide (A4)		Alaska Redo	ox With 2.5Y H	Hue		Other (Explain in Remark	s)	
	k Surface (A12)								
Alaska Gle							nary indicator of wetland h	ydrology,	
Alaska Rec			and an approp	rlate lanusca	e posicion	must be pre	isent		
	eyed Pores (A15)		⁴ Give details of	of color chang	e in Remarl	ks			
Restrictive Laye	er (if present):								
Type: froz	en						Hydric Soil Present	? Yes 🔿 No 🖲	
Depth (inch	nes): 9								
Remarks:						I			
	darv hvdrology i	ndicator thus	not checking A2. very si	imilar to SW1	₹-T112-02.	No hydric sc	vil indicators		
Only one second	ualy nyurolog,		HUL CHECKING AZI VELT SI)-1112 02.	NO Hyune 55			
HYDROLO									
-	rology Indicate							cators (two or more are required)	
	ators (any one is	sufficient)						ned Leaves (B9)	
Surface W	()			on Visible on A	-			atterns (B10)	
	er Table (A2)			Vegetated Cor	ncave Surfa	ice (B8)		hizospheres along Living Roots (C3)	
Saturation	. ,			osits (B15)			Presence of Reduced Iron (C4)		
Water Ma	Water Marks (B1) Hydrogen Sulfide Odor (C1)						Salt Depos		
	Sediment Deposits (B2)						Stunted or Stressed Plants (D1)		
Drift Depo	()		🗌 Other (Ex	plain in Rema	rks)			c Position (D2)	
	or Crust (B4)						🖌 Shallow Aq		
Iron Depo	osits (B5)						Microtopog	raphic Relief (D4)	
Surface Se	oil Cracks (B6)						FAC-neutra	l Test (D5)	
Field Observa	ations:		~						
Surface Water	r Present?	Yes 🔿 N	o 💿 🔹 Depth (in	ches):					
Water Table P	Present?	Yes \bigcirc N	o 💿 Depth (in	iches):		Wetlan	nd Hydrology Presen	t? Yes 🔾 No 🖲	
Saturation Pre	esent?	Yes 🔿 No	Dopar (iii				•		
(includes capi		Yes U in	o 🔍 Depth (in	ches):					
Describe Recor	ded Data (strear	n gauge, mon	itor well, aerial photos,	previous inspe	ection) if av	ailable:			
Remarks:									
soils moist but	not saturated.								
5015 110100 511	not such atou.								