WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough	Sampling Date: 27-Jun-12
Applicant/Owner: Alaska Energy Authority		Samplir	ng Point: SW12_T24_02
Investigator(s): SLI, LMF	Landform (hills	side, terrace, hummocks etc.):	Plateau
Local relief (concave, convex, none): flat	Slope: 0.0	% / 0.0 ° Elevation: 830	-
Subregion : Copper River Basin	Lat.: 62.655549908	7 Long.: -147.3836699	977 Datum: WGS84
Soil Map Unit Name:		NWI classi	fication: Upland
	e of year? Yes (gnificantly disturbed? turally problematic?	 No (If no, explain in Are "Normal Circumstances" (If needed, explain any answer) 	present? Yes 🔍 No 🔿
SUMMARY OF FINDINGS - Attach site map showin	ng sampling point	locations, transects, import	tant features, etc.
Hydrophytic Vegetation Present? Yes • No			

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ● Yes ○ Yes ○	No	Is the Sampled Area within a Wetland?	Yes \bigcirc No $oldsymbol{eta}$
Remarks:				

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

Abr		bsolute Dominant		Indicator	Dominance Test worksheet:		
			Cover		Status	Number of Dominant Species	
1.	Picea glauca			5	\checkmark	FACU	That are OBL, FACW, or FAC: (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: 60.0% (A/B)
5.			_	0			
		Total Cove	er:	5			Prevalence Index worksheet: Total % Cover of: Multiply by:
Sar	ling/Shrub Stratum	50% of Total Cover:	2.5	20%	of Total Cover:	1	OBL Species $0 \times 1 = 0$
		-		_			FACW Species $30 \times 2 = 60$
	Picea glauca		_			FACU	
2.	Betula glandulosa		_	50		FAC	FAC Species <u>100</u> x 3 = <u>300</u> FACU Species <u>12</u> x 4 = 48
3.	Vaccinium vitis-idaea		_	10		FAC	
4.	Vaccinium uliginosum		_	30		FAC	UPL Species x 5 =
5.	Ledum decumbens		_	30		FACW	Column Totals: <u>142</u> (A) <u>408</u> (B)
6.	Rosa acicularis		_			FACU	Prevalence Index = B/A = 2.873
7.	Empetrum nigrum		_	10		FAC	
8.			_	0			Hydrophytic Vegetation Indicators:
9.			_	0			✓ Dominance Test is > 50%
			_	0			✓ Prevalence Index is ≤3.0
		Total Cove	er: _	136			Morphological Adaptations ¹ (Provide supporting data in
Herb Stratum 50% of Total Cover: 68 20% of Total Cover: 27.2 Remarks or on a separate sheet)						Remarks or on a separate sheet)	
1.	Cornus canadensis		_	1	\checkmark	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
		0			¹ Indicators of hydric soil and wetland hydrology must		
				0			be present, unless disturbed or problematic.
				0			
				0			Plot size (radius, or length x width) <u>10m</u>
				0			% Cover of Wetland Bryophytes (Where applicable)
				0			% Bare Ground 5
				0			Total Cover of Bryophytes 50
				0			
			_	0			Hydrophytic
Total Cover: 1 Vegetation							
					of Total Cover:	0.2	Present? Yes No
Rem							

Profile Description: (Describe to the				dicators)				
Depth Mat (inches) Color (moist)		-	dox Features	_Loc ²	Texture	Remarks		
0-4 Color (moist)	<u>%</u> 1009	<u>Color (moist)</u>	<u>% Type¹</u>	Loc -	Fibric Organics	Keinai ks		
	3/4 95%				Sandy Clay Loam	5% coarse gravel		
<u> </u>	93% 	0 , ,				5% coarse gravel		
······								
¹ Type: C=Concentration. D=De	pletion. RM=	Reduced Matrix ² Location	n: PL=Pore Lining.	RC=Root Cha	annel. M=Matrix			
			oblematic Hydric					
Hydric Soil Indicators:		Alaska Color C	4	50iis.] Alaska Gleyed Without H	us EV ar Paddar		
Histosol or Histel (A1) Histic Epipedon (A2)					Underlying Layer			
Hydrogen Sulfide (A4)		Alaska Redox \	. ,		Other (Explain in Remark	ය)		
Thick Dark Surface (A12)								
Alaska Gleyed (A13)					mary indicator of wetland h	ydrology,		
Alaska Redox (A14)		and an appropria	te landscape position	n must be pro	esent			
Alaska Gleyed Pores (A15)		⁴ Give details of c	olor change in Rema	arks				
Restrictive Layer (if present):								
Туре:					Hydric Soil Present	? Yes 🔾 No 🖲		
Depth (inches):								
Remarks:								
no hydric soil indicators								
HYDROLOGY								
Wetland Hydrology Indicator	'S:				Secondary Indi	cators (two or more are required)		
Primary Indicators (any one is su	ufficient)				Water Stai	ned Leaves (B9)		
Surface Water (A1)		Inundation V	isible on Aerial Imag	gery (B7)	Drainage Patterns (B10)			
High Water Table (A2)	Sparsely Veg	etated Concave Sur	face (B8)	Oxidized R	 Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) 			
Saturation (A3)	Marl Deposit	. ,						
Water Marks (B1)	Hydrogen Su	lfide Odor (C1)		Salt Depos				
Sediment Deposits (B2)				Stunted or Stressed Plants (D1)				
Drift Deposits (B3) Other (Explain in Remarks)						Geomorphic Position (D2)		
Algal Mat or Crust (B4)						uitard (D3)		
Iron Deposits (B5)						graphic Relief (D4)		
Surface Soil Cracks (B6)						ll Test (D5)		
Field Observations: Surface Water Present?	Yes 🔿 No	Depth (inche	ac).					
	$\frac{1}{2} \operatorname{Yes} \bigcirc \operatorname{No}$,	Watte	nd Hydrology Drocom	t? Yes 🔾 No 🖲		
			es):	wetla	nd Hydrology Presen	Le tes U NO 🛡		
Saturation Present? (includes capillary fringe)	Yes 🔿 No	Depth (inche	es):					

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:

Remarks:

no wetland hydrology indicators