WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough	/City: Matanuska-Su	sitna Borough	Sampling Date:	21-Aug-15		
Applicant/Owner: Alaska Energy Authority			Samp	oling Point:SV	V15_T302_02		
Investigator(s): GVF	Landfo	rm (hillside, terrace, hu	immocks etc.):	Hillside			
Local relief (concave, convex, none): hummocky	Slope:	ope: 14.0 % /8.0 ° Elevation:					
Subregion : Interior Alaska Mountains I	Lat.:	Long.:			atum: WGS84		
Soil Map Unit Name:			NWI clas	sification: PSS4/1	В		
	of year? ficantly disturl rally problema		(If no, explain al Circumstance explain any ans	,	• No ()		
SUMMARY OF FINDINGS - Attach site map showing	3 sampling	point locations, tra	ansects, impo	ortant features, o	etc.		
Hydrophytic Vegetation Present? Yes \odot No \bigcirc							
Hydric Soil Present? Yes ● No ○		Is the Sample					
Wetland Hydrology Present? Yes No		within a Wetla	Yes 🖲 No 🔾				

Remarks:

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			
	Picea mariana	15		FACW	That are OBL, FACW, or FAC: (A)			
2.		0			Total Number of Dominant Species Across All Strata: 4 (B)			
3.		0			Percent of dominant Species			
4.					That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.		0						
	Total Cover:				Prevalence Index worksheet: Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum 50% of Total Cover:		of Total Cover:	3	OBL Species $0 \times 1 = 0$			
		25		FACW	FACW Species $71 \times 2 = 142$			
1. 2.	Picea mariana Vaccinium uliginosum	25		FAC	FAC Species x 3 =165.3			
2. 3.	Vacainium vitia idago	10		FAC	FACU Species $0 \times 4 = 0$			
4.	Fara staria aliantia	10		FAC	UPL Species $0 \times 5 = 0$			
	Detulo nono	10		FAC	·			
	Phododondron tomontosum			FACW	Column Totals: <u>126.1</u> (A) <u>307.3</u> (B)			
					Prevalence Index = B/A = 2.437			
					✓ Dominance Test is > 50%			
		0			✓ Prevalence Index is \leq 3.0			
	Total Cover:	83			Morphological Adaptations (Provide supporting data in			
Her	b Stratum 50% of Total Cover:	41.5 20%	of Total Cover:	16.6	Remarks or on a separate sheet)			
1.	Rubus chamaemorus	20	\checkmark	FACW	Problematic Hydrophytic Vegetation (Explain)			
2.	Equisetum sylvaticum	5		FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
3.	Petasites frigidus	3		FACW				
4.	Carex bigelowii	0.1		FAC	Plot size (radius, or length x width)			
5.		0			% Cover of Wetland Bryophytes			
					(Where applicable)			
7.		0			% Bare Ground			
8.		0			Total Cover of Bryophytes			
9.		0						
10.		0			Hydrophytic			
Total Cover: 28.1 Vegetation								
	50% of Total Cover: <u>1</u>	4.05 20% 0	of Total Cover:	5.62	Present? Yes No			
Dom	arks: mass is only a fasthermasses many trace has		a the wall a lad					

moss is sphag, feathermosses. many trees near dwarf/tree threshold. Remarks:

	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features									
<i>a</i> i ,	Depth		%	Color (n	noist)	%	Type ¹	Loc 2	Texture	Remarks
0-6									Peat	
6-7									Mucky Peat	
7-21	2.5Y	4/2	75	10YR	4/4	15	C	PL	Sandy Clay Loam	w/ gravel
+Mottle				5GY	5/1	10	D	PL		along living roots
										-
·										
									·	
1					2					
¹ Type: C=Concent	ration. D=	Depletion.	RM=Reduc				-		annel. M=Matrix	
Hydric Soil Indica	tors:				ors for Pro		4	oils:' _	-	
Histosol or Histo	• •			_	ka Color Ch		-		Alaska Gleyed Without H	lue 5Y or Redder
Histic Epipedon				_	ka Alpine sv	•	,	Г	Underlying Layer Other (Explain in Remar	
Hydrogen Sulfic	. ,			✓ Alas	ka Redox W	/ith 2.5Y I	Hue			KS)
Thick Dark Surf	. ,			³ One i	ndicator of I	hydrophy	tic vegetatio	on, one prir	mary indicator of wetland I	nydrology,
Alaska Gleyed (-			and an	appropriate	e landsca	pe position	must be pr	esent	
Alaska Redox (7	,	5)		⁴ Give of	details of co	lor chang	e in Remarl	ks		
•	•	·)								
Restrictive Layer (if									Hudric Soil Brocont	:? Yes 🖲 No 🔾
Type: Sandy Clay Loam Depth (inches): 7 Hydric Soil Present?										
Remarks:										
HYDROLOGY										
Wetland Hydrolog	y Indica	tors:							Secondary Ind	icators (two or more are required)
Primary Indicators (s sufficient)								ined Leaves (B9)
	Surface Water (A1) Inundation Visible on Aerial Imagery (B7)					Drainage Patterns (B10)				
	High Water Table (A2) Sparsely Vegetated Concave Surface (B8)				ce (B8)	✓ Oxidized Rhizospheres along Living Roots (C3)				
Saturation (A3)					Presence of Reduced Iron (C4) Salt Deposits (C5)					
					Stunted or Stressed Plants (D1)					
	Gediment Deposits (B2) Dry-Season Water Table (C2) Stunted or Stressed Plants (D1) Drift Deposits (B3) Other (Explain in Remarks) Geomorphic Position (D2)									
	gal Mat or Crust (B4)									
Iron Deposits (,			
Surface Soil Cr	acks (B6)								FAC-neutr	
Field Observation	s:	_	_							
Surface Water Pres	ent?	Yes \bigcirc	No 🖲	De	epth (inches	5):				
Water Table Preser	nt?	Yes 🖲	No \bigcirc	De	epth (inches	5): 7		Wetla	nd Hydrology Preser	nt? Yes 🖲 No 🔾
Saturation Present		Yes 🖲	No \bigcirc	De	epth (inches	5): 6				
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:										
Pomarka:										
Remarks:	21 in hari		adu alau lar							
C3-see soil profile, 7-21in horizon. D3-sandy clay loam.										