WETLAND DETERMINATION DATA FORM - Alaska Region

Project	t/Site: Susitna-Watana Hydroelectric Proje	ct	Borough/City:	Matanusk	a-Susitna Borough Sampling Date:	24-Aug-15	
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: S	W15_T329_05	
nvesti	gator(s): ERT, TXC		Landform (hi	llside, terrac	e, hummocks etc.): Hillside		
ocal r	relief (concave, convex, none): undulating		Slope: 1.0) % / 0.6	° Elevation:		
Subrec	gion : Interior Alaska Mountains	Lat.:			Long.:	Datum: WGS84	
	ap Unit Name:				NWI classification: Uplan		
	matic/hydrologic conditions on the site typical	for this time of yes	vr2 Vac	. No ○	(If no, explain in Remarks.)	<u>u</u>	
Are V	/egetation ☐ , Soil ☐ , or Hydrology /egetation ☐ , Soil ☑ , or Hydrology MARY OF FINDINGS - Attach site ma	significant naturally p ap showing sai	tly disturbed? problematic?	Are "N (If nee	ormal Circumstances" present? Yes ded, explain any answers in Remarks.)		
	Hydrophytic Vegetation Present? Yes	No O	le le	the Sam	npled Area		
Hydric Soil Present? Yes No No							
	Wetland Hydrology Present? Yes	No 💿	W	ithin a W	etiand? Tes © No ©		
Rema	arks: Talus.						
/EGE	ETATION -Use scientific names of pl	·			Dominance Test worksheet:		
Tre	e Stratum	Absolute % Cove		Indicator Status	Number of Dominant Species		
1.				-	That are OBL, FACW, or FAC:	1(A)	
2.					Total Number of Dominant Species Across All Strata:	1 (B)	
3.					Percent of dominant Species		
4.						100.0% (A/B)	
5.					Prevalence Index worksheet:		
	Tot	al Cover:0			Total % Cover of: Multiply	by:	
Sap	oling/Shrub Stratum 50% of Total Co	over: <u>0</u> 209	% of Total Cover	r:0	OBL Species 2 x 1 =	2	
1.	Vaccinium uliginosum	22	✓	FAC	FACW Species 3 x 2 =	6	
2.	Empetrum nigrum	6		FAC	FAC Species35 x 3 =	105	
3.	Betula nana	5		FAC	FACU Species 0.1 x 4 =	0.400	
4.	Salix pulchra	3		FACW	UPL Species 0 x 5 =	0	
5.	Vaccinium vitis-idaea	2		FAC	Column Totals: 40.1 (A)	<u>113.4</u> (B)	
6.	Andromeda polifolia(IAM)		. 📙	OBL	Prevalence Index = B/A =	2 828	
7.	Picea glauca		. 📙	FACU	- Trevalence index 2/7	2.020	
					Hydrophytic Vegetation Indicators:		
9.			. 📙				
10.							
	b Stratum 50% of Total C	over: 20.05 20	% of Total Cove	er: 8.02	Remarks or on a separate sheet)	1	
			. 📙		, , , ,	,	
					Indicators of hydric soil and wetland hydrone he present upless disturbed or problemate	ology must ic	
			. 📙		be present, unless distarbed of problemat		
					Plot size (radius, or length x width)	_10m	
			·		% Cover of Wetland Bryophytes	_0	
					, ,		
						50	
					. San. cover or pryophytes	_50	
		•			Hydrophytic		
		al Cover: 0	_		Vegetation		
	50% of Total Co	over: 0 209	% of Total Cover	r: <u> </u>	Present? Yes • No •		
5. 6. 7. 8. 9. 10. Her 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	Vaccinium vitis-idaea Andromeda polifolia(IAM) Picea glauca Tot 50% of Total C	2 2 0.1 0 0	% of Total Cove	FAC OBL FACU	Column Totals: 40.1 (A) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0 Morphological Adaptations (Provide Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ Indicators of hydric soil and wetland hydropersent, unless disturbed or problemate Plot size (radius, or length x width) % Cover of Wetland Bryophytes (Where applicable) % Bare Ground Total Cover of Bryophytes Hydrophytic Vegetation	113.4 2.828 supporting data (Exp ¹ lain) rology must ic10m	

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW15_T329_05

Profile Description: (Describe to		ded to document				ators)				
Depth ————	Matrix			lox Featu						
(inches) Color (m	oist)	<u> Co</u>	lor (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks		
0-16							Fragmental	>90% rock		
							-	_		
								_		
								_		
				-			-	_		
								_		
¹ Type: C=Concentration. D	=Depletion. I						nnel. M=Matrix			
Hydric Soil Indicators:		In	dicators for Pr	oblematio	Hydric So	oils: ³				
Histosol or Histel (A1)		Alaska Color Ch	nange (TA4	ł) ⁴		Alaska Gleyed Without Hue 5Y or Redder				
Histic Epipedon (A2)			Alaska Alpine swales (TA5) Underlying Layer							
Hydrogen Sulfide (A4)			Alaska Redox V	Vith 2.5Y F	lue		Other (Explain in Rema	rks)		
Thick Dark Surface (A12	2)	2								
Alaska Gleyed (A13)			One indicator of nd an appropriat				nary indicator of wetland	hydrology,		
Alaska Redox (A14)				•	•	·	SCIT			
Alaska Gleyed Pores (A.	.5)	4 (Give details of co	olor change	e in Remark	S				
Restrictive Layer (if present)										
Type:							Hydric Soil Presen	t? Yes O No 🖲		
Depth (inches):										
to 4" of mineral soil forming								ntal (>90% coarse fragments) with up ocryepts.		
HYDROLOGY										
Wetland Hydrology Indic	ators:						Secondary Inc	licators (two or more are required)		
Primary Indicators (any one								ained Leaves (B9)		
Surface Water (A1)			Inundation V	isible on A	erial Imagei	ry (B7)	☐ Drainage Patterns (B10)			
High Water Table (A2)			Sparsely Veg	etated Con	cave Surfac	ce (B8)	Oxidized Rhizospheres along Living Roots			
Saturation (A3)			Marl Deposits	s (B15)		. ,	Presence	of Reduced Iron (C4)		
☐ Water Marks (B1)			Hydrogen Su	lfide Odor	(C1)		Salt Depo	osits (C5)		
Sediment Deposits (B2))		Dry-Season V				Stunted of	or Stressed Plants (D1)		
☐ Drift Deposits (B3)			Other (Explai	n in Rema	rks)		✓ Geomorp	hic Position (D2)		
Algal Mat or Crust (B4)							Shallow A	quitard (D3)		
☐ Iron Deposits (B5)							Microtopo	ographic Relief (D4)		
Surface Soil Cracks (B6)						☐ FAC-neut	ral Test (D5)		
Field Observations:										
Surface Water Present?	Yes 🔾	No 🖭	Depth (inche	s):						
Water Table Present?	Yes \bigcirc	No 💿	Depth (inche	s):		Wetlar	nd Hydrology Prese	nt? Yes O No 💿		
Saturation Present?	Yes 🔾	No (Donth (incho	٠,						
(includes capillary fringe)			Depth (inche							
Describe Recorded Data (str	eam gauge, r	monitor well, ae	rial photos, prev	ious inspe	ction) if ava	ilable:				
Remarks:										
INCHIGINS:										

U.S. Army Corps of Engineers Alaska Version 2.0