WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 01-Aug-12						
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW12_T41_08						
••	pator(s): SLI, KMK		Landform (hills	side. terrac	e, hummocks etc.): Hillside						
	elief (concave, convex, none): convex		Slope:								
	ion : Interior Alaska Mountains	Lat.	62.792529727		Long.: -148.016160742 Datum: NAD83						
-		Lat	02.192529121	0							
Soil Map Unit Name: NWI classification: Upland											
Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation , soil , or Hydrology significantly disturbed? Are Vegetation , soil , or Hydrology naturally problematic? SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.											
	Hydrophytic Vegetation Present? Yes O No 🖲		le	the Sam	nled Area						
	Hydric Soil Present? Yes O No 🖲		Is the Sampled Area within a Wetland? Yes $^{\bigcirc}$ No $^{\textcircled{o}}$								
Rema	Wetland Hydrology Present? Yes 🔿 No 🖲		VVI								
	TATION - Use scientific names of plants. Lis	st all sp Absolute % Cove	e Dominant	olot. Indicator Status	Dominance Test worksheet: Number of Dominant Species						
_	Betula neoalaskana	35		FACU	That are OBL, FACW, or FAC: <u>3</u> (A)						
2.	Picea glauca	10		FACU	Total Number of Dominant Species Across All Strata: 7 (B)						
3.		0	_		Percent of dominant Species						
4.		0			That Are OBL, FACW, or FAC: <u>42.9%</u> (A/B)						
5.		0									
	Total Cover:	45	_		Prevalence Index worksheet: Total % Cover of: Multiply by:						
Sap	ling/Shrub Stratum 50% of Total Cover:	2.5 20	% of Total Cover:	9	OBL Species $0 \times 1 = 0$						
1	Picea glauca	5		FACU	FACW Species $0 \times 2 = 0$						
1. 2.	Rhododendron groenlandicum	20		FAC	FAC Species 71 x 3 = 213						
3.	Vaccinium uliginosum	20		FAC	FACU Species 76.1 x 4 = 304.4						
4.	Vaccinium vitis-idaea	10		FAC	UPL Species $0 \times 5 = 0$						
5.	Rosa acicularis	2		FACU							
6.	Empetrum nigrum	20		FAC	Column Totals: <u>147.1</u> (A) <u>517.4</u> (B)						
_	Linnaea borealis	2		FACU	Prevalence Index = B/A = <u>3.517</u>						
	Salix commutata	1	-	FAC							
•		0			Dominance Test is > 50%						
10.		0			Prevalence Index is ≤3.0						
Her	Total Cover:)% of Total Cover	16	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)						
1.	Cornus canadensis	15	\checkmark	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)						
2.	Geocaulon lividum	5	\checkmark	FACU	¹ Indicators of hydric soil and wetland hydrology must						
3.	Selaginella selaginoides	0.1		FACU	be present, unless disturbed or problematic.						
4.	Chamaenerion angustifolium	1	_	FACU	Plot size (radius, or length x width)10m						
5.	Mertensia paniculata	1		FACU	% Cover of Wetland Bryophytes 0						
6.			_		(Where applicable)						
7.		0			% Bare Ground						
8.					Total Cover of Bryophytes 10						
9.		0									
10.		0			Hydrophytic						
	Total Cover:	-			Vegetation Present? Yes No •						
	50% of Total Cover: <u>1</u>	1.05 20	% of Total Cover:	4.42	Present? Yes V No •						
Rem	arks: trace chaang, trace Lycopodium complanatum										

	file Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features					cators)					
Depth Color (moist)			%	Color (moist)			Loc ²	Texture	Remarks		
0-3		130)				Type	LUC	Hemic Organics			
3-5	2.5Y	5/2						Silt Loam	likely ash with charcoal		
5-10		4/6	100	,				Sandy Loam			
									some subangular cobbles		
10-18	2.5Y	4/4						Sandy Loam	some subangular cobbles		
					-	-	-				
¹ Type: C=Cor	ncentration. D=	Depletion	. RM=Redu	ced Matrix ² Locatio	n: PL=Por	e Lining. R	C=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for P	roblematio	c Hydric S	oils ³				
	r Histel (A1)			🗌 Alaska Color C		4		Alaska Gleyed Without H	ue 5Y or Redder		
	edon (A2)			Alaska Alpine	• •			Underlying Layer			
	Sulfide (A4)			Alaska Redox	With 2.5Y H	lue		Other (Explain in Remarks)			
Thick Dark	< Surface (A12)	1		_							
🗌 Alaska Gle	eyed (A13)			³ One indicator of and an appropria	^F hydrophyt te landscar	tic vegetation	on, one prin must be pre	nary indicator of wetland h	ydrology,		
🗌 Alaska Red	dox (A14)										
🗌 Alaska Gle	eyed Pores (A15	5)		⁴ Give details of c	olor chang	e in Remarl	ks				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	? Yes 🔾 No 🖲		
Depth (incl	nes):										
Remarks:											
no hydric soil indicators											
HYDROLO	CV										
Wetland Hyd		tors						Cocondony Indi	sators (two or more are required)		
	itors (any one i		t)						cators (two or more are required) ned Leaves (B9)		
Surface W			-,	Inundation \	/isible on A	erial Image	erv (B7)		atterns (B10)		
	er Table (A2)			Sparsely Veg		-	, , ,		hizospheres along Living Roots (C3)		
Saturation				Marl Deposit					f Reduced Iron (C4)		
🗌 Water Ma	rks (B1)	Hydrogen Su	lfide Odor	(C1)		Salt Depos	its (C5)				
Sediment	Deposits (B2)	Dry-Season				Stunted or	Stressed Plants (D1)				
Drift Depo	osits (B3)			Other (Expla	in in Rema	rks)		Geomorphi	ic Position (D2)		
Algal Mat	or Crust (B4)							Shallow Aq	uitard (D3)		
Iron Depo	osits (B5)							Microtopographic Relief (D4)			
Surface S	oil Cracks (B6)							FAC-neutra	l Test (D5)		
Field Observa	ations:	C C									
Surface Water	r Present?		No 💿	Depth (inche	es):						
Water Table F	Present?	Yes (No 🖲	Depth (inche	es):		Wetla	nd Hydrology Presen	t? Yes 🔾 No 🖲		
Saturation Pre (includes capi		Yes \subset	No 💿	Depth (inche	es):						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
						·					
Remarks:											
no wetland hydrology indicators											
1											