## WETLAND DETERMINATION DATA FORM - Alaska Region

Site: Susitna-Watana Hydroelectric Project		Boı	rough/City:	Matanusk	a-Susitna Borough Sampling Date: 21-Jun-12			
nt/Owner: Alaska Energy Authority					Sampling Point: SW12_T32_05			
ator(s): JGK			Landform (hillside, terrace, hummocks etc.): Bench					
elief (concave, convex, none): hummocky		s	Slope: 8.7 % / 5.0 ° Elevation: 939					
ion : Interior Alaska Mountains	2.762689908	85 Long.: -148.320379972 Datum: WGS84						
o Unit Name:		NWI classification: Upland						
egetation , Soil , or Hydrology egetation , Soil , or Hydrology  ARY OF FINDINGS - Attach site map sh	significa naturall owing s	antly o	disturbed? blematic?	Are "N (If nee	(If no, explain in Remarks.)  Iormal Circumstances" present? Yes ● No ○  eded, explain any answers in Remarks.)  s, transects, important features, etc.			
Hydric Soil Present? Yes ○ No Wetland Hydrology Present? Yes ○ No	•		Is the Sampled Area within a Wetland? Yes ○ No ●					
		•	<u> </u>		Dominance Test worksheet:			
Stratum			Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)			
		0			Total Number of Dominant			
		0			Species Across All Strata:5(B)			
		0			Percent of dominant Species			
					That Are OBL, FACW, or FAC: 60.0% (A/B)			
	er:				Prevalence Index worksheet: Total % Cover of: Multiply by:			
ing/Shrub Stratum 50% of Total Cover:	0 2	20% o	f Total Cover:	0	OBL Species x 1 =0			
Betula nana	:	10		FAC	FACW Species 10 x 2 = 20			
Vaccinium uliginosum		30	<b>✓</b>	FAC	FAC Species <u>62</u> x 3 = <u>186</u>			
Vaccinium vitis-idaea		5		FAC	FACU Species 13 x 4 = 52			
Arctostaphylos alpina		10		FACU	UPL Species			
Ledum decumbens	:	10		FACW	Column Totals: <u>85</u> (A) <u>258</u> (B)			
Empetrum nigrum		15	<b>~</b>	FAC	Prevalence Index = B/A = 3.035			
		0			Trevalence mack - B/A			
					Hydrophytic Vegetation Indicators:			
		_			✓ Dominance Test is > 50%			
					☐ Prevalence Index is ≤3.0			
Stratum 50% of Total Cover:		Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)						
		2		FAC	Problematic Hydrophytic Vegetation (Explain)			
		1			Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
<u> </u>		_		FACU	be present, unless disturbed of problematic.			
					Plot size (radius, or length x width)			
					% Cover of Wetland Bryophytes			
					(Where applicable)  % Bare Ground _5			
		_			Total Cover of Bryophytes 10			
		0						
		0			Hydrophytic			
					Vegetation			
Total Cov	<b>er:</b> 5				Present? Yes • No			
	nt/Owner: Alaska Energy Authority pator(s): JGK elief (concave, convex, none): hummocky ion: Interior Alaska Mountains p Unit Name: natic/hydrologic conditions on the site typical for this egetation  , Soil  , or Hydrology  egetation  , Soil  , or Hydrology   MARY OF FINDINGS - Attach site map sh Hydrophytic Vegetation Present? Yes  No Hydric Soil Present? Yes  No Wetland Hydrology Present? Yes  No arks:  TATION - Use scientific names of plants.  Stratum  Total Cover:  Betula nana Vaccinium uliginosum Vaccinium vitis-idaea Arctostaphylos alpina Ledum decumbens Empetrum nigrum  Total Cover: Carex bigelowii Bistorta plumosa Anthoxanthum monticola ssp. alpinum	nt/Owner: Alaska Energy Authority pator(s): JGK elief (concave, convex, none): hummocky ion: Interior Alaska Mountains	nt/Owner: Alaska Energy Authority pator(s): JGK	nt/Owner: Alaska Energy Authority pator(s): JGK	nt/Owner: Alaska Energy Authority pator(s): JGK			

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SOIL Sampling Point: SW12\_T32\_05

		the depth ne	eded to docum	ent the indicator or cor	nfirm the ab		ators)				
Depth (inches)	Color (mo	ist)	<u></u> %	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-3	10YR	2/2	50	Colo. (o.o.)		.,,,,		Silt Loam	25% roots 25% cobbles sub ang. 1-2 inch		
3-12	10YR	3/4	50					Sandy Clay Loam	35% subangular cobbles 2-4 inches 15%		
									3370 Subungular Cobbics 2 Filteries 1370		
-	-						-				
¹Type: C=Cor	ncentration. D=	Depletion.	RM=Reduce	d Matrix <sup>2</sup> Location	n: PL=Pore	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pr	oblematio	Hydric So	oils: <sup>3</sup>				
Histosol or	Histel (A1)			Alaska Color Ch	nange (TA	1)4		Alaska Gleyed Without Hue 5Y or Redder			
Histic Epip	edon (A2)			Alaska Alpine s	wales (TA	5)		Underlying Layer			
Hydrogen	Sulfide (A4)			Alaska Redox V	Vith 2.5Y F	lue		Other (Explain in Remark	s)		
Thick Dark	Surface (A12)			3 0 :							
Alaska Gle	, , ,			and an appropriat				nary indicator of wetland h esent	ydrology,		
Alaska Red		-\		4 Give details of co	olor change	e in Remark	S				
	yed Pores (A15	o)									
Restrictive Laye	er (if present):							Undeia Cail Bussent	? Yes○ No •		
Type: Depth (inch	nes):							Hydric Soil Present	r res O No O		
HYDROLO	GY										
Wetland Hydi	rology Indica	tors:						Secondary Indi	cators (two or more are required)		
Primary Indica	tors (any one i	s sufficient	)					Water Stai	ned Leaves (B9)		
Surface W	/ater (A1)			Inundation V	isible on A	erial Imager	ry (B7)		atterns (B10)		
	er Table (A2)			Sparsely Veg	etated Cor	cave Surfac	ce (B8)		hizospheres along Living Roots (C3)		
Saturation	` '			Marl Deposits	s (B15)				f Reduced Iron (C4)		
Water Mai				☐ Hydrogen Su				☐ Salt Depos			
	Deposits (B2)			☐ Dry-Season V					Stressed Plants (D1) c Position (D2)		
Drift Depo	or Crust (B4)			U Other (Explai	n in Rema	rks)			uitard (D3)		
Iron Depo	, ,								raphic Relief (D4)		
	oil Cracks (B6)							FAC-neutra			
Field Observa											
Surface Water	Present?	Yes C	No 💿	Depth (inche	s):						
Water Table P	resent?	Yes C	No 💿	Depth (inche	s):		Wetla	nd Hydrology Presen	t? Yes○ No •		
Saturation Pre		Yes	No O	Depth (inche	•						
		am gauge,	monitor well	, aerial photos, prev	ious inspe	ction) if ava	nilable:				
, 5 5											
Remarks:											
no water table associated w saturation											

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