WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	/Site: Susitna-Watana Hydroelectric Project	Во	prough/City:	Matanusk	a-Susitna Borough Sampling Date: 06-Jul-13			
Applica	nnt/Owner: Alaska Energy Authority				Sampling Point: SW13_T112_03			
	gator(s): SLI. SCB	L	andform (hil	lside, terrac	e, hummocks etc.): Hillside			
	elief (concave, convex, none): none		Slope:	% / 14.8	· · · · · · · · · · · · · · · · · · ·			
			· —					
	jion : Interior Alaska Mountains	Lat	2.78896355	07				
	p Unit Name:			<u> </u>	NWI classification: Upland			
Are \	regetation , Soil , or Hydrology	significantly naturally pro wing sam	disturbed?	(If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ Ioded, explain any answers in Remarks.) Iormal Circumstances" present? Yes ● No ○ Iormal Circumstances present p			
	Hydrophytic Vegetation Present? Yes No Wes N		Is	the Sam	pled Area			
	· · · · · · · · · · · · · · · · · · ·		within a Wetland? Yes ○ No ●					
D	Wetland Hydrology Present? Yes No Garks: site appears to have burned in the past - scattered		l l					
	ETATION - Use scientific names of plants. L	ist all spec	cies in the Dominant Species?	-	Dominance Test worksheet: Number of Dominant Species			
1.	Picca glauca	10	<u> </u>	FACU	That are OBL, FACW, or FAC:4 (A)			
2.	Discomeniano		✓	FACW	Total Number of Dominant			
3.				TACV	Species Across All Strata:5 (B)			
4.		- 0			Percent of dominant Species That Are OBL, FACW, or FAC: 80.0% (A/B)			
5.		0						
	Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by:			
San	ling/Shrub Stratum 50% of Total Cover:		of Total Cover	: 3	001.0			
			_					
	Vaccinium uliginosum	40	✓	FAC				
2.	Alnus viridis	30	✓	FAC	FAC Species 156.4 x 3 = 469.2 FACU Species 10 x 4 = 40			
3.	Salix barclayi			FAC	UPL Species 5 x 5 = 25			
4. 5.	Vaccinium vitis-idaea	20 20		FAC FAC				
6.	Salix glauca	- <u>-20</u> - 5		FAC	Column Totals: <u>176.5</u> (A) <u>544.4</u> (B)			
7.	Empetrum nigrum Rhododendron groenlandicum	1		FAC	Prevalence Index = B/A = 3.084			
/ . g	Dasiphora fruticosa	0.1		FAC	Hydrophytic Vegetation Indicators:			
9	Salix reticulata	0.1		FAC	Dominance Test is > 50%			
	Rhododendron tomentosum	0.1		FACW	☐ Prevalence Index is ≤3.0			
	Total Cover	136	_		Morphological Adaptations (Provide supporting data in			
Her	b Stratum 50% of Total Cover:	68.15 20%		27.26	Remarks or on a separate sheet)			
1.	Equisetum arvense		✓	FAC	Problematic Hydrophytic Vegetation (Explain)			
2.	Boykinia richardsonii			UPL	¹ Indicators of hydric soil and wetland hydrology must			
3.	Calamagrostis canadensis			FAC	be present, unless disturbed or problematic.			
	Saussurea angustifolia			FAC	Plot size (radius, or length x width)			
		_			% Cover of Wetland Bryophytes			
		_			(Where applicable)			
					% Bare Ground			
					Total Cover of Bryophytes 80			
		- 0						
1.0	Total Cover				Hydrophytic Vegetation			
10.		25.2						
10.	50% of Total Cover:	12.6 20%	of Total Cover	5.04	Present? Yes • No O			

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SOIL Sampling Point: SW13_T112_03

	Matrix	ed to documer	nt the indicator or co	onfirm the abs dox Featu		ators)		
Depth (inches) Color (r						_Loc_2	Texture	Remarks
(inches) Color (n	noist)	<u>%</u> (Color (moist)	_%_	Type ¹	Loc	Organics	Remarks
							Organics	
							-	
		— —						
¹ Type: C=Concentration.	D=Depletion. R						nnel. M=Matrix	
Hydric Soil Indicators:		I	Indicators for Pr		4	oils:		
Histosol or Histel (A1)		L	Alaska Color Cl		•		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipedon (A2)		L	Alaska Alpine s		-		Underlying Layer	
Hydrogen Sulfide (A4)		L	Alaska Redox \	With 2.5Y F	lue		Other (Explain in Remark	ss)
Thick Dark Surface (A1	12)		3 One indicator of	f bydronbyt	is vegetatio	- one nrin	nary indicator of wetland h	a declara,
Alaska Gleyed (A13)			and an appropriat					lydrology,
Alaska Redox (A14)					•	·		
☐ Alaska Gleyed Pores (A	115)		4 Give details of o	Olor Criange	e III Keman	is .		
Restrictive Layer (if present	:):							
Type: frozen							Hydric Soil Present	? Yes ○ No •
Depth (inches): 9								
HYDROLOGY								
HYDROLOGY Wetland Hydrology Indi	cators:						_Secondary Indi	cators (two or more are required)
								cators (two or more are required) ned Leaves (B9)
Wetland Hydrology Indi			☐ Inundation V	/isible on A	erial Image	ry (B7)	Water Stai Drainage F	ned Leaves (B9) Patterns (B10)
Wetland Hydrology India	e is sufficient)		☐ Inundation V		-	, , ,	Water Stai Drainage F	ned Leaves (B9)
Primary Indicators (any on Surface Water (A1) High Water Table (A2) Saturation (A3)	e is sufficient)		Sparsely Veg Marl Deposits	getated Con s (B15)	cave Surfac	, , ,	Water Stai Drainage F Oxidized R Presence of	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4)
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