WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	Во	rough/City:	Matanusk	xa-Susitna Borough Sampling Date: 10-Jul-13							
Applicant/Owner: Alaska Energy Authority Sampling Point: SW13_T127_03												
	gator(s): SLI. SCB	ce, hummocks etc.): Mountainslope										
Local relief (concave, convex, none): flat Slope: % / 12.7 ° Elevation: 119												
	gion : Southcentral Alaska		2.943167328									
1												
	ap Unit Name:			<u> </u>	NWI classification: Upland							
Are \	matic/hydrologic conditions on the site typical for this /egetation , Soil , or Hydrology , /egetation , Soil , or Hydrology MARY OF FINDINGS - Attach site map sh	significantly on naturally pro	disturbed? blematic?	(If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.							
	Hydrophytic Vegetation Present? Yes O No		la la	the Com	wood Area							
	Hydric Soil Present? Yes O No	the Sam	-									
	Wetland Hydrology Present? Yes O No	•	WI	ithin a W	etiand? Tes C No C							
VEGE	ETATION - Use scientific names of plants.	List all spec	ies in the	•	Dominance Test worksheet:							
Tre	e Stratum_	% Cover	Species?	Status	Number of Dominant Species							
1.		0			That are OBL, FACW, or FAC: 1 (A)							
2.		0			Total Number of Dominant Species Across All Strata: 2 (B)							
3.		0			Percent of dominant Species							
4.		0			That Are OBL, FACW, or FAC: 50.0% (A/B)							
5.		0			Prevalence Index worksheet:							
	Total Cove	er: <u> </u>			Total % Cover of: Multiply by:							
Sap	oling/Shrub Stratum 50% of Total Cover:	0	OBL Species0 x 1 =0									
1.	Empetrum nigrum	15	✓	FAC	FACW Species 0.1 x 2 = 0.200							
2.	Cassiope tetragona		✓	FACU	FAC Species <u>18.2</u> x 3 = <u>54.60</u>							
3.	Dryas ajanensis	5		UPL	FACU Species 12.2 x 4 = 48.80							
4.	Salix rotundifolia			FAC	UPL Species <u>5.4</u> x 5 = <u>27</u>							
5.	Diapensia lapponica	0.1		UPL	Column Totals: <u>35.9</u> (A) <u>130.6</u> (B)							
6.	Rhododendron tomentosum	0.1		FACW								
7.	Vaccinium vitis-idaea	0.1		FAC	Prevalence Index = B/A = 3.638							
8.		0			Hydrophytic Vegetation Indicators:							
9.		0			☐ Dominance Test is > 50%							
10.		0			Prevalence Index is ≤3.0							
	Total Cove				Morphological Adaptations ¹ (Provide supporting data in							
Her	b Stratum 50% of Total Cover:	<u>15.65</u> 20% (of Total Cover		Remarks or on a separate sheet)							
1.	Artemisia norvegica	1		FACU	Problematic Hydrophytic Vegetation ¹ (Explain)							
2.	Carex bigelowii			FAC	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.							
3.	Gentiana glauca			FAC	be present, unless disturbed or problematic.							
4.	Anthoxanthum monticola ssp. alpinum	$-\frac{1}{0.1}$		UPL	Plot size (radius, or length x width)							
5.	Anemone narcissiflora Rhodiola integrifolia	$-\frac{0.1}{0.1}$		FACU FAC	% Cover of Wetland Bryophytes							
6.	Arnica alpina	0.1		UPL	(Where applicable)							
7. 8.	Antennaria monocephala	$-\frac{0.1}{0.1}$		UPL	% Bare Ground 30							
0.	Campanula lasiocarpa	0.1	\Box	UPL	Total Cover of Bryophytes							
a												
9. 10	<u> </u>	0.1		FACU	Hydrophytic							
9. 10.	Diphasiastrum alpinum Total Cove			FACU	Hydrophytic Vegetation							
	Diphasiastrum alpinum	er: 4.6	of Total Cover:									

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SOIL Sampling Point: SW13_T127_03

001-									10mt. 5W15_1127_65		
		the depth ne	eded to docur	ment the indicator or co	onfirm the ab		ators)				
Depth (inches)	oth ————		<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-1								Hemic Organics			
1-7	10YR	2/1	100					Loam			
7-9	2.5Y	3/1	100					Loam			
9-14	10YR	4/3	100					Sandy Loam			
								-			
								-			
¹Type: C=Con	centration. D	=Depletion	. RM=Reduc	eed Matrix ² Location	n: PL=Por	re Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil In	dicators:			Indicators for Pr	roblemati	ic Hydric So	oils: ³				
Histosol or	Histel (A1)			Alaska Color C	hange (TA	4 (4)		Alaska Gleyed Without Hue 5Y or Redder			
Histic Epipe	edon (A2)			Alaska Alpine s	swales (TA	.5)		Underlying Layer			
Hydrogen S	Sulfide (A4)			Alaska Redox \	With 2.5Y	Hue		Other (Explain in Remark	s)		
	Surface (A12)		3 One indicator of	f hydronhy	tic vegetatio	n one nrin	nary indicator of wetland hy	vdrology		
Alaska Gley	` '			and an appropria					, di ology,		
Alaska Red	` '	Ε)		4 Give details of o	color chanc	je in Remark	is .				
	ed Pores (A1										
Restrictive Laye	r (if present):								? Yes ○ No ●		
Type:	ec).							Hydric Soil Present?	? Yes ○ No •		
Depth (inch	es):										
Remarks:	to the exercise	li i i dana	والمساحد المساد	a called the production	: :!! !adio						
abundant any-s	ubang graves	3-boulaers	througnout s	soil profile. no hydric	: SOII INDICA	ators.					
HYDROLO Wetland Hydr	_	ators:						Secondary Indic	rators (two or more are required)		
Primary Indicat			t)						ned Leaves (B9)		
Surface W				☐ Inundation V	/isible on /	Aerial Image	rv (B7)		atterns (B10)		
	r Table (A2)			Sparsely Veg		_		Oxidized Rh	nizospheres along Living Roots (C3)		
Saturation (A3)				Marl Deposits (B15)				Presence of	Reduced Iron (C4)		
☐ Water Marks (B1)				Hydrogen Sulfide Odor (C1)				Salt Deposi	ts (C5)		
Sediment	Deposits (B2)			Dry-Season \	Water Tab	le (C2)		Stunted or	Stressed Plants (D1)		
Drift Depo				Other (Expla	in in Rema	arks)			c Position (D2)		
	or Crust (B4)							Shallow Aqu			
Iron Depos									raphic Relief (D4)		
	il Cracks (B6)	1					1	☐ FAC-neutral	Test (D5)		
Field Observa Surface Water		Yes C	No ●	Depth (inche	ec).						
			No •		•		Motion	nd Hydrology Present	t? Yes O No 💿		
Water Table Pi Saturation Pre				Depth (inche	es):		Wellai	па пуагоюду гтезет	:? tes ○ NO ○		
(includes capill		Yes 🤇	No 💿	Depth (inche	es):						
Describe Record	led Data (stre	am gauge,	monitor we	ell, aerial photos, pre	vious insp	ection) if ava	ailable:				
Remarks:											
no wetland hydrology indicators											

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