## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 03-Aug-13						
Applica	ant/Owner: Alaska Energy Authority					Sampling Point: SW13_T179_01						
Investi	gator(s): WAD. RWM			Landform (hills	side, terrac	e, hummocks etc.): top of knoll						
Local r	elief (concave, convex, none): convex			Slope:	% / 6.1	° Elevation: 123						
Subrec	jion : Interior Alaska Mountains	1:	at· (	63.151773452	 26	Long.: -148.338734149 Datum: NAD83						
_	p Unit Name:	_		00.101770402	.0	NWI classification: Upland						
				) Voc	● No ○							
	natic/hydrologic conditions on the site typical for this ti /egetation $\Box$ , Soil $\Box$ , or Hydrology $\Box$		•	disturbed?		(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○						
		•	•	oblematic?		ded, explain any answers in Remarks.)						
					•							
SUMI	MARY OF FINDINGS - Attach site map show	wing	sam	pling point	locations	, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes ○ No ●												
	Hydric Soil Present? Yes O No @	)				npled Area Vetland? Yes ○ No ◉						
	Wetland Hydrology Present? Yes No (	)		wi	thin a W	etland? Yes UNO U						
Remarks: cassiope heath knoll above Brushkana Creek.												
VEGETATION - Use scientific names of plants. List all species in the plot.												
			olute	Dominant		Dominance Test worksheet:						
Tre	e Stratum		over	Species?	Status	Number of Dominant Species						
1.			0			That are OBL, FACW, or FAC:(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 Cover	: _	0			Total % Cover of: Multiply by:						
Sap	ling/Shrub Stratum 50% of Total Cover:	0	OBL Species <u>0.1</u> x 1 = <u>0.1</u>									
1.	Cassiope tetragona		25	<b>✓</b>	FACU	FACW Species <u>5.1</u> x 2 = <u>10.2</u>						
2.	Vaccinium uliginosum		10	<b>✓</b>	FAC	FAC Species <u>17</u> x 3 = <u>51</u>						
3.	Salix polaris		5		FACW	FACU Species 32 x 4 = 128						
4.	Loiseleuria procumbens		5		FACU	UPL Species <u>6.1</u> x 5 = <u>30.5</u>						
5.	Empetrum nigrum		5		FAC	Column Totals: <u>60.3</u> (A) <u>219.8</u> (B)						
6.	Dryas ajanensis		5		UPL	Prevalence Index = B/A = 3.645						
7.	Salix arctica		1		FACU							
8.			0			Hydrophytic Vegetation Indicators:						
9.			0			☐ Dominance Test is > 50%						
10.			0			Prevalence Index is ≤3.0						
Шог	<b>Total Cover b Stratum</b> 50% of Total Cover:		<u>56</u> 20%	of Total Cover	: 11.2	<ul> <li>Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)</li> </ul>						
	Festuca altaica	20	_		FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)						
	Anthoxanthum monticola ssp. alpinum		1		UPL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must						
3.	Artomicia tilogii		1		FACU	be present, unless disturbed or problematic.						
4.	Antennaria monocephala		0.1		UPL							
5.	Pedicularis labradorica		0.1		FACW	Plot size (radius, or length x width) <u>10m</u>						
6.	Pinguicula vulgaris		0.1		OBL	% Cover of Wetland Bryophytes (Where applicable)						
			0			% Bare Ground						
			0			Total Cover of Bryophytes						
			0									
			0			Hydrophytic						
	Total Cover	_	4.3			Vegetation						
	50% of Total Cover:	2.15	20%	of Total Cover:	0.86	Present? Yes ∨ NO ♥						
	Total Cover	2.15	4.3									

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SOIL Sampling Point: SW13\_T179\_01

Profile Descripti	ion: (Describe to	the denth no	ended to docur	mant the inc	dicator or con	firm the ah	conce of indic	catore)		Tome: 54415_1175_01		
	ion: (Describe to	the depth no	eaea to uocui	nent uie ni		rirm the ab ox Featu		cators)				
Depth (inches)	Color (me		%	Color (n		%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-1		Jist,	100		10.50,	_~	1,100		Fibric Organics			
1-2			100						Hemic Organics			
2-7	7.5YR	4/4	70	5YR	3/4	30			Loamy Sand			
7-11	7.0.1.	-,, .	100						Coarse Sand	large coarse fragments mixed in		
			100						Course sund	large coarse fragments mixed in		
					-							
								-				
<sup>1</sup> Type: C=Cor	ncentration. D	=Depletion	RM=Reduce	ed Matrix	<sup>2</sup> Location:	: PL=Por	e Lining. RO	C=Root Cha	annel. M=Matrix			
Hydric Soil I	ndicators:			Indicat	ors for Pro	blematic	c Hydric S	oils: <sup>3</sup>				
Histosol or	r Histel (A1)				ka Color Cha		4		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip	edon (A2)			Alas	ka Alpine sv	vales (TA	5)	Underlying Layer				
Hydrogen	Sulfide (A4)			Alas	ka Redox W	ith 2.5Y H	lue		Other (Explain in Remark	s)		
Thick Dark	c Surface (A12	2)		30.								
Alaska Gle	eyed (A13)				ndicator of f appropriate				mary indicator of wetland h esent	ydrology,		
Alaska Red	dox (A14)						•	•				
Alaska Gle	eyed Pores (A1	5)		* Give (	details of co	ior chang	e III Keman	(S				
Restrictive Laye	er (if present):											
Type: non	e observed								Hydric Soil Present	? Yes O No 💿		
Depth (inch	nes):											
Remarks:												
no hydric soil i	indicators obse	erved										
HYDROLO	GV											
Wetland Hyd		ators:			-				Secondary India	cators (two or more are required)		
Primary Indica			-)							ned Leaves (B9)		
Surface W			.,	☐ In	undation Vis	sible on A	erial Image	rv (B7)				
	High Water Table (A2)						ncave Surfa			hizospheres along Living Roots (C3)		
Saturation (A3)				Marl Deposits (B15)						f Reduced Iron (C4)		
Water Marks (B1)				Hydrogen Sulfide Odor (C1)					Salt Depos	its (C5)		
	Deposits (B2)			Dry-Season Water Table (C2)						Stressed Plants (D1)		
☐ Drift Depo	osits (B3)			Other (Explain in Remarks)					Geomorphi	c Position (D2)		
Algal Mat	or Crust (B4)				• •		•		Shallow Aq	uitard (D3)		
☐ Iron Depo	osits (B5)								Microtopog	raphic Relief (D4)		
Surface S	oil Cracks (B6)	)							FAC-neutra	l Test (D5)		
Field Observa	ations:											
Surface Water	r Present?		No 💿	De	epth (inches	s):						
Water Table P	Present?	Yes C	No 💿	De	epth (inches	s):		Wetla	nd Hydrology Presen	t? Yes O No 💿		
Saturation Pre		Vec (	No 💿	D	epth (inches	٠١.						
(includes capi	llary fringe)	163 0	110 🔾	D	pur (inches	·).						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												
no hydrology ir	ndicators obse	rved										

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