## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sa	mpling Date: 02-Aug-13
Applicant/Owner: Alaska Energy Authority		Sampling F	Point: SW13_T162_02
Investigator(s): WAD, RWM	Landform (hills	side, terrace, hummocks etc.): hi	lside
Local relief (concave, convex, none): flat	Slope: 26.7	% / 15.0 ° Elevation: 1586	
Subregion : Interior Alaska Mountains	Lat.: 63.127549648	Long.: -148.104935646	Datum: WGS84
Soil Map Unit Name:		NWI classifica	ation: Upland
	of year? Yes fificantly disturbed? rally problematic?	<ul> <li>No (If no, explain in Re Are "Normal Circumstances" pre (If needed, explain any answers)</li> </ul>	esent? Yes  No  O
SUMMARY OF FINDINGS - Attach site map showing	g sampling point	locations, transects, importar	t features, etc.
Hydrophytic Vegetation Present? Yes $ullet$ No $igodot$			

Hydric Soil Present? Wetland Hydrology Present?	Yes ○ Yes ○	No 🖲 No 🖲	Is the Sampled Area within a Wetland?	Yes 🔾 No 🖲	
Remarks:					

## **VEGETATION** - Use scientific names of plants. List all species in the plot.

		Absolute	e Dominant	Indicator	Dominance Test worksheet:		
Tre	e Stratum	% Cove		Status	Number of Dominant Species		
1.		0			That are OBL, FACW, or FAC: (A)		
2.		0			Total Number of Dominant Species Across All Strata: 3 (B)		
3.		0	-				
4.			-		Percent of dominant Species That Are OBL, FACW, or FAC: <u>66.7%</u> (A/B)		
5.		0	_				
	Total Cover	: _0			Prevalence Index worksheet: Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20	~ % of Total Cover:	0	OBL Species $0 \times 1 = 0$		
1	Salix polaris	7	$\checkmark$	FACW	FACW Species 7 $x 2 = 14$		
2.			-		FAC Species 3.2 x 3 = 9.6		
3.		0	-		FACU Species 5.1 x 4 = 20.4		
4.			-		UPL Species 3.1 x 5 = 15.5		
5.					Column Totals: 18.4 (A) 59.5 (B)		
-		-	-		Column rotals. <u>16.4</u> (A) <u>59.5</u> (B)		
					Prevalence Index = B/A = <u>3.234</u>		
					Hydrophytic Vegetation Indicators:		
					✓ Dominance Test is > 50%		
		0	_		Prevalence Index is ≤3.0		
	Total Cover	. 7	-		Morphological Adaptations <sup>1</sup> (Provide supporting data in		
Herb Stratum       50% of Total Cover:       3.5       20% of Total Cover:       1.4       Remarks or on a separate sheet)							
1.	Oxyria digyna	5		FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
2.	Poa arctica	3	$\checkmark$	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
3.	Antennaria monocephala	1		UPL	be present, unless disturbed or problematic.		
4.	Taraxacum alaskanum	1		UPL	Plot size (radius, or length x width) 10m		
5.	Carex fuliginosa	0.1		FAC	Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes		
6.	Minuartia arctica	1		UPL	(Where applicable)		
7.	Stellaria alaskana	0.1		UPL	% Bare Ground		
8.	Claytonia sarmentosa	0.1		FAC	Total Cover of Bryophytes		
9.	Luzula arcuata	0.1		FACU			
10.		0			Hydrophytic		
	Total Cover	11.4	_		Vegetation		
	50% of Total Cover:	5.7 20	% of Total Cover:	2.28	Present? Yes No O		
Remarks: collected, check festuca collected							

SOIL
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		the depth n	eeded to doci	document the indicator or confirm the absence of indicators) <b>Redox Features</b>						
Depth (inches)	Color (m		%	Color (moist)	%	Type <sup>1</sup>	Loc 2	Texture	Remarks	
0-0.5		oisty	100		_/0_	Type	LUC	Fibric Organics		
0.5-15	10YR	3/4	100					Sand		
			100							
			·							
<sup>1</sup> Type: C=Con	centration. D	=Depletior	. RM=Redu	ced Matrix <sup>2</sup> Location	1: PL=Por	e Lining. RC	C=Root Cha	nnel. M=Matrix		
Hydric Soil In	ndicators:			Indicators for Pro	oblemati	c Hydric So	oils: <sup>3</sup>			
	Histel (A1)			🗌 Alaska Color Ch		4		] Alaska Gleyed Without Hu	ie 5Y or Redder	
Histic Epip	. ,			Alaska Alpine swales (TA5)				Underlying Layer		
	Sulfide (A4)			Alaska Redox V		-		Other (Explain in Remark	s)	
	Surface (A12	2)								
Alaska Gle		-)		<sup>3</sup> One indicator of	hydrophy	tic vegetatio	on, one prin	nary indicator of wetland h	ydrology,	
Alaska Gle				and an appropriat	e landscap	pe position i	must be pre	esent		
	yed Pores (A1	5)		<sup>4</sup> Give details of co	olor chang	e in Remark	s			
	yeu roles (Al	[]]								
Restrictive Laye	r (if present)	:								
Type:								Hydric Soil Present	? Yes 🔾 No 🖲	
Depth (inch	es):									
HYDROLO	GY									
Wetland Hydr		ators:						Secondary Indic	ators (two or more are required)	
Primary Indicat			t)						ned Leaves (B9)	
Surface W	ater (A1)			Inundation Vi	isible on A	erial Image	ry (B7)	🗌 Drainage P	atterns (B10)	
🗌 High Wate	er Table (A2)			Sparsely Vege	etated Cor	ncave Surfa	ce (B8)	Oxidized RI	nizospheres along Living Roots (C3)	
Saturation	(A3)			Marl Deposits	s (B15)			Presence o	f Reduced Iron (C4)	
🗌 Water Mar	<sup>-</sup> ks (B1)			Hydrogen Sul	lfide Odor	(C1)		Salt Deposi	ts (C5)	
Sediment	Deposits (B2)	)		Dry-Season V				Stunted or	Stressed Plants (D1)	
🗌 Drift Depo	sits (B3)			Other (Explai	n in Rema	rks)		Geomorphi	c Position (D2)	
Algal Mat	or Crust (B4)							Shallow Aq	uitard (D3)	
Iron Depo	sits (B5)							Microtopog	raphic Relief (D4)	
Surface So	oil Cracks (B6)	)						FAC-neutra	l Test (D5)	
Field Observa	tions:									
Surface Water	Present?	Yes 🤇	🔿 No 🖲	Depth (inche	s):					
Water Table P	resent?	Yes 🤇	) No 🖲	Depth (inche	c).		Wetla	nd Hydrology Presen	t? Yes 🔿 No 🖲	
Saturation Pre										
(includes capil	lary fringe)		No 🖲	Depth (inche	·					
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:										
Remarks:										
no hydrology indicators observed										