## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampling Da	te: 31-Jul-13				
Applicant/Owner: Alaska Energy Authority		Sampling Point:	SW13_T155_08				
Investigator(s): WAD, RWM	Landform (hills	Landform (hillside, terrace, hummocks etc.): Alluvial fan					
Local relief (concave, convex, none): convex	Slope: 7.0	% / 4.0 ° Elevation:					
Subregion : Interior Alaska Mountains Lat.:	63.214070678	Long.: -148.434064627	Datum: WGS84				
Soil Map Unit Name: NWI classification: Upland							
Are climatic/hydrologic conditions on the site typical for this time of year?  Yes   No   (If no, explain in Remarks.)    Are Vegetation							
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.							

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ● Yes ○ Yes ○	· _	Is the Sampled Area within a Wetland?	Yes $\bigcirc$ No $oldsymbol{igodol}$
Remarks: abandoned alluvial fan				

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

		Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tre	e Stratum	% Cover	Species?	Status	Number of Dominant Species		
1.		0			That are OBL, FACW, or FAC: (A)		
2.		0			Total Number of Dominant		
3.		0			Species Across All Strata: <u>2</u> (B)		
4		0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)		
 5.		0					
0.	Total Cover:				Prevalence Index worksheet:		
<b>6</b>			of Total Cover:	0	Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum 50% of Total Cover:	020%	of fotal cover.	0	OBL Species $0 \times 1 = 0$		
1.	Empetrum nigrum	30	$\checkmark$	FAC	FACW Species $5 \times 2 = 10$		
2.	Salix pulchra	5		FACW	FAC Species x 3 =28.3_		
3.	Salix reticulata	10		FAC	FACU Species <u>8</u> x 4 = <u>32</u>		
4.	Vaccinium uliginosum	5		FAC	UPL Species <u>0.1</u> x 5 = <u>0.500</u>		
5.	Loiseleuria procumbens	3		FACU	Column Totals: 89.2 (A) 270.8 (B)		
6.		0					
					Prevalence Index = B/A = <u>3.036</u>		
					Hydrophytic Vegetation Indicators:		
		0			✓ Dominance Test is > 50%		
		0			Prevalence Index is ≤3.0		
	Total Cover:	53			Morphological Adaptations <sup>1</sup> (Provide supporting data in		
Herb Stratum 50% of Total Cover: 26.5		26.5 20%	.5 20% of Total Cover:		Remarks or on a separate sheet)		
1.	Festuca altaica	30	$\checkmark$	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
2.	2. Anthoxanthum monticola ssp. alpinum			FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
3.	- · · · ·			UPL	be present, unless disturbed or problematic.		
4.	Artemisia norvegica	1		FACU	- Not size (radius, er langth y width)		
5.	Sedum rosea	1		FAC	Plot size (radius, or length x width) <u>10m</u>		
6.	Aconitum delphinifolium	0.1		FAC	% Cover of Wetland Bryophytes (Where applicable)		
7.		0			% Bare Ground		
					Total Cover of Bryophytes		
		0			Hydrophytic		
	Total Cover:	36.2			Vegetation		
	50% of Total Cover: <u>1</u>	8.1 20%	of Total Cover:	7.24	Present? Yes $\bullet$ No $\bigcirc$		
Rem	arks: unk composite collected at second plot.						
	and composite concetted at become plot						

	rofile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)      Matrix    Redox Features					ators)			
Depth (inches)	Color (moi	st)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-1		,	100					Fibric Organics	
1-5	10YR	3/1	100					Sandy Loam	
5-8			100					Coarse Sand	
			100						
	· ·	,_							
						50°			
<sup>1</sup> Type: C=Co	ncentration. D=	Depletion.	RM=Reduc	ed Matrix <sup>2</sup> Location	: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix	
Hydric Soil I	indicators:			Indicators for Pro	oblemati	c Hydric So	oils: <sup>3</sup>		
Histosol o	r Histel (A1)			Alaska Color Ch		4		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epi	pedon (A2)			Alaska Alpine s	wales (TA	5)		Underlying Layer	
Hydrogen	Sulfide (A4)			🗌 Alaska Redox W	/ith 2.5Y F	lue		Other (Explain in Remark	s)
Thick Dar	k Surface (A12)								
🗌 Alaska Gle	eyed (A13)			<sup>3</sup> One indicator of and an appropriate				nary indicator of wetland h	ydrology,
🗌 Alaska Re	dox (A14)					-			
Alaska Gle	eyed Pores (A15	)		<sup>4</sup> Give details of co	lor chang	e in Remark	S		
Restrictive Lay	er (if present):								
Type:								Hydric Soil Present	Yes 🔾 No 🖲
Depth (inc	hes):							-	
Remarks:							1		
no hydric soil	indicators								
,									
HYDROLO	GY								
Wetland Hyd	rology Indica	tors:						Secondary Indic	ators (two or more are required)
Primary Indica	ators (any one is	sufficient	)					Water Stair	ned Leaves (B9)
Surface V	Vater (A1)			Inundation Vi	sible on A	erial Imager	ту (В7)	🗌 Drainage P	atterns (B10)
🗌 High Wat	er Table (A2)			Sparsely Vege	etated Cor	ncave Surfac	e (B8)	Oxidized RI	nizospheres along Living Roots (C3)
Saturation (A3) Marl Deposits (B15) Presence of Reduced Iron (C4)					. ,				
Water Marks (B1)				Salt Deposi	ts (C5)				
	Sediment Deposits (B2)  Dry-Season Water Table (C2)  Stunted or Stressed Plants (D1)				, <i>,</i>				
	Drift Deposits (B3) Other (Explain in Remarks) Geomorphic Position (D2)								
	Algal Mat or Crust (B4) Shallow Aquitard (D3)								
	Iron Deposits (B5)						,		
	Soil Cracks (B6)						[	FAC-neutra	l Test (D5)
Field Observ		Vac C	No 🖲						
Surface Wate		_	-	Depth (inche	5):				
Water Table		Yes 🔾	No 🖲	Depth (inche	5):		Wetlar	nd Hydrology Presen	t? Yes 🔾 No 🖲
Saturation Pr (includes cap		Yes 〇	No 🖲	Depth (inche	5):				
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:									
Remarks:									
no hydrology i	ndicators observ	/ed							