WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampling D	ate: 02-Aug-13			
Applicant/Owner: Alaska Energy Authority		Sampling Point:	SW13_T162_08			
Investigator(s): WAD, RWM	Landform (hills	side, terrace, hummocks etc.): Hillside				
Local relief (concave, convex, none): convex	Slope: 17.6	% / 10.0 ° Elevation: 1401				
Subregion : Interior Alaska Mountains Lat.:	63.115946174	Long.: -148.102248549	Datum: WGS84			
Soil Map Unit Name:		NWI classification: U	pland			
Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation , Soil , or Hydrology significantly disturbed? Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)						
SUMMARY OF FINDINGS - Attach site map showing sa	ampling point	locations, transects, important featur	res, etc.			

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ○ Yes ○ Yes ○	No 💿 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 Dominant		Indicator	Dominance Test worksheet:					
Tree Stratum			over	Species?	Status	Number of Dominant Species				
1.		-	0			That are OBL, FACW, or FAC: (A)				
2.					·	Total Number of Dominant				
			0			Species Across All Strata:5_ (B)				
3.			0			Percent of dominant Species				
4.			0			That Are OBL, FACW, or FAC: <u>40.0%</u> (A/B)				
5.			0			Prevalence Index worksheet:				
	Total Cover:	_	0			Total % Cover of: Multiply by:				
Sap	ling/Shrub Stratum 50% of Total Cover:	0	20%	of Total Cover:	0	OBL Species x 1 =				
1.	Dryas octopetala		10	\checkmark	UPL	FACW Species x 2 =				
2.	Salix reticulata		5		FAC	FAC Species <u>21</u> x 3 = <u>63</u>				
3.	Loiseleuria procumbens		5		FACU	FACU Species 48 x 4 = 192				
4.	Salix arctica		5		FACU	UPL Species <u>12</u> x 5 = <u>60</u>				
5.	Vaccinium vitis-idaea		10	\checkmark	FAC	Column Totals: 81 (A) 315 (B)				
6.	Cassiope tetragona		35	\checkmark	FACU					
7.			0			Prevalence Index = B/A = <u>3.889</u>				
			0			Hydrophytic Vegetation Indicators:				
			0			Dominance Test is > 50%				
			0			Prevalence Index is ≤3.0				
			70			Morphological Adaptations ¹ (Provide supporting data in				
Herb Stratum 50% of Total Cover: 3		35	_ 20%	of Total Cover:	14	Remarks or on a separate sheet)				
1.	Antennaria monocephala		1		UPL	Problematic Hydrophytic Vegetation ¹ (Explain)				
2.	Anthoxanthum monticola ssp. alpinum		1		FACU	¹ Indicators of hydric soil and wetland hydrology must				
3.	Carex bigelowii		5	\checkmark	FAC	be present, unless disturbed or problematic.				
4.	Bistorta plumosa		2	\checkmark	FACU	Plot size (radius, or length x width) 10m				
5.	Silene acaulis		1		UPL					
6.	Poa arctica		1		FAC	% Cover of Wetland Bryophytes (Where applicable)				
7.			0			% Bare Ground				
			0			Total Cover of Bryophytes				
			0							
			0			Hydrophytic				
	Total Cover:		11			Vegetation				
	50% of Total Cover: <u>5.5</u> 20% of Total Cover: <u>2.2</u> Present? Yes No •									
Rem	arks: rosacea collectec 1.		Remarks: rosacea collectec 1.							

	ion: (Describe to the depth Matrix	needed to docum		nfirm the ab lox Featu		ators)				
Depth (inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks		
	· ·		,							
			,							
¹ Type: C=Cor	ncentration. D=Depletio	n. RM=Reduce	ed Matrix ² Location	n: PL=Pore	e Lining. RC	=Root Cha	annel. M=Matrix			
Hydric Soil I	ndicators:		Indicators for Pro	oblematio	Hydric So	oils: ³				
Histosol or	r Histel (A1)		Alaska Color Ch				Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip	edon (A2)		Alaska Alpine s	•	,		Underlying Layer			
	Sulfide (A4)		Alaska Redox V	Vith 2.5Y F	lue		Other (Explain in Remark	s)		
	c Surface (A12)		³ One indicator of	hvdronhvt	ic vegetatio	n one prir	mary indicator of wetland h	vdrology		
Alaska Gle	, , ,		and an appropriat					yalology,		
Alaska Rec	. ,		⁴ Give details of co	olor change	e in Remark	S				
Alaska Gle	yed Pores (A15)									
Restrictive Laye	er (if present):									
Type:							Hydric Soil Present	? Yes 🔾 No 🖲		
Depth (inch	nes):									
Remarks:										
assumed uplan	d soil, convex vegetated	d block field.								
HYDROLO	GY									
Wetland Hyd	rology Indicators:						Secondary Indi	cators (two or more are required)		
Primary Indica	tors (any one is sufficie	nt)					Water Stai	ned Leaves (B9)		
Surface W	/ater (A1)		Inundation Vi	isible on A	erial Image	ry (B7)	Drainage F	Patterns (B10)		
	er Table (A2)		Sparsely Vege	etated Cor	cave Surfac	ce (B8)	_	hizospheres along Living Roots (C3)		
Saturation			Marl Deposits	s (B15)				f Reduced Iron (C4)		
Water Ma	. ,		Hydrogen Sul		• •		Salt Deposits (C5)			
Sediment Deposits (B2)			Dry-Season V		• •		Stunted or Stressed Plants (D1)			
Drift Depo			Other (Explai	n in Rema	rks)		Geomorphic Position (D2)			
	or Crust (B4)							uitard (D3)		
Iron Depo	. ,							raphic Relief (D4)		
Surface So	oil Cracks (B6)						FAC-neutra	l Test (D5)		

Wetland Hydrology Present?

Field Observations:

Surface Water Present?YesNoDepth (inches):Water Table Present?YesNoDepth (inches):Saturation Present?
(includes capillary fringe)YesNoDepth (inches):

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:

Remarks:

no hydrology indicators observed

Yes 🔘 No 🖲