WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampling Date:	03-Jul-13
Applicant/Owner: Alaska Energy Authority		Sampling Point: SW1	3_T121_07
Investigator(s): JGK	Landform (hills	side, terrace, hummocks etc.): Flat	
Local relief (concave, convex, none): hummocky	Slope:	% / 4.3 ° Elevation: 250	
Subregion : Southcentral Alaska Lat.:	62.807470441	4 Long.: -149.575167893 Date	ım: NAD83
Soil Map Unit Name:		NWI classification: PEM1E	
	ear? Yes the star? Yes the star? The star star star star star star star star	 No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes (If needed, explain any answers in Remarks.) 	Νο Ο
SUMMARY OF FINDINGS - Attach site map showing sa	ampling point	locations, transects, important features, et	С.

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.

٨٩٩			Absol	solute Dominant Cover Species?		Indicator	Dominance Test worksheet:		
			Status			Number of Dominant Species			
1.				0			That are OBL, FACW, or FAC: <u>5</u> (A)		
2.			_	0			Total Number of Dominant Species Across All Strata: 5 (B)		
3.				0			Percent of dominant Species		
4.				0			That Are OBL, FACW, or FAC:100.0%(A/B)		
5.				0					
		Total Cover:		<u>\</u>			Prevalence Index worksheet: Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum 5	0% of Total Cover:	0	20% of ⁻	Total Cover:	0	OBL Species $63.1 \times 1 = 63.1$		
1	Picea mariana			1		FACW	FACW Species $8 \times 2 = 16$		
2.	A a due se e de la elifetie		-	5		FACW	FAC Species <u>12</u> x 3 = <u>36</u>		
3.	Potula nana		-	10		FAC	FACU Species $0 \times 4 = 0$		
4.			_	1		OBL	UPL Species $0 \times 5 = 0$		
5.			_	2		FAC			
6	Rhododendron tomentosum			2		FACW	Column Totals: <u>83.1</u> (A) <u>115.1</u> (B)		
7.			_	0			Prevalence Index = B/A = <u>1.385</u>		
				0					
				0			✓ Dominance Test is > 50%		
				0			✓ Prevalence Index is \leq 3.0		
Total Cover: 21							Morphological Adaptations ¹ (Provide supporting data in		
Her	b Stratum	50% of Total Cover:	10.5	20% of	Total Cover:	4.2	Remarks or on a separate sheet)		
1.	Eriophorum angustifolium			15	\checkmark	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Carex rariflora			30	\checkmark	OBL	¹ Indicators of hydric soil and wetland hydrology must		
3.	Carex rotundata			15	\checkmark	OBL	be present, unless disturbed or problematic.		
4.	Drosera anglica			2		OBL	Plot size (radius, or length x width) 10m		
5.	Scheuchzeria palustris			0.1		OBL	Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes <u>60</u>		
6.			_	0			(Where applicable)		
7.			_	0			% Bare Ground		
8.			_	0			Total Cover of Bryophytes		
9.			_	0					
				0			Hydrophytic		
		Total Cover:					Vegetation		
	5	60% of Total Cover: 3	1.05	20% of ⁻	Total Cover:	12.42	Present? Yes No		
Rem	arks:								

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features											
Depth (inches)	Color (mois	st)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
						.,,,,					
	·										
									-		
¹ Type: C=Cor	centration. D=I	Depletion. F		Matrix ² Location				nnel. M=Matrix			
Hydric Soil I	ndicators:		1	Indicators for Pro	oblematic	Hydric So	ils: ³				
Histosol or	Histel (A1)		[Alaska Color Ch	ange (TA4	4) 4		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip	edon (A2)		[Alaska Alpine sv	vales (TA5	5)	_	Underlying Layer			
Hydrogen	Sulfide (A4)		[Alaska Redox W	/ith 2.5Y H	lue	\checkmark	Other (Explain in Remark	s)		
	Surface (A12)			_							
Alaska Gle	()			³ One indicator of and an appropriate	hydrophyt	ic vegetation	, one prim	nary indicator of wetland h	ydrology,		
🗌 Alaska Rec				and an appropriate	e ianuscap	e posicion n	iust be pre	esent			
	yed Pores (A15))		⁴ Give details of co	lor change	e in Remarks	5				
Restrictive Laye	er (if present):										
Туре:	,							Hydric Soil Present	? Yes 🖲 No 🔾		
Depth (inch	ies):										
Remarks:											
assume hydric s	soil due to inun	dation and	hydrophytic	vegetation							
HYDROLO	GY										
Wetland Hydi	ology Indicat	ors:						Secondary India	cators (two or more are required)		
Primary Indica	tors (any one is	sufficient)						Water Stain	ned Leaves (B9)		
✓ Surface W	'ater (A1)			Inundation Vi	sible on A	erial Imager	y (B7)	Drainage P	atterns (B10)		
🗌 High Wate	er Table (A2)			Sparsely Vege	etated Con	cave Surfac	e (B8)	88) Oxidized Rhizospheres along Living Roots (C3)			
Saturation	i (A3)			Marl Deposits	(B15)			Presence o	f Reduced Iron (C4)		
🗌 Water Mai	rks (B1)			Hydrogen Sul	fide Odor	(C1)		Salt Depos	its (C5)		
Sediment	Deposits (B2)			Dry-Season W				Stunted or Stressed Plants (D1)			
🗌 Drift Depo				Other (Explain	n in Remai	rks)		Geomorphi	ic Position (D2)		
Algal Mat	Algal Mat or Crust (B4)							Shallow Aquitard (D3)			
Iron Depo	sits (B5)							Microtopog	raphic Relief (D4)		
	oil Cracks (B6)							✓ FAC-neutra			
Field Observa											
Surface Water	Present?	Yes 💿	No \bigcirc	Depth (inches	s): 2						
Water Table P	resent?	Yes 🖲	No O	Depth (inches			Wetlar	nd Hydrology Presen	t? Yes 🖲 No 🔾		
Saturation Pre											
(includes capil		Yes 🖲	No 🔾	Depth (inches	5):						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Demode											
Remarks:											
pH 4.65 EC 20											