WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: Matanuska-Susitna Borough Sampling Date: 22-Jun-12						
Applicant/Owner: Alaska Energy Authority	Sampling Point: SW12_T18_11						
Investigator(s): SLI, EKJ	Landform (hillside, terrace, hummocks etc.): Shoreline						
Local relief (concave, convex, none): flat	Slope: 5.2 % / 3.0 ° Elevation: 755						
Subregion : Southcentral Alaska Lat.:	62.8488599087 Long.: -149.230019968 Datum: WGS84						
Soil Map Unit Name:	NWI classification: PEM1B						
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	mpling point locations, transects, important features, 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: graminoid community adjacent to lake.								

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

			Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tre	e Stratum		% Cover		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				
4.				· _		Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)	
5.			0	·			
		Total Cover:	0			Prevalence Index worksheet: Total % Cover of: Multiply by:	
San	ling/Shrub Stratum			• 6 of Total Cover:	0		
Jap	ing/Sillub Sciatum		0 20/			OBL Species <u>22</u> x 1 = <u>22</u>	
1.	Empetrum nigrum		7		FAC	FACW Species <u>13</u> x 2 = <u>26</u>	
2.	Betula nana		5		FAC	FAC Species <u>34</u> x 3 = <u>102</u>	
3.	Andromeda polifolia		2		FACW	FACU Species <u>0</u> x 4 = <u>0</u>	
4.	Lodum documbone		3		FACW	UPL Species x 5 =	
5.			5		FAC	Column Totals: 69 (A) 150 (B)	
6.			0				
						Prevalence Index = B/A = 2.174	
						Hydrophytic Vegetation Indicators:	
9.			0			✓ Dominance Test is > 50%	
10.			0			✓ Prevalence Index is ≤3.0	
		Total Cover:	22			Morphological Adaptations ¹ (Provide supporting data in	
Her	b Stratum	50% of Total Cover:	11 20	% of Total Cover:	4.4	Remarks or on a separate sheet)	
1.	Dodecatheon jeffreyi		3		FACW	Problematic Hydrophytic Vegetation ¹ (Explain)	
2.	Rubus chamaemorus		3		FACW	¹ Indicators of hydric soil and wetland hydrology must	
3.	Sanguisorba officinalis		2		FACW	be present, unless disturbed or problematic.	
4.	Anemone richardsonii		1		FAC	Dist size (redius, er length y width)	
5.	Deschampsia cespitosa		15		FAC	Plot size (radius, or length x width) <u>10m</u>	
6.	Carex adelostoma		5		OBL	% Cover of Wetland Bryophytes	
7.	Trichophorum caespitosum		7		OBL	% Bare Ground _2	
8.	Viola adunca		1		FAC	Total Cover of Bryophytes 95	
9.	Eriophorum angustifolium		10		OBL		
10.			0			Hydrophytic	
		Total Cover:	47	•		Vegetation	
		50% of Total Cover: 2		6 of Total Cover:	9.4	Present? Yes • No	
						1	

Remarks: trace pedicularis and erigeron. desces pressed, unidentified brome. likely underestimated graminoid cover due to standing dead and the fact that many are still developing. carade unidentified sedge, pressed.

SOIL

	rofile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features					cators)			
(inches)	Color (mois	it)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-1			100					Fibric Organics	
1-13			100					Hemic Organics	
	. <u> </u>						p		
						-		-	
¹ Type: C=Cor	centration. D=[Depletion. R	M=Reduce	ed Matrix ² Locatio	n: PL=Por	e Lining. RC	C=Root Cha	annel. M=Matrix	
Hydric Soil II	ndicators:			Indicators for P	roblemati	c Hydric S	oils: ³		
-	Histel (A1)			Alaska Color C		4] Alaska Gleyed Without H	ue 5Y or Redder
Histosof of Histosof of	. ,			Alaska Alpine		,		Underlying Layer	
	Sulfide (A4)			Alaska Redox		-		Other (Explain in Remark	s)
	Surface (A12)								
Alaska Gle	()			³ One indicator o	f hydrophy	tic vegetatic	on, one prir	nary indicator of wetland h	ydrology,
Alaska Gle	, , ,			and an appropria	ite landsca	pe position i	must be pro	esent	
	yed Pores (A15)			⁴ Give details of a	color chang	e in Remark	s		
Restrictive Laye	er (if present):								~ ~ ~ ~ ~
Type:								Hydric Soil Present	? Yes 🖲 No 🔾
Depth (inch	ies):								
HYDROLO									
	ology Indicat								cators (two or more are required)
	tors (any one is	sufficient)						Water Stai	ned Leaves (B9)
✓ Surface W	. ,			Inundation V		5	, , ,		atterns (B10)
✓ High Wate				Sparsely Ve	-	ncave Surfa	ce (B8)		hizospheres along Living Roots (C3)
Saturation				Marl Deposit					f Reduced Iron (C4)
Water Mai				Hydrogen S				Salt Depos	
_	Deposits (B2)			Dry-Season		. ,			Stressed Plants (D1)
Drift Depo				Other (Expla	ain in Rema	ırks)		Geomorphi	()
	or Crust (B4)								uitard (D3)
Iron Depo	. ,							_	raphic Relief (D4)
	oil Cracks (B6)							✓ FAC-neutra	il Test (D5)
Field Observa		Yes 🖲		Dopth (inch	oc); 2				
Surface Water		Yes •		Depth (inch			14/ - +1		t? Yes $ullet$ No $igcap$
Water Table P				Depth (inch	es):		wetia	nd Hydrology Presen	t? Yes 🖲 No 🔾
Saturation Pre (includes capil		Yes 🖲	No 〇	Depth (inch	es):				
Describe Record	ded Data (strea	m gauge, m	nonitor wel	ll, aerial photos, pre	evious inspe	ection) if ava	ailable:		
Remarks:			e						
lacustrine fring	e wetland with s	small areas	or standing	g water throughout	site				