WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	1	Borough/City:	Matanusk	ka-Susitna Borough Sampling Date: 24-Jun-12
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW12_T17_04
Investigator(s): SLI, LMF		Landform (hills	side, terrac	ce, hummocks etc.): Pothole
Local relief (concave, convex, none): concave		Slope:	% / 0.7	-
Subregion : Southcentral Alaska	Lat.:	- 62.792488212	 ?7	Long.: -148.933995735 Datum: NAD83
Soil Map Unit Name:				NWI classification: PEM1F
Are climatic/hydrologic conditions on the site typical for this t	ime of vea	r? Yes	O No 💿	(If no, explain in Remarks.)
	-	ly disturbed?		No ○
	naturally p	roblematic?		eded, explain any answers in Remarks.)
			•	
SUMMARY OF FINDINGS - Attach site map sho		ripiirig poirit	locations	s, transects, important leatures, etc.
Hydrophytic Vegetation Present? Yes No		Is	the Sam	pled Area
Hydric Soil Present? Yes No			thin a W	-
Wetland Hydrology Present? Yes No Remarks: sub-alpine pond with shallow water and angular		ļ		
visible flowing inlet to pond, indicating intermitte				
VEGETATION - Use scientific names of plants. L	ist all sn	ecies in the	nlot	
Ose scientific names of plants.	Absolute		Indicator	Dominance Test worksheet:
Tree Stratum	% Cover		Status	Number of Dominant Species
1.	0			That are OBL, FACW, or FAC: 2 (A)
2	0			Total Number of Dominant Species Across All Strata:2 (B)
3	0			Percent of dominant Species
4.	0	- 📙		That Are OBL, FACW, or FAC: 100.0% (A/B)
5.	0			Prevalence Index worksheet:
Total Cover		- 		Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	0 20%	% of Total Cover:	0	OBL Species 40 x 1 = 40
1	0			FACW Species 0 x 2 = 0
2.		- 📙		FACUS paging 0 x 3 = 0
3.		- 📙		FACU Species 0 x4 = 0 UPL Species 0 x5 = 0
4. 5.	0	- 📙		
		- 📙		Column Totals: <u>40</u> (A) <u>40</u> (B)
_		- <u>Г</u>		Prevalence Index = B/A = 1.000
7. 8.		-		Hydrophytic Vegetation Indicators:
9.				✓ Dominance Test is > 50%
10.				✓ Prevalence Index is ≤3.0
Total Cove		_		Morphological Adaptations ¹ (Provide supporting data in
Herb Stratum 50% of Total Cover:	020	% of Total Cover	:	Remarks or on a separate sheet)
Eriophorum angustifolium	30	_	OBL	Problematic Hydrophytic Vegetation (Explain)
Carex aquatilis		- 🔽	OBL	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.		- 📙	-	be present, unless disturbed of problematic.
4		- 📙		Plot size (radius, or length x width)
E .		-		% Cover of Wetland Bryophytes (Where applicable)
5	_			(Where applicable)
6	0			% Bare Ground
6	0			% Bare Ground 90 Total Cover of Bryophytes 5
6	0 0			% Bare Ground 90 Total Cover of Bryophytes 5
6	0 0			
6	0 0 0 0 0	_	8	Total Cover of Bryophytes 5

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SOIL Sampling Point: SW12_T17_04

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features							ators)				
Depth (inches)	Color (moi		%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
(Color (moi	st)		Color (moist)		Туре	LOC	TOXCUTO	Kemarks		
					-			-			
					-			-			
			— —					-			
¹Type: C=Cor	ncentration. D=	Depletion.		d Matrix ² Location				nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	c Hydric So	oils: ³				
Histosol or	Histel (A1)		ſ	Alaska Color Cl	nange (TA	4 1)		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip	edon (A2)			Alaska Alpine s	wales (TA	5)		Underlying Layer			
	Sulfide (A4)		ſ	Alaska Redox V	With 2.5Y H	lue	✓	Other (Explain in Remark	rs)		
	Surface (A12)										
Alaska Gle								nary indicator of wetland h	ydrology,		
Alaska Red				and an appropriat	te landscap	e position n	nust be pre	esent			
	yed Pores (A15)		4 Give details of co	olor chang	e in Remark	s				
		,									
Restrictive Laye	er (ir present):										
Type:								Hydric Soil Present	? Yes ● No O		
Depth (inch	nes):										
HYDROLO	GY										
Wetland Hydi		ors:	-					Secondary Indi	cators (two or more are required)		
_	tors (any one is								ned Leaves (B9)		
Surface W		- Jannaidine,		Inundation V	icible on A	orial Imago	ov (B7)		Patterns (B10)		
✓ High Wate				Sparsely Veg		_			hizospheres along Living Roots (C3)		
✓ Saturation	. ,			Marl Deposits		icave Suriac	JE (DO)		of Reduced Iron (C4)		
Water Ma	. ,			Hydrogen Su	, ,	(C1)		Salt Depos	` '		
	Deposits (B2)								Stressed Plants (D1)		
Drift Depo				☐ Dry-Season \		. ,			ic Position (D2)		
✓ Algal Mat	` ,			Uther (Expla	ın ın kema	rks)		= '	` '		
									juitard (D3)		
✓ Iron Depo									graphic Relief (D4)		
	oil Cracks (B6)						T	✓ FAC-neutra	il Test (D5)		
Field Observa		Yes •	N. O								
Surface Water				Depth (inche	es): 12						
Water Table P		Yes 💿		Depth (inche	es): 0		Wetlar	nd Hydrology Presen	t? Yes ● No O		
Saturation Pre (includes capil		Yes •	No O	Depth (inche	es): 0						
Describe Recor	ded Data (strea	m gauge, r	nonitor well,	aerial photos, pre	vious inspe	ection) if ava	ilable:				
Demodra:											
Remarks:	nd cubetrates (roon ala-	intorcases	d w livonworto the	uah nat d	iad into a	at at time	of cito vicit water don't :	n vegetated area 12 16in		
Iron floc on pond substrates. Green algae interspersed w liverworts, though not dried into a mat at time of site visit. water depth in vegetated area 12-16in.											

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