WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: Matanuska-Susitna Borough Sampling Date: 28-Aug-15
Applicant/Owner: Alaska Energy Authority	Sampling Point:SW15_T333_08
Investigator(s): AFW	Landform (hillside, terrace, hummocks etc.): Swale
Local relief (concave, convex, none): concave	Slope: 0.0 % / 0.0 ° Elevation:
Subregion : Interior Alaska Mountains	.at.: Long.: Datum: WGS84
Soil Map Unit Name:	NWI classification: PEM1E
	f year? Yes No (If no, explain in Remarks.) icantly disturbed? Are "Normal Circumstances" present? Yes No ally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes ● No ○ Hydric Soil Present? Yes ● No ○ Wetland Hydrology Present? Yes ● No ○	Is the Sampled Area within a Wetland? Yes ● No ◯
Remarks:	
VEGETATION - Use scientific names of plants. List a	I species in the plot.
Ab	olute Dominant Indicator
Tree Stratum %	Cover Species? Status Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)
2.	Total Number of Dominant Species Across All Strata: 2 (B)

2.							Total Number of Dominant Species Across All Strata:	2	(B)
3.							Percent of dominant Species	<u> </u>	(2)
4.								100.0%	(A/B)
5.				_ []				
		Total Cover:		_	_		Prevalence Index worksheet: Total % Cover of: Multiply	by	
San	ling/Shrub Stratum 50	0% of Total Cover:0			over:	0			
<u>. 5ap</u>					_		OBL Species $43 \times 1 =$	43	-
1.	Salix pulchra		0.	<u>1</u>		FACW	FACW Species 20.1 x 2 =	40.20	_
2.			0			. <u> </u>	FAC Species <u>0</u> x 3 =	0	-
3.			0				FACU Species x 4 =	0	-
4.			0				UPL Species x 5 =	0	_
5.			0				Column Totals: <u>63.1</u> (A)	83.20	(B)
			0					1 210	
			_0				Prevalence Index = B/A =	1.319	
							Hydrophytic Vegetation Indicators:		
			0				Dominance Test is > 50%		
			0				✓ Prevalence Index is ≤ 3.0		
		Total Cover:	0.:	1			Morphological Adaptations (Provide	supporting a	lata in
Her	b Stratum 50	0% of Total Cover: <u>0.</u>	05	20% of Total	Cover:	0.02	Remarks or on a separate sheet)		
1.	Carex chordorrhiza		2	5 🗸		OBL	Problematic Hydrophytic Vegetation	(Explain)	
2.	Carex membranacea		2	0		FACW	¹ Indicators of hydric soil and wetland hydrology must		
3.	Eriophorum angustifolium		1	0		OBL	be present, unless disturbed or problematic.		
4.	Carex aquatilis		8	3		OBL	Plot size (radius, or length x width)	10	
5.			C)			% Cover of Wetland Bryophytes	_10m	
							(Where applicable)		
							% Bare Ground	75	
) [Total Cover of Bryophytes	25	
)					
			C				Hydrophytic		
		Total Cover:	63	8			Vegetation		
		0/ of Total Covery 24	- 7	0% of Total (over:	12.0	Present? Yes • No •		
	50	% of Total Cover: <u>31</u>	.5 2		Lover.	12.0			

<5% total shrub cover, thus no shrubs considered dominant. on micro-highs.

Profile Description: Depth —	scription: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features									
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-8		100					Mucky Peat			
8-18		100					Muck			
				-						
						-				
¹ Type: C=Conce	entration. D=Deplet	ion. RM=Reduc	ced Matrix ² Location	: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil Ind	icators:		Indicators for Pro	oblemati	c Hydric So	oils ³				
Histosol or Hi			Alaska Color Ch		4] Alaska Gleyed Without Hi	ie 5V or Bedder		
Histic Epiped	. ,		Alaska Alpine sv		-		Underlying Layer			
Histic Epipeu	. ,		Alaska Redox W	•			Other (Explain in Remark	s)		
Thick Dark Su								,		
Alaska Gleyed	. ,						nary indicator of wetland h	ydrology,		
Alaska Gleyed			and an appropriate	e landscap	pe position r	nust be pre	esent			
	d Pores (A15)		⁴ Give details of co	olor chang	e in Remark	S				
	. ,									
Restrictive Layer ((if present):									
Type:							Hydric Soil Present	? Yes $ullet$ No $igcap$		
Depth (inches):									
HYDROLOG	Y									
Wetland Hydrol	ogy Indicators:							cators (two or more are required)		
	rs (any one is suffic	ient)						ned Leaves (B9)		
Surface Wate	. ,		Inundation Vi	sible on A	erial Image	ry (B7)	Drainage Patterns (B10)			
Image: High Water Table (A2) Image: Sparsely Vegetated Concave Surface (B8) Image: Oxidized Rhizospheres along Living										
Saturation (A			Marl Deposits	. ,				f Reduced Iron (C4)		
Water Marks			Hydrogen Sul				Salt Depos			
Sediment De			Dry-Season W		()		_	Stressed Plants (D1)		
Drift Deposit			Other (Explain	n in Rema	arks)			c Position (D2)		
Algal Mat or	. ,						Shallow Aq			
✓ Iron Deposit	. ,							raphic Relief (D4)		
Surface Soil	. ,					1	✓ FAC-neutra	l Test (D5)		
Field Observatio										
Surface Water Pr		No O	Depth (inches	s): 1				$\hat{}$		
Water Table Pres		• No O	Depth (inches	s): 0		Wetla	nd Hydrology Presen	t? Yes 🖲 No 🔾		
Saturation Prese (includes capillar		• No O	Depth (inches	s): 0						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:										
Remarks:										