WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough	Sampling Date: 07-Jul-13			
Applicant/Owner: Alaska Energy Authority		Sampling	g Point: SW13_T187_06			
Investigator(s): JGK	Landform (hills	de, terrace, hummocks etc.):	Lowland			
Local relief (concave, convex, none): hummocky	Slope:	% / <u>3.3</u> ° Elevation: <u>622</u>				
Subregion : Interior Alaska Mountains Lat.:	62.8387823097	Long.: -148.1977100	37 Datum: NAD83			
Soil Map Unit Name:		NWI classifi	cation: PSS4/1B			
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 "Normal Circumstances" present? Yes No Are Vegetation , Soil , or Hydrology naturally 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 O	la tha Campulad Area	
Hydric Soil Present?	Yes 🖲	Νο Ο	Is the Sampled Area	Yes 🖲 No 🔾
Wetland Hydrology Present?	Yes 🖲	No 🔿	within a Wetland?	
Remarks:				

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

Tree Stratum			Absolu % Cov			Dominance Test worksheet: Number of Dominant Species		
1. Picea	a mariana			5 🗸	FACW	That are OBL, FACW, or FAC: (A)		
2.			() []		Total Number of Dominant Species Across All Strata: 5 (B)		
3.			(D 0		Percent of dominant Species		
4				D .		That Are OBL, FACW, or FAC: 100.0% (A/B)		
5.				D 0		Prevalence Index worksheet:		
		Total Cover	: 5			Total % Cover of: Multiply by:		
Sapling/S	Shrub Stratum	50% of Total Cover:	2.5 2	0% of Total Cov	er: <u>1</u>	OBL Species $0 \times 1 = 0$		
1. Picea	a mariana		3	5	FACW	FACW Species <u>68</u> x 2 = <u>136</u>		
2. Vaco	cinium uliginosum		3	5	FAC	FAC Species 95 x 3 = 285		
			1	.5	FAC	FACU Species x 4 =		
4. Vaco	vinium vitio idago		1	.0	FAC	UPL Species 0 x 5 = 0		
5. Salix	pulchra			3	FACW	Column Totals: 163 (A) 421 (B)		
6. Rhoo	dodendron tomentosum		1	.5	FACW			
7. Emp	etrum nigrum		2	.0	FAC	Prevalence Index = B/A = <u>2.583</u>		
8.			(D 🗌		Hydrophytic Vegetation Indicators:		
				0		✓ Dominance Test is > 50%		
				0		✓ Prevalence Index is \leq 3.0		
Herb Stra		Total Cover 50% of Total Cover:			ver: 26.6	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
	w higolowii		1	5 🗸	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)		
			1	0	FACW	¹ Indicators of hydric soil and wetland hydrology must		
3.) []		be present, unless disturbed or problematic.		
				D				
				D		Plot size (radius, or length x width) <u>10m</u>		
				ם 🗌		% Cover of Wetland Bryophytes <u>25</u> (Where applicable)		
				ם 🗌		% Bare Ground 2		
				D 🗌		Total Cover of Bryophytes 60		
				D 🗌				
						Hydrophytic		
		Total Cover	25	<u>. </u>		Vegetation		
		50% of Total Cover:	12.5 2	0% of Total Cov	er: <u>5</u>	Present? Yes No O		

	offle Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features					ators)				
Depth (inches)	Color (mois	t)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-8								Fibric Organics	+	
8+								Sandy Silt		
			,							
¹ Type: C=Cor	ncentration. D=[Depletion. R	M=Reduce	ed Matrix ² Location		-		nnel. M=Matrix		
Hydric Soil I	ndicators:			Indicators for Pro	blemati	c Hydric So	oils: ³			
Histosol o	r Histel (A1)			Alaska Color Ch	ange (TA	4) ⁴		Alaska Gleyed Without H	ue 5Y or Redder	
✓ Histic Epip	edon (A2)			Alaska Alpine sv	vales (TA	5)		Underlying Layer		
Hydrogen	Sulfide (A4)			🗌 Alaska Redox W	ith 2.5Y H	lue		Other (Explain in Remarks)		
Thick Darl	k Surface (A12)									
🗌 Alaska Gle	eved (A13)			³ One indicator of I	nydrophyt	ic vegetatio	n, one prin	nary indicator of wetland h	ydrology,	
🗌 Alaska Ree	,			and an appropriate	e landscap	be position r	nust be pre	esent		
	eyed Pores (A15))		⁴ Give details of co	lor chang	e in Remark	S			
Restrictive Lay	er (if present):								- ·· · · ·	
Type: ice								Hydric Soil Present	? Yes 🖲 No 🔾	
Depth (incl	nes): 8									
HYDROLO	GY									
	rology Indicat	ors:						Secondary Indi	cators (two or more are required)	
	itors (any one is								ned Leaves (B9)	
Surface W	/ater (A1)			Inundation Vision	sible on A	erial Image	rv (B7)	Drainage F	Patterns (B10)	
✓ High Wate	. ,			Sparsely Vege		5	, , ,		hizospheres along Living Roots (C3)	
Saturation				Marl Deposits			()	Presence of Reduced Iron (C4)		
U Water Ma				Hydrogen Sulf		(C1)		Salt Depos		
	Deposits (B2)			Dry-Season W				_	Stressed Plants (D1)	
Drift Dep				Other (Explain				Geomorphic Position (D2)		
	or Crust (B4)							Shallow Ac		
Iron Depo								_	graphic Relief (D4)	
	oil Cracks (B6)							✓ FAC-neutra		
Field Observa	ations:									
Surface Wate	r Present?	$_{\sf Yes}$ \bigcirc	No 🖲	Depth (inches	s):					
Water Table F	Present?	Yes 🖲	No O	Depth (inches			Wetla	nd Hydrology Presen	t? Yes $oldsymbol{igstar}$ No $igcap$	
Saturation Pre				Deput (inches	y. /					
(includes capi		Yes 🖲	No 🔾	Depth (inches	5): 2					
Describe Recor	ded Data (strea	m gauge, m	nonitor wel	l, aerial photos, previ	ious inspe	ection) if ava	ilable:			
Remarks:										
A few ponded areas 1-3 in deep										