WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site	E: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 23-Jun-12									
Applicant/C	Owner: Alaska Energy Authority				Sampling Point: SW12_T10_02									
Investigator(s): SLI_LMF Landform (hillside, terrace, hummocks etc.): Alluvial fan														
Local relief (concave, convex, none): rolling Slope: % / 0.9 ° Elevation: 221														
	_	Lati												
-	Southcentral Alaska	Lal	62.786008333	1										
•	Soil Map Unit Name: NWI classification: Upland													
Are climatic/hydrologic conditions on the site typical for this time of year? Yes No C (If no, explain in Remarks.) Are Vegetation , Soil , or Hydrology significantly disturbed? Are Vegetation , Soil , or Hydrology naturally problematic? SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.														
Hyc	Hydrophytic Vegetation Present? Yes No No Is the Sampled Area													
Hyc	Iric Soil Present? Yes \bigcirc No $oldsymbol{igstarrow}$				-									
We	tland Hydrology Present? Yes 🔿 No 🖲		WI	thin a W	etiand? Tes C No C									
Remarks: abundant dandelions (T.officianale) and boot tracks in gravel channel to the NW.														
VEGETATION -Use scientific names of plants. List all species in the plot.														
	-Ose scientific harnes of plants. Lis				Dominance Test worksheet:									
Tree St	ratum	Absolute % Cove		Indicator Status	Number of Dominant Species									
	pulus tremuloides	35		FACU	That are OBL, FACW, or FAC: <u>2</u> (A)									
	pulus balsamifera	25	_	FACU	Total Number of Dominant									
	zea glauca	5	-	FACU	Species Across All Strata: (B)									
4.	ea glauca	0		TACO	Percent of dominant Species That Are OBL, FACW, or FAC: 28.6% (A/B)									
5.		0												
	Total Cover:				Prevalence Index worksheet:									
Sanling	/Shrub Stratum 50% of Total Cover: 3		— % of Total Cover:	13	Total % Cover of: Multiply by:									
Saping		2.5			OBL Species $0 \times 1 = 0$									
	purnum edule	50		FACU	FACW Species $15 \times 2 = 30$									
	nus viridis	7		FAC	FAC Species <u>17</u> $\times 3 = 51$									
	sa acicularis	7	_	FACU	FACU Species <u>138</u> x 4 = <u>552</u> UPL Species <u>1</u> x 5 = 5									
	ea glauca	2		FACU	UPL Species <u>1</u> x 5 = <u>5</u>									
	bus idaeus			FACU	Column Totals: <u>171</u> (A) <u>638</u> (B)									
	lopanax horridus	1	- 📙	FACU	Prevalence Index = B/A =3.731									
7														
8			- 📙		Hydrophytic Vegetation Indicators:									
					Dominance Test is > 50%									
10					Prevalence Index is ≤ 3.0									
Herb St		34 20	0% of Total Cover:		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)									
	atteuccia struthiopteris	15	_	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)									
	egopteris connectilis	5		FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.									
•	reptopus amplexifolius	5		FACU										
	lamagrostis canadensis		_	FAC	Plot size (radius, or length x width)10m									
	uisetum arvense	3		FAC	% Cover of Wetland Bryophytes									
	lium triflorum	1		FAC	(Where applicable)									
	rnus canadensis	1		FACU FAC	% Bare Ground _ <u>95</u>									
-	bus arcticus	1		UPL	Total Cover of Bryophytes									
	eranium bicknellii entalis europaea	1		FACU										
10. <u>Iri</u>	Total Cover:		-		Hydrophytic Vegetation									
			% of Total Cover:	7.6	Present? Yes No •									
Remarks	bare ground includes litter and lwd. Additional	herbs, 1	% cover each: a	arttil, gymd	ry, merpan, moelat.									

Profile Description: (Describe to the depth needed to docur Depth			ment the indicator or confirm the absence of indicators Redox Features			cators)					
(inches)	Color (mois	st)	%	Color (moist)		%	Type ¹	Loc ²	Texture	Remarks	
0-4	5Y	3/1	60						Sandy Clay	40% roots	
4-13			80						Sand	20% roots	
13-18			90						Sand	10% gravel fine to coarse	
	·										
							-		-		
¹ Type: C=Con	centration. D=I	Depletion. I	RM=Reduc	ed Matrix ² Lo	cation: P	L=Pore	Lining. R	C=Root Cha	nnel. M=Matrix		
Hydric Soil Ir	dicators:			Indicators f	or Proble	ematic	Hydric S	oils: ³			
Hydric Soil Indicators: Indicators for Problematic Hydric Soils: ³ Histosol or Histel (A1) Alaska Color Change (TA4) ⁴											
Histic Epipe	. ,				pine swale		,		Underlying Layer		
	Sulfide (A4)				edox With		-		Other (Explain in Remark	(5)	
	Surface (A12)										
Alaska Glev	()								hary indicator of wetland h	iydrology,	
Alaska Red				and an appr	opriate la	nascape	e position	must be pre	esent		
Alaska Gley	ed Pores (A15))		⁴ Give detail	s of color	change	in Remar	ks			
Restrictive Laye	r (if present):										
Type:	r (il present).								Hydric Soil Present	? Yes 🔿 No 🖲	
Depth (inch	es):								Hydric Son Present		
Remarks:											
HYDROLO	GY										
Wetland Hydr										cators (two or more are required)	
Primary Indicat		sufficient)								ned Leaves (B9)	
Surface W							rial Image			Patterns (B10)	
	r Table (A2)						cave Surfa	ice (B8)		hizospheres along Living Roots (C3)	
Saturation					eposits (B1	,				of Reduced Iron (C4)	
Water Mar				Hydrog					Salt Deposits (C5) Stunted or Stressed Plants (D1)		
Drift Depo	Deposits (B2)				ason Wate Explain in		• •		_	ic Position (D2)	
	or Crust (B4)				схріант ін	Reman	KS)			uitard (D3)	
Iron Depo										graphic Relief (D4)	
· - ·	oil Cracks (B6)									al Test (D5)	
Field Observa	. ,										
Surface Water		$_{ m Yes}$ \bigcirc	No 🖲	Depth	(inches):						
Water Table P		Yes O	-		(inches):			Wetla	nd Hydrology Presen	t? Yes 🔿 No 🖲	
Saturation Pre					. ,			c.iai			
(includes capil	ary fringe)	Yes O		•	(inches):						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											
Remarks:											