WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	F	Borough/City:	Matanusk	a-Susitna Borough Sampling D	ate: 04-Jul-13						
Applicant/Owner: Alaska Energy Authority				Sampling Point:	SW13_T122_07						
Investigator(s): SLI, SCB		Landform (hill	side, terrac	e, hummocks etc.): Lowland							
Local relief (concave, convex, none): none		Slope:	% / 0.7	• Elevation: 732							
Subregion : Interior Alaska Mountains	Lat.:	62.856847791		Long.: -148.47068059	Datum: NAD83						
Soil Map Unit Name:				NWI classification: PL	JBH						
	significant naturally p	ly disturbed? problematic?	(If nee	ded, explain any answers in Rema							
	•	nping point	locations	s, transects, important reatur	es, elc.						
Hydrophytic Vegetation Present? Yes No											
Hydric Soil Present? Yes No				/etland? Yes \bullet No \bigcirc							
Wetland Hydrology Present? Yes No Remarks: small lowland pond VEGETATION - Use scientific names of plants. Lis		ecies in the	nlot								
				Dominance Test worksheet:							
Tree Stratum	Absolute % Cover		Indicator Status	Number of Dominant Species							
1	0		- 	That are OBL, FACW, or FAC:	(A)						
2.	0			Total Number of Dominant Species Across All Strata:	0 (B)						
3.	0			Percent of dominant Species							
4.	0			That Are OBL, FACW, or FAC:	(A/B)						
5.	0			Prevalence Index worksheet:							
Total Cover:		-			tiply by:						
Sapling/Shrub Stratum 50% of Total Cover:	0 20%	% of Total Cover:	0	OBL Species <u>1.1</u> x	1 =						
1	0			FACW Species <u>0</u> x	2 =						
2.				FAC Species x	3 =						
3.				FACU Species <u>0</u> x	4 =						
4.				UPL Species x	5 =						
5	0			Column Totals: <u>1.1</u> (/	A) <u>1.100</u> (B)						
6	0			Prevalence Index = B/A =	1.000						
7	0				1.000						
8	0			Hydrophytic Vegetation Indicato	'S:						
9				Dominance Test is > 50%							
	0			✓ Prevalence Index is ≤ 3.0							
Total Cover:		_ % of Total Cover	: 0	Morphological Adaptations ¹ (Pro Remarks or on a separate sheet							
1. Carex livida	1		OBL	Problematic Hydrophytic Vegeta							
2. Eriophorum angustifolium	0.1		OBL	¹ Indicators of hydric soil and wetland							
3. Menyanthes trifoliata	0.1		OBL	be present, unless disturbed or problematic.							
4.	0			Diet eize (redius, er length y width)	10						
5.				Plot size (radius, or length x width) % Cover of Wetland Bryophytes	_10m						
6	-			(Where applicable)							
7	0			% Bare Ground	0						
8	0			Total Cover of Bryophytes	0						
9		- Ц									
10	0	-		Hydrophytic							
Total Cover:	-		0.24	Vegetation Present? Yes • No	\bigcirc						
50% of Total Cover:	<u>J.6</u> 20%		0.24								

Remarks: trace carex livida. vegetation along fringe of small lowland pond. no dominant herbs as total herb cover <5%.

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features						cators)				
Depth (inches)	Color (mois	it) %	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks		
		<u>,,</u>			Type	LUC				
							p			
				_						
						,				
¹ Type: C=Con	¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix									
Hydric Soil Ir	ndicators:		Indicators for P	roblemati	c Hydric S	oils: ³				
Histosol or	Histel (A1)		Alaska Color C	Change (TA	4) 4		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip	edon (A2)		🗌 Alaska Alpine	swales (TA	5)	_	Underlying Layer			
Hydrogen	Sulfide (A4)		🗌 Alaska Redox	With 2.5Y I	lue	\checkmark	Other (Explain in Remark	s)		
Thick Dark	Surface (A12)		30							
Alaska Gle	yed (A13)		One indicator o and an appropria				nary indicator of wetland h esent	ydrology,		
Alaska Red	lox (A14)				-					
Alaska Gle	yed Pores (A15))	⁴ Give details of o	color chang	e in Remari	KS				
Restrictive Laye	er (if present):									
Type:							Hydric Soil Present	? Yes 🖲 No 🔾		
Depth (inch	ies):									
HYDROLO										
Wetland Hydr								cators (two or more are required)		
	tors (any one is	sufficient)						ned Leaves (B9)		
Surface W			Inundation		5	, , ,		atterns (B10)		
	High Water Table (A2) Sparsely Vegetated Concave Surface (B8) Saturation (A3) Marl Deposits (B15)						Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4)			
	Saturation (A3) Marl Deposits (B15) Water Marks (B1) Hydrogen Sulfide Odor (C1)							. ,		
	Image: Marks (B1) Image: Marks (B1) Image: Marks (B1)							Stressed Plants (D1)		
Drift Deposits (B3) Other (Explain in Remarks)							_	c Position (D2)		
	Algal Mat or Crust (B4)						Shallow Aq	· · /		
Iron Depo							_	raphic Relief (D4)		
	oil Cracks (B6)						FAC-neutra			
Field Observa	tions:									
Surface Water	Present?	Yes 💿 No	O Depth (inch	es): 24						
Water Table P	resent?	Yes 🔿 No	• Depth (inch	es).		Wetlar	nd Hydrology Presen	t? Yes 🖲 No 🔾		
Saturation Pre (includes capil	sent?	Yes O No	Dopan (mon	,			,			
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:										
D										
Remarks:	dopth									
unsure of pond	ueptn									