WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	xa-Susitna Borough Sampling Date:24-Aug-15
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW15_T328_08
nvestigator(s): SLI, TXC		Landform (hill	side, terrac	ce, hummocks etc.): Lake
Local relief (concave, convex, none): concave) ° Elevation:
Subregion : Cook Inlet Mountains	Lat.:			Long.: Datum: WGS84
Soil Map Unit Name:				NWI classification: PUBH
Are climatic/hydrologic conditions on the site typical for this til	mo of you	r2 Vac	● No ○	
		ly disturbed?		Iormal Circumstances" present? Yes No No
		roblematic?		eded, explain any answers in Remarks.)
	• •		•	
SUMMARY OF FINDINGS - Attach site map show	wing sar	mpling point	locations	s, transects, important features, etc.
Hydrophytic Vegetation Present? Yes ● No C)			
Hydric Soil Present? Yes ● No C)			pled Area
Wetland Hydrology Present? Yes ● No C)	W	ithin a W	/etland? Yes ● No ○
Remarks: Shallow large pond. trace rooted vegetation in cel	nter of wa	iterbody, beave	er dam on s	southwestern shore, lodge near northern shore.
		•		
/EGETATION - Use scientific names of plants. Li	st all sp	ecies in the	plot.	
	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum	% Cover		Status	Number of Dominant Species
1.				That are OBL, FACW, or FAC: 1 (A)
2				Total Number of Dominant Species Across All Strata: 1 (B)
3.				Percent of dominant Species
4				That Are OBL, FACW, or FAC: 100.0% (A/B)
5				Prevalence Index worksheet:
Total Cover:		_		Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	0 209	% of Total Cover:	0	OBL Species <u>5</u> x 1 = <u>5</u>
1				FACW Species 0 x 2 = 0
2.				FAC Species0 x 3 =0
3.				FACU Species <u>0</u> x 4 = <u>0</u>
4				UPL Species0 x 5 =0
5				Column Totals:5 (A)5 (B)
6				Prevalence Index = B/A = 1.000
7				1 Tevalence index – B/A – 1.000
8				Hydrophytic Vegetation Indicators:
9.				✓ Dominance Test is > 50%
10.				Prevalence Index is ≤3.0
Total Cover: Herb Stratum 50% of Total Cover:		_ % of Total Cover	: <u> </u>	☐ Morphological Adaptations (Plovide supporting data in Remarks or on a separate sheet)
Carex aquatilis	5	✓	OBL	Problematic Hydrophytic Vegetation (Explain)
2.	0			¹ Indicators of hydric soil and wetland hydrology must
3	0			be present, unless disturbed or problematic.
4	0			Plot size (radius, or length x width)
5				% Cover of Wetland Bryophytes
6				(Where applicable)
				% Bare Ground99
7				Total Cover of Bryophytes
8				
8. 9.				
8	0			Hydrophytic
8. 9.	0 0 5	-		

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SOIL Sampling Point: SW15_T328_08 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) **Redox Features** Depth <u>Loc</u> 2 (inches) Color (moist) Color (moist) % Type ¹ ¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix Indicators for Problematic Hydric Soils:³ **Hydric Soil Indicators:** Histosol or Histel (A1) Alaska Color Change (TA4) Alaska Gleyed Without Hue 5Y or Redder **Underlying Layer** Alaska Alpine swales (TA5) Histic Epipedon (A2) Alaska Redox With 2.5Y Hue **✓** Other (Explain in Remarks) Hydrogen Sulfide (A4) Thick Dark Surface (A12) ³ One indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, Alaska Gleyed (A13) and an appropriate landscape position must be present Alaska Redox (A14) ⁴ Give details of color change in Remarks Alaska Gleyed Pores (A15) Restrictive Layer (if present): Yes ● No ○ Type: **Hydric Soil Present?** Depth (inches): Remarks: inundated, assume hydric soil

HYDRULUGY			
Wetland Hydrology Indica	ators:		Secondary Indicators (two or more are required)
Primary Indicators (any one	is sufficient)		Water Stained Leaves (B9)
✓ Surface Water (A1)		✓ Inundation Visible on Aerial Imag	ngery (B7) Drainage Patterns (B10)
High Water Table (A2)		Sparsely Vegetated Concave Surfa	rface (B8) Oxidized Rhizospheres along Living Roots (C3)
Saturation (A3)		☐ Marl Deposits (B15)	Presence of Reduced Iron (C4)
☐ Water Marks (B1)		☐ Hydrogen Sulfide Odor (C1)	Salt Deposits (C5)
Sediment Deposits (B2)		Dry-Season Water Table (C2)	Stunted or Stressed Plants (D1)
☐ Drift Deposits (B3)		Other (Explain in Remarks)	Geomorphic Position (D2)
Algal Mat or Crust (B4)			Shallow Aquitard (D3)
☐ Iron Deposits (B5)			☐ Microtopographic Relief (D4)
Surface Soil Cracks (B6))		✓ FAC-neutral Test (D5)
Field Observations:			
Surface Water Present?	Yes No	Depth (inches): 12	
Water Table Present?	Yes O No 🤄	Depth (inches):	Wetland Hydrology Present? Yes ● No ○
Saturation Present? (includes capillary fringe)	Yes O No 🖲	Depth (inches):	
Describe Recorded Data (stre	am gauge, monitor	well, aerial photos, previous inspection) if a	available:
Remarks:			
rooted vegetation in center o	f pond indicates water	er less than 2m deep. visible portions from s	n shore around 12in deep.

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