WETLAND DETERMINATION DATA FORM - Alaska Region

roject	/Site: Susitna-Watana Hyd	roelectric Project		Bord	ough/City:	Matanusk	a-Susitna Borough Sampling Date: 11-Jul-13	
Applica	nt/Owner: Alaska Energy A	uthority					Sampling Point: SW13_T139_07	
Investigator(s): WAD, BAB					Landform (hillside, terrace, hummocks etc.): trough			
ocal r	elief (concave, convex, none):	concave		SI	ope: 1.7	% / 1.0	° Elevation: 414	
ubreg	ion: Southcentral Alaska		La	t.: 62.	.820063233		Long.: -149.617531776 Datum: WGS84	
	p Unit Name:						NWI classification: PUBH	
Are V Are V	natic/hydrologic conditions on egetation , Soil egetation , Soil egetation , Soil egetation .	, or Hydrology , or Hydrology	signific natural	antly di	isturbed? lematic?	(If nee	(If no, explain in Remarks.) lormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.	
	Hydrophytic Vegetation Prese	nt? Yes 💿 No	\circ		_			
	Hydric Soil Present?	Yes No	\circ				pled Area	
	Wetland Hydrology Present?	Yes No	\circ		wit	thin a W	etland? Yes No	
	photo num 1285, 1286. TATION - Use scientific	photo time 1100					ast.	
	TATION -03e scientific	marries or plants	. List all	speci	es iii tile į	Jiot.	Dominance Test worksheet:	
Tro	e Stratum		Absol % Co		Dominant Species?	Indicator Status	Number of Dominant Species	
1.				0		Status	That are OBL, FACW, or FAC: 4 (A)	
2.				0			Total Number of Dominant Species Across All Strata: 4 (B)	
3.				0				
4.				0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)	
5.				0			Paradana Tadan madahasi	
		Total Co	ver:	0			Prevalence Index worksheet: Total % Cover of: Multiply by:	
Sap	ing/Shrub Stratum	50% of Total Cover:	0	20% of	Total Cover:	0	ODI Occasion	
							OBL Species 8 x1 = 8 FACW Species 0 x2 = 0	
				3		OBL	FAC Species 0 x3 = 0	
2. 3.				0			FACU Species 0 x4 = 0	
3. 4.				0			UPL Species 0 x 5 = 0	
٠. 5.				0				
6.				0			Column Totals: 8 (A) 8 (B)	
7.				0	П		Prevalence Index = B/A = 1.000	
7. 8.				0	П		Hydrophytic Vegetation Indicators:	
•				0			✓ Dominance Test is > 50%	
				0			✓ Prevalence Index is ≤3.0	
	o Stratum_	Total Cov 50% of Total Cover:	ver:		Total Cover:	0.6	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
	Menyanthes trifoliata			3	✓	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)	
	NI discilitation			1	✓	OBL	¹ Indicators of hydric soil and wetland hydrology must	
	Carox aquatilis			1	✓	OBL	be present, unless disturbed or problematic.	
4.	·			0			Plot size (radius, or length x width) 10m	
5.				0			Plot size (radius, or length x width)	
6.				0			(Where applicable)	
				0			% Bare Ground	
				0			Total Cover of Bryophytes	
9.				0				
10.				0			Hydrophytic	
		Total Cov 50% of Total Cover:		5		1	Vegetation Present? Yes ● No ○	

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SOIL Sampling Point: SW13_T139_07 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: **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 Gleved (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 ○ **Hydric Soil Present?** Type: none observed Depth (inches): Remarks: pond, assume hydric soil. **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (two or more are required) Primary Indicators (any one is sufficient) Water Stained Leaves (B9) ✓ Surface Water (A1) Drainage Patterns (B10) ☐ Inundation Visible on Aerial Imagery (B7) High Water Table (A2) Oxidized Rhizospheres along Living Roots (C3) Sparsely Vegetated Concave Surface (B8) Saturation (A3) Presence of Reduced Iron (C4) Marl Deposits (B15) Water Marks (B1) Salt Deposits (C5) ☐ Hydrogen Sulfide Odor (C1) 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) ✓ FAC-neutral Test (D5) Surface Soil Cracks (B6) Field Observations: Yes ● No ○ Surface Water Present? Depth (inches): 96 Yes O No • Yes ● No ○ Water Table Present? Wetland Hydrology Present? Depth (inches): Saturation Present? Yes ○ No ● Depth (inches): (includes capillary fringe)

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Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:

Remarks:

shallow open water depth estimated.