WETLAND DETERMINATION DATA FORM - Alaska Region

roject/Site: Susitna-Watana Hydroelectric Project pplicant/Owner: Alaska Energy Authority	вс	rougn/City:	Matanusk	sa-Susitna Borough Sampling Date: 31-Jul-13 Sampling Point: SW13_T155_03	
vestigator(s): WAD, RWM	L	andform (hills	side, terrac	e, hummocks etc.): depressions	
Local relief (concave, convex, none): concave		Slope: 0.0 % / 0.0 ° Elevation: 1147			
		3.200764537			
ubregion : Interior Alaska Mountains	Lat 0	3.200704537			
oil Map Unit Name:		Vas	A Na ○	NWI classification: PUBH	
re climatic/hydrologic conditions on the site typical for this time Are Vegetation , Soil , or Hydrology , sign Are Vegetation , Soil , or Hydrology , nat UMMARY OF FINDINGS - Attach site map showing	nificantly urally pro	disturbed? blematic?	Are "N (If nee	lormal Circumstances" present? Yes ● No ○	
	ig saiii	pility politi	locations	s, transects, important leatures, etc.	
Hydrophytic Vegetation Present? Yes No No Hydric Soil Present? Yes No No Wetland Hydrology Present? Yes No No Remarks: small tarn on bench above mountain stream.			the Sam thin a W	pled Area etland? Yes No No	
EGETATION -Use scientific names of plants. List	all spec	cies in the I	plot.		
	bsolute	Dominant		Dominance Test worksheet:	
	6 Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: (A)	
1.				Total Number of Dominant	
2.				Species Across All Strata:0(B)	
3. 4.				Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)	
5.				That Are OBE, FACW, OF FAC. 0.076 (A/B)	
Total Cover:	0			Prevalence Index worksheet:	
Sapling/Shrub Stratum 50% of Total Cover: 0		of Total Cover:	0	Total % Cover of: Multiply by:	
Sapinig/Sili ub Stratum	20/0 (OBL Species 0 x 1 = 0	
1				FAC Species 0 x 2 = 0	
2				FAC Species 0 x 3 = 0 FACU Species 0 x 4 = 0	
3. 4.				UPL Species 0 x 5 = 0	
_					
				Column Totals: 0 (A) 0 (B	
				Prevalence Index = B/A = 0.000	
•	0	Ē		Hydrophytic Vegetation Indicators:	
9.	0			Dominance Test is > 50%	
10.	0			☐ Prevalence Index is ≤3.0	
Total Cover: Herb Stratum 50% of Total Cover: 0	0 20%	of Total Cover	. 0	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)	
1	0			✓ Problematic Hydrophytic Vegetation ¹ (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) 10m	
5.	0			% Cover of Wetland Bryophytes	
6				(Where applicable)	
7				% Bare Ground	
8				Total Cover of Bryophytes	
9					
10.				Hydrophytic	
Total Cover: 50% of Total Cover: 0	20%	of Total Cover:	0	Vegetation Present? Yes No	
	Z U 70 (n ional Cover	()		

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SOIL Sampling Point: SW13_T155_03 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 ○ Type: **Hydric Soil Present?** Depth (inches): Remarks: unvegetated 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) Surface Soil Cracks (B6) FAC-neutral Test (D5)

Field Observations: Yes ● No ○ Surface Water Present? Depth (inches): 5 Yes O No • Yes ● No ○ Water Table Present? Wetland Hydrology Present? Depth (inches): Saturation Present? Yes ○ No ● Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: Remarks: uniformly shallow

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