WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	ka-Susitna Borough Sampling Date: 19-Aug-15
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW15_T321_02
Investigator(s): SLI, ATH	L	_andform (hill	side, terrac	ce, hummocks etc.): Channel (active)
Local relief (concave, convex, none): concave) ° Elevation:
Subregion : Cook Inlet Mountains	Lat.:			Long.: Datum: WGS84
Soil Map Unit Name:				NWI classification: R3UBH
Are climatic/hydrologic conditions on the site typical for this tir	no of voor?) Vac	● No ○	
		disturbed?		Iormal Circumstances" present? Yes No No
Are Vegetation ✓ , Soil ✓ , or Hydrology ☐ r				eded, explain any answers in Remarks.)
	• •		·	
SUMMARY OF FINDINGS - Attach site map show		pling point	locations	s, transects, important features, etc.
Hydrophytic Vegetation Present? Yes ● No ○		_		
Hydric Soil Present? Yes ● No ○				npled Area
Wetland Hydrology Present? Yes ● No ○		Wi	ithin a W	/etland? Yes ● No ○
Remarks: Cobble substrate, about 7ft wide at ordinary high sequence at sampling point.	water, well	connected to	floodplain	. Cover includes overhainging vegetation. Riffle-glide-pool
VEGETATION - Use scientific names of plants. Lis	st all spe	cies in the	plot.	
	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: (A)
1	0			That are OBL, FACW, or FAC:
2	0			Species Across All Strata:0(B)
3	0			Percent of dominant Species
4	0			That Are OBL, FACW, or FAC: 0.0% (A/B)
5				Prevalence Index worksheet:
Total Cover:				Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species
1	0			FACW Species 0 x 2 = 0
2.	0			FAC Species <u>0</u> x 3 = <u>0</u>
3.	0			FACU Species 0 x 4 = 0
4	0			UPL Species x 5 =
5	0			Column Totals: 0 (A) 0 (B)
6				Prevalence Index = B/A = 0.000
7				Trevalence mack Birt
8				Hydrophytic Vegetation Indicators:
9.				Dominance Test is > 50%
10.				☐ Prevalence Index is ≤3.0
Total Cover: Herb Stratum 50% of Total Cover:	0 20%	of Total Cover	:0	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
1.				Problematic Hydrophytic Vegetation (Explain)
2.				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3				be present, unless disturbed of problematic.
4				Plot size (radius, or length x width) <u>1 x 4m</u>
5.				% Cover of Wetland Bryophytes
6				(Where applicable)
7. 8.				% Bare Ground Total Cover of Bryophytes
9.				Total Cover or Dryophlytes
10.	0			Hydrophytic
Total Cover:				Vegetation
50% of Total Cover:		-f T-+-1 C	0	Present? Yes ● No ○

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SOIL Sampling Point: SW15_T321_02 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: Active channel, 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): 6 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:

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Remarks: D2- active channel