WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date:22-Aug-15
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW15_T314_11
nvestigator(s): GVF		Landform (hill	side, terrac	ee, hummocks etc.): Channel (active)
Local relief (concave, convex, none): concave		Slope:	% /	° 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 t	time of voc	or? Yes	No ○	
Are Vegetation \square , Soil \square , or Hydrology \square	-	tly disturbed?		Iormal Circumstances" present? Yes No No
	•	problematic?		eded, explain any answers in Remarks.)
			·	•
SUMMARY OF FINDINGS - Attach site map sho	wing sa	mpling point	locations	s, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	\supset	_		
Hydric Soil Present? Yes ● No	\supset			pled Area
Wetland Hydrology Present? Yes No	\supset	wi	ithin a W	/etland? Yes ● No ○
Remarks: perennial stream, fast flowing w/ gravel bottom				
/EGETATION - Use scientific names of plants. L	ist all sp	ecies in the	plot.	
	Absolute	e Dominant	Indicator	Dominance Test worksheet:
Tree Stratum	% Cove		Status	Number of Dominant Species
1.				That are OBL, FACW, or FAC:
2				Total Number of Dominant Species Across All Strata: 0 (B)
3.				Percent of dominant Species
4		. 🔲		That Are OBL, FACW, or FAC: 0.0% (A/B)
5		. \square		Prevalence Index worksheet:
Total Cove	r: <u> </u>	_		Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cover:	0	OBL Species x 1 =
1				FACW Species 0 x 2 = 0
2.				FAC Species0 x 3 =0
3.				FACU Species0 x 4 =0
4		. 🔲		UPL Species
5		_		Column Totals: 0 (A) 0 (B)
6		. 📙		Prevalence Index = B/A =0.000_
7		. 📙		Trevalence index Birt
8				Hydrophytic Vegetation Indicators:
9.				☐ Dominance Test is > 50%
10.		. \square		☐ Prevalence Index is ≤3.0
Total Cover Herb Stratum 50% of Total Cover: _		_)% 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
3	_	- 🗀		be present, unless disturbed or problematic.
4.				
5.				Plot size (radius, or length x width) 2x10m
6.	_			% Cover of Wetland Bryophytes (Where applicable)
7.	_			% Bare Ground100
8.				Total Cover of Bryophytes
		_		
9				T. Control of the con
9	0			Hydrophytic
	- 0 r: 0		0	Hydrophytic Vegetation Present? Yes No

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SOIL Sampling Point: SW15_T314_11 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:** Alaska Gleyed Without Hue 5Y or Redder Histosol or Histel (A1) Alaska Color Change (TA4) 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: active channel, assume hydric soil.

Secondary Indicators (two or more are required)
Water Stained Leaves (B9)
✓ Inundation Visible on Aerial Imagery (B7) ☐ Drainage Patterns (B10)
Sparsely Vegetated Concave Surface (B8) Oxidized Rhizospheres along Living Roots (C3)
☐ Marl Deposits (B15) ☐ Presence of Reduced Iron (C4)
Hydrogen Sulfide Odor (C1)
☐ Dry-Season Water Table (C2) ☐ Stunted or Stressed Plants (D1)
Other (Explain in Remarks)
Shallow Aquitard (D3)
☐ Microtopographic Relief (D4)
FAC-neutral Test (D5)
Depth (inches): 5
Depth (inches): Wetland Hydrology Present? Yes No
Depth (inches):
vell, aerial photos, previous inspection) if available:

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