WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	B	orough/City:	Matanusk	ka-Susitna Borough Sampling Date: 25-Aug-15
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW15_T318_06
Investigator(s): AFW		Landform (hill	side, terrac	ce, hummocks etc.): Channel (active)
Local relief (concave, convex, none): none) ° Elevation:
Subregion : Cook Inlet Mountains	Lat.:			Long.: Datum: WGS84
Soil Map Unit Name:	_			NWI classification: R2UBH
Are climatic/hydrologic conditions on the site typical for this t	ime of vear	? Yes	No ○	
		/ disturbed?		No ○
Are Vegetation ✓ , Soil ✓ , or Hydrology □	naturally pr	oblematic?		eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map sho			·	
		ipiirig poirit	locations	s, transects, important leatures, etc.
Hydrophytic Vegetation Present? Yes No		le	the Sam	npled Area
Hydric Soil Present? Yes No				/etland? Yes No
Wetland Hydrology Present? Yes No				otiana i
Remarks: Small stream flowing through blown out beaver				
dams downstream of plot, one of which is filled u	up with seai	ment. Observ	eu sman ns	oli.
VECETATION Lies esigntific names of plants. I	ist all spa	siss in the	mla+	
VEGETATION -Use scientific names of plants. L	ist all spe	cies iii tiie	ριστ.	Barriague Tarkonadakan
Total Chapters	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
Tree Stratum 1.	-70 Cover		Status	That are OBL, FACW, or FAC: 0 (A)
				Total Number of Dominant
3				Species Across All Strata: 0 (B)
1				Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
5.				Description of Turkey weathers
Total Cover	r: <u>0</u>			Prevalence Index worksheet: Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species $0 \times 1 = 0$
1.	0			FACW Species 0 x 2 = 0
		П		FAC Species 0 x 3 = 0
2. 3.				FACU Species 0 x 4 = 0
4.				UPL Species 0 x 5 = 0
5.				Column Totals: 0 (A) 0 (B)
6.				
7	Λ			Prevalence Index = B/A =
8	0			Hydrophytic Vegetation Indicators:
9				Dominance Test is > 50%
10	0			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	0			Problematic Hydrophytic Vegetation (Explain)
2				¹ Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Plot size (radius, or length x width) 1 x 4m
5.	•			% Cover of Wetland Bryophytes
6				(Where applicable)
7. 8.				% Bare Ground
9.				Total Cover of Bryophytes
10.	0			Hydrophytic
1.5.		_		Vegetation
Total Cover	r: 0			Present? Yes • No O

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SOIL Sampling Point: SW15_T318_06 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): 12 Yes O No • Yes ● No ○ Water Table Present? Wetland Hydrology Present? Depth (inches): 0 Saturation Present? Yes ○ No ●

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Depth (inches): 0

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

(includes capillary fringe)

Remarks: active channel