WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	xa-Susitna Borough Sampling Date: 06-Jul-13
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T111_03
Investigator(s): JER		Landform (hill	side, terrac	ce, hummocks etc.): Channel (active)
Local relief (concave, convex, none): flat		Slope:		1 ° Elevation: 103
Subregion : Interior Alaska Mountains	Lat.:	62.771054506		Long.: -148.15101552 Datum: NAD83
Soil Map Unit Name:		02.77 100 100		NWI classification: R3UBH
Are climatic/hydrologic conditions on the site typical for this t	time of voc	r2 Yes	● No ○	
Are Vegetation, Soil, or Hydrology				lormal Circumstances" present? Yes No ○
Are Vegetation ✓ , Soil ✓ , or Hydrology □	-	-		eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map sho		npling point	locations	s, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No		lo	the Com	unled Area
Hydric Soil Present? Yes ● No				ıpled Area /etland? Yes ◉ No ◯
Wetland Hydrology Present? Yes No		l l	ithin a W	otidiid i
Remarks: cobble bottom perrenial creek 45 ft across, 6	-12 in deep	, moving brisk	ly, mostly o	ppen above
VEGETATION - Use scientific names of plants. L	ist all spe	ecies in the	plot.	
	Absolute			Dominance Test worksheet:
Tree Stratum	% Cover		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	0	. \square		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		. 📙		FACU Species 0 x 4 = 0
4		. 📙		UPL Species
5		. 📙		Column Totals:0 (A)0 (B)
6.				Prevalence Index = B/A = 0.000
7.	0	. 📙		
8 9.	0	. 📙		Hydrophytic Vegetation Indicators:
		. 📙		☐ Dominance Test is > 50% ☐ Prevalence Index is ≤ 3.0
Total Cove				
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 ¹ (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) 10m
5				% Cover of Wetland Bryophytes
6				(Where applicable)
I -				% Bare Ground
7				Total Cover of Bryophytes
8				
8. 9.	0			
8. 9. 10.	0			Hydrophytic
8. 9.	0 0 0	G of Total Cover	. 0	Hydrophytic Vegetation Present? Yes No

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SOIL Sampling Point: SW13_T111_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: 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 ● Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:

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Remarks:

visible on aerial imagery