WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	ct/Site: Susitna-Watana Hydroelectric Project	1	Borough/City:	Matanusk	xa-Susitna Borough Sampling Date: 06-Jul-13	
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T103_05	
				m (hillside, terrace, hummocks etc.): pond		
Local	relief (concave, convex, none): flat		Slope: 0.0	% / 0.0) ° Elevation: 783	
Subre	gion : Interior Alaska Mountains	Lat.:	- 62.78175294	 4	Long.: -147.81422627 Datum: WGS84	
	ap Unit Name:				NWI classification: PEM1H	
	imatic/hydrologic conditions on the site typical for this ti	ime of vea	r? Yes	● No ○	(If no, explain in Remarks.)	
		-	ly disturbed?		Iormal Circumstances" present? Yes No	
			roblematic?		eded, explain any answers in Remarks.)	
	,					
SUIVI	MARY OF FINDINGS - Attach site map sho		npling point	locations	s, transects, important features, etc.	
	Hydrophytic Vegetation Present? Yes No		le	the Sam	ipled Area	
	Hydric Soil Present? Yes No			ithin a W		
	Wetland Hydrology Present? Yes No)	***	1011111 a vv	etiana:	
Rer	narks: photo time 15:12 photo num 1073					
/FG	ETATION - Use scientific names of plants. L	ict all co	ocios in tho	nlot		
LO	LIATION - OSE SCIENTING Harries of plants. L	ist all sp	ecies iii tiie	ρισι.	Dominance Test weeksheet:	
	- Sharkana	Absolute % Cover		Indicator Status	Dominance Test worksheet: Number of Dominant Species	
1.	ee Stratum	96 Cover	_ <u>Species?</u>	Status	That are OBL, FACW, or FAC: 3 (A)	
2.					Total Number of Dominant	
3.			- 📙		Species Across All Strata:3(B)	
4.			-		Percent of dominant Species That Are OBL, FACW, or FAC: 100,0% (A/B)	
5.		0			Parameter and an annual selection	
	Total Cover	r: <u>0</u>			Prevalence Index worksheet: Total % Cover of: Multiply by:	
Sa	pling/Shrub Stratum 50% of Total Cover:	0 20%	6 of Total Cover	:0	OBL Species 28.1 x 1 = 28.1	
1	Betula nana	0.1	✓	FAC	FACW Species 0.1 x 2 = 0.200	
	Colinanulahra	0.1	- =	FACW	FAC Species 0.1 x 3 = 0.300	
3.	·				FACU Species 0 x 4 = 0	
4.		•			UPL Species 0 x 5 = 0	
5.		^			Column Totals: <u>28.3</u> (A) <u>28.60</u> (B)	
6.		0				
7.		•	_		Prevalence Index = B/A = 1.011	
8.		0			Hydrophytic Vegetation Indicators:	
9.			- 📙		✓ Dominance Test is > 50%	
10.		0			Prevalence Index is ≤3.0	
u.	Total Cover rb Stratum 50% of Total Cover:			r: 0.04	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)	
	O a service of CIPs	20	✓	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)	
2.	Eduction of the control of the contr		. 🖺	OBL	Indicators of hydric soil and wetland hydrology must	
3.	Eriophorum angustifolium Eriophorum scheuchzeri			OBL	be present, unless disturbed or problematic.	
4.	Comarum palustre	0.1		OBL	District of all and in the state of the stat	
5.	Menyanthes trifoliata			OBL	Plot size (radius, or length x width) 10m	
6.					% Cover of Wetland Bryophytes (Where applicable)	
					% Bare Ground	
7.					Total Cover of Bryophytes 10	
			- —		10	
8. 9.		0				
8. 9.		0			Hydrophytic	
8. 9.		0 0 28.1		: 5.62		

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SOIL Sampling Point: SW13_T103_05 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 U 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: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (two or more are required) Primary Indicators (any one is sufficient) Water Stained Leaves (B9) ✓ Inundation Visible on Aerial Imagery (B7) ✓ Surface Water (A1) Drainage Patterns (B10) 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): Yes ○ 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:

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