WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	ВО	rough/City:	Matanusk	a-Susitna Borough Sampling Date: 04-Jul-13
Applica	int/Owner: Alaska Energy Authority				Sampling Point: SW13_T109_01
Investi	gator(s): JGK	L	andform (hill	side, terrac	ee, hummocks etc.): Lacustrine fringe
Local r	elief (concave, convex, none): hummocky		Slope: 3.5	% / 2.0) ° Elevation: 700
Subre	ion : Interior Alaska Mountains	Lat.: 6	2.872509599		Long.: -148.272574425 Datum: WGS84
	p Unit Name:				NWI classification: PEM1E
	natic/hydrologic conditions on the site typical for this ti	me of vear?	Yes	No ○	(If no, explain in Remarks.)
		significantly			Iormal Circumstances" present? Yes No
		naturally pro			eded, explain any answers in Remarks.)
SUMI	MARY OF FINDINGS - Attach site map show		pling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes No C		la.	the Com	mlad Araa
	Hydric Soil Present? Yes No No)			pled Area /etland? Yes ● No ○
	Wetland Hydrology Present? Yes No C)	WI	thin a W	etiand? Tes © NO C
Rem	arks: DUNN SITE 1383 SOIL 1388.				
	POSITIVE ALPHA ALPHA DIPYRIDYL				
VEGE	ETATION - Use scientific names of plants. Li	st all spec	cies in the	plot.	
		Absolute	Dominant	Indicator	Dominance Test worksheet:
	e Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)
1.					Total Number of Dominant
2.		0			Species Across All Strata: 3 (B)
3.		0			Percent of dominant Species
4.					That Are OBL, FACW, or FAC:100.0% (A/B)
5.					Prevalence Index worksheet:
	Total Cover		of Total Covers		Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	<u>0</u> 20% c	of Total Cover:	0	OBL Species65 x 1 =65
1.	Betula nana	0.1	✓	FAC	FACW Species 0 x 2 = 0
	Vaccinium uliginosum	0.1	V	FAC	FAC Species 1.3 x 3 = 3.900
3.					FACU Species 0 x 4 = 0
4.					UPL Species <u>0</u> x 5 = <u>0</u>
5.		•			Column Totals: <u>66.3</u> (A) <u>68.90</u> (B)
6.		•			Prevalence Index = B/A =1.039
7. 8.					II. dan ala dia Vanatatian Tadia tama
9.		0			Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%
10.					✓ Prevalence Index is ≤3.0
10.	Total Cover				Morphological Adaptations ¹ (Provide supporting data in
Her	b Stratum 50% of Total Cover:		of Total Cover	: 0.04	Remarks or on a separate sheet)
1.	Carex aquatilis	60	✓	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Comarum palustre	2		OBL	¹ Indicators of hydric soil and wetland hydrology must
3.	Carex Ioliacea	2		OBL	be present, unless disturbed or problematic.
4.	Rorippa palustris	1		FAC	Plot size (radius, or length x width)
5.	Potentilla norvegica			FAC	% Cover of Wetland Bryophytes5
6.	Epilobium palustre	0.1		OBL	(Where applicable)
					% Bare Ground15
					Total Cover of Bryophytes
10.	Tatal Cover	0			Hydrophytic
	Total Cover 50% of Total Cover:		.f.T.+- C		Vegetation Present? Yes ● No ○
	20% OF 1014LCOVER.	33.1 JU% C	of Lotal Cover.	1374	11000110.

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SOIL Sampling Point: SW13_T109_01

Profile Description: (Describe t	Matrix			edox Featu				
(inches) Color (n	noist)	%	Color (moist)	%	Type ¹	_Loc ²	Texture	Remarks
0-7							Fibric Organics	Fibric Organics
7-13.5 7.5YR	3/2	100					Sandy Clay Loam	POSITIVE ALPHA ALPHA DIPYRIDOL
								_
								_
							p-	
								_
¹ Type: C=Concentration. [)=Depletion				_		innel. M=Matrix	
Hydric Soil Indicators:			Indicators for P		4	oils:		
Histosol or Histel (A1)			Alaska Color (-		Alaska Gleyed Without	Hue 5Y or Redder
Histic Epipedon (A2)			Alaska Alpine	•	,		Underlying Layer	
Hydrogen Sulfide (A4)			Alaska Redox	With 2.5Y H	lue	✓	Other (Explain in Rema	arks)
Thick Dark Surface (A1	2)		3 One indicator c	f hydrophyti	ic voqetatio	n one prin	nary indicator of wetland	l hydrology
Alaska Gleyed (A13)			and an appropria					Triydrology,
Alaska Redox (A14)			4 Give details of	color change	in Domark			
☐ Alaska Gleyed Pores (A	15)		- Give details of t	color change	III Nelliain	.5		
Restrictive Layer (if present):							
Type: Ice							Hydric Soil Preser	nt? Yes • No O
Depth (inches): 13.5 Remarks: Positive reaction for a,a-dipy	ridyl indicat	es reducing e	environment					
Remarks:	ridyl indicat	es reducing e	environment					
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Remarks: Positive reaction for a,a-dipy HYDROLOGY Wetland Hydrology India	cators:		environment					dicators (two or more are required)
Remarks: Positive reaction for a,a-dipy HYDROLOGY Wetland Hydrology Indic Primary Indicators (any one	cators:		environment				Water St	tained Leaves (B9)
Remarks: Positive reaction for a,a-dipy HYDROLOGY Wetland Hydrology Indic Primary Indicators (any one Surface Water (A1)	cators: e is sufficient		Inundation		_		Water St	cained Leaves (B9) e Patterns (B10)
Remarks: Positive reaction for a,a-dipy HYDROLOGY Wetland Hydrology Indic Primary Indicators (any one Surface Water (A1) High Water Table (A2)	cators: e is sufficient		☐ Inundation ☐ Sparsely Ve	getated Con	_		Water Si Drainage Oxidized	tained Leaves (B9) e Patterns (B10) Rhizospheres along Living Roots (C3)
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HYDROLOGY Wetland Hydrology Indicators (any one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	cators: e is sufficien		Inundation Sparsely Ve Marl Deposi Hydrogen S	getated Con ts (B15) ulfide Odor (cave Surfac		Water St □ Drainage □ Oxidized ☑ Presence □ Salt Dep	cained Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) osits (C5)
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