WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Denali Bo	orough Sampling Date: 06-Aug-13
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T174_10
	gator(s): WAD, RWM		Landform (h	illside, terrac	ee, hummocks etc.): Hillside
	relief (concave, convex, none): concave		_	.6 % / 10.0	
	gion : Interior Alaska Mountains	l at :	63.36805903		Long.: -148.571716905 Datum: WGS84
		Lat	03.30003900	09	
	ap Unit Name:		0 V-	s • No O	NWI classification: Upland
Are \	matic/hydrologic conditions on the site typical for this /egetation , Soil , or Hydrology /egetation , Soil , or Hydrology MARY OF FINDINGS - Attach site map sho	significan naturally p wing sa	tly disturbed? problematic?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes No No eded, explain any answers in Remarks.) Iormal Circumstances" present? Yes No
	()		Is	s the Sam	pled Area
				vithin a W	-
	Wetland Hydrology Present? Yes No	<i></i>			
	etation - Use scientific names of plants. I	ist all sp		e plot.	Dominance Test worksheet:
	e Stratum	% Cove	r Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)
1.		0	_ 🖳		Total Number of Dominant
2.		0			Species Across All Strata: 4 (B)
3.			- =		Percent of dominant Species
4.		0	-		That Are OBL, FACW, or FAC: 100.0% (A/B)
5.		0	_		Prevalence Index worksheet:
	Total Cove		_		Total % Cover of: Multiply by:
Sap	oling/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cove	r: <u>0</u>	OBL Species
1.	Vaccinium uliginosum	20	✓	FAC	FACW Species <u>25</u> x 2 = <u>50</u>
2.	Ledum decumbens	10		FACW	FAC Species <u>80</u> x 3 = <u>240</u>
3.	Vaccinium vitis-idaea	5		FAC	FACU Species <u>3</u> x 4 = <u>12</u>
4.	Salix pulchra	15	_	FACW	UPL Species0 x 5 =0
5.	Empetrum nigrum	15	✓	FAC	Column Totals: <u>108</u> (A) <u>302</u> (B)
6.	Salix reticulata	10		FAC	
7.		0	_ 🖳		Prevalence Index = B/A =
8.		0	_		Hydrophytic Vegetation Indicators:
9.		0	_		✓ Dominance Test is > 50%
10.		0	_		Prevalence Index is ≤3.0
Hei	Total Cover rb Stratum 50% of Total Cover:		0% of Total Cove	er: <u>15</u>	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1.	Carex bigelowii	30	_	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Bistorta plumosa			FACU	¹ Indicators of hydric soil and wetland hydrology must
3.	Pedicularis capitata			FACU	be present, unless disturbed or problematic.
4.					Plot size (radius, or length x width)
		•			% Cover of Wetland Bryophytes
		•	- =		(Where applicable)
					% Bare Ground
			-		Total Cover of Bryophytes
			-		
10.	Total Cove	_ <u> </u>	_		Hydrophytic Vegetation
	i otal Cove		_	r: 6.6	Present? Yes No
	50% of Total Cover:	16.5 20	% of Total Cove	ı. n.n	Fresent: ICS © NO ©

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SOIL Sampling Point: SW13 T174 10

Geber (meiet) 96 Celor (meiet) 96 Celor (meiet) 96 Type 1 Loc 2 Fixture Remarks 100 Items Organics 1-5	•	ion: (Describe to	Matrix		ment the in		ox Featu		awisj		
0-4 100 First-Cogures 4-5 100 First-Cogures 5-7 107R 3/2 100 Silv Oev Joans 7-16 2.5Y 3/2 90 2.5Y 4/3 10 C PL Silv Oev Joans 7-17 Silv Oev Joans Silv Oev Joans 7-18 Silv Oev Joans Silv Oev Joans 7-19 Silv Oev Joans Silv Oev Joans 7-10 Silv Oev Joans Silv Oev Joans Silv Oev Joans 7-10 Silv Oev Joans Silv Oev Joans Silv Oev Joans 7-10 Silv Oev Joans Si	Depth (inches)	Color (me	oist)		Color (n	noist)	%	Type ¹	Loc ²	Texture	Remarks
Silv Clay Learn Silv Clay	0-4									Fibric Organics	
Type: C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining, RC=Root Channel. M=Matrix Indicators:	4-5			100						Hemic Organics	
Type: C-Concentration. D=Depletion. RM=Reduced Matrix Location: PL=Pore Lining. RC=Root Channel. M=Matrix	5-7	10YR	3/2	100			-			Silty Clay Loam	
Histosol or Histel (A1)	7-16	2.5Y	3/2	90	2.5Y	4/3	10		PL	Silty Clay Loam	with coarse sand
Histosol or Histel (A1)											
Histosol or Histel (A1)											_
Histosol or Histel (A1)											
Histosoul or Histel (A1) Histic Epipedom (A2) Histic Epipedom (A2) Histic Epipedom (A2) Alaska Alpine swales (TA5) Histic Epipedom (A2) Alaska Gleyed Without Hue SY or Redder Underlying Layer Underlying Layer Hydrogen Sulfide (A4) Thick Dark Surface (A12) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed Pores (A15) **Give details of color change in Remarks **Setrictive Layer (if present): Type: si cl lo Depth (inches): 5 **Branks: **PROLOGY** **Fetland Hydrology Indicators: Timurary Indicators (any one is sufficient) High Water Table (A2) Surface Water (A1) High Water Table (A2) Saturation (A3) Mari Deposits (B15) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Dirth Deposits (B3) Algal Mat or Crust (B4) Drift Deposits (B3) Under Marks (B1) Depth (inches): Surface Water Present? Algal Mat or Crust (B4) FAC-neutral Test (D5) Reded Observations: Water Table Present? Yes No Depth (inches): 8 Wettland Hydrology Present? Y	Type: C=Cor	ncentration. D	=Depletio	ı. RM=Reduc				_		nnel. M=Matrix	
Histic Epipedon (A2)	_							4	oils:	1	
Thick Dark Surface (A12) Alaska Redox With 2.5' Hue Other (Explain in Remarks)	_	` ,						•			Hue 5Y or Redder
Thick Dark Surface (A12) Alaska Gleyed (A13) Alaska Redox (A14) Alaska Redox (A15) Alaska Gleyed Pores (A15) **Give details of color change in Remarks** **Betrictive Layer (if present): Type: si cl lo Depth (inches): 5 **Emarks: **PDROLOGY **POROLOGY **Porology Indicators: **Porology I	= ::					•	•	•		1	orks)
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Alaska Gleyed Pores (A15) 4 Give details of color change in Remarks estrictive Layer (if present): Type: si cl lo Depth (inches): 5 emarks: **POROLOGY** **Jetland Hydrology Indicators: **Primary Indicators (two or more are required) **Primary Indicators (anv one is sufficient) **Surface Water (A1) **High Water Table (A2) **Sparsely Vegetated Concave Surface (B8) **Daylor Saturation (A3) **Water Marks (B1) **Water Marks (B1) **Dry-Season Water Table (C2) **Define Hydrogen Sulfide Odor (C1) **Sediment Deposits (B2) **Dry-Season Water Table (C2) **Dry-Season Water (_										, 3,,
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