WETLAND DETERMINATION DATA FORM - Alaska Region

Annlica	/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Denali Bo	rough Sampling Date: 08-Aug-13
'PP"OC	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T170_08
	gator(s): WAD, RWM		Landform (hills	ide, terrac	e, hummocks etc.): Toeslope
Local r	relief (concave, convex, none): hummocky				° Elevation: 822
Subrec	gion : Interior Alaska Mountains	Lat.: (63.426028609		Long.: -148.643919349 Datum: WGS84
	p Unit Name:	_			NWI classification: PSS1B
	matic/hydrologic conditions on the site typical for this tir	ne of vear	Yes (• No ()	(If no, explain in Remarks.)
			disturbed?		ormal Circumstances" present? Yes No
			oblematic?		ded, explain any answers in Remarks.)
				·	•
SUMI	MARY OF FINDINGS - Attach site map show		ipiing point	ocations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes No No		le f	ho Sam	pled Area
	Hydric Soil Present? Yes No			thin a W	
	Wetland Hydrology Present? Yes No		WII	liiii a vv	etianu ?
Rem	arks:				
/F.O.F	TATION			1 .	
/EGE	ETATION - Use scientific names of plants. Lis	st all spe	cies in the p	olot.	
		Absolute	Dominant		Dominance Test worksheet:
<u>Tre</u> 1.	e Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC:4 (A)
					Total Number of Dominant
2. 3.					Species Across All Strata: 4 (B)
4.					Percent of dominant Species That Are OBL, FACW, or FAC: 100,0% (A/B)
5.					
	Total Cover:	0			Prevalence Index worksheet:
	i otai covei.	U			Total % Cover of: Multiply by:
Sap			of Total Cover:	0	Total % Cover of: Multiply by: OBL Species 0 x1 = 0
	ling/Shrub Stratum 50% of Total Cover:	0 20%	_		OBL Species <u>0</u> x 1 = <u>0</u>
1.	Betula nana Vaccinium uliginosum	0 20% 45	of Total Cover:	FAC	OBL Species 0 x 1 = 0 FACW Species 11 x 2 = 22
1. 2.	Betula nana Vaccinium uliginosum	0 20% 45 15	_	FAC	OBL Species <u>0</u> x 1 = <u>0</u>
1. 2. 3.	Betula nana Vaccinium uliginosum Ledum decumbens	20% 45 15 5	_	FAC	OBL Species 0 x 1 = 0 FACW Species 11 x 2 = 22 FAC Species 80 x 3 = 240
1. 2. 3.	Betula nana Vaccinium uliginosum Ledum decumbens Empetrum nigrum	0 20% 45 15 5 10	_	FAC FACW	OBL Species 0 x 1 = 0 FACW Species 11 x 2 = 22 FAC Species 80 x 3 = 240 FACU Species 0 x 4 = 0 UPL Species 0 x 5 = 0
1. 2. 3. 4.	Betula nana Vaccinium uliginosum Ledum decumbens Empetrum nigrum	20% 45 15 5 10 0	_	FAC FACW	OBL Species 0 x 1 = 0 FACW Species 11 x 2 = 22 FAC Species 80 x 3 = 240 FACU Species 0 x 4 = 0 UPL Species 0 x 5 = 0 Column Totals: 91 (A) 262 (B)
1. 2. 3. 4. 5.	Betula nana Vaccinium uliginosum Ledum decumbens Empetrum nigrum	20% 45 15 5 10 0	_	FAC FACW	OBL Species 0 x 1 = 0 FACW Species 11 x 2 = 22 FAC Species 80 x 3 = 240 FACU Species 0 x 4 = 0 UPL Species 0 x 5 = 0
1. 2. 3. 4. 5.	Betula nana Vaccinium uliginosum Ledum decumbens Empetrum nigrum	0 20% 45 15 5 10 0 0	_	FAC FACW	OBL Species 0 $x 1 = 0$ FACW Species 11 $x 2 = 22$ FAC Species 80 $x 3 = 240$ FACU Species 0 $x 4 = 0$ UPL Species 0 $x 5 = 0$ Column Totals: 91 (A) 262 (B) Prevalence Index = B/A = 2.879
1. 2. 3. 4. 5. 6. 7.	Betula nana Vaccinium uliginosum Ledum decumbens Empetrum nigrum	0 20% 45 15 5 10 0 0	_	FAC FACW	OBL Species 0 x1 = 0 FACW Species 11 x2 = 22 FAC Species 80 x3 = 240 FACU Species 0 x4 = 0 UPL Species 0 x5 = 0 Column Totals: 91 (A) 262 (B) Prevalence Index = B/A = 2.879 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%
1. 2. 3. 4. 5. 6. 7. 8.	Betula nana Vaccinium uliginosum Ledum decumbens Empetrum nigrum	0 20% 45 15 5 10 0 0 0 0 0 0	_	FAC FACW	OBL Species 0 $x 1 = 0$ FACW Species 11 $x 2 = 22$ FAC Species 80 $x 3 = 240$ FACU Species 0 $x 4 = 0$ UPL Species 0 $x 5 = 0$ Column Totals: 91 (A) 262 (B) Prevalence Index = B/A = 2.879
1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	Betula nana Vaccinium uliginosum Ledum decumbens Empetrum nigrum Total Cover:	0 20% 45 15 5 10 0 0 0 0 0 0 0 75		FAC FACW FAC	OBL Species 0 $x 1 = 0$ FACW Species 11 $x 2 = 22$ FAC Species 80 $x 3 = 240$ FACU Species 0 $x 4 = 0$ UPL Species 0 $x 5 = 0$ Column Totals: 91 (A) 262 (B) Prevalence Index = B/A = 2.879 Hydrophytic Vegetation Indicators: Dominance Test is > 50% Prevalence Index is ≤ 3.0 Morphological Adaptations 1 (Provide supporting data in
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. Her	Betula nana Vaccinium uliginosum Ledum decumbens Empetrum nigrum Total Cover: 50% of Total Cover: 50% of Total Cover:	0 20% 45 15 5 10 0 0 0 0 0 0 75 37.5 20%	✓ ✓ □ □ □ □ □	FAC FACW FAC	OBL Species 0 $x 1 = 0$ FACW Species 11 $x 2 = 22$ FAC Species 80 $x 3 = 240$ FACU Species 0 $x 4 = 0$ UPL Species 0 $x 5 = 0$ Column Totals: 91 (A) 262 (B) Prevalence Index = B/A = 2.879 Hydrophytic Vegetation Indicators: Dominance Test is > 50% Prevalence Index is ≤ 3.0 Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet)
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1. 2. 3. 4. 5. 6. 7. 8. 9. 10. Her 1. 2.	Betula nana Vaccinium uliginosum Ledum decumbens Empetrum nigrum Total Cover: 50% of Total Cover:	0 20% 45 15 5 10 0 0 0 0 0 0 75 37.5 20%	✓ ✓ □ □ □ □ □	FAC FACW FAC 15 FAC FACW	OBL Species 0 $x 1 = 0$ FACW Species 11 $x 2 = 22$ FAC Species 80 $x 3 = 240$ FACU Species 0 $x 4 = 0$ UPL Species 0 $x 5 = 0$ Column Totals: 91 (A) 262 (B) Prevalence Index = B/A = 2.879 Hydrophytic Vegetation Indicators: Dominance Test is > 50% Prevalence Index is ≤ 3.0 Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet)
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. Her 1. 2. 3.	Betula nana Vaccinium uliginosum Ledum decumbens Empetrum nigrum Total Cover: 50% of Total Cover: 50% of Total Cover: Carex bigelowii Pedicularis labradorica Rubus chamaemorus	0 20% 45 15 5 10 0 0 0 0 0 75 37.5 20%	✓ ✓ □ □ □ □ □	FAC FACW FAC 15 FAC	OBL Species 0 $x 1 = 0$ FACW Species 11 $x 2 = 22$ FAC Species 80 $x 3 = 240$ FACU Species 0 $x 4 = 0$ UPL Species 0 $x 5 = 0$ Column Totals: 91 (A) 262 (B) Prevalence Index = B/A = 2.879 Hydrophytic Vegetation Indicators: Dominance Test is > 50% Prevalence Index is ≤ 3.0 Morphological Adaptations ≤ 3.0 Morphological Adaptations ≤ 3.0 Problematic Hydrophytic Vegetation ≤ 3.0 Total Carbon Supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ≤ 3.0 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. Her 1. 2. 3. 4.	Betula nana Vaccinium uliginosum Ledum decumbens Empetrum nigrum Total Cover: 50% of Total Cover: 50% of Total Cover: Carex bigelowii Pedicularis labradorica Rubus chamaemorus	0 20% 45 15 5 10 0 0 0 0 0 75 37.5 20% 10 1 5 0	✓ ✓ □ □ □ □ □	FAC FACW FAC 15 FAC FACW	OBL Species 0 x 1 = 0 FACW Species 11 x 2 = 22 FAC Species 80 x 3 = 240 FACU Species 0 x 4 = 0 UPL Species 0 x 5 = 0 Column Totals: 91 (A) 262 (B) Prevalence Index = B/A = 2.879 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤ 3.0 \square Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet) \square Problematic Hydrophytic Vegetation 1 (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
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US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW13_T170_08

(inches)	Color (me	oist)	%	Color (moist)	%	Type 1 Loc	. 2 T e	exture	Remarks	
0-8			100				Fibric Orga	anics		
8-12			100				Sapric Org	anics		
12-16	2.5Y	3/1	100				Silt Loam			
Type: C=Conc	centration. D	=Depletion	. RM=Reduce	d Matrix ² Locatio	n: PL=Pore Li	ining. RC=Root	Channel. M=M	atrix		
lydric Soil Inc	dicators:			Indicators for P	4	lydric Soils: ³				
Histosol or H	Histel (A1)			Alaska Color C				eyed Without Hu	ie 5Y or Redder	
Histic Epipe	. ,			Alaska Alpine			Underlyin	- ,	c)	
☐ Hydrogen Si	` '			Alaska Redox \	With 2.5Y Hue	2	□ Other (Ex	plain in Remarks	5)	
_	Surface (A12))		³ One indicator of	f hydrophytic v	vegetation, one	primary indicat	or of wetland hy	ydrology,	
✓ Alaska Gleye✓ Alaska Redo				and an appropria	te landscape p	position must b	e present			
_	ed Pores (A1	.5)		4 Give details of o	color change in	n Remarks				
estrictive Layer	•									
Type: seaso							Hydric	Soil Present?	Yes • No C)
							Tryunc .	Jon Frederic:	163 9 110 9	•
Depth (inche	es): 16									
Depth (Inche	es): 16									
	es): 16									
emarks:	GY .									
YDROLOG	SY ology Indic								ators (two or more are r	equired)
YDROLOG Vetland Hydro Primary Indicato	GY blogy Indica ors (any one		t)					Water Stain	ned Leaves (B9)	equired)
YDROLOG Vetland Hydro Primary Indicato Surface Wa	GY plogy Indicators (any one later (A1)		t)			al Imagery (B7)		Water Stain Drainage Pa	ned Leaves (B9) atterns (B10)	
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YDROLOG Vetland Hydro Primary Indicato Surface Wa High Water Saturation (Water Mark	blogy Indicators (any one later (A1) Table (A2) (A3) ks (B1)	is sufficient	t)	Sparsely Veg Marl Deposit Hydrogen Su	getated Concar s (B15) ulfide Odor (C1	ve Surface (B8)		Water Stain Drainage Pa Oxidized Rh Presence of Salt Deposit	ned Leaves (B9) atterns (B10) nizospheres along Living f Reduced Iron (C4) ts (C5)	
YDROLOG Vetland Hydro Primary Indicato Surface Wa V High Water Saturation (Water Mark	blogy Indicators (any one later (A1) or Table (A2) (A3) ks (B1) Deposits (B2)	is sufficient	t)	Sparsely Veg Marl Deposit Hydrogen St Dry-Season	getated Concar is (B15) ulfide Odor (C1 Water Table (G	ve Surface (B8) 1) C2)		Water Stain Drainage Pa Oxidized Rh Presence of Salt Deposi	ned Leaves (B9) atterns (B10) nizospheres along Living f Reduced Iron (C4) ts (C5) Stressed Plants (D1)	
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