WETLAND DETERMINATION DATA FORM - Alaska Region

Annlic:	t/Site: Susitna-Watana Hydroelectric Project	B	orough/City:	Matanusk	ca-Susitna Borough Sampling Date: 05-Aug-13			
, ,bbo.	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T100_07			
	gator(s): BAB		Landform (hillside, terrace, hummocks etc.): Swale					
Local	relief (concave, convex, none): concave		Slope:	% / 0.8				
	gion : Copper River Basin	lat: 6	· 62.618926511		Long.: -147.416552883 Datum: NAD83			
	ap Unit Name:		. V	■ N= ○	NWI classification: PEM1E			
	matic/hydrologic conditions on the site typical for this ti /egetation \Box , Soil \Box , or Hydrology \Box :	•	? Yes disturbed?	No O Are "N	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○			
		naturally pr	oblematic?		eded, explain any answers in Remarks.)			
		•		·	, ,			
SUM	MARY OF FINDINGS - Attach site map show		ipling point	locations	s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes No No		le	tha Sam	upled Area			
	Hydric Soil Present? Yes ● No C		Is the Sampled Area within a Wetland? Yes No No					
	Wetland Hydrology Present? Yes No C)	WI	unin a vv	etiand? Tes © No ©			
Rem	arks: 25ft wide swale connecting two PUBHs.							
VEGI	ETATION - Use scientific names of plants. Li	st all spe	cies in the	plot.				
	•	Absolute	Dominant	•	Dominance Test worksheet:			
Tre	e Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 5 (A)			
1.		0			That are OBL, FACW, or FAC:5(A) Total Number of Dominant			
2.		0			Species Across All Strata:5 (B)			
3.		0			Percent of dominant Species			
4.		0			That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.		0			Prevalence Index worksheet:			
	Total Cover				Total % Cover of: Multiply by:			
Sap	oling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species 43 x 1 = 43			
		<u>0</u> 20%	of Total Cover:	0 FACW	OBL Ossailas			
1.	Salix fuscescens				OBL Species <u>43</u> x 1 = <u>43</u>			
1.	Salix fuscescens Betula nana	5 5	✓	FACW	OBL Species 43 x 1 = 43 FACW Species 7 x 2 = 14			
1.	Salix fuscescens Betula nana Vaccinium uliginosum	5 5 3	Y	FACW	OBL Species 43 x 1 = 43 FACW Species 7 x 2 = 14 FAC Species 16 x 3 = 48			
1. 2. 3.	Salix fuscescens Betula nana Vaccinium uliginosum	5 5 3 2	Y	FACW FAC	OBL Species 43 x 1 = 43 FACW Species 7 x 2 = 14 FAC Species 16 x 3 = 48 FACU Species 0 x 4 = 0 UPL Species 0 x 5 = 0			
1. 2. 3. 4.	Salix fuscescens Betula nana Vaccinium uliginosum Picea mariana	5 5 3 2 0	Y	FACW FAC	OBL Species 43 x 1 = 43 FACW Species 7 x 2 = 14 FAC Species 16 x 3 = 48 FACU Species 0 x 4 = 0 UPL Species 0 x 5 = 0 Column Totals: 66 (A) 105 (B)			
1. 2. 3. 4. 5.	Salix fuscescens Betula nana Vaccinium uliginosum Picea mariana	5 5 3 2 0	Y	FACW FAC	OBL Species 43 x 1 = 43 FACW Species 7 x 2 = 14 FAC Species 16 x 3 = 48 FACU Species 0 x 4 = 0 UPL Species 0 x 5 = 0			
1. 2. 3. 4. 5.	Salix fuscescens Betula nana Vaccinium uliginosum Picea mariana	5 5 3 2 0	Y	FACW FAC	OBL Species 43 x 1 = 43 FACW Species 7 x 2 = 14 FAC Species 16 x 3 = 48 FACU Species 0 x 4 = 0 UPL Species 0 x 5 = 0 Column Totals: 66 (A) 105 (B)			
1. 2. 3. 4. 5. 6. 7.	Salix fuscescens Betula nana Vaccinium uliginosum Picea mariana	5 5 3 2 0 0 0	Y	FACW FAC	OBL Species 43 x 1 = 43 FACW Species 7 x 2 = 14 FAC Species 16 x 3 = 48 FACU Species 0 x 4 = 0 UPL Species 0 x 5 = 0 Column Totals: 66 (A) 105 (B) Prevalence Index = B/A = 1.591			
1. 2. 3. 4. 5. 6. 7. 8.	Salix fuscescens Betula nana Vaccinium uliginosum Picea mariana	5 5 3 2 0 0 0	Y	FACW FAC	OBL Species 43 x 1 = 43 FACW Species 7 x 2 = 14 FAC Species 16 x 3 = 48 FACU Species 0 x 4 = 0 UPL Species 0 x 5 = 0 Column Totals: 66 (A) 105 (B) Prevalence Index = B/A = 1.591			
1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	Salix fuscescens Betula nana Vaccinium uliginosum Picea mariana Total Cover	5 5 3 2 0 0 0 0 0		FACW FAC FAC FACW	OBL Species 43 $\times 1 = 43$ FACW Species 7 $\times 2 = 14$ FAC Species 16 $\times 3 = 48$ FACU Species 0 $\times 4 = 0$ UPL Species 0 $\times 5 = 0$ Column Totals: 66 (A) 105 (B) Prevalence Index = B/A = 1.591 Hydrophytic Vegetation Indicators: V 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. Hel	Salix fuscescens Betula nana Vaccinium uliginosum Picea mariana Total Cover: 50% of Total Cover:	5 5 3 2 0 0 0 0 0 0 0	Y	FACW FAC FAC FACW : 3	OBL Species 43 $\times 1 = 43$ FACW Species 7 $\times 2 = 14$ FAC Species 16 $\times 3 = 48$ FACU Species 0 $\times 4 = 0$ UPL Species 0 $\times 5 = 0$ Column Totals: 66 (A) 105 (B) Prevalence Index = B/A = 1.591 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	Salix fuscescens Betula nana Vaccinium uliginosum Picea mariana Total Cover: 50% of Total Cover:	5 5 3 2 0 0 0 0 0 0 0 0 0 7.5 20%		FACW FAC FAC FACW SOURCE SOU	OBL Species 43 $\times 1 = 43$ FACW Species 7 $\times 2 = 14$ FAC Species 16 $\times 3 = 48$ FACU Species 0 $\times 4 = 0$ UPL Species 0 $\times 5 = 0$ Column Totals: 66 (A) 105 (B) Prevalence Index = B/A = 1.591 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) Problematic Hydrophytic Vegetation 1 (Explain)			
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. Her 1. 2.	Salix fuscescens Betula nana Vaccinium uliginosum Picea mariana Total Cover: 50% of Total Cover: Equisetum fluviatile Calamagrostis canadensis	5 5 3 2 0 0 0 0 0 0 0 0 7.5 20%		FACW FAC FAC FACW Control of the co	OBL Species 43 $\times 1 = 43$ FACW Species 7 $\times 2 = 14$ FAC Species 16 $\times 3 = 48$ FACU Species 0 $\times 4 = 0$ UPL Species 0 $\times 5 = 0$ Column Totals: 66 (A) 105 (B) Prevalence Index = B/A = 1.591 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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SOIL Sampling Point: SW13_T100_07

Profile Descript		he depth nee	ded to docum	nent the indicator or co	onfirm the ab		cators)		
Depth (inches)							2	Texture	Remarks
	Color (moi	st)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	<u>Loc</u> ²		Remarks
0-16			100					Fibric Organics	
							-		
¹Type: C=Co	ncentration. D=	Depletion. F	₹M=Reduce	ed Matrix ² Location				nnel. M=Matrix	
Hydric Soil I	Indicators:			Indicators for Pr	roblemati	c Hydric S	oils: ³		
✓ Histosol o	or Histel (A1)			Alaska Color Change (TA4)				Alaska Gleyed Without H	ue 5Y or Redder
Histic Epi	pedon (A2)			Alaska Alpine s	swales (TA	.5)		Underlying Layer	
Hydrogen	Sulfide (A4)			Alaska Redox With 2.5Y Hue Uther (Explain					(S)
☐ Thick Dar	rk Surface (A12)			300000000000000000000000000000000000000	Ch. January			to decrease and an all his	
Alaska Gle	eyed (A13)			One indicator of and an appropria				nary indicator of wetland h esent	ydrology,
Alaska Re	edox (A14)						•	23CHC	
Alaska Gle	eyed Pores (A15)		⁴ Give details of o	olor chang	e in Remark	ks		
Restrictive Lay	ver (if present):								- 0
Type: froz	zen							Hydric Soil Present	? Yes ● No O
Depth (inc	:hes): 30								
HYDROLO	OGY								
Wetland Hyd	drology Indicat	ors:	1			1		Secondary Indi	cators (two or more are required)
Primary Indica	ators (any one is	sufficient)						Water Stai	ned Leaves (B9)
	Water (A1)			Inundation V		_		_	Patterns (B10)
	ter Table (A2)			Sparsely Veg	jetated Cor	ncave Surfa	ıce (B8)		hizospheres along Living Roots (C3)
Saturatio	. ,			Marl Deposit	, ,				of Reduced Iron (C4)
Water Ma				Hydrogen Su	ılfide Odor	(C1)		Salt Depos	
l —	t Deposits (B2)			Dry-Season \		. ,			Stressed Plants (D1)
_ :	oosits (B3)			Uther (Expla	in in Rema	ırks)		_	ic Position (D2)
	t or Crust (B4)								quitard (D3)
Iron Depo	• ,								graphic Relief (D4)
	Soil Cracks (B6)							✓ FAC-neutra	ıl Test (D5)
Field Observ									
Surface Wate	er Present?	Yes O		Depth (inche	es):				
Water Table I	Present?	Yes 💿	No \bigcirc	Depth (inche	es): 3		Wetlar	nd Hydrology Presen	t? Yes 💿 No 🔾
Saturation Pro (includes cap		Yes	No	Depth (inche	es): 0				
Describe Reco	rded Data (strea	ım gauge, n	nonitor well	l, aerial photos, pre	vious inspe	ection) if av	ailable:		
Remarks:									
	gets flooded. so	il deposited	on surface	<u>.</u>					
	94								

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