WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	Во	rough/City:	Matanusk	a-Susitna Borough Sampling Date	: 09-Jul-13
Applica	ant/Owner: Alaska Energy Authority					SW13_T107_09
	gator(s): SLI, SCB	L	andform (hill	side. terrac	e, hummocks etc.): Hillside	
	elief (concave, convex, none): flat				° Elevation: 722	
						Datum MCC04
_	jion : Interior Alaska Mountains	Lat.: <u>6</u>	2.857914686	<u> </u>		Datum: WGS84
	p Unit Name:				NWI classification: PEM	1E
Are V Are V	natic/hydrologic conditions on the site typical for this regetation , Soil , or Hydrology regetation , Soil , or Hydrology MARY OF FINDINGS - Attach site map sho	significantly naturally pro pwing samp	disturbed?	(If nee	ded, explain any answers in Remarks	
	Hydrophytic Vegetation Present? Yes No		le	tha Sam	pled Area	
	Hydric Soil Present? Yes No	\supset				
	Wetland Hydrology Present? Yes No	\supset	WI	thin a W	etiand?	
	arks: standing water present, litter and/or moss und standing water. ETATION - Use scientific names of plants. I				munity, suspect high water levels as c	alcan and equsyl in
	ose scientine names of plants.	•			Dominance Test worksheet:	
Tro	e Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species	
1.	e Stratum	0			That are OBL, FACW, or FAC:	3(A)
2.					Total Number of Dominant	(D)
3.					Species Across All Strata:	3 (B)
4.		- 0			Percent of dominant Species That Are OBL, FACW, or FAC:	100.0% (A/B)
5.						100.070 (712)
0.	Total Cove				Prevalence Index worksheet:	L. L
C			of Total Cover:	0	Total % Cover of: Multip	
Sap	ling/Shrub Stratum 50% of Total Cover:		_	0	OBL Species 0 x 1 =	
1.	Salix pulchra	5	✓	FACW	FACW Species 6 x 2 =	
2.	Betula nana	5	<u>~</u>	FAC	FAC Species 75 x 3 =	
3.	Spiraea stevenii	0.1		FACU	FACU Species0.1 x 4 =	000
4.	Picea mariana	0.1		FACW	UPL Species0 x 5 =	=
5.					Column Totals: 81.1 (A)	_237.4_ (B)
6.		0			Prevalence Index = B/A =	2.027
7.		0			Prevalence index – B/A –	2.927
8.		0			Hydrophytic Vegetation Indicators:	
9.		0			✓ Dominance Test is > 50%	
10.		0			✓ Prevalence Index is ≤3.0	
Her	Total Cove b Stratum 50% of Total Cover: _			:2.04	Morphological Adaptations ¹ (Provide Remarks or on a separate sheet)	
1.	Calamagrostis canadensis	60	✓	FAC	Problematic Hydrophytic Vegetation	າ ໋ (Explain)
2.	Equisetum sylvaticum	10		FAC	¹ Indicators of hydric soil and wetland hy	
3.	Petasites frigidus	_ 1		FACW	be present, unless disturbed or problem	atic.
4.	Cornus suecica			FAC	Plot size (radius, or length x width)	_2m x 5m
5.					% Cover of Wetland Bryophytes	<u> </u>
6.		0			(Where applicable)	
7.		0			% Bare Ground	0
8.		0			Total Cover of Bryophytes	_10
9.		0				
10.					Hydrophytic	
	Total Cove		·		Vegetation Present? Yes No)
	50% of Total Cover:	35.55 20% c	of Total Cover:	14.22	Present? Yes • No	
Rem	arks: trace of unidentified ribes					

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SOIL Sampling Point: SW13_T107_09

Depth —	4atrix		Red					
(inches) Color (mo	ist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
							-	
								-
							•	
							-	_
Type: C=Concentration. D=	Depletion.	RM=Reduc	ed Matrix ² Location	: PL=Por	e Lining. RO	=Root Cha	nnel. M=Matrix	_
ydric Soil Indicators:	<u>'</u>		Indicators for Pro					
Histosol or Histel (A1)			Alaska Color Ch		4		Alaska Gleyed Without H	lue 5Y or Redder
Histic Epipedon (A2)			Alaska Alpine sv		•		Underlying Layer	ide of an include.
Hydrogen Sulfide (A4)			Alaska Redox W			✓	Other (Explain in Remar	ks)
Thick Dark Surface (A12)	ı							
Alaska Gleyed (A13)			³ One indicator of I and an appropriate				nary indicator of wetland	hydrology,
Alaska Redox (A14)					•		esent	
Alaska Gleyed Pores (A15	5)		⁴ Give details of co	lor chang	e in Remarl	KS		
estrictive Layer (if present):								
							Hydric Soil Present	t? Yes 💿 No 🔾
Type:								
Depth (inches):	rophytic ve	getation an	d standing water					
Depth (inches): emarks: sume hydric soil due to hyd	rophytic ve	getation an	d standing water					
Depth (inches): emarks: sume hydric soil due to hyd		getation an	d standing water				Secondary Ind	icators (two or more are required)
Depth (inches): emarks: sume hydric soil due to hyd YDROLOGY Vetland Hydrology Indica	tors:		d standing water					icators (two or more are required) ined Leaves (B9)
Depth (inches): emarks: sume hydric soil due to hyd YDROLOGY (etland Hydrology Indica	tors:			sible on A	erial Image	ery (B7)	Water Sta	icators (two or more are required) ined Leaves (B9) Patterns (B10)
Depth (inches): emarks: sume hydric soil due to hyd YDROLOGY (etland Hydrology Indica	tors:		☐ Inundation Vi		_		Water Sta	ined Leaves (B9)
Depth (inches): emarks: sume hydric soil due to hyd YDROLOGY Yetland Hydrology Indica rimary Indicators (any one i	tors:			tated Co	_		Water Sta Drainage Oxidized F	ined Leaves (B9) Patterns (B10)
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Pepth (inches): emarks: sume hydric soil due to hyd YDROLOGY Yetland Hydrology Indica rimary Indicators (any one i Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	tors:		Inundation Vi	etated Col (B15) fide Odor /ater Tabl	ncave Surfa (C1) e (C2)		Water Sta Drainage Oxidized F Presence Salt Depo Stunted o Geomorph Shallow A	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3 of Reduced Iron (C4) sits (C5) r Stressed Plants (D1) nic Position (D2) quitard (D3)
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Depth (inches): emarks: sume hydric soil due to hyd YDROLOGY Tetland Hydrology Indication of the properties of the p	tors: s sufficient) Yes • Yes •	No O	Inundation Vi Sparsely Vege Marl Deposits Hydrogen Sul Dry-Season W Other (Explain	etated Cor (B15) fide Odor /ater Tabl in in Rema s): 3	ncave Surfa (C1) e (C2)	ce (B8)	Water Sta Drainage Oxidized I Presence Salt Depo Stunted o Geomorph Shallow A Microtopo	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3 of Reduced Iron (C4) sits (C5) r Stressed Plants (D1) nic Position (D2) quitard (D3) graphic Relief (D4) al Test (D5)
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