WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	ct/Site: Susitna-Watana Hydroelectric Project		Boro	ugh/City:	Denali Bo	rough Sampling Date: 31-Jul-13		
Applic	ant/Owner: Alaska Energy Authority	Sampling Point: SW13_T158_02						
	igator(s): CTS, AMD	e, hummocks etc.): Shoreline						
	relief (concave, convex, none): concave	% / 1.8	B ° Elevation: 727					
	gion : Interior Alaska Mountains	l at	pe: 37032556		Long.: -148.763739228 Datum: NAD83			
			70323300					
	ap Unit Name:				<u> </u>	NWI classification: PEM1/SS1E		
	imatic/hydrologic conditions on the site typical for				● No ○	(If no, explain in Remarks.) Ormal Circumstances" present? Yes ● No ○		
	Vegetation ☐ , Soil ☐ , or Hydrology	_	•	sturbed?		omai on cametanece procent.		
Are \	√egetation ☐ , Soil ☐ , or Hydrology	naturall	y proble	ematic?	(If nee	eded, explain any answers in Remarks.)		
SUM	MARY OF FINDINGS - Attach site map	showing s	ampli	ng point	locations	s, transects, important features, etc.		
	Hydrophytic Vegetation Present? Yes Yes	No O						
	Hydric Soil Present? Yes ●	the Sam	ne Sampled Area					
	Wetland Hydrology Present? Yes ●	No O	within a Wetland? Yes ● No ○					
Rem	arks:							
/FGI	ETATION -Use scientific names of plar	te lietalle	nocio	s in tho	nlot			
	<u> Piarion - Ose scientific flames of plar</u>				•	Dominance Test worksheet:		
Tre	ee Stratum	Absolu % Cov		ominant Species?	Indicator Status	Number of Dominant Species		
1.		-	0			That are OBL, FACW, or FAC:5(A)		
2.			0			Total Number of Dominant Species Across All Strata: 5 (B)		
3.			0			Percent of dominant Species		
4.			0			That Are OBL, FACW, or FAC:		
5.			0			Prevalence Index worksheet:		
	Total	Cover:				Total % Cover of: Multiply by:		
Saj	pling/Shrub Stratum 50% of Total Cove	r: <u> </u>	otal Cover	0	OBL Species 21.1 x 1 = 21.1			
1	Potulo none		10	✓	FAC	FACW Species 13.1 x 2 = 26.20		
2.	Betula nana Rhododendron tomentosum		10 8		FACW	FAC Species 21 x 3 = 63		
3.	Vaccinium uliginosum		8	V	FAC	FACU Species 0 x 4 = 0		
4.	Empetrum nigrum		2		FAC	UPL Species 0 x 5 = 0		
5.	Andromeda polifolia (IAM)		<u>-</u> 2		OBL			
6.	Salix arbusculoides		1		FACW	Column Totals: <u>55.2</u> (A) <u>110.3</u> (B)		
7.			0			Prevalence Index = B/A = 1.998		
8.			0			Hydrophytic Vegetation Indicators:		
9.			0			✓ Dominance Test is > 50%		
10.			0			✓ Prevalence Index is ≤3.0		
		Cover: 3	1			Morphological Adaptations (Provide supporting data in		
He	rb Stratum 50% of Total Cove			Total Cover	6.2	Remarks or on a separate sheet)		
1.	Carex rotundata		10	✓	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Carex saxatilis		3		FACW	¹ Indicators of hydric soil and wetland hydrology must		
3.	Eriophorum russeolum		1		FACW	be present, unless disturbed or problematic.		
4.	Menyanthes trifoliata		7	✓	OBL	Plot size (radius, or length x width)		
5.	Calamagrostis canadensis		1		FAC	% Cover of Wetland Bryophytes		
6.	Carex aquatilis		.1		OBL	(Where applicable)		
1	Carex magellanica		1		OBL	% Bare Ground		
7.		C	.1		FACW	Total Cover of Bryophytes35		
7. 8.	Pedicularis labradorica			1 1	ODI	1		
	Pedicularis labradorica Eriophorum angustifolium		1		OBL			
8.	Eriophorum angustifolium		0		OBL	Hydrophytic		
8. 9.	Eriophorum angustifolium	Cover: <u>24</u>	0			Hydrophytic Vegetation Present? Yes No		

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SOIL Sampling Point: SW13_T158_02

Profile Descript	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)									
Depth		latrix	— —		dox Featu			. <u>.</u> .		
(inches)	Color (mois	st)		Color (moist)		Type ¹	<u>Loc</u> 2	Texture	Remarks	
0-21			100					Fibric Organics		
			— –							
¹Type: C=Co	ncentration. D=I	Depletion. F	RM=Reduced	d Matrix ² Location	n: PL=Por	e Lining. RC	C=Root Cha	nnel. M=Matrix		
Hydric Soil I	indicators:			Indicators for Pr	roblemati	c Hydric So	oils: ³			
✓ Histosol o	r Histel (A1)		ſ	Alaska Color C		4		Alaska Gleyed Without H	ue 5Y or Redder	
	pedon (A2)		ſ	Alaska Alpine swales (TA5) Underlying Layer						
	Sulfide (A4)		ſ	Alaska Redox \	With 2.5Y I	Hue		Other (Explain in Remark	is)	
	k Surface (A12)									
	eyed (A13)							nary indicator of wetland h	ydrology,	
Alaska Re				and an appropria	te ianasca,	De position i	must be pre	esent		
	eyed Pores (A15))		4 Give details of o	olor chang	e in Remark	(S			
Restrictive Laye	er (if present):									
Type:								Hydric Soil Present	? Yes 💿 No 🔾	
Depth (incl	hes):							•		
Remarks:			_		-					
HYDROLO								<u> </u>		
Wetland Hyd	lrology Indicat	ors:							cators (two or more are required)	
Primary Indica	ators (any one is	sufficient)							ned Leaves (B9)	
	Vater (A1)			Inundation V		_			Patterns (B10)	
✓ High Wat	. ,			Sparsely Veg		ncave Surfac	ce (B8)		hizospheres along Living Roots (C3)	
Saturation	. ,			Marl Deposit	` '				f Reduced Iron (C4)	
Water Ma				Hydrogen Su				Salt Depos		
	t Deposits (B2)			Dry-Season \					Stressed Plants (D1)	
Drift Depo	. ,			Uther (Expla	in in Rema	rks)		✓ Geomorphi		
	or Crust (B4)								juitard (D3)	
☐ Iron Depo	` ,							_	graphic Relief (D4)	
	Soil Cracks (B6)							✓ FAC-neutra	I Test (D5)	
Field Observa		·	(_					
Surface Wate	r Present?	Yes O	_	Depth (inche	es):					
Water Table F	Present?	Yes 💿	No \bigcirc	Depth (inche	es): 11		Wetlar	nd Hydrology Presen	t? Yes • No O	
Saturation Pro (includes capi		Yes	No	Depth (inche	es): 5					
Describe Recor	rded Data (strea	m gauge, n	nonitor well,	, aerial photos, pre	vious inspe	ection) if ava	ailable:			
Remarks:										
Surface water at pond margin, on plot, but not at pit										

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