WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Denali Bo	orough Sampling Date: 30-Jul-13				
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T147_05				
	igator(s): CTS, AMD		Landform (h	Landform (hillside, terrace, hummocks etc.): Flat					
	relief (concave, convex, none): concave		- Slope:						
	gion : Interior Alaska Mountains	l at ·	63.37273323						
			03.3727332						
	ap Unit Name:		- \	<u> </u>	NWI classification: PEM1F				
Are \	matic/hydrologic conditions on the site typical for the second of the se	significar	ntly disturbed?		(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○				
Are \	/egetation ☐ , Soil ☐ , or Hydrology ☐	naturally	problematic?	(If nee	eded, explain any answers in Remarks.)				
SUMI	MARY OF FINDINGS - Attach site map	showing sa	ampling poir	t locations	s, transects, important features, etc.				
	Hydrophytic Vegetation Present? Yes	No O							
		No O		Is the Sampled Area					
	.,,	No O	V	within a Wetland? Yes ● No ○					
Rem	arks: Broad drainage swale/sedge marsh								
/EGI	ETATION - Use scientific names of plant	ts. List all sp Absolut		e plot.	Dominance Test worksheet:				
Tre	ee Stratum	% Cove	er Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)				
1.		0			Total Number of Dominant				
2.		0			Species Across All Strata:				
3.		0	_ 🖳		Percent of dominant Species				
4.		0	_		That Are OBL, FACW, or FAC: 100.0% (A/B)				
5.		0	_		Prevalence Index worksheet:				
	Total C	Cover:	_		Total % Cover of: Multiply by:				
Sap	bling/Shrub Stratum 50% of Total Cover	: _ 0 _ 20	% of Total Cove	r: <u>0</u>	OBL Species15.2 x 1 =15.2				
1.	Salix pulchra	1		FACW	FACW Species 7.2 x 2 = 14.4				
	Salix reticulata			FAC	FAC Species 1.1 x 3 = 3.300				
3.	Andromeda polifolia (IAM)			OBL	FACU Species 0 x 4 = 0				
4.	Salix barclayi		1	FAC	UPL Species 0 x 5 = 0				
5.					Column Totals: <u>23.5</u> (A) <u>32.90</u> (B)				
6.		•							
7.		٥			Prevalence Index = B/A = 1.400				
8.		0			Hydrophytic Vegetation Indicators:				
9.		0			✓ Dominance Test is > 50%				
10.		0			✓ Prevalence Index is ≤3.0				
Hei	Total C rb Stratum 50% of Total Cover		0% of Total Cov	er: 0.44	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)				
1.	Carex aquatilis		_	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)				
2.	Carex saxatilis			FACW	¹ Indicators of hydric soil and wetland hydrology must				
3.	Eriophorum russeolum	1	_	FACW	be present, unless disturbed or problematic.				
4.	Juncus castaneus			FACW	Plot size (radius, or length x width)				
5.	Eriophorum angustifolium			OBL	% Cover of Wetland Bryophytes				
6.	Juncus triglumis			FACW	(Where applicable)				
					% Bare Ground				
			-		Total Cover of Bryophytes				
			_						
	Table			Hydrophytic					
10.		.over: 213	i		Vegetation				
10.	Total C 50% of Total Cover			r: 4.26	Present? Yes • No O				

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SOIL Sampling Point: SW13_T147_05

		the depth nee	ded to docum	cument the indicator or confirm the absence of indicators) Redox Features						
Depth (inches)	Color (mo	iet)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-16		istj	90	Color (Illoist)	-70	Туре	LUC	Fibric Organics	Gravel is 10%	
								-		
								-		
		Depletion.	RM=Reduce	d Matrix ² Location				nnel. M=Matrix		
Hydric Soil I	ndicators:			Indicators for Pr		4	oils:			
✓ Histosol o	. ,			Alaska Color Ch		-		Alaska Gleyed Without H Underlying Layer	ue 5Y or Redder	
Histic Epip	pedon (A2)			Alaska Alpine s						
Hydrogen	Sulfide (A4)			☐ Alaska Redox V	Vith 2.5Y H	lue		Other (Explain in Remarks)		
Thick Dar	k Surface (A12)			3 One indicator of	hd.a.a.ht	ia vaaatatia		ann indicator of watland h	u dvologu.	
Alaska Gle	eyed (A13)			and an appropriat				nary indicator of wetland hesent	nyarology,	
Alaska Re	dox (A14)					·				
Alaska Gle	eyed Pores (A15	5)		⁴ Give details of co	olor chang	e in Kemark	S			
Restrictive Lay	er (if present):									
Type: Acti	ive layer							Hydric Soil Present	? Yes ● No ○	
Depth (inc	hes): 35									
İ										
HYDROLO	GY									
Wetland Hyd	rology Indica	tors:						Secondary Indi	cators (two or more are required)	
Primary Indica	ators (any one i	s sufficient)						Water Stai	ned Leaves (B9)	
✓ Surface V	Vater (A1)			✓ Inundation V	isible on A	erial Imagei	ry (B7)	✓ Drainage F	Patterns (B10)	
High Wat	er Table (A2)			Sparsely Veg	etated Cor	ncave Surfac	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)	
Saturatio	n (A3)			Marl Deposits	(B15)			Presence of	of Reduced Iron (C4)	
☐ Water Ma	ırks (B1)			Hydrogen Su	lfide Odor	(C1)		Salt Depos	its (C5)	
Sediment	Deposits (B2)			Dry-Season V	Vater Tabl	e (C2)		Stunted or	Stressed Plants (D1)	
Drift Dep	osits (B3)			Other (Explai	n in Rema	rks)		✓ Geomorph	ic Position (D2)	
Algal Mat	or Crust (B4)							Shallow Ad	quitard (D3)	
Iron Depo	osits (B5)							Microtopog	graphic Relief (D4)	
☐ Surface S	oil Cracks (B6)							✓ FAC-neutra	al Test (D5)	
Field Observ	ations:									
Surface Wate	r Present?	Yes 🕑	No O	Depth (inche	s): 4					
Water Table I	Present?	Yes \bigcirc	No 💿	Depth (inche	s):		Wetla	nd Hydrology Presen	t? Yes 💿 No 🔾	
Saturation Pro (includes cap		Yes 〇	No •	Depth (inche	s):					
		am gauge, ı	monitor wel	, aerial photos, prev	vious inspe	ection) if ava	nilable:			
Remarks:										

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