WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Denali Bo	rough Sampling Date: 06-Aug-13		
Applica	nnt/Owner: Alaska Energy Authority				Sampling Point: SW13_T148_04		
	gator(s): SLI, EAC		Landform (hill	side, terrac	e, hummocks etc.): Toeslope		
	elief (concave, convex, none): hummocky		- ` Slope:	% / 2.4			
		Lat:	63.388997555				
	ion : Interior Alaska Mountains	Lal	63.388997555	94			
	p Unit Name:				NWI classification: PSS1B		
Are V		significan naturally	tly disturbed? problematic?	(If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ Ideded, explain any answers in Remarks.) Iormal Circumstances" present? Yes ● No ○ Ideded, explain any answers in Remarks.)		
	Hydrophytic Vegetation Present? Yes No C)					
	Hydric Soil Present? Yes ● No ○	Is the Sampled Area					
	Wetland Hydrology Present? Yes ● No ○		wi	etland? Yes No			
	arks: substantial microtopography. low areas w scosco saturated community. ETATION - Use scientific names of plants. Li				high areas w picea trees and ericaceous shrubs. overall a		
		Absolut	e Dominant	Indicator	Dominance Test worksheet:		
Tre	e Stratum	% Cove		Status	Number of Dominant Species That are OBL, FACW, or FAC: 7 (A)		
1.	Picea mariana	_ 8	✓	FACW			
2.	Picea glauca	_ 7	\checkmark	FACU	Total Number of Dominant Species Across All Strata: 8 (B)		
3.		0			Percent of dominant Species		
4.		0			That Are OBL, FACW, or FAC: 87.5% (A/B)		
5.		0			Prevalence Index worksheet:		
	Total Cover:	15	_		Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum 50% of Total Cover:	7.5 20	% of Total Cover:	3	OBL Species 10.2 x 1 = 10.2		
1.	Salix reticulata	15	✓	FAC	FACW Species 29 x 2 = 58		
2.	Salix barclayi	10		FAC	FAC Species 63.1 x 3 = 189.3		
3.	Picea mariana	10	_	FACW	FACU Species 11 x 4 = 44		
4.	Vaccinium uliginosum	10		FAC	UPL Species0 _ x 5 =0		
5.	Arctous ruber	5	_	FAC	Column Totals: _113.3_ (A) _301.5_ (B)		
6.	Empetrum nigrum	3		FAC			
7.	Rhododendron groenlandicum	3		FAC	Prevalence Index = B/A =		
8.	Picea glauca	3		FACU	Hydrophytic Vegetation Indicators:		
9.	Rhododendron tomentosum	2		FACW	✓ Dominance Test is > 50%		
10.	Shepherdia canadensis	1		FACU	✓ Prevalence Index is ≤3.0		
Her	Total Cover: b Stratum 50% of Total Cover:		 D% of Total Cover	: 12.4	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
1.	Carex bigelowii	15	_	FAC	Problematic Hydrophytic Vegetation (Explain)		
2.	Carex aquatilis	10	✓	OBL	¹ Indicators of hydric soil and wetland hydrology must		
3.	Equisetum palustre	5		FACW	be present, unless disturbed or problematic.		
4.	Equisetum arvense	2		FAC	Plot size (radius, or length x width) 10m		
5.	Arctagrostis latifolia	2	_	FACW	% Cover of Wetland Bryophytes		
6.	Rubus chamaemorus	1		FACW	(Where applicable)		
7.	Carex saxatilis	1		FACW	% Bare Ground <u>10</u>		
8.	Caltha leptosepala	0.1		OBL	Total Cover of Bryophytes		
9.	Tofieldia pusilla	0.1		FAC OBL			
10.	Carex gynocrates	Hydrophytic					
		36.3			Vegetation		
10.	Total Cover: 50% of Total Cover: <u>1</u> :			7.26	Present? Yes No		

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SOIL Sampling Point: SW13_T148_04

Profile Descript	ion: (Describe to	the depth n	eeded to docu	ment the in	dicator or con	firm the ab	sence of indic	cators)				
Depth		Matrix			Red	ox Featu			-			
(inches)	Color (mo		<u>%</u>	Color (n	noist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks		
0-6	7.5YR	2.5/2	100						Fibric Organics			
6-9	5YR	2.5/1	100						Hemic Organics			
9-16	10B	5/1	70	5YR	5/6	30	С	PL	Fine Sandy Clay Loam	Subrounded cobbles 15%		
										-		
-									-			
¹Type: C=Co	ncentration. D=	-Depletion	n. RM=Reduc	ed Matrix	² Location	: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicat	ors for Pro	blemati	c Hydric So	oils: ³				
Histosol o	r Histel (A1)			Alas	ka Color Cha	ange (TA	4 4)	✓	Alaska Gleyed Without H	lue 5Y or Redder		
✓ Histic Epip	pedon (A2)			Alas	ka Alpine sv	vales (TA	5)		Underlying Layer			
Hydrogen	Sulfide (A4)			Alas	ka Redox W	ith 2.5Y H	Hue		Other (Explain in Remark	ks)		
Thick Darl	k Surface (A12))		3 0 :	P 1	فيعامد الأ			to decrease and an all and a	i i .		
Alaska Gle	eyed (A13)				ndicator of h appropriate				nary indicator of wetland hesent	nydrology,		
✓ Alaska Re	, ,						·					
Alaska Gle	eyed Pores (A15	5)		GIVE	details of co	IOF Criany	e in Keillair 	(S 				
Restrictive Laye	er (if present):											
Type: acti	ve layer								Hydric Soil Present	:? Yes • No O		
Depth (incl	nes): 20											
Remarks:			 -									
HYDROLO	GY											
Wetland Hyd	rology Indica	tors:							Secondary Indi	icators (two or more are required)		
Primary Indica	ntors (any one i	s sufficien	it)						Water Stai	ined Leaves (B9)		
Surface V	Vater (A1)			In	undation Vis	sible on A	erial Image	ry (B7)	Drainage I	Patterns (B10)		
✓ High Wat	` ,			☐ Sp	arsely Vege	tated Cor	ncave Surfac	ce (B8)				
Saturation	. ,				arl Deposits	. ,				of Reduced Iron (C4)		
☐ Water Ma	` ,				drogen Sulf				☐ Salt Depos			
	Deposits (B2)				y-Season W					r Stressed Plants (D1)		
☐ Drift Depo	. ,			∐ Ot	ther (Explain	in Rema	rks)			ic Position (D2)		
	or Crust (B4)									quitard (D3)		
☐ Iron Depo	` ,								☐ Microtopo	graphic Relief (D4)		
	oil Cracks (B6)							<u> </u>	▼ FAC-Heuu	al lest (D5)		
Field Observa		Vac (No ●	D	anth (incher	۸.						
Surface Wate			No O		epth (inches	•		*** - +	· · · · · · · · · · · · · · · · · · ·			
Water Table F				D	epth (inches	s): 8		Wetiai	nd Hydrology Presen	nt? Yes No		
Saturation Pre (includes capi		Yes (No O	D	epth (inches	s):						
Describe Recor	ded Data (stre	am gauge	, monitor we	ell, aerial p	hotos, previ	ious inspe	ection) if ava	ailable:				
Remarks:												

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