WETLAND DETERMINATION DATA FORM - Alaska Region

t/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Denali Bo	orough Sampling Date: 30-Jul-13								
ant/Owner: Alaska Energy Authority		Sampling Point: SW13_T212_01										
nvestigator(s): SLI, EAC Landform (hillside, terrace, hummocks etc.): Hillside												
relief (concave, convex, none): flat		Slope:	% / 4.6									
Dion : Interior Alaska Mountains	Lat.:	- 63 381445289	 92	Long.: -148.908126713 Datum: NAD83								
		00.001440200		NWI classification: Upland								
•	imo of vo	or? Ves	● No ○	(If no, explain in Remarks.)								
	•			Iormal Circumstances" present? Yes No No								
	Ū	•		eded, explain any answers in Remarks.)								
			·									
·		mpling point	locations	s, transects, important features, etc.								
, , , ,		le	tha Sam	upled Area								
,				-								
)	WI	uiiii a vv	etiality 165 o No o								
arks: Lichen-rich sfwws knob												
ETATION -Use scientific names of plants. L	ist all sp	ecies in the	plot.									
	Absolut	e Dominant	Indicator	Dominance Test worksheet:								
			Status	Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)								
Picea glauca		_ 💆	FACU	Total Number of Dominant								
		_		Species Across All Strata:3 (B)								
		-		Percent of dominant Species								
		-		That Are OBL, FACW, or FAC: 33.3% (A/B)								
Total Cover		_		Prevalence Index worksheet:								
		— % of Total Cover:	1 /	Total % Cover of: Multiply by:								
			-	OBL Species 0 x1 = 0 FACW Species 5 x2 = 10								
	-			FAC Species 35.1 x 3 = 105.3 FACU Species 22.1 x 4 = 88.40								
Dhadadandran tamantasum		_		UPL Species $0 \times 5 = 0$								
		- H										
				Column Totals: <u>62.2</u> (A) <u>203.7</u> (B)								
			FAC	Prevalence Index = B/A = <u>3.275</u>								
	0			Hydrophytic Vegetation Indicators:								
	0			Dominance Test is > 50%								
	0			Prevalence Index is ≤3.0								
Total Cover				Morphological Adaptations ¹ (Provide supporting data in								
<u>rb Stratum</u> 50% of Total Cover:	27.5 20	0% of Total Cover	:	Remarks or on a separate sheet)								
·			UPL	Problematic Hydrophytic Vegetation ¹ (Explain)								
		_	FAC	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.								
	U	_		be present, unless disturbed of problematic.								
	0	_		Plot size (radius, or length x width) <u>10m</u>								
	0	- U		% Cover of Wetland Bryophytes								
	0 0			% Cover of Wetland Bryophytes (Where applicable)								
	0 0 0			% Cover of Wetland Bryophytes (Where applicable) % Bare Ground								
	0 0 0 0			% Cover of Wetland Bryophytes (Where applicable)								
	0 0 0 0			% Cover of Wetland Bryophytes (Where applicable) % Bare Ground Total Cover of Bryophytes								
	0 0 0 0 0			% Cover of Wetland Bryophytes (Where applicable) % Bare Ground								
	ant/Owner: Alaska Energy Authority igator(s): SLI, EAC relief (concave, convex, none): flat gion: Interior Alaska Mountains ap Unit Name: matic/hydrologic conditions on the site typical for this transfer of the state of the st	ant/Owner: Alaska Energy Authority igator(s): SLI, EAC relief (concave, convex, none): flat gion: Interior Alaska Mountains	ant/Owner: Alaska Energy Authority igator(s): SLI, EAC	ant/Owner: Alaska Energy Authority igator(s): SLI, EAC relief (concave, convex, none): flat								

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SOIL Sampling Point: SW13_T212_01

Profile Description	on: (Describe to	the depth ne	eded to docu	ment the inc	licator or conf	firm the ab	sence of indic	ators)		, rome. OW15_1212_01	
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Redox Features											
(inches)	Depth (inches) Color (moist)		%	Color (m	oist)	%	Type ¹	_Loc_2	Texture	Remarks	
0-2	7.5YR	2.5/1	100						Silt Loam		
2-3	7.5YR	4/2	60	7.5YR	7/1	40		M	Fine Sandy Loam	E horizon, 2 matrix colors.	
3-8	7.5YR	4/3	80	5YR	3/3	20		М	Loam	2 matrix colors	
8-21	10YR	4/3	80	7.5YR	4/3	20			Sandy Loam	5% gravels, 1% cobbles.	
										-	
								-			
								-	-		
¹ Type: C=Con	centration. D=	-Depletion	. RM=Redu	ced Matrix	² Location:	PL=Por	e Lining. RC	=Root Cha	annel. M=Matrix		
Hydric Soil In	dicators:			Indicat	ors for Pro	blematio	c Hydric So	oils: ³			
Histosol or	Histel (A1)			Alas	ka Color Cha	ange (TA	1) 4		Alaska Gleyed Without Hue 5Y or Redder Underlying Layer		
Histic Epipe	edon (A2)				ka Alpine sw	•	•				
Hydrogen S	Sulfide (A4)			Alas	ka Redox W	ith 2.5Y F	lue		Other (Explain in Remarl	ks)	
	Surface (A12))		3 ∩ne ir	ndicator of h	wdronhyt	ic vegetatio	n one nrir	mary indicator of wetland h	ovdrology	
Alaska Gley	• •						e position r			iyarology,	
Alaska Red	` '	_		4 Give	letails of col	or change	e in Remark	s			
Alaska Gley	ed Pores (A15	5)		GIVE C	retails or cor	or change	e iii recinarie				
Restrictive Laye	r (if present):										
Type:									Hydric Soil Present	? Yes O No 🖲	
Depth (inch	es):										
Remarks:											
no hydric soil in	dicators										
HYDROLO	37										
Wetland Hydr		tors:							Secondary Indi	cators (two or more are required)	
Primary Indicat			t)							ined Leaves (B9)	
Surface W	ater (A1)			□ In	undation Vis	sible on A	erial Imager	v (B7)		Patterns (B10)	
☐ High Wate	r Table (A2)						ncave Surfac			Chizospheres along Living Roots (C3)	
☐ Saturation	(A3)				arl Deposits			. ,	Presence of	of Reduced Iron (C4)	
☐ Water Mar	ks (B1)			□ Ну	drogen Sulf	ide Odor	(C1)		☐ Salt Depos	sits (C5)	
Sediment	Deposits (B2)				y-Season W				Stunted or	Stressed Plants (D1)	
☐ Drift Depo	sits (B3)			Ot	her (Explain	in Rema	rks)		Geomorph	ic Position (D2)	
Algal Mat	or Crust (B4)						-		Shallow Ac	quitard (D3)	
☐ Iron Depo	sits (B5)								Microtopog	graphic Relief (D4)	
Surface Sc	il Cracks (B6)								FAC-neutra	al Test (D5)	
Field Observa	tions:										
Surface Water	Present?	Yes 🤇	No 💿	De	epth (inches):					
Water Table P	resent?	Yes C	No 💿	De	epth (inches):		Wetla	nd Hydrology Presen	it? Yes O No 💿	
Saturation Pre		Yes C	No 💿	De	epth (inches):					
(includes capill											
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											
no wetland hydrology indicators											
, ,											

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