WETLAND DETERMINATION DATA FORM - Alaska Region

/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Denali Bo	prough Sampling Date: 06-Aug-13			
ant/Owner: Alaska Energy Authority		Sampling Point: SW13_T165_02					
	lside. terrac						
	,	,					
	1 -1	· · —					
	Lat.:	63.39221095	96	Long.:148.502806067			
p Unit Name:				NWI classification: Upland			
regetation , Soil , or Hydrology , or Hydrology , soil , or Hydrology , or	significan naturally powing sa	tly disturbed? problematic?	Are "N (If nee	(If no, explain in Remarks.) Normal Circumstances" present? Yes No Oeded, explain any answers in Remarks.) s, transects, important features, etc.			
() p, og - t	the Sam	poled Area					
yane com recont.		within a Wetland? Yes ○ No ●					
Wetland Hydrology Present? Yes O No	<u> </u>	VV	itiiiii a vv	retialiu:			
•	Absolute	e Dominant	Indicator	Dominance Test worksheet:			
e Stratum		r Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)			
		_		Total Number of Dominant			
		_		Species Across All Strata:5(B)			
		-		Percent of dominant Species			
	_ 0	_		That Are OBL, FACW, or FAC: 20.0% (A/B)			
	0	_		Prevalence Index worksheet:			
Total Cove	er: <u> </u>	_		Total % Cover of: Multiply by:			
ling/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cover	:0	OBL Species x 1 =			
Picea glauca	45	✓	FACU	FACW Species 18 x 2 = 36			
		-		FAC Species 60 x 3 = 180			
- '				FACU Species 135 x 4 = 540			
				UPL Species 0 x 5 = 0			
				Column Totals: <u>233</u> (A) <u>776</u> (B)			
				Prevalence Index = B/A = 3.330			
·				Under white Variation Indicators			
· · ·				Hydrophytic Vegetation Indicators: Dominance Test is > 50%			
		- 🖺					
		_ 🗀	TAC	☐ Prevalence Index is ≤3.0			
- co/ (- · · · c			r: <u>30.8</u>	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)			
Hedysarum alpinum	15	_	FACU	Problematic Hydrophytic Vegetation (Explain)			
Cornus canadensis	20	_	FACU	¹ Indicators of hydric soil and wetland hydrology must			
Rubus arcticus (IAM)		✓	FACU	be present, unless disturbed or problematic.			
Chamaenerion angustifolium	5	_	FACU	Plot size (radius, or length x width) 10m			
Solidago lepida	5	_	FACU	Plot size (radius, or length x width)			
Calamagrostis canadensis		_	FAC	(Where applicable)			
Chamaenerion latifolium	_ 2		FAC	% Bare Ground _5			
Astragalus alpinus	_ 3		FAC	Total Cover of Bryophytes 25			
Parnassia palustris	1		FACW				
Pyrola minor	1		FAC	Hydrophytic			
		Vegetation					
Total Cove	r: <u>79</u>	_		Present? Yes No •			
	regetation	gator(s): CTS, AMD elief (concave, convex, none): flat gion: Interior Alaska Mountains	gator(s): CTS, AMD Landform (hill relief (concave, convex, none): flat Slope:	gator(s): CTS, AMD ellef (concave, convex, none): flat			

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SOIL Sampling Point: SW13_T165_02

								· · ·	Tome: 51115_1165_62	
Profile Descript			eded to docur	ment the indicator or co			ators)			
Depth (inches)	Color (mo	Matrix oist)	 %	Color (moist)	dox Featu %	Type ¹	_Loc_ ²	Texture	Remarks	
0-7	5Y	5/2	100					Sandy Loam		
7-8	5Y	4/2	100					Loamy Sand		
8-11	5Y	4/3	100					Silt Loam		
11-20	5Y	3/2	100					Sand		
								-		
¹Type: C=Co	ncentration. D	=Depletion.	RM=Reduc	ed Matrix ² Location	n: PL=Poi	– ——— re Lining. RC	=Root Cha	nnel. M=Matrix		
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	ic Hydric So	oils: ³			
Histosol o	r Histel (A1)			Alaska Color Ch	nange (TA	.4) ⁴		Alaska Gleyed Without Hu	ie 5Y or Redder	
Histic Epip	pedon (A2)			Alaska Alpine s	wales (TA	.5)		Underlying Layer		
Hydrogen	Sulfide (A4)			☐ Alaska Redox V	Nith 2.5Y	Hue		Other (Explain in Remarks	5)	
l —	k Surface (A12)		³ One indicator of	hydronhy	rtic vegetatio	n one nrim	nary indicator of wetland hy	vdrology	
Alaska Gle				and an appropriat					idiology,	
Alaska Re	. ,	- \		4 Give details of co	olor chanç	ae in Remark	ïS			
	eyed Pores (A1	-								
Restrictive Lay	er (if present):									
Type: Depth (incl	hoo):							Hydric Soil Present?	? Yes ○ No •	
. ,	nes):									
Remarks:	- Hambana									
no hydric soil ii	ndicators									
HYDROLO	-CV									
Wetland Hyd		tors:						Secondary Indic	rators (two or more are required)	
_	itors (any one)						ned Leaves (B9)	
	Vater (A1)			Inundation V	isible on /	Aerial Image	rv (B7)	_	atterns (B10)	
	er Table (A2)			Sparsely Veg		_			nizospheres along Living Roots (C3)	
☐ Saturation				Marl Deposits				Presence of	f Reduced Iron (C4)	
☐ Water Ma	ırks (B1)			Hydrogen Su	lfide Odor	· (C1)		Salt Deposi	ts (C5)	
Sediment	Deposits (B2)			Dry-Season \				Stunted or	Stressed Plants (D1)	
☐ Drift Dep	osits (B3)			Other (Explai	in in Rema	arks)		✓ Geomorphic	Position (D2)	
Algal Mat	or Crust (B4)							Shallow Aqu	uitard (D3)	
☐ Iron Depo	osits (B5)							Microtopog	raphic Relief (D4)	
Surface S	oil Cracks (B6)	1					1	FAC-neutral	Test (D5)	
Field Observa										
Surface Wate			No 💿	Depth (inche	:s):					
Water Table F		Yes 🔾	No 💿	Depth (inche	es):		Wetlar	nd Hydrology Present	t? Yes O No 🖲	
Saturation Pre (includes capi		Yes O	No 💿	Depth (inche	es):					
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:										
Domarko.										
Remarks:										
no wetland hydrology indicators										

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