WETLAND DETERMINATION DATA FORM - Alaska Region

Applican	Site: Susitna-Watana Hydroelectric Project	ca-Susitna Borough Sampling Date: 07-Aug-13						
	t/Owner: Alaska Energy Authority				Sampling Point: SW13_T142_03			
nvestiga			Landform (hillside, terrace, hummocks etc.): bench					
Local re	lief (concave, convex, none): planar		Slope: 8.7 % / 5.0 ° Elevation: 1276					
Subreak	on : Interior Alaska Mountains	Lat ·	63.093489408		Long.: -148.269294739 Datum: WGS84			
_	Unit Name:		00.000+00+00	<u>, </u>	NWI classification: Upland			
	atic/hydrologic conditions on the site typical for this tin		2 Voc	● No ○	(If no, explain in Remarks.)			
Are Ve Are Ve	getation , Soil , or Hydrology segutation , Soil , or Hydrology regretation , Soil , or Hydrology representation representation for the seguent seguing sequences.	significantly naturally pr wing sam	y disturbed? roblematic?	Are "N (If nee	lormal Circumstances" present? Yes No deded, explain any answers in Remarks.)			
	, , , , ,		Is the Sampled Area					
	Hydric Soil Present? Yes No •		within a Wetland? Yes ○ No ●					
V	Vetland Hydrology Present? Yes ○ No ●)	•••	u **	ottaria :			
Rema	FATION - Use scientific names of plants. Li				Dominance Test worksheet:			
Tree	Stratum	Absolute % Cover	Dominant Species?	Status	Number of Dominant Species			
1.		0			That are OBL, FACW, or FAC: 4 (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: 80.0% (A/B)			
5.		0			Prevalence Index worksheet:			
	Total Cover:				Total % Cover of: Multiply by:			
Sapli	ng/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species 0 x 1 = 0			
1 '	Vaccinium uliginosum	35	✓	FAC	FACW Species 0 x 2 = 0			
_	Empetrum nigrum		✓	FAC	FAC Species			
-	Dryas octopetala	8		UPL	FACU Species 2 x 4 = 8			
4.	Diapensia lapponica	4		UPL	UPL Species 12 x 5 = 60			
5.					Column Totals:71 (A)239 (B)			
6.		•						
7.		0			Prevalence Index = B/A = 3.366			
8		0			Hydrophytic Vegetation Indicators:			
9		0			✓ Dominance Test is > 50%			
10		0			Prevalence Index is ≤3.0			
Herb	Total Cover: Stratum 50% of Total Cover:		% of Total Cover: 12.4		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
1	Anthoxanthum monticola ssp. alpinum	_2_	✓	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)			
_	Festuca altaica	5	V	FAC	¹ Indicators of hydric soil and wetland hydrology must			
3	Calamagrostis canadensis			FAC	be present, unless disturbed or problematic.			
					Plot size (radius, or length x width)			
		•			% Cover of Wetland Bryophytes			
					(Where applicable)			
/					% Bare Ground			
ρ					Total Cover of Bryophytes			
9		0	1 1		I land and a delica			
9	Total Cover:	9			Hydrophytic Vegetation Present? Yes No			

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SOIL Sampling Point: SW13_T142_03

·	•	the depth nee	eded to docum	ent the indicator or co	nfirm the ab		ators)				
Depth (inches)	Color (mo		%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-1	Color (IIIC	iist)	100	Color (Illoist)		Туре	LUC	Fibric Organics	To the state of th		
	7 FVD	2/4						Sand	C00/ Invariant for any fire		
1-11	7.5YR	3/4						Saliu	60% large coarse fragments		
								-			
¹Type: C=Con	centration. D	=Depletion.	RM=Reduce	d Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil Ir	ndicators:			Indicators for Pr	oblemati	c Hydric So	oils: ³				
Histosol or	Histel (A1)			Alaska Color C	nange (TA	4 1)		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epipe	` '			Alaska Alpine s	a Alpine swales (TA5) Underlying Layer						
	Sulfide (A4)			Alaska Redox \	-	•		Other (Explain in Remark	s)		
	Surface (A12	١									
)		³ One indicator of	hydrophyt	ic vegetatio	n, one prin	nary indicator of wetland h	ydrology,		
Alaska Gley				and an appropria	te landscap	e position r	nust be pre	esent			
Alaska Red	ox (A14) yed Pores (A1	5)		4 Give details of o	olor chang	e in Remark	S				
Restrictive Laye											
Type:	i (ii present).							Hydric Soil Present	? Yes ○ No •		
Depth (inch	oc).							nyuric Son Present	r res 🔾 No 😌		
Берит (пист	es).										
HYDROLO	GY										
Wetland Hydr		itors:						Secondary Indi	cators (two or more are required)		
Primary Indicat								Water Stained Leaves (B9)			
Surface W				☐ Inundation V	isible on A	erial Image	v (B7)				
High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)				_	hizospheres along Living Roots (C3)		
						icave Sarrae	.c (D0)		of Reduced Iron (C4)		
	☐ Saturation (A3) ☐ Marl Deposits (B15) ☐ Water Marks (B1) ☐ Hydrogen Sulfide Odor (C1)							Salt Depos	` '		
_	Sediment Deposits (B2) Hydrogen Suinde Odor (C1) Dry-Season Water Table (C2)								Stressed Plants (D1)		
Drift Depo				Other (Expla					ic Position (D2)		
	or Crust (B4)				III III Neilla	11.5)			juitard (D3)		
Iron Depo									graphic Relief (D4)		
	oil Cracks (B6)								Il Test (D5)		
	• • •							☐ FAC-Heutra	ii Test (D3)		
Field Observa Surface Water		Voc (No •	Danth (in the	-1.						
		_	_	Depth (inche	es):						
Water Table P	resent?	Yes \bigcirc	No 💿	Depth (inche	es):		Wetla	nd Hydrology Presen	t? Yes O No 💿		
Saturation Pre (includes capil		Yes \bigcirc	No 💿	Depth (inche	es):						
Describe Record	ded Data (stre	am gauge, ı	monitor well	, aerial photos, pre	vious inspe	ection) if ava	ilable:				
Remarks:											
no hydrology indicators observed.											

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