WETLAND DETERMINATION DATA FORM - Alaska Region

Project	t/Site: Susitna-Watana Hydroelectric Project		Borough/Ci	ty: Matanus	ka-Susitna Borough Sampling Date: 31-Jul-13			
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T154_09			
nvesti	gator(s): BAB		Landform (hillside, terrace, hummocks etc.): Bench					
Local r	relief (concave, convex, none): bouldery		Slope:	Slope: 1.7 % / 1.0 ° Elevation: 1149				
Subreg	gion : Interior Alaska Mountains	Lat.:	63.247965	79659654 Long.: -148.402394028 Datum: WGS84				
Soil Ma	ap Unit Name:		NWI classification: Upland					
Are V		significan naturally	tly disturbed	? (If nee	Normal Circumstances" present? Yes No eded, explain any answers in Remarks.)			
	Hydrophytic Vegetation Present? Yes No Wetland Hydrology Present?	•		Is the Sam within a W	npled Area Vetland? Yes ○ No ●			
/EGE	ETATION - Use scientific names of plants. L	ist all sp	ecies in t	he plot.				
		Absolute						
	e Stratum	% Cove		s? Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)			
1.			-		Total Number of Dominant			
2.			-		Species Across All Strata: 4 (B)			
3.			-		Percent of dominant Species That Are OBL, FACW, or FAC: 50,0% (A/B)			
4. 5.		0	-		That Are OBL, FACW, or FAC: 50.0% (A/B)			
	Total Cover	Prevalence Index worksheet: Total % Cover of: Multiply by:						
Зар	ming/siliub stratum 50% of Total cover.		% of Total Co		OBL Species 0 x1 = 0			
	Empetrum nigrum				FACW Species 0 x 2 = 0 FAC Species 38.1 x 3 = 114.3			
2.	Salix reticulata	3		FAC	FAC Species 38.1 x 3 = 114.3 FACU Species 13.1 x 4 = 52.40			
3. 4.	Cassiope tetragona Vaccinium uliginosum	2		FACU FAC	UPL Species 4.1 x 5 = 20.5			
5.	Vaccinium uliginosum Vaccinium vitis-idaea			FAC				
6.	Loiseleuria procumbens	1		FACU	Column Totals: <u>55.3</u> (A) <u>187.2</u> (B)			
	Dasiphora fruticosa	0.1		FAC	Prevalence Index = B/A = 3.385			
8.					Hydrophytic Vegetation Indicators:			
_					Dominance Test is > 50%			
		0	_		Prevalence Index is ≤3.0			
	Total Cover b Stratum 50% of Total Cover:			over: 7.62	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
1.	Festuca altaica	8	_	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Campanula lasiocarpa	0.1		UPL	¹ Indicators of hydric soil and wetland hydrology must			
3.	Carex bigelowii			FAC	be present, unless disturbed or problematic.			
4.	Anthoxanthum monticola ssp. alpinum	2	_	FACU	Plot size (radius, or length x width)			
5.			- <u>~</u>		% Cover of Wetland Bryophytes			
	·		-	FACU	(Where applicable)			
			-		Total Cover of Bryophytes5			
			-		Hydrophytic			
10.	Total Cover				Vegetation			
	50% of Total Cover:			over: <u>3.44</u>	Present? Yes No •			
3. 4. 5. 6. 7. 8. 9.	Carex bigelowii Anthoxanthum monticola ssp. alpinum Dryas octopetala Carex scirpoidea Total Cover	3 2 4 0.1 0 0 0 0		FACU UPL FACU	be present, unless disturbed or problematic. Plot size (radius, or length x width) 10m			

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SOIL Sampling Point: SW13_T154_09

		the depth ne	eded to docur	ment the indicator or cor	nfirm the ab		cators)					
Depth (inches)	Color (mo	ist)	%	Color (moist)	%	Type ¹	_Loc_2	Texture	Remarks			
0-2			100			-172-		Hemic Organics				
2-5	7.5YR	4/4	100		-		-	Loam	rounded gravel and cobbles			
								-				
5-17	10YR	3/3						Loam	rounded gravel and cobbles			
									ļ			
-								-	. ———			
-					- —							
¹Type: C=Cor		:Depletion.	RM=Reduc	ced Matrix ² Location		_		annel. M=Matrix				
Hydric Soil Indicators: Indicators for Problematic Hydric Soils:												
Histosol or	r Histel (A1)			Alaska Color Ch	nange (TA	4)		Alaska Gleyed Without H	ue 5Y or Redder			
Histic Epip	edon (A2)			Alaska Alpine s	-	-		Underlying Layer				
Hydrogen	Sulfide (A4)			Alaska Redox V	Vith 2.5Y H	Hue	L	Other (Explain in Remarl	(S)			
☐ Thick Dark	Surface (A12)	1		20 1.45.4.								
Alaska Gle	yed (A13)			One indicator of and an appropriat	hydrophyi andscar e	tic vegetation r	on, one prin	mary indicator of wetland hesent	ıydrology,			
Alaska Red	dox (A14)				•		•	CSCIIC				
	eyed Pores (A15	5)		⁴ Give details of co	olor chang	e in Remark	(S					
Restrictive Laye	er (if present):											
Type:								Hydric Soil Present	:? Yes ○ No •			
Depth (inch	nes):											
HYDROLO	GY											
Wetland Hydr	rology Indica	tors:						Secondary Indi	icators (two or more are required)			
Primary Indicat	tors (any one i	s sufficient	:)					Water Stai	ined Leaves (B9)			
Surface W	/ater (A1)			☐ Inundation V	isible on A	erial Image	ry (B7)	(B7) Drainage Patterns (B10)				
☐ High Water Table (A2)				Sparsely Veg				Oxidized R	Rhizospheres along Living Roots (C3)			
☐ Saturation	n (A3)			Marl Deposits	s (B15)			Presence of	of Reduced Iron (C4)			
☐ Water Mar	rks (B1)		Hydrogen Su	lfide Odor	(C1)		☐ Salt Depos	sits (C5)				
	Deposits (B2)	☐ Dry-Season V				Stunted or	r Stressed Plants (D1)					
☐ Drift Depo	osits (B3)		Other (Explai	n in Rema	arks)		Geomorph	ic Position (D2)				
Algal Mat	or Crust (B4)							Shallow Ad	quitard (D3)			
☐ Iron Depo	osits (B5)							Microtopog	graphic Relief (D4)			
Surface So	oil Cracks (B6)							FAC-neutra	al Test (D5)			
Field Observa	ations:											
Surface Water	r Present?	Yes C	No 💿	Depth (inche	s):							
Water Table P	resent?	Yes C	No •	Depth (inche	ic).		Wetla	nd Hydrology Presen	nt? Yes O No 🗨			
Saturation Pre					•]					
(includes capil	llary fringe)		No •	Depth (inche								
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												
no wetland hyd	drology indicate	ors observe	ed									
,	3,											

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