WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project Borough/City: Matanuska-Susitna Borough Sampling Date: 09-Jul-13											
Applic	Sampling Point: SW13_T123_01										
nvest	ant/Owner: Alaska Energy Authority igator(s): WAD, BAB	ee, hummocks etc.): Hillside									
Local	relief (concave, convex, none): hummocky	% / 4.0									
	gion : Southcentral Alaska	l a		62.750452518 Long.: -149.382297039 Datum: WGS84							
	ap Unit Name:	Lu	02								
					No ○	NWI classification: Upland					
Are '	matic/hydrologic conditions on the site typical for this /egetation , Soil , or Hydrology /egetation , Soil , or Hydrology MARY OF FINDINGS - Attach site map sho	signific natural	antly o	listurbed? plematic?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes No cleded, explain any answers in Remarks.) Iormal Circumstances" present? Yes No cleded, explain any answers in Remarks.)					
	Hydrophytic Vegetation Present? Yes No			Is the Sampled Area within a Wetland? Yes ○ No ●							
	Hydric Soil Present? Yes O No										
	Wetland Hydrology Present? Yes O No	<u>•</u>)		•••	4 11	ottaria :					
	narks: photo num 1237,1239 photo time 1109				_						
/EG	ETATION -Use scientific names of plants. I	List all	speci	es in the	plot.						
		Absol	ute	Dominant	Indicator	Dominance Test worksheet:					
	ee Stratum	% Co		Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)					
1.			0			Total Number of Dominant					
2.			0			Species Across All Strata: (B)					
3.			0			Percent of dominant Species					
4.			0			That Are OBL, FACW, or FAC: 50.0% (A/B)					
5.			0			Prevalence Index worksheet:					
_	Total Cove		<u> </u>	T-+-! C	_	Total % Cover of: Multiply by:					
Sa	bling/Shrub Stratum 50% of Total Cover:	0	20% 01	Total Cover:	0	OBL Species x 1 =					
1.	Empetrum nigrum		30_	✓	FAC	FACW Species 2 x 2 = 4					
2.	Cassiope tetragona		8		FACU	FAC Species 32.1 x 3 = 96.3					
3.	Spiraea stevenii		2		FACU	FACU Species <u>16.2</u> x 4 = <u>64.80</u>					
4.	Loiseleuria procumbens		1		FACU	UPL Species <u>0.1</u> x 5 = <u>0.500</u>					
5.	Salix rotundifolia		1		FAC	Column Totals: <u>50.4</u> (A) <u>165.6</u> (B)					
6.	Salix pulchra		2		FACW	Prevalence Index = B/A =3.286_					
7.	Vaccinium vitis-idaea		1		FAC						
8.			0			Hydrophytic Vegetation Indicators:					
9.			0			☐ Dominance Test is > 50%					
10.			0			☐ Prevalence Index is ≤3.0					
-	rb Stratum 50% of Total Cover:			f Total Cover		 ☐ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation ¹ (Explain) 					
1.	Anthoxanthum monticola ssp. alpinum Anemone narcissiflora		1		FACU						
2.	Taiantalia auranaa		0.1		FACU FACU	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.					
3. 4.	Contignalla propingua		0.1		FACU						
5.	Erigeron canadensis		0.1		UPL	Plot size (radius, or length x width)					
6.	Carex bigelowii		0.1		FAC	% Cover of Wetland Bryophytes (Where applicable)					
			0			% Bare Ground					
			0			Total Cover of Bryophytes 20					
			0								
			0			Hydrophytic					
		_	.4			Vegetation					
	Total Cove 50% of Total Cover:			Total C	1.08	Present? Yes No •					

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SOIL Sampling Point: SW13_T123_01

	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features						ators)					
Depth (inches)	Color (m		%	Color (moist)	%	Type ¹	_Loc_2	Texture	Remarks			
0-1	COIOI (III	<u> UISL)</u>		Color (Illoist)		Туре	LUC	Fibric Organics	T.C.II.C.			
1-3								Hemic Organics				
3-9	7.5YR	2.5/2	100					Loamy Sand	05% angular coarce fragments >12 inches			
3-9	7.51K							Loanly Sand	95% angular coarse fragments >12 inches			
									-			
				-								
¹Type: C=Con	¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix											
Hydric Soil In	dicators:			Indicators for P	roblematio	c Hydric So	oils: ³					
Histosol or	Histel (A1)			Alaska Color C	hange (TA4	4 1)		Alaska Gleyed Without Hue 5Y or Redder				
Histic Epipe	edon (A2)			Alaska Alpine s	swales (TAS	5)	Underlying Layer					
Hydrogen 9	Sulfide (A4)			Alaska Redox	With 2.5Y F	lue		Other (Explain in Remark	s)			
☐ Thick Dark	Surface (A12	2)		2.5								
Alaska Gley	yed (A13)			 One indicator of and an appropria 				nary indicator of wetland h esent	ydrology,			
Alaska Red	` '	IE)		⁴ Give details of c		•	•					
	yed Pores (A1											
Restrictive Laye	r (if present)	:							0 0			
Type:	00).							Hydric Soil Present	? Yes ○ No •			
Depth (inch	es):											
no hydric soil in	dicators obse	ervea										
HYDROLO	GY											
Wetland Hydr		ators:						Secondary Indi	cators (two or more are required)			
Primary Indicat	ors (any one	is sufficient)					Water Stained Leaves (B9)				
☐ Surface Water (A1) ☐ In					isible on A	erial Imagei	ry (B7)	Drainage Patterns (B10)				
High Water Table (A2)				Sparsely Veg	etated Cor	ncave Surfac	ce (B8)	Oxidized Rhizospheres along Living Roots (C3)				
Saturation	Marl Deposit	, ,				f Reduced Iron (C4)						
Water Mar				Hydrogen Su	ılfide Odor	(C1)		Salt Depos				
	Deposits (B2))		Dry-Season					Stressed Plants (D1)			
☐ Drift Depo	. ,			Uther (Expla	in in Rema	rks)			ic Position (D2)			
	or Crust (B4)								uitard (D3)			
☐ Iron Depo	. ,	`							raphic Relief (D4)			
Field Observa	oil Cracks (B6)						☐ FAC-Heutra	l Test (D5)			
Surface Water		Yes C	No •	Depth (inche	-c).							
Water Table P		_	No •	, ,	,		Wotla	nd Hydrology Presen	t? Yes ○ No •			
Saturation Pre				Depth (inche	es):		Wetiai	na nyarology Presen	ti les 🔾 NO 🔾			
(includes capill		Yes \bigcirc	No 💿	Depth (inche	es):							
Describe Record	ded Data (str	eam gauge,	monitor we	ll, aerial photos, pre	vious inspe	ection) if ava	ilable:					
Remarks:												
no hydrology indicators observed												

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