WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site:	Susitna-Watana Hydro	pelectric Project		Boroug	n/City:	Matanusk	a-Susitna Borough Sampling Date:	a Borough Sampling Date: 07-Aug-13		
Applicant/Owne	: Alaska Energy Au	ıthority					Sampling Point: SV	V13_T178_05		
nvestigator(s):	,		Landform (hillside, terrace, hummocks etc.): Bluff							
ocal relief (con	cave, convex, none):	rolling		– Slope	Slope: 46.6 % / 25.0 ° Elevation: 1112					
Subregion: Int		Lat ·	- 63.05				atum: WGS84			
oil Map Unit Na		3		00.00	+1 33021					
•	-				V	● No ○	NWI classification: Upland	1		
Are Vegetation	, Soil	, or Hydrology , or Hydrology	significar	ntly distu problem	rbed? natic?	Are "N (If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes ded, explain any answers in Remarks.) s, transects, important features,			
Hydroph	ytic Vegetation Preser	nt? Yes 🔾	No 💿		_					
• •	oil Present?		No •		Is the Sampled Area within a Wetland? Yes ○ No ●					
•	Hydrology Present?		No 💿							
	int below lateral morra									
'EGETATIO	N -Use scientific ı	names of plar				•	Dominance Test worksheet:			
Tree Stratum	1		Absolut % Cove		ninant ecies?	Indicator Status	Number of Dominant Species			
1.			0				That are OBL, FACW, or FAC:	(A)		
2.			0	_	Ī		Total Number of Dominant Species Across All Strata:	4 (B)		
3.				_			Percent of dominant Species	<u> </u>		
4.			0	_				50.0% (A/B)		
5.			0	_			B. J.			
		Total	Cover: 0				Prevalence Index worksheet: Total % Cover of: Multiply	hv:		
Sapling/Shru	ıb Stratum	50% of Total Cove	r: 0 20	—)% of Tot	al Cover:	0	OBL Species 0 x 1 =	•		
							FACW Species 0 x 2 =	0		
	ıs horizontalis			_		UPL	FAC Species 29 x 3 =	87		
2. Linnaea				_		FACU	FACU Species 29 x 4 =	116		
	.mliain.a.am		0	_		FAC FAC	UPL Species 3,2 x 5 =	16		
	and the state of					FAC				
6. Spiraea	ata: .anii					FACU	Column Totals: 61.2 (A)	<u>219</u> (B		
7. Salix are				_		FACU	Prevalence Index = B/A =	3.578		
	e tetragona		1	 ;	~	FACU	Hydrophytic Vegetation Indicators:			
				_	n	17100	Dominance Test is > 50%			
				_	П		Prevalence Index is ≤3.0			
10										
1. Anthoxa	nthum monticola ssp.	alpinum	2			FACU	Problematic Hydrophytic Vegetation ¹	(Explain)		
2. Festuca	altaica	•	8		✓	FAC	¹ Indicators of hydric soil and wetland hydro	ology must		
	tensis ssp. alpigena					FACU	be present, unless disturbed or problematic	C.		
4. Chamer	ion angustifolium			_		FACU	Plot size (radius, or length x width)	10m		
5. Poa gla			•	_		UPL	% Cover of Wetland Bryophytes	_10m		
6. Luzula a				_		FACU	(Where applicable)			
7. Antenna	ria friesiana			<u> </u>		UPL	% Bare Ground	5		
8. Taraxao	um alaskanum			_		UPL	Total Cover of Bryophytes	10		
9. Cornus	suecica			_		FAC				
10. Sibbaldi	a procumbens		4	_	✓	FACU	Hydrophytic			
		Total		Vegetation						
		50% of Total Cove	r: <u>10.1</u> 20	% of Tot	al Cover:	4.04	Present? Yes O No •			

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SOIL Sampling Point: SW13 T178 05

Profile Descripti	ion: (Describe to	the depth n	eeded to doci	ument the indicator or co	nfirm the al	sence of indic	ators)				
Depth		Matrix			dox Feat						
(inches)	Color (mo	ist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-1	10YR	4/2	100					Fine Sand	ttephra? looks like an ash layer.		
1-6	7.5YR	2.5/3	100					Sandy Loam	semi rounded gravel and cobbles		
6-20	7.5YR	3/4	100					Sandy Loam	semi rounded gravel and cobbles		
								-			
					-			-			
¹ Type: C=Cor	ncentration. D=	=Depletion	. RM=Redu	ced Matrix ² Location	n: PL=Por	re Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	ic Hydric So	oils: ³				
Histosol or	r Histel (A1)			Alaska Color Cl	nange (TA	4)		Alaska Gleyed Without Hue 5Y or Redder Underlying Layer			
Histic Epip	edon (A2)			Alaska Alpine s	•	•					
Hydrogen	Sulfide (A4)			Alaska Redox \	Vith 2.5Y	Hue		Other (Explain in Remarl	ss)		
Thick Dark	Surface (A12))		3 One indicator of	hydrophy	tic vogotatio	n ono nrin	nary indicator of wetland h	wdralogy		
Alaska Gle	eyed (A13)			and an appropriat					iyarology,		
Alaska Red	. ,			4 Give details of co	olor chanc	.e in Demark	·				
☐ Alaska Gle	yed Pores (A1	5)		dive details of c	Jior Criarig	je ili Kelilaik					
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	? Yes ○ No •		
Depth (inch	nes):										
Remarks:											
no hydric soil in	ndicators obser	ved									
,											
LIVEROLO	OV										
HYDROLO								C I T. II			
Wetland Hydi Primary Indica			+1						cators (two or more are required) ned Leaves (B9)		
Surface W		is sufficient	L)	Inundation V	icible on /	Aorial Imago	a. (P7)		Patterns (B10)		
	er Table (A2)			Sparsely Veg		_			hizospheres along Living Roots (C3)		
Saturation				Marl Deposits		ilcave Suriac	.е (во)		of Reduced Iron (C4)		
Water Ma				Hydrogen Su	` '	· (C1)		Salt Depos	` ,		
	Deposits (B2)			Dry-Season \					Stressed Plants (D1)		
Drift Depo	. ,			Other (Explai		. ,			ic Position (D2)		
	or Crust (B4)			Other (Expla	iii iii ikeine	ii koj			quitard (D3)		
☐ Iron Depo	, ,								graphic Relief (D4)		
	oil Cracks (B6)								al Test (D5)		
Field Observa											
Surface Water	r Present?	Yes C	No ●	Depth (inche	s):						
Water Table P	Present?	Yes C	No ●	Depth (inche	ie).		Wetla	nd Hydrology Presen	t? Yes O No 💿		
Saturation Pre					,		110000				
(includes capi		Yes C	No 💿	Depth (inche	:s):						
Describe Recor	ded Data (stre	am gauge	, monitor w	ell, aerial photos, pre	vious inspe	ection) if ava	ilable:				
Remarks:											
no wetland hyd	drology indicate	ors observ	ed								

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