WETLAND DETERMINATION DATA FORM - Alaska Region

Project/	/Site: Susitna-Watana Hydroelectric Projec	t	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 07-Jul-13							
Applica	nt/Owner: Alaska Energy Authority					Sampling Point: SW13_T134_08							
Investigator(s): WAD. BAB Landform (hillside, terrace, hummocks etc.): Hillside													
Local relief (concave, convex, none): hummocky Slope: % / 2.7 ° Elevation: 795													
	ion : Southcentral Alaska		at : (· 62.690354347		Long.: -148.761779189 Datum: NAD83							
-		'	_ai(32.090334347	4								
	NWI classification: Upland Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)												
Are Vo	egetation	☐ signii☐ natui	ficantly ally pro	disturbed?	Are "No	(If no, explain in Remarks.) ormal Circumstances" present? Yes No ded, explain any answers in Remarks.)							
		No O	Jann	ipinig ponit	iocations	, transcots, important reatures, etc.							
	· · · · · · · · · · · · · · · · · · ·			Is	the Sam	pled Area							
	Hydric Soil Present? Yes O	No 💿				etland? Yes ○ No ●							
Rema	Wetland Hydrology Present? Yes	No 💿											
/EGE	TATION - Use scientific names of pla					Dominance Test worksheet:							
Tree	e Stratum		olute Cover	Dominant Species?	Indicator Status	Number of Dominant Species							
1.			0			That are OBL, FACW, or FAC: (A)							
2.			0			Total Number of Dominant Species Across All Strata: 2 (B)							
3.			0			Percent of dominant Species							
4.			0			That Are OBL, FACW, or FAC:							
5.			0			Prevalence Index worksheet:							
	Tota	al Cover:	0			Total % Cover of: Multiply by:							
Sapl	ling/Shrub Stratum 50% of Total Co	0	OBL Species 0.1 x 1 = 0.1										
1	Betula nana		45	✓	FAC	FACW Species 21 x 2 = 42							
	Rhododendron tomentosum		20	✓	FACW	FAC Species <u>56</u> x 3 = <u>168</u>							
	Spiraea stevenii		5		FACU	FACU Species 6 x 4 = 24							
	Vaccinium uliginosum		5		FAC	UPL Species 0 x 5 = 0							
5.	Empetrum nigrum		5		FAC	Column Totals: <u>83.1</u> (A) <u>234.1</u> (B)							
6.	Picea glauca		1		FACU								
7.	Salix fuscescens		1		FACW	Prevalence Index = B/A = 2.817							
8.	Vaccinium vitis-idaea		_1_		FAC	Hydrophytic Vegetation Indicators:							
9.			0			✓ Dominance Test is > 50%							
10.						✓ Prevalence Index is ≤3.0							
Herl	Tot a b Stratum 50% of Total Co		83 20%	of Total Cover	16.6	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)							
	Carex limosa		0.1		OBL	Problematic Hydrophytic Vegetation ¹ (Explain)							
			0			¹ Indicators of hydric soil and wetland hydrology must							
						be present, unless disturbed or problematic.							
						Plot size (radius, or length x width)							
			0			% Cover of Wetland Bryophytes							
			0			(Where applicable)							
			0			% Bare Ground							
			0			Total Cover of Bryophytes							
			0			Hydronhytic							
10.		al Cover:	0.1			Hydrophytic Vegetation							
	50% of Total Co	_		of Total Cover:	0.02	Present? Yes • No ·							
Rema	arks: carey and grass trace collected no dor	minant horbo	as tot	al herh cover	<5%								
Rema	arks: carex and grass trace collected. no dor	minant herbs	as tot	al herb cover	<5%.								

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SOIL Sampling Point: SW13_T134_08

Profile Description: (Describe to the depth needed to do Depth Matrix					onfirm the ab		cators)					
(inches)	Color (m	oist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks			
0-2								Hemic Organics				
2-7	7.5YR	3/3	100					Loamy Sand	80% subang coarse fragments			
7-12	2.5YR	2.5/1	100					Sand	75% subang coarse fragments			
									, -			
	-						-					
					_							
¹Type: C=Con	centration. D	=Depletion	. RM=Redu	ced Matrix ² Location	n: PL=Por	e Lining. RO	C=Root Cha	annel. M=Matrix				
Hydric Soil Indicators: Indicators for Problematic Hydric Soils:												
Histosol or Histel (A1) Alaska Color Change (TA4)								Alaska Gleyed Without H	ue 5Y or Redder			
Histic Epip	. ,			Alaska Alpine		-		Underlying Layer				
	Sulfide (A4)			Alaska Redox	With 2.5Y H	lue		Other (Explain in Remar	ks)			
	Surface (A1	2)										
Alaska Gle	yed (A13)	,						mary indicator of wetland I	nydrology,			
Alaska Red				and an appropri	ate iandscap	be position	must be pro	esent				
Alaska Gle	yed Pores (A	15)		⁴ Give details of	color chang	e in Remarl	ks					
Restrictive Laye	r (if present)):										
Type:								Hydric Soil Present	? Yes O No •			
Depth (inch	es):							•				
Remarks:												
HYDROLO	GY											
Wetland Hydr		ators:						Secondary Ind	cators (two or more are required)			
Primary Indicat	tors (any one	e is sufficien	t)						ined Leaves (B9)			
Surface W	ater (A1)	Inundation	Visible on A	erial Image	ery (B7)	☐ Drainage Patterns (B10)						
☐ High Wate	High Water Table (A2)				getated Cor	_		Oxidized Rhizospheres along Living Roots (C3)				
Saturation (A3)				Marl Deposi	ts (B15)		. ,	Presence of Reduced Iron (C4)				
☐ Water Mai	ks (B1)			Hydrogen S	ulfide Odor	(C1)		Salt Deposits (C5)				
Sediment	Deposits (B2)		☐ Dry-Season				Stunted or	Stressed Plants (D1)			
☐ Drift Depo	sits (B3)			Other (Expl	ain in Rema	rks)		Geomorphic Position (D2)				
Algal Mat	or Crust (B4))						Shallow A	quitard (D3)			
☐ Iron Depo	sits (B5)							Microtopo	graphic Relief (D4)			
Surface So	oil Cracks (B6	5)						✓ FAC-neutra	al Test (D5)			
Field Observa	tions:											
Surface Water	Present?	Yes 🤇) No ●	Depth (inch	es):							
Water Table P	resent?	Yes C	No ●	Depth (inch	es):		Wetla	nd Hydrology Preser	it? Yes ○ No •			
Saturation Pre	sent?	Yes C	No •		,							
(includes capil		Yes C	NO S	Depth (inch	es):							
Describe Record	ded Data (str	eam gauge	, monitor w	ell, aerial photos, pro	evious inspe	ection) if av	ailable:					
Domarkei												
Remarks: only one secondary hydrology indicator observed												
only one second	uary riyurolo(y mulcator	observed									

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