WETLAND DETERMINATION DATA FORM - Alaska Region

^o rojec	ct/Site: Susitna-Watana Hydroelectric Project	В	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 10-Jul-13			
Applic	cant/Owner: Alaska Energy Authority				Sampling Point: SW13_T132_06			
	tigator(s): WAD, BAB		Landform (hillside, terrace, hummocks etc.): bank					
	relief (concave, convex, none): concave		Slope:		Selevation: 904			
		L of :	· —					
	gion : Interior Alaska Mountains	Lal						
	lap Unit Name:			<u> </u>	NWI classification: Upland			
Are \	Vegetation . , Soil . , or Hydrology . IMARY OF FINDINGS - Attach site map show	significantly naturally pr wing sam	y disturbed? roblematic?	Are "N (If nee	lormal Circumstances" present? Yes No eded, explain any answers in Remarks.)			
	Hydrophytic Vegetation Present? Yes No C		ls	Is the Sampled Area				
	Hydric Soil Present? Yes No •		within a Wetland? Yes ○ No ●					
	Wetland Hydrology Present? Yes No • narks: convex bank next to R3UBH creek. 7ft wide, 6in o		ļ.	itiiiii a vv	etialid: 100 - 110 -			
	ETATION - Use scientific names of plants. Li	st all spe	Dominant	•	Dominance Test worksheet: Number of Dominant Species			
1.		0		<u> </u>	That are OBL, FACW, or FAC: (A)			
2.					Total Number of Dominant			
3.					Species Across All Strata: 2 (B)			
4.					Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.		0						
0.	Total Cover:				Prevalence Index worksheet:			
62			of Total Cover	:0	Total % Cover of: Multiply by:			
Sa	pinig/siliub stratum	0 2070			OBL Species 0 x 1 = 0			
	Salix pulchra		✓	FACW	FACW Species 81 x 2 = 162			
2.		0			FACILIST 75 x 3 = 225			
3.					FACU Species 10 x 4 = 40			
4.					UPL Species <u>0</u> x 5 = <u>0</u>			
5.				-	Column Totals: <u>166</u> (A) <u>427</u> (B)			
6.					Prevalence Index = B/A =2.572_			
7.		0						
8.					Hydrophytic Vegetation Indicators:			
9.					✓ Dominance Test is > 50%			
10.		0			Prevalence Index is ≤3.0			
He	rb Stratum 50% of Total Cover:	, , ,	6 of Total Cove	r: 14	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)			
1.		50	~	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Equisetum arvense	15		FAC	¹ Indicators of hydric soil and wetland hydrology must			
3.	Sanguisorba canadensis	8		FACW	be present, unless disturbed or problematic.			
4.	Chamaenerion angustifolium	5		FACU				
1	V · · · · ·			FAC	Plot size (radius, or length x width)			
5.	Calamagrostis canadensis			FACU	% Cover of Wetland Bryophytes (Where applicable)			
5. 6.	Caranium arianthum	5						
	Geranium erianthum			FAC	% Bare Ground			
6.	Geranium erianthum	3		FAC FAC	, , ,			
6. 7.	Geranium erianthum Rhodiola integrifolia	3			% Bare Ground			
6. 7. 8.	Geranium erianthum Rhodiola integrifolia Polemonium acutiflorum Rubus chamaemorus	3		FAC	% Bare Ground			
6. 7. 8. 9.	Geranium erianthum Rhodiola integrifolia Polemonium acutiflorum Rubus chamaemorus	2 2 1		FACW	% Bare Ground Total Cover of Bryophytes			

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SOIL Sampling Point: SW13_T132_06

Profile Descripti			eded to docur	nent the indicator or co			ators)				
Depth (inches)		Matrix			dox Featu		Loc ²	Texture	Remarks		
0-2	Color (me	oist)	<u>%</u>	Color (moist)		Type ¹	Loc ²	Hemic Organics	Remarks		
	10VD	2/2						Silt Loam	inclusions of sound		
2-9	10YR	3/2	100					SIIL LOdiii	inclusions of sand		
									-		
									-		
					-						
¹Type: C=Cor	ncentration. D	=Depletion	RM=Reduce	ed Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pi	oblemati	c Hydric So	oils: ³				
Histosol or	r Histel (A1)			Alaska Color C	hange (TA	4 4)	Alaska Gleyed Without Hue 5Y or Redder				
Histic Epip	. ,			Alaska Alpine s	swales (TA	5)		Underlying Layer	lying Layer		
	Sulfide (A4)			Alaska Redox V	With 2.5Y I	Hue	Other (Explain in Remarks)				
☐ Thick Dark	Surface (A12)									
Alaska Gle	yed (A13)			³ One indicator of and an appropria				nary indicator of wetland h	ydrology,		
Alaska Red	dox (A14)					·		ESCIIC			
Alaska Gle	eyed Pores (A1	5)		⁴ Give details of c	olor chang	e in Remark	S				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	? Yes O No 💿		
Depth (inch	nes):										
Remarks:											
refusal at 9in ro											
no hydric soil ir	ndicators obse	rved									
HYDROLO	GY										
Wetland Hydi		ators:						Secondary Indi	cators (two or more are required)		
Primary Indica			:)					Water Stained Leaves (B9)			
Surface W	/ater (A1)			Inundation V	isible on A	erial Image	rv (B7)				
High Water Table (A2)				☐ Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8)					hizospheres along Living Roots (C3)		
Saturation (A3)				Marl Deposits (B15)					of Reduced Iron (C4)		
Water Marks (B1)				Hydrogen Sulfide Odor (C1)				Salt Depos	its (C5)		
Sediment Deposits (B2)				Dry-Season				Stunted or	Stressed Plants (D1)		
☐ Drift Depo	Drift Deposits (B3)				in in Rema			Geomorphi	ic Position (D2)		
Algal Mat	or Crust (B4)					-		Shallow Aq	juitard (D3)		
☐ Iron Depo	sits (B5)							Microtopog	graphic Relief (D4)		
Surface So	oil Cracks (B6))						✓ FAC-neutra	l Test (D5)		
Field Observa	ations:										
Surface Water	r Present?	Yes C	No 💿	Depth (inche	es):						
Water Table P	resent?	Yes C	No 💿	Depth (inche	es):		Wetla	nd Hydrology Presen	t? Yes O No 💿		
Saturation Pre	esent?	V (No 💿		•			,			
(includes capi	llary fringe)	res C	NO S	Depth (inche	es):						
Describe Recor	ded Data (stre	eam gauge,	monitor we	ll, aerial photos, pre	vious inspe	ection) if ava	ilable:				
Damada											
Remarks:											
no primary hydrology indicators observed											

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