WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Во	rough/City:	Matanusk	ka-Susitna Borough Sampling Date: 24-Jun-12			
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW12_T07_06			
Investigator(s): JGK	L	andform (hill:	side, terrac	ce, hummocks etc.): Terrace			
Local relief (concave, convex, none): hummocky		Slope: 0.0					
Subregion : Interior Alaska Mountains		2.832959908	_	Long.: -148.261929971 Datum: WGS84			
Soil Map Unit Name:		2.032939900					
Are climatic/hydrologic conditions on the site typical for this time		Vac	■ No ○	NWI classification: Upland			
Are Vegetation , Soil , or Hydrology sig	gnificantly turally pro	disturbed? blematic?	Are "N (If nee	lormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.)			
, , , , , , , , , , , , , , , , , , ,		Is	the Sam	pled Area			
		within a Wetland? Yes ○ No ●					
Wetland Hydrology Present? Yes ● No ○ Remarks:							
_	all spec	cies in the Dominant	<u> </u>	Dominance Test worksheet: Number of Dominant Species			
1 Bissa plants	20 20		FACU	That are OBL, FACW, or FAC:			
	0		TACO	Total Number of Dominant			
				Species Across All Strata: 4 (B)			
				Percent of dominant Species That Are OBL, FACW, or FAC: 50,0% (A/B)			
5.		\Box					
Total Cover:				Prevalence Index worksheet: Total % Cover of: Multiply by:			
Sapling/Shrub Stratum 50% of Total Cover: 10		of Total Cover:	4	001.0			
		_		OBL Species 0 x1 = 0 FACW Species 2 x2 = 4			
1. Salix commutata		<u> </u>	FAC	FAC Species 65 x 3 = 195			
2				FACU Species 50 x 4 = 200			
4	0			UPL Species 0 x 5 = 0			
	0						
	0			Column Totals: <u>117</u> (A) <u>399</u> (B)			
6. 7.	0			Prevalence Index = B/A = <u>3.410</u>			
8.	0			Hydrophytic Vegetation Indicators:			
9.	0			Dominance Test is > 50%			
10.	0			Prevalence Index is ≤3.0			
Total Cover: Herb Stratum 50% of Total Cover: 2	<u>5</u> .5 20% :	of Total Cover	: 1	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
Calamagrostis canadensis	45	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)			
2. Cornus canadensis	10		FACU	¹ Indicators of hydric soil and wetland hydrology must			
3. Mertensia paniculata	20	✓	FACU	be present, unless disturbed or problematic.			
4. Equisetum sylvaticum	15		FAC	Plot size (radius, or length x width)			
5. Petasites frigidus	2		FACW	% Cover of Wetland Bryophytes			
6				(Where applicable)			
7				% Bare Ground			
8				Total Cover of Bryophytes			
9.							
10	0			Hydrophytic			
	92			Vegetation			
Total Cover: 50% of Total Cover: 46	20% c	of Total Cover:	18.4	Present? Yes No •			

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SOIL Sampling Point: SW12_T07_06

Profile Descript	ion: (Describe to	the depth nee	eded to docume	ent the inc	licator or con	firm the abs	sence of indic	ators)	· ·	, rome. 51112_107_00		
Depth		Matrix				ox Featu	res		_			
(inches)	Color (mo	oist)	<u>%</u>	Color (m	oist)	%	Type ¹	Loc ²	Texture	Remarks		
0-3			100						Fibric Organics	w/ 0% roots		
3-4			100						Hemic Organics	w/10% roots		
4-15	5YR	4/1	60	10YR	3/6	40	С	PL	Silt Loam	sand layer at 8-9		
						-			-			
						-		-	-			
Type: C=Cor	ncentration. D	=Depletion.	RM=Reduce	d Matrix	² Location	: PL=Pore	E Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicat	ors for Pro	blematic	Hydric So	oils: ³				
					ka Color Cha		4		Alaska Gleyed Without H	ue 5Y or Redder		
	Histosol or Histel (A1) Histic Epipedon (A2)					Alaska Alpine swales (TA5)				Underlying Layer		
	Sulfide (A4)			Alasł	ka Redox W	ith 2.5Y H	lue		Other (Explain in Remar	ks)		
☐ Thick Dark	c Surface (A12)										
Alaska Gle	eyed (A13)				ndicator of happropriate				mary indicator of wetland l esent	nydrology,		
Alaska Red	dox (A14)						•		cociic			
Alaska Gle	eyed Pores (A1	5)		4 Give o	letails of col	lor change	e in Remark	is .				
Restrictive Laye	er (if present):											
Type: ice									Hydric Soil Present	? Yes O No 💿		
Depth (inch	nes): 15											
Remarks:												
HYDROLO	GY											
Wetland Hyd		ntors:							Secondary Indi	cators (two or more are required)		
Primary Indica										ined Leaves (B9)	_	
Surface W	Vater (A1)			☐ Int	undation Vis	sible on A	erial Image	ry (B7)		Patterns (B10)		
☐ High Wate	er Table (A2)			Sparsely Vegetated Concave Surface (B8)					✓ Oxidized R	thizospheres along Living Roots (C3	3)	
☐ Saturation	n (A3)			☐ Ma	rl Deposits	(B15)			Presence of	of Reduced Iron (C4)		
☐ Water Ma	rks (B1)			□ Ну	drogen Sulf	fide Odor	(C1)		Salt Depos	sits (C5)		
Sediment	Deposits (B2)			☐ Dr	y-Season W	ater Table	e (C2)		Stunted or	Stressed Plants (D1)		
☐ Drift Depo	osits (B3)			Ot	her (Explain	in Remai	rks)		Geomorph	ic Position (D2)		
	or Crust (B4)								Shallow A	quitard (D3)		
Iron Depo	osits (B5)								Microtopo	graphic Relief (D4)		
Surface S	oil Cracks (B6)	<u> </u>						1	FAC-neutra	al Test (D5)		
Field Observa		· ·	(2)									
Surface Water	r Present?		No 💿	De	epth (inches	s):						
Water Table F	Present?	Yes 🔾	No 💿	De	epth (inches	s):		Wetla	nd Hydrology Preser	nt? Yes • No O		
Saturation Pre (includes capi		Yes •	No O	De	epth (inches	s): 5						
Describe Recor	ded Data (stre	eam gauge, i	monitor well,	, aerial pl	notos, previ	ious inspe	ction) if ava	ailable:				
Remarks:												
No water table	documented v	w saturation	. thus does r	not meet	A3.							
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