WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site:	Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 05-Jul-13			
Applicant/Ow	ner: Alaska Energy Authority				Sampling Point: SW13_T136_05			
Investigator(s			Landform (hill	side. terrac	e, hummocks etc.): Hillside			
	concave, convex, none): hummocky		Slope:	% / 6.8				
•	, <u> </u>	l ot :						
	Southcentral Alaska	Lal	62.946119999	12				
Soil Map Unit	-				NWI classification: PSS1E			
Are Vegeta		significantly naturally pr	y disturbed? oblematic?	(If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ Indeed, explain any answers in Remarks.) Iordad, explain any answers in Remarks.)			
Hydro	phytic Vegetation Present? Yes No	0						
•	Soil Present? Yes ● No	_	Is	the Sam	pled Area			
-	nd Hydrology Present? Yes No	_	wi	thin a W	/etland? Yes ● No ○			
	illow drainage w standing/flowing water.							
VEGETAT Tree Strat	ION -Use scientific names of plants.	List all spe	ecies in the Dominant Species?	plot. Indicator Status	Dominance Test worksheet: Number of Dominant Species			
1.		0			That are OBL, FACW, or FAC:4(A)			
2.					Total Number of Dominant Species Across All Strata: 4 (B)			
2								
4					Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.					Prevalence Index worksheet:			
	Total Cov	ver: 0			Total % Cover of: Multiply by:			
Sapling/S	hrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species $0 \times 1 = 0$			
1 Caliv	alaxensis	60	✓	FAC	FACW Species 1.2 x 2 = 2.400			
2. Salix	harolavi		✓	FAC	FAC Species 110.1 x 3 = 330.3			
			Ī		FACU Species 0.1 x 4 = 0.400			
					UPL Species 0 x 5 = 0			
_								
					Column Totals: <u>111.4</u> (A) <u>333.1</u> (B)			
_		•			Prevalence Index = B/A = 2.990			
		0			Hydrophytic Vegetation Indicators:			
					✓ Dominance Test is > 50%			
10.		0			✓ Prevalence Index is ≤3.0			
Herb Stra	Total Cov tum 50% of Total Cover:		6 of Total Cover	: 16	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
1. Cala	magrostis canadensis	10	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)			
2. Equis	setum arvense	20	✓	FAC	¹ Indicators of hydric soil and wetland hydrology must			
3. Sang	uisorba officinalis	1		FACW	be present, unless disturbed or problematic.			
4. Thali	ctrum alpinum	0.1		FAC	Plot size (radius, or length x width)			
5. Viola	palustris			FACW	% Cover of Wetland Bryophytes			
	x canescens			FACW	(Where applicable)			
7. Strep	otopus amplexifolius	0.1		FACU	% Bare Ground			
					Total Cover of Bryophytes			
9								
		0			Hydrophytic			
	Total Cov 50% of Total Cover:		of Total Cover	6.28	Vegetation Present? Yes No			

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW13_T136_05

									- r -	10 51715_1150_05	
	ion: (Describe to	the depth nee Matrix	eded to documer	nt the indicat		firm the abs		ators)			
Depth (inches)	Color (mo		<u></u> % 0	Color (mois		%	Type ¹	_Loc_2	Texture	Remarks	
0-4				,					Sapric Organics		
4-5									Coarse Sand		
5-11									Sapric Organics	w wood debris	
11-16		2.5/1	85 1	.0YR	4/6	10		 PL	Sandy Loam	5% 10YR3/6 C PL, ox rhiz on living roots	
		2.5, 2							ou,	3 /0 10 maj o c i Ej ox miz on ming i c : :	
-						-			-		
Type: C=Cor	ncentration. D=		RM=Reduced	Matrix ² l	Location:	PL=Pore	– ——— e Lining. RC	=Root Cha	nnel. M=Matrix		
Hydric Soil I	ndicators		I	ndicators	for Pro	hlematic	c Hydric So	nils: ³			
	r Histel (A1)		_			ange (TA4	4	J1.3.	Alaska Gleyed Without H	ue 5V or Redder	
✓ Histic Epip	. ,		_	_		ales (TA5	-	_	Underlying Layer		
	Sulfide (A4)			_	•	ith 2.5Y F	•		Other (Explain in Remark	cs)	
_ , ,	s Surface (A12))									
Alaska Gle	eyed (A13)						tic vegetation role position r		nary indicator of wetland h esent	ydrology,	
✓ Alaska Red	. ,						·	•			
Alaska Gle	eyed Pores (A15	5)		*GIVE aeta	IIIS OF COR	or change	e in Remark	(S 			
Restrictive Laye	er (if present):										
Type:									Hydric Soil Present	? Yes 💿 No 🔾	
Depth (inch	nes):										
Remarks:											
h2s in upper 12	2in.										
HYDROLO	GY										
Wetland Hydi		tors:							Secondary Indi	cators (two or more are required)	
Primary Indica	itors (any one i	s sufficient	1							ned Leaves (B9)	
Surface W	Vater (A1)			Inund	lation Vis	ible on A	erial Image	ry (B7)	Drainage F	Patterns (B10)	
High Wate	, ,			Sparse	ely Veget	tated Con	ncave Surfac	ce (B8)		hizospheres along Living Roots (C3)	
✓ Saturation	. ,				Deposits (` '				f Reduced Iron (C4)	
Water Ma	. ,			✓ Hydro	_				☐ Salt Depos		
	Deposits (B2)					ater Table				Stressed Plants (D1)	
☐ Drift Depo				Other	(Explain	in Rema	rks)			ic Position (D2)	
	or Crust (B4)									juitard (D3)	
☐ Iron Depo	, ,									graphic Relief (D4)	
	oil Cracks (B6)							1	☐ FAC-neutra	Il Test (D5)	
Field Observa		Vac (No O	Danth	Cboo	` 4					
Surface Water				•	n (inches)	•				·· · · · · · · · · · · · · · · · · ·	
Water Table P			No O	Depth	n (inches)): 3		Wetiai	nd Hydrology Presen	t? Yes ● No O	
Saturation Pre (includes capil	llary fringe)		No O		n (inches)						
Describe Recor	ded Data (stre	am gauge,	monitor well, a	aerial phot	os, previo	ous inspe	ction) if ava	ailable:			
Remarks:											
seasonally flooded salix community. pools of open water, esp in large game trail through center of site. h2s in upper 12in. audible flowing water, but don't see well-											
defined channel morphology.											

U.S. Army Corps of Engineers Alaska Version 2.0