WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	t	Boi	rough/City:	Matanusk	a-Susitna Borough Sampling Date: 11-Jul-13	
Applic	ant/Owner: Alaska Energy Authority					Sampling Point: SW13_T139_06	
	igator(s): WAD, BAB	e, hummocks etc.): bank of active channel					
	relief (concave, convex, none): concave			Slope:		° Elevation: 412	
	gion : Southcentral Alaska	l a	t · 61	· 2.821903705		Long.: -149.613819957 Datum: NAD83	
			02	2.02 1903700			
	ap Unit Name:				<u> </u>	NWI classification: PSS1C	
	matic/hydrologic conditions on the site typical fo		•		No ○	(If no, explain in Remarks.)	
	/egetation ☐ , Soil ☐ , or Hydrology		,	disturbed?		omai on cametanece procent.	
Are \	/egetation ☐ , Soil ☐ , or Hydrology	□ natura	lly proi	blematic?	(If nee	eded, explain any answers in Remarks.)	
MU	MARY OF FINDINGS - Attach site ma	p showing :	samp	oling point	locations	s, transects, important features, etc.	
	Hydrophytic Vegetation Present? Yes	No O					
	Hydric Soil Present? Yes ●	pled Area					
	Wetland Hydrology Present? Yes	No ○ No ○		wi	thin a W	etland? Yes ● No ○	
Rem	arks: bank of small permanently flooded creek.		ide 3ir	n deep.			
/EGI	ETATION - Use scientific names of pla	nts. List all	-	ies in the		Dominance Test worksheet:	
Tre	e Stratum_	% Co		Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)	
1.	Picea glauca		15	✓	FACU	That are OBL, FACW, or FAC: (A) Total Number of Dominant	
2.	Betula neoalaskana		10	✓	FACU	Species Across All Strata:5 (B)	
3.			0			Percent of dominant Species	
4.			0			That Are OBL, FACW, or FAC: 40.0% (A/B)	
5.			0			Prevalence Index worksheet:	
	Tota		Total % Cover of: Multiply by:				
Sa	oling/Shrub Stratum 50% of Total Cov	er: <u>12.5</u>	f Total Cover:	5	OBL Species0 x 1 =0		
1.	Salix pulchra		65	✓	FACW	FACW Species 72 x 2 = 144	
	Salix barclayi		15		FAC	FAC Species	
3.	Viburnum edule		5		FACU	FACU Species x 4 =200	
4.	Ribes hudsonianum		2		FAC	UPL Species 0 x 5 = 0	
5.			0			Column Totals: <u>169</u> (A) <u>485</u> (B)	
6.			0				
7.			0			Prevalence Index = B/A = 2.870	
8.			0			Hydrophytic Vegetation Indicators:	
9.			0			☐ Dominance Test is > 50%	
10.			0			✓ Prevalence Index is ≤3.0	
He	Tota r b Stratum 50% of Total Cov		37 20% c	of Total Cover	: 17.4	☐ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
1.	Athyrium cyclosorum		20	\checkmark	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)	
2.	Gymnocarpium dryopteris		15	\checkmark	FACU	¹ Indicators of hydric soil and wetland hydrology must	
3.	Sanguisorba canadensis		5		FACW	be present, unless disturbed or problematic.	
4.	Equisetum sylvaticum		5		FAC	Plot cize (radius or length y width)	
5.	Calamagrostis canadensis		3		FAC	Plot size (radius, or length x width)	
6.	Streptopus amplexifolius		2		FACU	(Where applicable)	
7.	Mertensia paniculata		2		FACU	% Bare Ground	
8.	Galium trifidum		2		FACW	Total Cover of Bryophytes5	
	Equisetum arvense		2		FACU FACU		
9.		10. Trientalis europaea1_				Hydrophytic	
			_				
			57	f Total Cover:	11.4	Vegetation Present? Yes No	

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SOIL Sampling Point: SW13_T139_06

Profile Descripti	ion: (Describe to	the depth ne	eded to docum	ent the ind	icator or con	firm the abs	sence of indic	cators)	· -	10mc. 5W15_1155_66		
Depth		Matrix				ox Featu			_			
(inches)	Color (mo	oist)	%	Color (m	oist)	%	Type ¹	_ Loc _2	Texture	Remarks		
0-4			100						Fibric Organics			
4-9			100						Hemic Organics			
9-12	2.5Y	3/2	90	7.5YR	4/3	10	RM	PL	Loam	rock beneath		
										-		
-						-		-				
Type: C=Cor	ncentration. D	=Depletion.	RM=Reduced	d Matrix	² Location	: PL=Pore	e Lining. RC	=Root Cha	annel. M=Matrix	-		
Hydric Soil I	ndicators:			Indicate	ors for Pro	blematic	: Hydric S	oils: ³				
	r Histel (A1)				a Color Cha		4		Alaska Gleyed Without Ho	ue 5Y or Redder		
✓ Histic Epip	edon (A2)			Alask	ka Alpine sv	vales (TA5	5)	_	Underlying Layer			
Hydrogen	Sulfide (A4)			Alask	ka Redox W	/ith 2.5Y H	lue		Other (Explain in Remark	rs)		
Thick Dark	k Surface (A12)		3.0 :	.d:ke.l		: -			do.alaa		
Alaska Gle	eyed (A13)				idicator of r appropriate				mary indicator of wetland h esent	yarology,		
Alaska Red	` '			4 Give d	etails of col	lor change	a in Domark					
☐ Alaska Gle	eyed Pores (A1	5)		- Give u	etalis or col	ior change	e III Kelliair					
Restrictive Laye	er (if present):											
Type:									Hydric Soil Present	? Yes 🏵 No 🔾		
Depth (inch	nes):											
borderline hydr	ic son but give	en ianuscape	: position con	isidei we	uanu.							
HYDROLO	GY											
Wetland Hyd	rology Indica	itors:							Secondary India	cators (two or more are required)		
Primary Indica		is sufficient)						Water Staii	ned Leaves (B9)		
Surface W				Inc	undation Vis	sible on A	erial Image	ry (B7)				
	High Water Table (A2) Sparsely Vegetated Concave Surface (I						ce (B8)		hizospheres along Living Roots (C3)			
	✓ Saturation (A3)									f Reduced Iron (C4)		
☐ Water Ma					drogen Sulf				☐ Salt Depos			
	Deposits (B2)				y-Season W				Stunted or✓ Geomorphi	Stressed Plants (D1)		
Drift Depo	or Crust (B4)			☐ Oti	ner (Explain	ı ın kemai	rks)			uitard (D3)		
☐ Iron Depo										raphic Relief (D4)		
	oil Cracks (B6)	ı							FAC-neutra			
Field Observa		<u>'</u>								1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Surface Water		Yes \bigcirc	No 💿	De	pth (inches	s):						
Water Table F	Present?	Yes 〇	No 💿		pth (inches	•		Wetla	nd Hydrology Presen	t? Yes • No O		
Saturation Pre			No O		. `	•				•••		
(includes capi		Yes 😊	NO U	De	pth (inches	5): 10						
Describe Recor	ded Data (stre	eam gauge,	monitor well,	aerial pl	notos, previ	ious inspe	ction) if ava	ailable:				
Remarks:												
soil pit dug on raised hummock betwween two channels. still likely to be seasonally flooded.												

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