WETLAND DETERMINATION DATA FORM - Alaska Region

Project/	Site: Susitna-Watana Hydroelectric Project		Вс	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 05-Jul-13							
Applica	nt/Owner: Alaska Energy Authority			Sampling Point: SW13_T105_02									
Investigator(s): JER Landform (hillside, terrace, hummocks etc.): Shoulder slope													
Local re	elief (concave, convex, none): convex			Slope:	% / 5.0								
Subrea	on : Interior Alaska Mountains	l a	at : 6			Long.: -147.920164108 Datum: NAD83							
_	o Unit Name:			2.100100000		NWI classification: Upland							
	natic/hydrologic conditions on the site typical for this	time of		Voc	● No ○	(If no, explain in Remarks.)							
Are Ve	egetation , Soil , or Hydrology egetation , Soil , or Hydrology IARY OF FINDINGS - Attach site map sho	signifi natura	cantly	disturbed?	Are "No	ormal Circumstances" present? Yes No O ded, explain any answers in Remarks.)							
	Hydrophytic Vegetation Present? Yes ● No ○ Hydric Soil Present? Yes ○ No ○					pled Area							
	Wetland Hydrology Present? Yes ○ No ○	•		wi	thin a W	/etland? Yes ○ No ●							
Remarks: shoulder of knob, fnwws w lichen-rich understory. caribiu trail, moose poop /EGETATION - Use scientific names of plants. List all species in the plot.													
		Abso		Dominant		Dominance Test worksheet: Number of Dominant Species							
	Stratum_ Picea glauca	_% C	12	Species?	Status FACU	That are OBL, FACW, or FAC:3(A)							
2.			0		TACO	Total Number of Dominant							
3.			0			Species Across All Strata: 4 (B)							
4.		- :	0			Percent of dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B)							
5.			0			Prevalence Index worksheet:							
	Total Cove	r:	12			Total % Cover of: Multiply by:							
Sapl	ing/Shrub Stratum 50% of Total Cover:	6	20% (of Total Cover:	2.4	OBL Species0 x 1 =0							
1.	Picea glauca		1		FACU	FACW Species 30 x 2 = 60							
2.	Betula glandulosa		30	✓	FAC	FAC Species <u>95.1</u> x 3 = <u>285.3</u>							
3.	Vaccinium uliginosum		25	✓	FAC	FACU Species <u>15</u> x 4 = <u>60</u>							
4.	Empetrum nigrum		20		FAC	UPL Species <u>0</u> x 5 = <u>0</u>							
5.	Rhododendron tomentosum		30	V	FACW	Column Totals: <u>140.1</u> (A) <u>405.3</u> (B)							
6.	Vaccinium vitis-idaea		20		FAC	Prevalence Index = B/A =							
7.	Loiseleuria procumbens		2		FACU								
8.			0			Hydrophytic Vegetation Indicators:							
			0			✓ Dominance Test is > 50%							
10.	7.1.6		0			✓ Prevalence Index is ≤3.0							
Herl	Total Cove 50% of Total Cover:	_	.28 20%	of Total Cover	25.6	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)							
	Calamagrostis canadensis		0.1		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)							
			0			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.							
4.			0			Plot size (radius, or length x width)							
_			0			% Cover of Wetland Bryophytes							
			0			(Where applicable)							
			0			% Bare Ground 1							
			0			Total Cover of Bryophytes							
			0	\Box		Underschaffe							
10.	Total Cove	 er: (0.1	_		Hydrophytic Vegetation							
	50% of Total Cover:			of Total Cover:	0.02	Present? Yes No No							
Rem	arks: macric 10 flacus 5 stores 5 stadi 20 nanara	5 tota	licha	n 30 nlessh 1	In no borb	dominants as total barb cover < 50/2							
Rema	50% of Total Cover:	0.05	20% (Present? Yes • No ·							

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SOIL Sampling Point: SW13_T105_02

001=									Tomic. 5W15_1105_	1	
Profile Description		the depth ne	eded to docu	ument the indicator or co	onfirm the ab		ators)				
Depth (inches)	Color (mo			Color (moist)	w	Type ¹	Loc ²	Texture	Remarks		
0-2	COIOI (IIIC	,ist,	100	Color (IIIOISE)		Турс	LUC	Hemic Organics			
2-3	2.5YR	2.5/2	90					Sandy Loam	thin layers 7.5yr 3/4, 10yr 6/	2 and fine grav	
3-6	10YR	3/4	100	-				Sandy Loam	some gravel		
6-13	10YR	 5/4	100					Sandy Loam	Some graver		
									late of success		
13-19	2.5Y	4/2	100					Sandy Loam	lots of gravel		
¹Type: C=Con	centration. D	=Depletion	RM=Redu	ced Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil Ir	ndicators:			Indicators for Pr	oblemati	c Hydric So	oils: ³				
Histosol or	Histel (A1)			Alaska Color C	hange (TA	4(4)		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip	edon (A2)			Alaska Alpine s	wales (TA	5)		Underlying Layer			
Hydrogen	Sulfide (A4)			Alaska Redox \	With 2.5Y	Hue		Other (Explain in Remark	ss)		
Thick Dark	Surface (A12)		3 One indicator of	hydrophy	tic vegetatio	n one prim	nary indicator of wetland h	vdrology		
Alaska Gle				and an appropria					ydrology,		
Alaska Red	` '	5 \		4 Give details of o	olor chanc	ie in Remark	s				
Alaska Gle	yed Pores (A1	5)									
Restrictive Laye	r (if present):										
Type:	,							Hydric Soil Present	? Yes O No 💿		
Depth (inch	es):										
Remarks:											
no hydic soil inc	dicators										
HYDROLO	GY										
Wetland Hydr	ology Indica	itors:						Secondary Indi	cators (two or more are re	guired)	
Primary Indicat		is sufficient	:)						ned Leaves (B9)		
Surface W	` ,			☐ Inundation V		-	, , ,		atterns (B10)		
High Water Table (A2)				Sparsely Veg		ncave Surfac	te (B8)	Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4)			
Saturation (A3) Water Marks (B1)				Marl Deposit	. ,	(61)		Presence of Reduced Iron (C4) Salt Deposits (C5)			
	Deposits (B2)			☐ Hydrogen Su☐ Dry-Season V					Stressed Plants (D1)		
Drift Depo	. ,			Other (Expla		` '			ic Position (D2)		
	or Crust (B4)				III III Keilia	ii KS)			uitard (D3)		
☐ Iron Depo									raphic Relief (D4)		
	oil Cracks (B6)	ı						FAC-neutra			
Field Observa	tions:										
Surface Water	Present?	Yes C	No 💿	Depth (inche	es):						
Water Table P	resent?	Yes C	No 💿	Depth (inche	es):		Wetlar	nd Hydrology Presen	t? Yes 🔾 No 🖲)	
Saturation Pre	sent?	Vec	No 💿	Depth (inche	•						
(includes capil	lary fringe)	163 0	110 🔾	Берит (піспе	:s). 						
Describe Record	ded Data (stre	am gauge,	monitor w	ell, aerial photos, pre	vious inspe	ection) if ava	ilable:				
Remarks:											
no wetland hyd	rology indicat	ors									

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