WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site	e: Susitna-Watana Hydroelectric Pro	ject	Borou	ugh/City:	Matanusk	a-Susitna Borough Sampling Date: 01-Aug-13			
Applicant/0	Owner: Alaska Energy Authority					Sampling Point: SW13_T141_07			
Investigato	or(s): BAB		Land	Landform (hillside, terrace, hummocks etc.): Undulating					
Local relie	f (concave, convex, none): convex		Slop	Slope: 67.4 % / 34.0 ° Elevation: 1027					
Subregion	: Interior Alaska Mountains	La	at.: 63.2	19344615	9	Long.: -148.276743852 Datum: WGS84			
Soil Map U	Init Name:					NWI classification: Upland			
Are Vege Are Vege	RY OF FINDINGS - Attach site r	gy	cantly dist	turbed? matic?	(If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes No O ded, explain any answers in Remarks.) s, transects, important features, etc.			
Нус	drophytic Vegetation Present? Yes dric Soil Present? Yes tland Hydrology Present? Yes s:	O No ●			the Sam thin a W	pled Area etland? Yes ○ No ●			
	ATION -Use scientific names of p	olants. List all			olot.	Dominance Test worksheet:			
Tree St	ratum	% C		pecies?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)			
1. —			0			Total Number of Dominant			
2			0			Species Across All Strata: 5 (B)			
3. 4.			0			Percent of dominant Species That Are OBL, FACW, or FAC: 80.0% (A/B)			
5.			0						
Sapling	/Shrub Stratum 50% of Total		0 20% of To	otal Cover:	0	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL Species x 1 =			
1. Sa	ılix pulchra		20	✓	FACW	FACW Species 20 x 2 = 40			
2. Va	accinium uliginosum		15	✓	FAC	FAC Species <u>44.1</u> x 3 = <u>132.3</u>			
3. Sp	oiraea stevenii		10		FACU	FACU Species <u>16</u> x 4 = <u>64</u>			
4. <u>Va</u>	ccinium vitis-idaea		3		FAC	UPL Species 3.1 x 5 = 15.5			
5. <u>Be</u>	etula nana		15	<u>~</u>	FAC	Column Totals: <u>83.2</u> (A) <u>251.8</u> (B)			
6. <u>En</u>	npetrum nigrum		1		FAC	Prevalence Index = B/A = 3,026			
	iseleuria procumbens		1		FACU	Trevalence index - B/A			
			0			Hydrophytic Vegetation Indicators:			
			0			Dominance Test is > 50%			
10. —			0			Prevalence Index is ≤3.0			
Herb St		Cover: 32.5	<u>65 </u>	otal Cover	13	☐ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
1. <u>Fe</u>	estuca altaica		10	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)			
2. <u>An</u>	ntennaria friesiana		3		UPL	¹ Indicators of hydric soil and wetland hydrology must			
3. <u>Ar</u>	temisia tilesii		5	~	FACU	be present, unless disturbed or problematic.			
	ampanula lasiocarpa		0.1		UPL	Plot size (radius, or length x width)			
J	arex canescens (IAM)		0.1		FAC	% Cover of Wetland Bryophytes			
			0			(Where applicable)			
			0			% Bare Ground			
			0			Total Cover of Bryophytes			
			0			Hadanahada			
10		otal Cover: 1		Hydrophytic Vegetation					
1			U. Z						
	50% of Total	Cover: 9.1	20% of To	otal Cover:	3.64	Present? Yes • No			

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SOIL Sampling Point: SW13_T141_07

		the depth nee	ded to docume	ent the indicator or co	onfirm the ab		ators)				
Depth (inches)	Color (mo		%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-2	COIOI (IIIO	iist)	100	Color (Illoist)		Туре	LUC	Hemic Organics	- Tolliano		
2-8		3/4	100					Sandy Loam	few subrounded gravel		
					-						
8-18	10YR	3/3	100					Sandy Loam	few subrounded gravel		
	-				_			-			
¹Type: C=Cor	ncentration. D=		RM=Reduced	d Matrix ² Location	n: PL=Pore	- ——— e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators			Indicators for P	roblematic	Hydric Sc	nils: ³		-		
				Alaska Color C		4	,	Alaska Gleyed Without Hue 5Y or Redder			
	r Histel (A1)		[Alaska Color C		•		Underlying Layer	ue 31 of Reddel		
Histic Epip			[Alaska Redox \		•		Other (Explain in Remarks)			
	Sulfide (A4)		L	Alaska Nedox	WIGH 2.51 1	iuc		(-,		
	Surface (A12))		³ One indicator of	hydrophyt	ic vegetatio	n, one prin	nary indicator of wetland h	ydrology,		
Alaska Gle				and an appropria	te landscap	e position r	nust be pre	esent			
Alaska Red	ox (A14) eyed Pores (A1:	5)		⁴ Give details of c	olor change	e in Remark	S				
Restrictive Laye	er (if present):										
Type:	. (р,							Hydric Soil Present? Yes ○ No •			
Depth (inch	nes):							riyane son ricsene			
Remarks:	,										
no hydric soil ir	idicators obser	veu									
HYDROLO	GY										
Wetland Hydi		tors:						_Secondary Indi	cators (two or more are required)		
Primary Indica								Water Stained Leaves (B9)			
Surface W	/ater (A1)			☐ Inundation V	/isible on A	erial Imager	ry (B7)				
High Water Table (A2)				Sparsely Veg		_		Oxidized Rhizospheres along Living Roots (C3)			
Saturation (A3) Marl Deposits (of Reduced Iron (C4)		
☐ Water Ma	rks (B1)			Hydrogen Su	, ,	(C1)		Salt Depos	its (C5)		
Sediment Deposits (B2) Dry-Season Water Table (C2)								Stunted or	Stressed Plants (D1)		
☐ Drift Depo	osits (B3)			Other (Expla				Geomorph	ic Position (D2)		
Algal Mat	or Crust (B4)					,		Shallow Ac	juitard (D3)		
☐ Iron Depo	osits (B5)							Microtopog	graphic Relief (D4)		
Surface Se	oil Cracks (B6)							FAC-neutra	ll Test (D5)		
Field Observa	ations:	_	_								
Surface Water	r Present?	Yes 🔾	No 💿	Depth (inche	es):						
Water Table P	Present?	Yes 🔾	No 💿	Depth (inche	es):		Wetla	nd Hydrology Presen	t? Yes O No 💿		
Saturation Pre	esent?	v (🔘	, ,	,			, .,			
(includes capi	llary fringe)	Yes O		Depth (inche							
Describe Recor	ded Data (stre	am gauge, r	monitor well,	aerial photos, pre	vious inspe	ction) if ava	iilable:				
Remarks:											
no wetland hyd	trology indicate	ors observed	Ì								
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