WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Proj	ect	В	orough/City:	City: Denali Borough Sampling Date: 08-Aug-13				
Applicant/Owner: Alaska Energy Authority			Sampling Point: SW13_T169_09					
nvestigator(s): BAB	ce, hummocks etc.): Bluff							
Local relief (concave, convex, none): undulating	1	Slope:	% / 20.0					
Subregion : Interior Alaska Mountains		lat: 6						
		Lai (
Soil Map Unit Name:				No ○	NWI classification: Upland			
Are climatic/hydrologic conditions on the site typical Are Vegetation , Soil , or Hydrolog Are Vegetation , Soil , or Hydrolog , Soil , or Hydrolog , SUMMARY OF FINDINGS - Attach site n	gy	ificantly rally pro	disturbed?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.			
Hydrophytic Vegetation Present? Yes			le	tha Sam	upled Area			
Hydric Soil Present? Yes) No ●		Is the Sampled Area within a Wetland? Yes ○ No ●					
Wetland Hydrology Present? Yes	tnin a vv	vetiand? Tes © No ©						
VEGETATION - Use scientific names of p		all spe	cies in the	•	Dominance Test worksheet:			
Tree Stratum		Cover	Species?	Status	Number of Dominant Species			
Betula neoalaskana		45	✓	FACU	That are OBL, FACW, or FAC: 2 (A)			
2. Picea glauca		10		FACU	Total Number of Dominant Species Across All Strata: 4 (B)			
3.		0			Percent of dominant Species			
4.		0			That Are OBL, FACW, or FAC: 50.0% (A/B)			
5		0			Prevalence Index worksheet:			
Te	otal Cover:	55			Total % Cover of: Multiply by:			
Sapling/Shrub Stratum 50% of Total C	Cover: <u>27.5</u>	20%	of Total Cover:	11	OBL Species0 x 1 =0			
Vaccinium uliginosum		35	✓	FAC	FACW Species 0 x 2 = 0			
Vaccinium vitis-idaea		20	✓	FAC	FAC Species 64 x 3 = 192			
3. Betula glandulosa		8		FAC	FACU Species <u>82</u> x 4 = <u>328</u>			
Betula neoalaskana		15		FACU	UPL Species <u>0</u> x 5 = <u>0</u>			
5. Salix alaxensis		1		FAC	Column Totals: <u>146</u> (A) <u>520</u> (B)			
6. Rosa acicularis		3		FACU				
7. Linnaea borealis		1		FACU	Prevalence Index = B/A = 3.562			
8. Spiraea stevenii		2		FACU	Hydrophytic Vegetation Indicators:			
9		0			☐ Dominance Test is > 50%			
10		0			Prevalence Index is ≤3.0			
Herb Stratum 50% of Total	:17	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)						
Chamaenerion angustifolium		_1_		FACU	Problematic Hydrophytic Vegetation ¹ (Explain)			
2. Cornus canadensis		5	~	FACU	¹ Indicators of hydric soil and wetland hydrology must			
3					be present, unless disturbed or problematic.			
4					Plot size (radius, or length x width)			
5					% Cover of Wetland Bryophytes			
6					(Where applicable)			
7.		0			% Bare Ground			
8.					Total Cover of Bryophytes			
9								
10.		Hydrophytic Vegetation						
T-	otal Cover:	6			Present? Yes No •			

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SOIL Sampling Point: SW13_T169_09

	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features												
Depth Color (moist)			%				_Loc_2	Texture	Remarks				
0-2	Coloi (IIIo	ist)		Color (Illoist)		Туре	LUC	Fibric Organics	Noa				
2-3	10YR	4/2	100					Loam					
3-17	10YR		100					Loamy Sand					
3-17	101K							Loanly Sand					
¹Type: C=Con	¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix												
Hydric Soil In	ndicators:			Indicators for Pr	oblematio	Hydric So	oils: ³						
Histosol or	Histel (A1)			Alaska Color Cl	nange (TA4	ł) ⁴		Alaska Gleyed Without Hu	ue 5Y or Redder				
Histic Epip	edon (A2)			Alaska Alpine s	wales (TA5	5)		Underlying Layer					
Hydrogen :	Sulfide (A4)			Alaska Redox V	With 2.5Y F	lue		Other (Explain in Remark	s)				
Thick Dark	Surface (A12))		3 One indicator of	buduan bu	ia vaaatatia		nary indicator of wetland h	udrologu.				
Alaska Gle	yed (A13)			and an appropriat					ydrology,				
Alaska Red	lox (A14) yed Pores (A1!	5)		4 Give details of co	olor change	e in Remark	S						
		<i>,</i>											
Restrictive Laye	er (if present):							Uvdvia Cail Dynasout	? Yes ○ No •				
Type: Depth (inch	nes).							Hydric Soil Present	r res 🔾 No 🖲				
Remarks:	ics).												
no hydric soil in	idicators obser	ved											
HYDROLO	GY												
Wetland Hydr		tors:						Secondary Indic	cators (two or more are required)				
Primary Indicat	tors (any one i	s sufficient)							ned Leaves (B9)				
Surface W	ater (A1)			☐ Inundation V	isible on A	erial Imager	y (B7)	Drainage P	atterns (B10)				
High Wate	High Water Table (A2) Sparsely Vegetated Concave Surface (B						e (B8)	Oxidized RI	nizospheres along Living Roots (C3)				
Saturation	. ,			Marl Deposits	. ,				f Reduced Iron (C4)				
Water Mar				Hydrogen Su				Salt Deposi					
	Deposits (B2)			☐ Dry-Season \					Stressed Plants (D1)				
☐ Drift Depo	. ,			U Other (Expla	in in Rema	rks)			c Position (D2)				
☐ Algai Mat	or Crust (B4)							☐ Shallow Aq	uitard (D3) raphic Relief (D4)				
	oil Cracks (B6)							FAC-neutra					
Field Observa								TAC ficula	1 1030 (03)				
Surface Water		Yes \bigcirc	No 💿	Depth (inche	es):								
Water Table P	resent?	Yes 〇	No 💿	Depth (inche	•		Wetla	nd Hydrology Presen	t? Yes ○ No •				
Saturation Pre				. ,	•		11 00.0						
(includes capil	llary fringe)	Yes O		Depth (inche									
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:													
Remarks:													
no wetland hydrology indicators observed													

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