WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectri	c Project	Вс	orough/City:	Denali Bo	rough Sampling Date: 04-Aug-13			
Applic	ant/Owner: Alaska Energy Authority					Sampling Point: SW13_T166_03			
	igator(s): CTS, AMD		L	Landform (hillside, terrace, hummocks etc.): Hillside					
	relief (concave, convex, none): flat			Slope: 5.0 % / 2.9 ° Elevation: 771					
	gion: Interior Alaska Mountains								
			Lat <u>0</u>						
	ap Unit Name:				No ○	NWI classification: Upland			
Are \	√egetation □ , Soil □ , or Hy MARY OF FINDINGS - Attach s	drology s	ignificantly aturally pro	disturbed?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.) Iormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.)			
	.,,,,			Is	Is the Sampled Area				
	,	Yes O No 💿		within a Wetland? Yes ○ No •					
	Wetland Hydrology Present?	Yes O No 💿							
	narks: ETATION - Use scientific name:		et all spec	cies in the		Dominance Test worksheet:			
Tre	ee Stratum		% Cover	Species?	Status	Number of Dominant Species			
1.	Picea glauca		30	✓	FACU	That are OBL, FACW, or FAC:3(A)			
2.			0			Total Number of Dominant Species Across All Strata: 5 (B)			
3.			0			Percent of dominant Species			
4.			0			That Are OBL, FACW, or FAC: 60.0% (A/B)			
5.			0			Prevalence Index worksheet:			
		Total Cover:	30			Total % Cover of: Multiply by:			
Sapling/Shrub Stratum 50% of Total Cover: 15 20				of Total Cover:	6	OBL Species0 x 1 =0			
1.	Alnus viridis ssp. crispa		50	✓	FAC	FACW Species 43 x 2 = 86			
2.	Salix richardsonii		25	✓	FACW	FAC Species 140 x 3 = 420			
3.	Salix pulchra		15		FACW	FACU Species <u>63</u> x 4 = <u>252</u>			
4.	Spiraea stevenii		10		FACU	UPL Species <u>45</u> x 5 = <u>225</u>			
5.	Vaccinium uliginosum		20		FAC	Column Totals: <u>291</u> (A) <u>983</u> (B)			
6.	Vaccinium vitis-idaea		10		FAC				
7.	Empetrum nigrum		8		FAC	Prevalence Index = B/A = 3.378			
8.			0			Hydrophytic Vegetation Indicators:			
9.			0			✓ Dominance Test is > 50%			
10.			0			☐ Prevalence Index is ≤3.0			
He	rb Stratum 50% of	Total Cover:		of Total Cover	: 27.6	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
1.	Mertensia paniculata		3		FACU	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Equisetum arvense		35	~	FAC	¹ Indicators of hydric soil and wetland hydrology must			
3.			15		FAC	be present, unless disturbed or problematic.			
4.			3		FACW	Plot size (radius, or length x width)			
5.					FACU	% Cover of Wetland Bryophytes			
6.	Oalamaanatia aanadanaia		10		FACU	(Where applicable)			
7.			<u>2</u> 45		FAC UPL	% Bare Ground			
	Boykinia richardsonii		45 0		UPL	Total Cover of Bryophytes 60			
10.		Total Cover:	123			Hydrophytic Vegetation			
	50% of	Total Cover:6		of Total Cover:	24.6	Present? Yes No			

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SOIL Sampling Point: SW13_T166_03

	on: (Describe to	the depth ne	eeded to docu	ment the inc		firm the ab		cators)				
Depth (inches) Color (moist)				Color (moist)		% Type ¹		_Loc_2	- Texture	Remarks		
0-3	COIOI (IIIO	ist)	100	COIOI (III	oist)		туре	LUC	Hemic Organics			
3-8		2/1	100						Silt Loam			
						-						
8-17	10YR	3/1							Silt Loam			
17-20	2.5Y	4/1	95	10YR	4/6	5	C	M				
								-				
						-		-				
¹Type: C=Cor	ncentration. D=	Depletion	. RM=Reduc	ed Matrix	² Location	: PL=Pore	e Lining. RC	C=Root Cha	annel. M=Matrix			
Hydric Soil I	ndicators:			Indicat	ors for Pro	blematic	Hydric So	oils: ³				
Histosol or	Histel (A1)			Alasl	a Color Ch	ange (TA	1)4		Alaska Gleyed Without Hu	ue 5Y or Redder		
Histic Epip	edon (A2)			Alasł	ka Alpine sv	vales (TA5	5)		Underlying Layer			
Hydrogen	Sulfide (A4)			Alas	ka Redox W	ith 2.5Y F	lue		Other (Explain in Remark	s)		
☐ Thick Dark	Surface (A12)	ı		30.								
Alaska Gle	yed (A13)			and an	idicator of i appropriate	nydrophyt e landscar	ic vegetation r be position r	on, one prir must be pr	mary indicator of wetland h	ydrology,		
Alaska Red	dox (A14)					•	-	-				
	yed Pores (A15	5)		* Give o	etails of co	ior change	e in Remark	(S				
Restrictive Laye	er (if present):											
Type:	,								Hydric Soil Present?	? Yes ○ No •		
Depth (inch	nes):											
HYDROLO	GY											
Wetland Hydi	rology Indica	tors:							Secondary Indic	cators (two or more are required)		
Primary Indica	tors (any one i	s sufficient	t)						Water Stained Leaves (B9)			
Surface W	☐ Inundation Visible on Aerial Imagery (B7)					Drainage Patterns (B10)						
High Wate	Sparsely Vegetated Concave Surface (B8)					Oxidized R	nizospheres along Living Roots (C3)					
Saturation (A3)					rl Deposits	(B15)				f Reduced Iron (C4)		
Water Mai				∐ Ну	drogen Sulf	fide Odor	(C1)		Salt Deposi			
	Deposits (B2)				y-Season W					Stressed Plants (D1)		
☐ Drift Depo				∐ Ot	ner (Explair	in Rema	rks)			c Position (D2)		
	or Crust (B4)								☐ Shallow Aq			
☐ Iron Depo	. ,									raphic Relief (D4)		
	oil Cracks (B6)								☐ FAC-neutra	i Test (DS)		
Field Observa		Voc C	No •	D-								
Surface Water				DE	pth (inches	5):						
Water Table P		Yes \subseteq	No 💿	De	pth (inches	s):		wetia	nd Hydrology Presen	t? Yes ○ No •		
Saturation Pre (includes capil		Yes C	No 💿	De	pth (inches	s):						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												
None												

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