WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project		Borough/0	City:	Matanusk	a-Susitna Borough Sampling Date: 29-Aug-15		
Applic	ant/Owner: Alaska Energy Authority					Sampling Point: SW15_T341_02		
Invest	gator(s): AFW	ide, terrac	rerrace, hummocks etc.): Hillside					
	relief (concave, convex, none): hummocky		_		% / 0.0	-		
	gion : Interior Alaska Mountains	Lat.:				Long.: Datum: WGS84		
	ap Unit Name:	Luti.				NWI classification: PSS1B		
	•			Von (No O			
	matic/hydrologic conditions on the site typical for this /egetation \Box , Soil \Box , or Hydrology \Box	-	ear <i>?</i> ntly disturbe			(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○		
	/egetation ☐ , Soil ☐ , or Hydrology ☐	-	problemati			ormai oiroamotanoes present:		
	•	•				ded, explain any answers in Remarks.)		
SUM	MARY OF FINDINGS - Attach site map sh	nowing sa	ampling p	point I	ocations	s, transects, important features, etc.		
	Hydrophytic Vegetation Present? Yes No	\circ						
	Hydric Soil Present? Yes No	\circ				pled Area		
		\circ		within a Wetland? Yes ● No ○				
Rem	arks: veg a mosaic, birch on microhighs, wet sedge	in microlow	s, dwarf er	ricaceo	us-vaculi s	hrub in between		
			,					
VEG I	ETATION -Use scientific names of plants.	List all s	pecies in	the p	lot.			
		Absolu	te Domir	nant '	Indicator	Dominance Test worksheet:		
Tre	e Stratum	% Cov			Status	Number of Dominant Species		
1.			_ [That are OBL, FACW, or FAC:		
2.			_ [Species Across All Strata:5(B)		
3.			_ [Percent of dominant Species		
4.						That Are OBL, FACW, or FAC: 100.0% (A/B)		
5.			_ L			Prevalence Index worksheet:		
	Total Cov					Total % Cover of: Multiply by:		
Sap	oling/Shrub Stratum 50% of Total Cover:	020	0% of Total (Cover:	0	OBL Species <u>10</u> x 1 = <u>10</u>		
1.	Betula glandulosa	40		/	FAC	FACW Species 32 x 2 = 64		
2.	Vaccinium uliginosum	20		/	FAC	FAC Species <u>95</u> x 3 = <u>285</u>		
3.	Rhododendron tomentosum	12			FACW	FACU Species 2 x 4 = 8		
4.	Vaccinium vitis-idaea				FAC	UPL Species		
5.	Empetrum nigrum	5		_	FAC	Column Totals: <u>139</u> (A) <u>367</u> (B)		
6.	Salix pulchra	3		_	FACW	Prevalence Index = B/A =2.640_		
7.	Spiraea stevenii	2		_	FACU			
8.	Salix fuscescens	2			FACW	Hydrophytic Vegetation Indicators:		
9.						✓ Dominance Test is > 50%		
10.	Total Cov	0	_			✓ Prevalence Index is ≤3.0		
He	b Stratum 50% of Total Cover:			Cover:	18.2	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)		
1.	On this day		_	✓	FAC	Problematic Hydrophytic Vegetation (Explain)		
2.	Rubus chamaemorus			<u>✓</u>	FACW	Indicators of hydric soil and wetland hydrology must		
3.	Eriophorum angustifolium			<u></u>	OBL	be present, unless disturbed or problematic.		
4.	Luzula parviflora				FAC	District (and in a subscribe 1992)		
5.	Petasites frigidus	2	_ [FACW	Plot size (radius, or length x width) 10m		
6.	Arctagrostis latifolia	1	_ [FACW	% Cover of Wetland Bryophytes (Where applicable)		
7.						% Bare Ground		
			_ [_		Total Cover of Bryophytes55		
			_ [_				
9.		0	_ [Hydrophytic		
	Total Cov 50% of Total Cover:		 0% of Total (_	9.6	Vegetation Present? Yes ● No ○		

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SOIL Sampling Point: SW15_T341_02

5 51 5		·				- 0	C : d:-		· -	10mc. 5W15_1541_02		
Profile Descripti	ion: (Describe to	the depth ne Matrix	eded to aocun	nent the inc		firm the ab ox Featu		ators)				
Depth (inches)	Depth —			Color (moist)		%	1	Loc ²	Texture	Remarks		
0-2			100		<u> </u>		- 72		Peat			
2-7			100						Mucky Peat			
7-8	10YR	4/4	50	7.5YR	3/3	50		M	Sandy Loam			
8-14	10YR	2/2	100						Sandy Loam	high organic content		
14-19			100						Mucky Peat			
								-	-			
-						-						
¹Type: C=Cor	ncentration. D=	=Depletion.	RM=Reduce	ed Matrix	² Location:	PL=Por	e Lining. RC	=Root Cha	annel. M=Matrix			
Hydric Soil I	ndicators:			Indicat	ors for Pro	blemati	c Hydric So	oils: ³				
	r Histel (A1)				ca Color Cha		4		Alaska Gleyed Without H	ue 5Y or Redder		
✓ Histic Epip	edon (A2)			Alas	ka Alpine sw	vales (TA	5)		Underlying Layer			
Hydrogen	Sulfide (A4)			Alas	ka Redox W	ith 2.5Y H	lue		Other (Explain in Remark	s)		
Thick Dark	Surface (A12))		3 One in	dicator of b	n (droph) d	ic voqotatio	n one prin	mary indicator of wetland h	vdrology		
Alaska Gle					appropriate					ydrology,		
Alaska Red	` '	>		4 Give d	etails of col	or change	e in Remark	(S				
☐ Alaska Gle	eyed Pores (A1	5)		0170	Ctails of col	or charig	- III Keman					
Restrictive Laye	er (if present):											
Type:									Hydric Soil Present	? Yes ● No ○		
Depth (inch	nes):											
Remarks: dug down to 24 in and probed deeper, did not hit frost												
HYDROLO	GY											
Wetland Hydi	rology Indica	tors:							Secondary India	cators (two or more are required)		
Primary Indica	tors (any one	is sufficient)						Water Stained Leaves (B9)			
Surface W	` '			Int	undation Vis	sible on A	erial Image	ry (B7)				
	High Water Table (A2) Sparsely Vegetated Concave Sui						ncave Surfac	ce (B8)		hizospheres along Living Roots (C3)		
✓ Saturation					rl Deposits	. ,				f Reduced Iron (C4)		
☐ Water Ma	` ,				drogen Sulf				☐ Salt Depos			
	Deposits (B2)				y-Season W					Stressed Plants (D1)		
Drift Depo	or Crust (B4)			Ot	ner (Explain	ı ın kema	rks)		Shallow Aq	c Position (D2)		
Iron Depo										raphic Relief (D4)		
	oil Cracks (B6)								✓ FAC-neutra			
Field Observa					-					. ,		
Surface Water	r Present?	Yes C	No 💿	De	pth (inches):						
Water Table P	resent?	Yes 💿	No O	De	pth (inches): 8		Wetla	nd Hydrology Presen	t? Yes 💿 No 🔾		
Saturation Pre		Yes •	No O		pth (inches	•						
(includes capi					. `		-ti> :6	-: - - -				
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												

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