WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydro	electric Project		Borough/City:	Denali Bo	orough Sampling Date: 03-Aug-13			
Applica	ant/Owner: Alaska Energy Aut	thority			-	Sampling Point: SW13_T159_04			
	gator(s): CTS, AMD			Landform (hillside, terrace, hummocks etc.): Knob					
	relief (concave, convex, none):	flat		Slope:	% / 0.3	No.			
	gion: Interior Alaska Mountains		l at :	· · —					
)	Lat	03.37009741					
	ap Unit Name:			- 14	No ○	NWI classification: PSS4/3B			
Are \	/egetation , Soil	, or Hydrology \Box s	significant	tly disturbed? problematic?	Are "N (If nee	(If no, explain in Remarks.) Normal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.			
	Hydrophytic Vegetation Present	t? Yes ● No C)						
	Hydric Soil Present?	Yes ● No C)	Is the Sampled Area					
	Wetland Hydrology Present?	Yes ⊙ No C)	within a Wetland? Yes ● No ○					
Rema									
	ETATION - Use scientific n	ames of plants. Li	st all sp Absolute % Cove	e Dominant	•	Dominance Test worksheet: Number of Dominant Species			
1.	Picea mariana		15		FACW	That are OBL, FACW, or FAC:6(A)			
2.			0	_ 🔻		Total Number of Dominant			
3.				-		Species Across All Strata: 6 (B)			
4.				-		Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.			0						
		Total Cover		-		Prevalence Index worksheet: Total % Cover of: Multiply by:			
Sap	oling/Shrub Stratum	50% of Total Cover:	7.5 209	- % of Total Cover	: 3	OBL Species 2 x 1 = 2			
			25	✓	FACW	FACW Species 101 x 2 = 202			
1. 2.	Picea mariana Phododondron tomontosum		35 20		FACW	FAC Species 46 x 3 = 138			
3.	Rhododendron tomentosum Betula nana		15	-	FAC	FACU Species 0 x 4 = 0			
4.	Vaccinium vitis-idaea		5	- 📙	FAC	UPL Species 0 x 5 = 0			
5.	Salix pulchra		4	-	FACW				
6.	Vaccinium uliginosum		2	- <u> </u>	FAC	Column Totals: <u>149</u> (A) <u>342</u> (B)			
7.	Empetrum nigrum		1		FAC	Prevalence Index = B/A = 2.295			
8.	,		0			Hydrophytic Vegetation Indicators:			
9.			0			✓ Dominance Test is > 50%			
10.			0			✓ Prevalence Index is ≤3.0			
Her	rb Stratum	Total Cover 50% of Total Cover:		_ % of Total Cove	r: <u>16.4</u>	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
1.	Calamagrostis canadensis		15	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Petasites frigidus		10	✓	FACW	¹ Indicators of hydric soil and wetland hydrology must			
3.	Dubus chamaemorus		10	_	FACW	be present, unless disturbed or problematic.			
4.	Eriophorum vaginatum				FACW	Plot size (radius, or length x width)			
5.	Carex bigelowii				FAC	% Cover of Wetland Bryophytes			
6.				- 📙	FAC	(Where applicable)			
7.			1	-	OBL	% Bare Ground5			
				-	OBL	Total Cover of Bryophytes50			
			0	-					
10.				-		Hydrophytic			
		Total Covers	52	_		Vegetation			
	c	50% of Total Cover:	26 209	% of Total Cover	: 10.4	Present? Yes • No O			

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SOIL Sampling Point: SW13_T159_04

JOIL									Samping	Point: 3W13_1139_04		
Profile Descripti	ion: (Describe to t		eded to docu	ment the inc				ators)				
Depth		1atrix				ox Featu %		2				
(inches) 0-4	Color (moist)		<u>%</u> _	Color (n	Color (moist)		Type ¹	<u>Loc</u> 2	Texture Hemic Organics	Remarks		
4-11		3/2	85	10Y	4/1	15	 D	PL	Silty Clay Loam			
11-19	10YR	2/1	100	101					Silt Loam			
19-21		3/2	100						Loamy Sand			
-												
17 00					2							
Type: C=Cor	ncentration. D=	Depletion.	RM=Reduc				_		nnel. M=Matrix			
Hydric Soil I	ndicators:				ors for Pro		4	oils:				
Histosol or	r Histel (A1)				ka Color Cha		-		Alaska Gleyed Without Hu	e 5Y or Redder		
Histic Epip					ka Alpine sv				Underlying Layer Other (Explain in Remarks	.\		
	Sulfide (A4)			∟ Alas	ka Redox W	ith 2.5Y H	lue		Other (Explain in Remarks	o)		
	Surface (A12)								nary indicator of wetland hy	drology,		
Alaska Gle				and an	appropriate	landscap	e position r	nust be pre	esent			
	eyed Pores (A15)		4 Give	letails of co	or change	in Remark	s				
Restrictive Laye	•											
Type:	er (ii present).								Hydric Soil Present?	Yes No		
Depth (inch	nes):								,	165 5 116 5		
Remarks:												
remano												
HYDROLO	GY											
Wetland Hydi	rology Indica	tors:							Secondary Indica	ators (two or more are required)		
Primary Indica	tors (any one is	s sufficient)						Water Stain	ed Leaves (B9)		
Surface W	/ater (A1)			In	undation Vis	sible on A	erial Image	y (B7)	Drainage Pa	atterns (B10)		
	High Water Table (A2) Sparsely Vegetated Concave Surface (B8)							ce (B8)	·			
Saturation (A3)				Marl Deposits (B15)					Presence of Reduced Iron (C4)			
					drogen Sulf				☐ Salt Deposits (C5) ☐ Stunted or Stressed Plants (D1)			
	,				y-Season W					` ,		
☐ Drift Deposits (B3) ☐ Other (Explain in Remarks) ☐ Geomorphic Position (D2 ☐ Algal Mat or Crust (B4) ☐ Shallow Aquitard (D3)												
☐ Iron Deposits (B5)										raphic Relief (D4)		
	oil Cracks (B6)								✓ FAC-neutral	Test (D5)		
Field Observa	ations:											
Surface Water	r Present?	Yes 🔾	No 💿	De	epth (inches):						
Water Table P	resent?	Yes 🔾	No 💿	De	epth (inches):		Wetlar	nd Hydrology Present	? Yes 💿 No 🔾		
Saturation Pre		Yes O	No 💿	De	epth (inches):						
(includes capil		m dalide	monitor we	ll aprial n	hotos previ	ous inspe	ction) if ava	ilahle:				
Describe Record	ueu Data (Silea	iii yauye,	monitor we	ii, aciiai p	notos, previ	ous mspe	cuon) ii ava	iliable.				
Remarks:												

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