WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroel	ectric Project		Borough/City: Matanuska-Susitna Borough Sampling Date: 04-Jul-13						
Applica	int/Owner: Alaska Energy Autho	ority		Sampling Point: SW13_T137_03						
nvestig	gator(s): WAD, BAB	•		Landform (hillside, terrace, hummocks etc.): Bench						
_ocal re	elief (concave, convex, none):	flat		Slope: 5.2 % / 3.0 ° Elevation: 1015						
Subrea	ion: Southcentral Alaska		l at ·	62.828132272 Long.: -148.871729255 Datum: WGS84						
_	p Unit Name:		Latin	02.0201022						
				0 V/-	s • No O	NWI classification: PSS1/	EM1B			
Are V	egetation , Soil , o	r Hydrology	significan naturally	tly disturbed? problematic?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ded, explain any answers in Remarks.) s, transects, important features,				
	Hydrophytic Vegetation Present?	Yes No	\sim							
	Hydric Soil Present?	Yes No	\supset		Is the Sampled Area within a Wetland? Yes ● No ○					
	Wetland Hydrology Present?	Yes No		V						
	arks: bench at toe of well drained photo num 989, 990. photo	time 1352	· 							
/EGE	TATION - Use scientific na	mes of plants.	List all sp	ecies in the	e plot.	I				
			Absolute			Dominance Test worksheet:				
	e Stratum		% Cove	r Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC:	3 (A)			
1.						Total Number of Dominant				
2.				_		Species Across All Strata:	(B)			
3.			0	_		Percent of dominant Species	100 00/ (A/D)			
4.			0	_		That Are OBL, FACW, or FAC:	100.0% (A/B)			
5.		Tatal Carre		_		Prevalence Index worksheet:				
	500	Total Cove		_		Total % Cover of: Multiply	by:			
Sapi	ling/Shrub Stratum 509	% of Total Cover:	020	% of Total Cove	er: <u>0</u>	OBL Species0 x 1 =	0			
1.	Vaccinium uliginosum		15	✓	FAC	FACW Species 16 x 2 =	32			
2.	Betula nana		15	✓	FAC	FAC Species75 x 3 =	225			
3.	Ledum decumbens		10		FACW	FACU Species 2 x 4 =	8			
4.	Salix pulchra		5		FACW	UPL Species 1 x 5 =	5			
5.	Empetrum nigrum		5		FAC	Column Totals: 94 (A)	270 (B)			
6.	Vaccinium vitis-idaea		5		FAC		2.072			
7.	Salix fuscescens		1		FACW	Prevalence Index = B/A =	2.872			
8.			0			Hydrophytic Vegetation Indicators:				
9.			0			✓ Dominance Test is > 50%				
10.			0	_		✓ Prevalence Index is ≤3.0				
		Total Cove % of Total Cover:	28 20	% of Total Cov		Morphological Adaptations ¹ (Provide Remarks or on a separate sheet)				
					FAC	Problematic Hydrophytic Vegetation ¹				
					FACU	¹ Indicators of hydric soil and wetland hydr be present, unless disturbed or problemat	ology must			
٠.					FACU	be present, unless disturbed or problemat	IC.			
					UPL	Plot size (radius, or length x width)	_10m			
_			^	-		% Cover of Wetland Bryophytes				
				- =		(Where applicable)				
						% Bare Ground				
				- =		Total Cover of Bryophytes	_35			
			$- \frac{0}{0}$	- =						
10.						Hydrophytic				
	EOG	Total Cove % of Total Cover: _		_	ar 7.0	Vegetation Present? Yes ● No ○				
	503	o or rotal cover:		/o OI TOLAI COVE	er: <u>7.6</u>	1.000.00				
Rema	arks:			2 2 2 2 2 3 3 4 4	7.0	1				

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SOIL Sampling Point: SW13_T137_03

Profile Description: (Describe to the depth needed to c			eded to docu		onfirm the ab		ators)				
Depth (inches)	Color (mo			Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-1	Color (mc	oist)	100	Color (moist)		Туре	LOC	Fibric Organics	Kemarks		
1-8			100					Hemic Organics			
8-10	7.5YR	1/6	100					Silty Clay Loam	inclusions within sain layer war to be under		
0-10	7.51K	4/6						Silty Clay Loan	inclusions within min layer wavy boundary		
					_						
¹Type: C=Con	centration. D	=Depletion.	RM=Reduc	ced Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil In	ndicators:			Indicators for Pr	roblemati	c Hydric So	oils: ³				
Histosol or	Histosol or Histel (A1) Alaska Color Change (TA4)							Alaska Gleyed Without Hue 5Y or Redder			
✓ Histic Epip	edon (A2)			Alaska Alpine s	Alaska Alpine swales (TA5) Underlying Layer						
Hydrogen	Sulfide (A4)			Alaska Redox V	With 2.5Y H	lue		Other (Explain in Remark	rs)		
Thick Dark	Surface (A12)		3 One indicator of	f buduan bud	ia vaaatatia		name indicator of wetland b	vidro lo qu		
Alaska Gle	yed (A13)			and an appropria				nary indicator of wetland h esent	ydrology,		
Alaska Red	lox (A14) yed Pores (A1	5)		⁴ Give details of c	color change	e in Remark	s				
		-									
Restrictive Laye Type: seas	,							Hydric Soil Present	? Yes • No O		
Depth (inch								nyunc son Present	r les 🤄 NO 🔾		
Remarks:	100)1 ==										
alpha alpha dip	yrıdyi negative	e on minera	i layer								
HYDROLO	GY										
Wetland Hydr		itors:						Secondary Indi	cators (two or more are required)		
Primary Indicat)					Water Stained Leaves (B9)			
Surface Water (A1) Inundation Visible on A					/isible on A	erial Image	agery (B7) Drainage Patterns (B10)				
High Water Table (A2)				☐ Sparsely Vegetated Concave Surface (B8)				Oxidized Rhizospheres along Living Roots (C3)			
Saturation (A3)				Marl Deposits (B15)				Presence of Reduced Iron (C4)			
Water Marks (B1)				Hydrogen Su	ılfide Odor	(C1)		☐ Salt Deposits (C5)			
	Sediment Deposits (B2) Dry-Season Water Table (C2)								Stressed Plants (D1)		
☐ Drift Depo	` '			U Other (Expla	in in Rema	rks)		✓ Geomorphi	* *		
	Algal Mat or Crust (B4)							Shallow Aq			
☐ Iron Depo	` '								raphic Relief (D4) Il Test (D5)		
Field Observa	oil Cracks (B6)							FAC-fleutia	ir rest (D3)		
Surface Water		Yes C	No •	Depth (inche	-c).						
Water Table P		_	No •		,		Wetla	nd Hydrology Presen	t? Yes • No O		
Saturation Pre				Depth (inche	es):		Wetiai	na riyarology Fresen	ti les C NO C		
(includes capil		Yes 🖭	No O	Depth (inche	es): 4						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Domarks:											
Remarks:											

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