WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroe	lectric Project	Вс	orough/City:	Matanusk	a-Susitna Borough Sampling Date:	31-Jul-12	
Applica	int/Owner: Alaska Energy Auth	ority				Sampling Point:	SW12_T40_01	
nvestig	gator(s): CTS, EKJ	•	L	_andform (hil	side, terrac	e, hummocks etc.): Mountainslope		
ocal r	elief (concave, convex, none):	convex		Slope: 12.2	% / 7.0	° Elevation: 1008		
Subrea	ion: Interior Alaska Mountains		Lat · 6	32.716029908			Datum: WGS84	
_	p Unit Name:			NWI classification: Upland				
	natic/hydrologic conditions on the	site typical for this ti	ma of voor?) Vac	No ○	(If no, explain in Remarks.)	<u>u</u>	
Are V	egetation , Soil , , , , , , , , , , , , , , , , , , ,	or Hydrology	significantly naturally pro	disturbed?	Are "N (If nee	ormal Circumstances" present? Yes ded, explain any answers in Remarks.))	
	Hydrophytic Vegetation Present?			pinig point	1000110110	, transcots, important reatures,		
		Yes O No •		Is the Sampled Area within a Wetland? Yes ○ No ●				
	Hydric Soil Present?	Yes O No •						
	Wetland Hydrology Present?	Yes U No 🗨						
	arks: E TATION - Use scientific na	mes of plants. Li	ct all cne	cies in the	nlot			
	OSC SCICITITIE III	inics of plants. Li	st an spec	cics iii tiic	piot.	Dominance Test worksheet:		
Troc	e Stratum		Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species		
1.	e Stratum		0			That are OBL, FACW, or FAC:	(A)	
2.			0			Total Number of Dominant	3 (B)	
3.			0			Species Across All Strata: Percent of dominant Species	(D)	
4.			0			That Are OBL, FACW, or FAC:	66.7% (A/B)	
5.			0			Prevalence Index worksheet:		
,		Total Cover				Total % Cover of: Multiply	bv:	
Sapl	ling/Shrub Stratum 50	% of Total Cover:	0 20% (of Total Cover	0	OBL Species 0 x 1 =	0	
1	Betula nana		60	✓	FAC	FACW Species 30 x 2 =	60	
	Vaccinium uliginosum		40	<u> </u>	FAC	FAC Species 125.1 x 3 =	375.3	
	Ledum decumbens		30		FACW	FACU Species 3 x 4 =	12	
4.	Rosa acicularis		1		FACU	UPL Species 0 x 5 =	0	
5.	Empetrum nigrum		15		FAC	Column Totals: 158.1 (A)	447.3 (B)	
6.	Vaccinium vitis-idaea		10		FAC	, ,		
7.			0			Prevalence Index = B/A =	2.829	
8.			0			Hydrophytic Vegetation Indicators:		
9.			0			✓ Dominance Test is > 50%		
			0			✓ Prevalence Index is ≤3.0		
		Total Cover: 0% of Total Cover:	78 20%			Morphological Adaptations ¹ (Provide Remarks or on a separate sheet)		
	Cornus canadensis		2	✓	FACU	Problematic Hydrophytic Vegetation		
3.			0		FAC	Indicators of hydric soil and wetland hydrometric be present, unless disturbed or problemate	ology must ic.	
						Plot size (radius, or length x width)	_10m	
						% Cover of Wetland Bryophytes	_15	
						, , ,		
							0	
						i otal Cover of Bryophytes	_15	
			0			Used wo why diff		
10.				_		Vegetation		
	50	% of Total Cover:		of Total Cover	0.42	Present? Yes • No O		
2. 3. 4. 5. 6. 7. 8. 9.	Equisetum sylvaticum	Total Cover: % of Total Cover:1	0.1 0 0 0 0 0 0 0 0 0		FAC	Indicators of hydric soil and wetland hydrobe present, unless disturbed or problemate Plot size (radius, or length x width) Cover of Wetland Bryophytes (Where applicable) Bare Ground Total Cover of Bryophytes Hydrophytic Vegetation	rology must tic.	

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SOIL Sampling Point: SW12_T40_01

Profile Description		the depth ne	eeded to docu	ment the indicator or co	nfirm the ab		ators)				
Depth —			0/-				_Loc_2	Texture	Remarks		
0-4	Color (mo	ist)	<u>%</u> _	Color (moist)	_%_	Type ¹	LOC	Fibric Organics	15% roots		
4-5			100					Fibric Organics			
-	10VD								5% roots		
5-7	10YR	5/3	100					Fine Sandy Loam			
7-14	7.5YR	3/3						Sandy Loam	fine sand to rounded and sub ang cobbles		
14-20	7.5YR	2.5/2						Coarse Sand	coarse sand to rounded and semiangular co		
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix											
		2 оргостот		Indicators for Pr							
Hydric Soil In						4	DIIS:] Al-al-a Gland Milliand	. EV . P. H.		
	Histel (A1)			☐ Alaska Color Change (TA4) ☐ Alaska Gleyed Without Hue 5Y or Redder ☐ Alaska Alpine swales (TA5) ☐ Underlying Layer							
Histic Epip				Alaska Redox V	-	-		Other (Explain in Remarks)			
	Sulfide (A4) : Surface (A12)			Aldska Redox v	VIGI 2.51 1	iuc		· · · · · · · · · · · · · · · · ·	-,		
Alaska Gle		1		³ One indicator of	hydrophyt	ic vegetatio	n, one prin	mary indicator of wetland h	ydrology,		
Alaska Red				and an appropriat	e landscap	e position r	nust be pre	esent			
	yed Pores (A15	5)		⁴ Give details of co	olor chang	e in Remark	S				
Restrictive Laye	r (if present):										
Type:				Нус				Hydric Soil Present	? Yes ○ No •		
Depth (inch	es):										
HYDROLO	GY										
Wetland Hydr	ology Indica	tors:						Secondary Indi	cators (two or more are required)		
Primary Indicat	tors (any one i	s sufficient	t)					Water Stained Leaves (B9)			
Surface Water (A1)				☐ Inundation Visible on Aerial Imagery (B7)				☐ Drainage Patterns (B10) ☐ Oxidized Rhizospheres along Living Roots (C3) ☐ Presence of Reduced Iron (C4)			
High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)							
Saturation (A3)				Marl Deposits (B15)							
Water Mar				Hydrogen Sulfide Odor (C1)				Salt Deposits (C5)			
Sediment	☐ Dry-Season \		. ,			Stressed Plants (D1)					
☐ Drift Depo				U Other (Explai	n in Rema	rks)			ic Position (D2)		
	☐ Iron Deposits (B5)							_	juitard (D3) Jraphic Relief (D4)		
	oil Cracks (B6)								Il Test (D5)		
Field Observa									1 (23)		
Surface Water		Yes C	No ●	Depth (inche	s):						
Water Table P	resent?		No •	Depth (inche	•		Wetla	nd Hydrology Presen	t? Yes ○ No •		
Saturation Pre					•		- Ctia	,,,	. 103 0 110 0		
(includes capil		Yes \subseteq	No 💿	Depth (inche	s):						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											
no wetland hyd	rology indicato	ors									
,											

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