WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hyd	roelectric Project		Borough/City	/: Matanusk	a-Susitna Borough Sampling Date	e:11-Jul-13		
Applica	nt/Owner: Alaska Energy A	Authority				Sampling Point:	SW13_T190_05		
nvestig	gator(s): JGK			Landform (I	hillside, terrac	e, hummocks etc.): Bench			
Local re	elief (concave, convex, none)	hummocky		Slope: 8	Slope: 8.7 % / 5.0 ° Elevation: 890				
Subreg	ion : Interior Alaska Mountai	ns	Lat.:	62.9544495	62.954449534 Long.: -148.248034 Datum: WG				
Soil Ma	p Unit Name:				NWI classification: PSS1B				
Are Vo		, or Hydrology	significant naturally p wing sai	tly disturbed? problematic?	(If nee	(If no, explain in Remarks.) Iormal Circumstances" present? eded, explain any answers in Remark s, transects, important feature	•		
	Hydrophytic Vegetation Prese Hydric Soil Present? Wetland Hydrology Present? arks: DUNN SITE 1520 SOIL	Yes No Ves No No C)		Is the Sampled Area within a Wetland? Yes ○ No ●				
	TATION -Use scientific		st all sp	ecies in th	e plot.	Dominance Test worksheet:			
Two	Chunkum		Absolute % Cove			Number of Dominant Species			
1.	e Stratum		0		Status	That are OBL, FACW, or FAC:	4(A)		
2.				-		Total Number of Dominant	4 (D)		
3.				-		Species Across All Strata:	4(B)		
4.			0	- 🗇		Percent of dominant Species That Are OBL, FACW, or FAC:	100.0% (A/B)		
5.			0			Dunyalanga Tuday washishaati			
,		Total Cover	:	_		Prevalence Index worksheet: Total % Cover of: Multip	oly by:		
Sapl	ling/Shrub Stratum	50% of Total Cover:	er: <u>0</u>	OBL Species 45 x 1	• •				
1	Salix richardsonii		35	✓	FACW	FACW Species 55 x 2			
	Salix pulchra		20		FACW	FAC Species 37.1 x 3			
	Vaccinium uliginosum		15		FAC	FACU Species 0.1 x 4			
	Desimbers frutisses		10		FAC	UPL Species 0 x 5			
5.	Betula nana		7		FAC	Column Totals: 137.2 (A)	266.7 (B)		
6.	Empetrum nigrum		5		FAC		<u></u>		
7.	Picea glauca		0.1		FACU	Prevalence Index = B/A =	1.944		
8.	Alnus viridis ssp. crispa		0.1		FAC	Hydrophytic Vegetation Indicators:			
9.			0			✓ Dominance Test is > 50%			
						✓ Prevalence Index is ≤3.0			
Herl	b Stratum	Total Cover 50% of Total Cover:			ver:18.44	Morphological Adaptations ¹ (Provi Remarks or on a separate sheet)			
	Carex aquatilis		35	_	OBL	Problematic Hydrophytic Vegetation	,		
	Eriophorum angustifolium			-	OBL	¹ Indicators of hydric soil and wetland h	ydrology must		
						be present, unless disturbed or problen	iauc.		
						Plot size (radius, or length x width)	_10m		
				-		% Cover of Wetland Bryophytes	_30		
				-		(Where applicable)			
						% Bare Ground			
				-		Total Cover of Bryophytes	_60		
			0	-		Hydrophytic			
		Total Cover	45	_		Vegetation			
		50% of Total Cover:		_	er: <u>9</u>	Present? Yes • No)		
Rema	arks:								

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SOIL Sampling Point: SW13_T190_05

Profile Descript	ion: (Describe to	the depth ne	eded to docum	nent the indicator or co	onfirm the al	bsence of indic	ators)				
Depth		Matrix		Re	dox Feati			-			
(inches)	Color (me	oist)	<u>%</u> _	Color (moist)	_%_	Type ¹	_Loc_ ²	Texture Crannica	Remarks		
0-4			100					Fibric Organics			
4-6	5YR	2.5/1	100					Oe + silt	Flood event?		
6-12	7.5YR	3/1						Sandy Silt Loam	highly organic		
¹Type: C=Cor	ncentration. D	=Depletion	RM=Reduce	ed Matrix ² Location	n: PL=Poi	– ——— re Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pr	roblemati	ic Hydric So	oils: ³				
	r Histel (A1)			Alaska Color C	4						
Histic Epip	pedon (A2)			Alaska Alpine s	swales (TA	\ 5)		Underlying Layer			
Hydrogen	Sulfide (A4)			Alaska Redox \	With 2.5Y	Hue		Other (Explain in Remarks)			
Thick Dark	k Surface (A12	2)		3 One indicator of	f buduan bu	tia vaastatia		name indicator of wetland b	u dvolo ov		
Alaska Gle				and an appropria				nary indicator of wetland h esent	ydrology,		
Alaska Red	` ,			4 Give details of o	olor chanc	ne in Remark	'S				
☐ Alaska Gle	eyed Pores (A1	15)		- Give details of e		je iii riemani					
Restrictive Laye	er (if present):	:									
Type:								Hydric Soil Present	? Yes ○ No •		
Depth (inch	nes):										
Remarks:											
HYDROLO	GY										
Wetland Hyd									cators (two or more are required)		
Primary Indica		is sufficient	:)					Water Stained Leaves (B9)			
						Aerial Imager			Patterns (B10)		
✓ High Water Table (A2)				Sparsely Veg		ncave Surfac	ce (B8)		hizospheres along Living Roots (C3)		
✓ Saturation				Marl Deposit	, ,	(64)		☐ Presence of Reduced Iron (C4) ☐ Salt Deposits (C5) ☐ Stunted or Stressed Plants (D1)			
☐ Water Ma				☐ Hydrogen Su							
	Deposits (B2))		Dry-Season					` '		
☐ Drift Depo				Other (Expla	in in Rema	arks)			ic Position (D2)		
☐ Algai Mat	or Crust (B4)								quitard (D3)		
	osits (B5) oil Cracks (B6)	`						✓ FAC-neutra	graphic Relief (D4)		
Field Observa)						▼ I AC-Heuda	i Test (D3)		
Surface Water		Yes C	No •	Depth (inche	-c)·						
Water Table F			No O		•		Wetlau	nd Hydrology Presen	t? Yes • No O		
Saturation Pre				Depth (inche	•		VV C	ilu ilyulology i 1656	t: 165 C 140 C		
(includes capi		Yes 🖲	No O	Depth (inche	es): 6						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:		_	_	_	_	_	_				

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