WETLAND DETERMINATION DATA FORM - Alaska Region

roject/	Site: Susitna-Watana Hyd	roelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 22-Jun-12		
pplicar	nt/Owner: Alaska Energy A	uthority				Sampling Point: SW12_T25_01		
nvestig	ator(s): JGK	•	l	Landform (hil	lside, terrac	e, hummocks etc.): Hillside		
ocal re	lief (concave, convex, none):	concave		Slope: 36.3	3 % / 20.0	0 ° Elevation: 551		
ubregi	on: Southcentral Alaska		Lat · 6	62.8039999087 Long.: -149.278369967 Datum: WGS84				
_	Unit Name:			22.00000000	01	NWI classification: Upland		
	atic/hydrologic conditions on	the site tomical for this t	ma af vaar) Voc	● No ○	(If no, explain in Remarks.)		
Are Ve Are Ve	egetation , Soil , Soil egetation , Soil	, or Hydrology , or Hydrology ttach site map sho	significantly naturally pro wing sam	disturbed?	Are "N (If nee	formal Circumstances" present? Yes No oded, explain any answers in Remarks.)		
I	Hydrophytic Vegetation Prese			la la	the Com	wled Area		
ŀ	Hydric Soil Present?	Yes O No 🤄		Is the Sampled Area within a Wetland? Yes ○ No ●				
١	Wetland Hydrology Present?	Yes O No 🤄		W	itnin a w	etiand? Tes UNO 9		
Rema	ırks:							
EGE	TATION - Use scientific	names of plants. L	ist all spe	cies in the	plot.			
		·	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree	Stratum		% Cover	Species?	Status	Number of Dominant Species		
1.	Picea glauca		10	✓	FACU	That are OBL, FACW, or FAC: 4 (A)		
2.	Betula neoalaskana		2		FACU	Total Number of Dominant Species Across All Strata: 6 (B)		
3.			0			Percent of dominant Species		
4.			0			That Are OBL, FACW, or FAC: 66.7% (A		
5			0			Prevalence Index worksheet:		
		Total Cover	12_			Total % Cover of: Multiply by:		
Sapli	ng/Shrub Stratum	50% of Total Cover:	6 20%	of Total Cover	2.4	OBL Species0 x 1 =0		
1.	Betula glandulosa		15	✓	FAC	FACW Species 0 x 2 = 0		
2.	Vaccinium uliginosum		30	✓	FAC	FAC Species <u>72</u> x 3 = <u>216</u>		
3.	Empetrum nigrum		20	✓	FAC	FACU Species <u>17</u> x 4 = <u>68</u>		
4.	Ledum groenlandicum		5		FAC	UPL Species0 x 5 =0		
5.			0			Column Totals: <u>89</u> (A) <u>284</u>		
6.			0			Prevalence Index = B/A = 3.191		
7			0			Trevalence index = B/A =		
8			0			Hydrophytic Vegetation Indicators:		
						Dominance Test is > 50%		
10						Prevalence Index is ≤3.0		
Herh	Stratum	Total Cover 50% of Total Cover:		of Total Cove	r: 14	Morphological Adaptations ¹ (Provide supporting data Remarks or on a separate sheet)		
	Calamagrostis canadensis	_	2	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)		
_	O			~	FACU	Indicators of hydric soil and wetland hydrology must		
-	Comus canadensis					be present, unless disturbed or problematic.		
						Plot size (radius, or length x width)		
			_			% Cover of Wetland Bryophytes		
						% Bare Ground		
						Total Cover of Bryophytes 20		
			_					
			0			Hydrophytic		
10.		Total Cover	: 7			Vegetation		
10		50% of Total Cover:		_		Present? Yes • No O		

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SOIL Sampling Point: SW12_T25_01

									F J	10mc 0111_115_01	
	ion: (Describe to t	the depth need Matrix	ded to documer	nt the indic		firm the abs		ators)			
(inches)	Depth ————————————————————————————————————		% (Color (moist)		%	Type ¹	Loc 2	Texture	Remarks	
0-3									Fibric Organics		
3-4	10YR	4/2	80						Sandy Loam	20% roots	
4-7	10YR	2/1	100						Sandy Loam		
7-13	10YR	3/6	100						Sandy Loam		
13-19	10YR	3/2	60 7	7.5YR	5/3	40	С	М	Sandy Clay		
						-					
	-					-					
¹Type: C=Cor	ncentration. D=	Depletion. F					_		nnel. M=Matrix		
Hydric Soil I	ndicators:		I				c Hydric So	oils: ³			
Histosol or	r Histel (A1)				a Color Cha		-		Alaska Gleyed Without Hu	ie 5Y or Redder	
Histic Epip	edon (A2)		L	Alaska Alpine swales (TA5)					Underlying Layer		
	Sulfide (A4)		L	Alaska	a Redox W	ith 2.5Y F	lue	Ш	Other (Explain in Remark	5)	
	Surface (A12)			³ One inc	dicator of h	nvdrophyt	ic vegetatio	n, one prim	nary indicator of wetland h	vdrology,	
Alaska Gle							pe position n			,	
Alaska Red	oox (A14) eyed Pores (A15	3)		4 Give de	etails of col	lor change	e in Remark	s			
		<u> </u>									
Restrictive Laye	er (if present):								Underla Call Drocont	? Yes ○ No •	
Type: Depth (inch	nes):								Hydric Soil Present?	' Yes ∪ No ⊕	
, ,	103).										
Remarks:											
HYDROLO	GY										
Wetland Hydi		tors:							Secondary Indic	cators (two or more are required)	
-	tors (any one is									ned Leaves (B9)	
Surface W	Vater (A1)			Inur	ndation Vis	sible on A	erial Imager	y (B7)	Drainage P	atterns (B10)	
High Wate	er Table (A2)			Spa	rsely Vege	tated Con	ncave Surfac	ce (B8)		nizospheres along Living Roots (C3)	
Saturation					l Deposits	. ,				f Reduced Iron (C4)	
Water Ma					lrogen Sulf				Salt Deposi		
	Deposits (B2)			_ `	-Season W					Stressed Plants (D1)	
☐ Drift Depo	` ,			∐ Oth	er (Explain	ı in Rema	rks)			c Position (D2)	
☐ Algai Mat	or Crust (B4)								☐ Shallow Aq	uitard (D3) raphic Relief (D4)	
	oil Cracks (B6)								FAC-neutra		
Field Observa										1031 (03)	
Surface Water		$_{Yes}$ \bigcirc	No •	Der	oth (inches	s):					
Water Table P		Yes 〇	No •	·	th (inches	•		Wetlar	nd Hydrology Present	t? Yes ○ No •	
Saturation Pre		Yes O		·	•	•			,		
(includes capi		res \smile	NO S	Dep	oth (inches	·):					
Describe Recor	ded Data (strea	am gauge, n	nonitor well,	aerial ph	otos, previ	ious inspe	ction) if ava	ilable:			
Remarks:											
Kemaiks.											

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