WETLAND DETERMINATION DATA FORM - Alaska Region

		oelectric Project			gh/City:	Widtariasi	a-Susitna Borough Sampling Date:	27-Jun-12	
Applicant/C	wner: Alaska Energy Au	uthority					Sampling Point: SI	W12_T24_07	
nvestigato				Land	Landform (hillside, terrace, hummocks etc.): Lowland Slope: 3.5 % / 2.0 ° Elevation: 799				
ocal relief	(concave, convex, none):	hummocky		– Slop					
Subregion :	Copper River Basin		l at ·	62.6648299083				atum: WGS84	
oil Map Ur				02.00	14023300				
-	-				V	● No ○	NWI classification: PSS4B		
Are Veget Are Veget	tation , Soil	, or Hydrology , or Hydrology	significar naturally	ntly disto probler	urbed? natic?	Are "N (If nee	(If no, explain in Remarks.) formal Circumstances" present? ded, explain any answers in Remarks.) s, transects, important features, explain any answers in Remarks.)		
Hyd	rophytic Vegetation Preser	nt? Yes 💿	No O						
Hyd	ric Soil Present?	Yes 💿	No O		Is the Sampled Area				
•	tland Hydrology Present?	Yes	No O		W	ithin a W	/etland? Yes ◉ No ○		
Remarks	, 0,								
'EGETA	TION - Use scientific	names of plan	ts. List all sp		in the	plot.	Dominance Test worksheet:		
Tree Str	atum		% Cove		ecies?	Status	Number of Dominant Species That are OBL, FACW, or FAC:	3 (A)	
1. Pic	ea mariana		5	_	✓	FACW	Total Number of Dominant	<u>3</u> (A)	
2.			0	_			Species Across All Strata:	3(B)	
3			0	_			Percent of dominant Species		
4			0	_			That Are OBL, FACW, or FAC: 1	00.0% (A/B)	
5			0	_			Prevalence Index worksheet:		
		Total (Cover: <u>5</u>	_			Total % Cover of: Multiply I	by:	
Sapling	Shrub Stratum	50% of Total Cover	: <u>2.5</u> 20	% of To	tal Cover	1	OBL Species 3 x 1 =	3	
1. Pic	ea mariana		40)	✓	FACW	FACW Species 61 x 2 =	122	
2. Bet	tula nana			—)		FAC	FAC Species63 x 3 =	189	
3. Va	ccinium uliginosum			—)		FAC	FACU Species 0 x 4 =	0	
	dum decumbens		5			FACW	UPL Species 0 x 5 =	0	
5. Em	petrum nigrum		7			FAC	Column Totals: <u>127</u> (A)	314 (B	
6. Sal	ix pulchra			_		FACW	, ,		
7. And	dromeda polifolia(CRP)			_		OBL	Prevalence Index = B/A =	2.472	
8.			0				Hydrophytic Vegetation Indicators:		
9.			0				✓ Dominance Test is > 50%		
10.			0				✓ Prevalence Index is ≤3.0		
Herb St	ratum	Total 6			otal Cove	: 15.6	Morphological Adaptations ¹ (Provide s Remarks or on a separate sheet)		
1. <u>Ca</u>	rex bigelowii		30)	✓	FAC	Problematic Hydrophytic Vegetation ¹	(Explain)	
2. Ru	bus chamaemorus		3			FACW	¹ Indicators of hydric soil and wetland hydro		
3. Pet	tasites frigidus		1	_		FACW	be present, unless disturbed or problemation		
4. Eq	uisetum arvense			_		FAC	Plot size (radius, or length x width)	_10m	
5. <u>Ca</u>	rex canescens(CRP)			_		FAC	% Cover of Wetland Bryophytes	10111	
6. Eric	ophorum russeolum			_		FACW	(Where applicable)		
7. <u>Ca</u>	rex rotundata			_		OBL	% Bare Ground		
8. <u>Ca</u>	Itha palustris			_		OBL	Total Cover of Bryophytes		
9				_					
10			0	_			Hydrophytic		
		Total (Vegetation Present? Yes No		
		50% of Total Cover	: <u>22</u> 20	% of To	tal Cover	8.8	Present? Yes • No •		

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SOIL Sampling Point: SW12_T24_07

	tion: (Describe to	the depth r	eeded to doo	ument the inc		nfirm the ab		cators)		
Depth (inches)				Color (moist)					Texture	Remarks
0-7	Color (mo		<u>%</u> 95	7.5YR		<u>%</u> 5	Type ¹	<u>Loc</u> ²	Loamy Sand	Kemarks
	2.5Y	3/2			3/3+			PL		
7-10	2.5Y	4/3	60	10YR	4/4	2	_ <u>C</u>	PL	Loamy Sand	2.5Y3/2 also ca. 38%
10-16		4/2	40	10YR	4/4	40	C	PL	Loamy Sand	20% incl of 2.5y 4/3 and 2.5y 3/2. con PL &
										_
¹Type: C=Co	ncentration. D	=Depletior	n. RM=Redu	iced Matrix	² Location	n: PL=Por	e Lining. R	C=Root Cha	annel. M=Matrix	_
Hydric Soil	Indicators:			Indicat	ors for Pr	oblemati	c Hydric S	oils: ³		
	or Histel (A1) pedon (A2)				ka Color Ch ka Alpine si		-		Alaska Gleyed Without Underlying Layer	Hue 5Y or Redder
	Sulfide (A4)			Alas	ka Redox V	Vith 2.5Y H	Hue		Other (Explain in Rema	rks)
	k Surface (A12 eyed (A13) edox (A14))		and an	appropriat	e landscap	e position	must be pro	nary indicator of wetland esent	hydrology,
Alaska Gl	eyed Pores (A1	5)		4 Give	details of co	olor chang	e in Remarl	ks		
Restrictive Lay	er (if present):								Hydric Soil Presen	nt? Yes • No O
Depth (inc	hes):									
HYDROLO)GY									
Wetland Hyd	lrology Indica	tors:							Secondary Inc	dicators (two or more are required)
Primary Indic	ators (any one	is sufficier	nt)						Water St	ained Leaves (B9)
✓ Surface \	Water (A1)			In	undation Vi	isible on A	erial Image	ery (B7)	_	Patterns (B10)
High Wa	ter Table (A2)			☐ Sp	arsely Vege	etated Cor	ncave Surfa	ce (B8)	Oxidized	Rhizospheres along Living Roots (C3)
Saturation	` '				arl Deposits	` '				of Reduced Iron (C4)
Water Ma				∐ Ну	drogen Sul	lfide Odor	(C1)		☐ Salt Depo	` '
	t Deposits (B2)				y-Season V		. ,			or Stressed Plants (D1)
	osits (B3)			∐ Ot	her (Explai	n in Rema	rks)			hic Position (D2)
	t or Crust (B4)									Aquitard (D3)
	osits (B5)								_	ographic Relief (D4)
	Soil Cracks (B6)								✓ FAC-neut	ral Test (D5)
Field Observ										
Surface Wate	er Present?		No O		epth (inche	s): 3				
Water Table	Present?	Yes(○ No ⊙	De	epth (inche	s):		Wetla	nd Hydrology Prese	nt? Yes 💿 No 🔾
Saturation Pr (includes cap		Yes (No O	De	epth (inche	s): 0				
Describe Reco	rded Data (stre	am gauge	e, monitor w	ell, aerial p	hotos, prev	vious inspe	ection) if av	ailable:		
Remarks:										
		v saturatio	n, thus do	not meet A	3. small are	as of pond	ded water a	and obl veg	etation, water ~3in deep	. positive rxn to a,a-dipyridol in soils

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