WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroeled	tric Project		Borough/City	/: Matanusk	a-Susitna Borough Sampling	Date: 08-Aug-12
Applica	ant/Owner: Alaska Energy Author	ity				Sampling Point:	SW12_T44_52
Investi	gator(s): SLI, KMK	,		Landform (hillside, terrac	e, hummocks etc.): Terrace	<u> </u>
Local r		ımmocky		Slope:	% / 0.4		
	jion: Interior Alaska Mountains		l at ·	 62.8887164	 1758	Long.: -148.465237329	Datum: NAD83
-	p Unit Name:		Lut	02.0007 10-	+7 30		
		(. (((0 V	es No	NWI classification:	
	matic/hydrologic conditions on the si regetation \Box , Soil \Box , or		•			(If no, explain in Remarks.) Yes ● No ○
		, ,,	•	itly disturbed		lormal Circumstances" present?	
Are v	'egetation ☐ , Soil ✓ , or	Hydrology \square r	naturally	problematic?	(If nee	eded, explain any answers in Rem	narks.)
SUM	MARY OF FINDINGS - Attach	n site map shov	ving sa	mpling poi	nt locations	s, transects, important feat	ures, etc.
	Hydrophytic Vegetation Present?	Yes ● No ○	ı		la tha Cam	unland Awara	
	Hydric Soil Present?	Yes ● No ○			Is the Sam	- 0	$\widehat{}$
	Wetland Hydrology Present?	Yes ● No ○		J	within a W	Ctiana i	
Rema	arks: complex of shrubby and emerg	ent vegetation w s	tanding a	and flowing v	vater. misnam	ed arcpad points as _01 to _03, r	ather than _50 to _52.
VEGE	TATION - Use scientific nam	es of plants. Li	st all sc	ecies in th	ne plot.		
			Absolut		t Indicator	Dominance Test worksheet:	
Tre	e Stratum		% Cove			Number of Dominant Species	
1.	Picea mariana		5	✓	FACW	That are OBL, FACW, or FAC:	6(A)
2.			0			Total Number of Dominant Species Across All Strata:	6 (B)
3.			0			Percent of dominant Species	
4.			0			That Are OBL, FACW, or FAC:	100.0% (A/B)
5.			0			Prevalence Index worksheet:	
		Total Cover:	5				Iultiply by:
Sap	ling/Shrub Stratum 50%	of Total Cover:	2.5 20	% of Total Cov	ver:1	OBL Species 42	x 1 = 42
1	Salix pulchra		7		FACW	FACW Species 18	x 2 = 36
	Retula nana		- 5		FAC	FAC Species 42	x 3 = 126
3.	Dasinhara fruticosa		15	- =	FAC	FACU Species 5	x 4 = 20
4.	Picca mariana		2		FACW	UPL Species 0	x 5 = 0
5.	Dioca glaves				FACU	Column Totals: 107	(A) 224 (B)
6.	Francisco nigrum		3		FAC		,
7.	Vaccinium uliginosum		15	✓	FAC	Prevalence Index = B/A =	2.093
8.	Vaccinium oxycoccos		1		OBL	Hydrophytic Vegetation Indicat	ors:
9.			0			✓ Dominance Test is > 50%	
10.			0			✓ Prevalence Index is ≤3.0	
		Total Cover:				☐ Morphological Adaptations ¹ (I	Provide supporting data in
Her	b Stratum 50%	of Total Cover:	26.5 20	_	ver: <u>10.6</u>	Remarks or on a separate she	eet)
1.	Eriophorum angustifolium		_10		OBL	Problematic Hydrophytic Vege	
2.					OBL	¹ Indicators of hydric soil and wetlan	
3.	Carex rostrata		15		OBL	be present, unless disturbed or pro	ppiematic.
4.			2	-	FACW	Plot size (radius, or length x width)	_10m
5.	Calamagrostis canadensis		3	-	FAC	% Cover of Wetland Bryophytes	
6.	Equisetum palustre		1	-	FACW	(Where applicable)	
7.	Carex gynocrates		3	-	OBL	% Bare Ground	_10
8.	Carex magellanica		3	-	OBL FACW	Total Cover of Bryophytes	85
9.	Rubus chamaemorus		1	-	FAC		
10.	Equisetum arvense	Total Cover:		_	1 AC	Hydrophytic Vegetation	
	50%			_ % of Total Cov	ver: 9.8	Present? Yes •	No O
_						I	
Rem		a, thalictrum alpinu				nsis, carex membranacea, valeria	

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SOIL Sampling Point: SW12_T44_52

Depth	Ma	atrix	R	edox Featu	res			
(inches)	Color (mois	t) %	Color (moist)	<u>%</u>	Type ¹	<u>Loc</u> 2	Texture	Remarks
								-
	-							
Type: C=Con		aplation PM-E	educed Matrix ² Location	on: DI –Por	Lining DC	——————————————————————————————————————	nnol M-Matrix	-
		epiedon. Kin-K	Indicators for F				illiei. M-Mauix	
ydric Soil Ir			Alaska Color		4	olis:	Alaska Clayed Without H	luo EV or Doddor
_	Histel (A1)		Alaska Color V		-		Alaska Gleyed Without H Underlying Layer	lue 5Y or Redder
Histic Epip	edon (AZ) Sulfide (A4)		Alaska Redox	`	,	~	Other (Explain in Remar	ks)
_ , ,	Surface (A12)		Alaska Redox	With 2.51 1	iuc		()	-,
Alaska Gle	, ,						nary indicator of wetland I	nydrology,
Alaska Red			and an appropri	ate landscap	e position i	nust be pre	esent	
_	yed Pores (A15)		4 Give details of	color change	e in Remark	(S		
strictive Laye	er (if present):							
Type:	,						Hydric Soil Present	:? Yes • No O
1,700.							•	
Depth (inch		dation and hydr	ophytic vegetation					
Depth (inch		dation and hydr	ophytic vegetation					
Depth (inchemarks: sume hydric s	soils due to inun		ophytic vegetation					
Depth (inchemarks: sume hydric s YDROLO Vetland Hydri	GY rology Indicato	ors:	ophytic vegetation					icators (two or more are required)
Depth (inchemarks: sume hydric s YDROLO Yetland Hydrimary Indicate	GY Tology Indicate tors (any one is	ors:					Water Sta	ined Leaves (B9)
Pepth (inchemarks: sume hydric s YDROLO etland Hydr rimary Indicat Surface W	GY rology Indicate tors (any one is later (A1)	ors:	Inundation	Visible on A	_		Water Sta	ined Leaves (B9) Patterns (B10)
Depth (inchemarks: sume hydric s YDROLO etland Hydrimary Indicat Surface W High Wate	GY rology Indicate tors (any one is fater (A1) er Table (A2)	ors:	☐ Inundation ☐ Sparsely Ve	getated Con	_		Water Sta Drainage I Oxidized R	ined Leaves (B9) Patterns (B10) Khizospheres along Living Roots (C
Popth (inchermarks: Sume hydric s POROLO etland Hydrimary Indicat Surface W High Wate Saturation	GY rology Indicate tors (any one is later (A1) er Table (A2)	ors:	☐ Inundation☐ Sparsely Ve☐ Marl Depos	getated Con its (B15)	icave Surfa		Water Sta Drainage I Oxidized F	ined Leaves (B9) Patterns (B10) khizospheres along Living Roots (C of Reduced Iron (C4)
Popth (incher and popular imary Indicated Sturation Water Mail	GY rology Indicate tors (any one is later (A1) er Table (A2) 1 (A3) rks (B1)	ors:	☐ Inundation☐ Sparsely Ve☐ Marl Depos☐ Hydrogen S	getated Con its (B15) sulfide Odor	cave Surfac		Water Sta Drainage I Oxidized F Presence 0 Salt Depos	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C of Reduced Iron (C4) sits (C5)
POPPOLO etland Hydrimary Indicated Saturation Water Man	GY rology Indicate tors (any one is later (A1) er Table (A2) (A3) rks (B1) Deposits (B2)	ors:	Inundation Sparsely Ve Marl Depos Hydrogen S Dry-Season	getated Con its (B15) Julfide Odor Water Table	cave Surfac		Water Sta Drainage I Oxidized F Presence C Salt Depos	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C of Reduced Iron (C4) sits (C5) r Stressed Plants (D1)
POROLO Control Cont	GY rology Indicate tors (any one is later (A1) er Table (A2) a (A3) rks (B1) Deposits (B2) sists (B3)	ors:	Inundation Sparsely Ve Marl Depos Hydrogen S Dry-Season	getated Con its (B15) sulfide Odor	cave Surfac		Water Sta Drainage I Oxidized F Presence o Salt Depos Stunted or Geomorph	ined Leaves (B9) Patterns (B10) thizospheres along Living Roots (C of Reduced Iron (C4) sits (C5) r Stressed Plants (D1) sic Position (D2)
POROLO Control Cont	GY rology Indicate tors (any one is rater (A1) er Table (A2) (A3) rks (B1) Deposits (B2) osits (B3) or Crust (B4)	ors:	Inundation Sparsely Ve Marl Depos Hydrogen S Dry-Season	getated Con its (B15) Julfide Odor Water Table	cave Surfac		Water Sta Drainage I Oxidized F Presence o Salt Depos Stunted or Geomorph Shallow Ad	ined Leaves (B9) Patterns (B10) thizospheres along Living Roots (C of Reduced Iron (C4) sits (C5) r Stressed Plants (D1) iic Position (D2) quitard (D3)
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