WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydi	roelectric Project	В	orough/City:	Matanusk	xa-Susitna Borough Sampling Date: 02-Aug-13
Applica	ant/Owner: Alaska Energy A	uthority				Sampling Point: SW13_T177_08
Investig	gator(s): BAB	, , , , , , , , , , , , , , , , , , ,	I	Landform (hill	side, terrac	e, hummocks etc.): Lowland
	elief (concave, convex, none):	concave		Slope:	% / 1.5	
	jion: Interior Alaska Mountair		lat: 6	· 63.073412291		Long.: -148.092847214 Datum: NAD83
_		15		00.07 04 1229	10	
	p Unit Name:			. V	No ○	NWI classification: PEM1E
Are V	natic/hydrologic conditions on egetation , Soil egetation , Soil	, or Hydrology S	ignificantly	disturbed? oblematic?	Are "N	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.)
SUMN	MARY OF FINDINGS - A	ttach site map shov	ing sam	pling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Prese	nt? Yes No				
	Hydric Soil Present?	Yes ● No ○				pled Area
	Wetland Hydrology Present?	Yes ● No ○		wi	thin a W	etland? Yes ● No ○
Rema						
	ETATION - Use scientific	names of plants. Lis	st all spe	cies in the Dominant Species?	•	Dominance Test worksheet: Number of Dominant Species
1.	e Stratum	•	0		Status	That are OBL, FACW, or FAC:4(A)
2.			0			Total Number of Dominant
3.				\Box		Species Across All Strata: 4 (B)
4.			0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
5.			0			Parameter of Tandara annuluda anti-
		Total Cover:	0			Prevalence Index worksheet: Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum	50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species 15.1 x 1 = 15.1
1	Potulo nono		8	~	FAC	FACW Species 13.2 x 2 = 26.40
	Betula nana Salix pulchra				FACW	FAC Species 12.2 x 3 = 36.60
3.	Vaccinium uliginosum		3	<u> </u>	FAC	FACU Species 0 x 4 = 0
4.	Empetrum nigrum		1		FAC	UPL Species 0 x 5 = 0
5.	Rhododendron tomentosum		0.1		FACW	
6.	Andromeda polifolia (IAM)		0.1		OBL	Column Totals: <u>40.5</u> (A) <u>78.10</u> (B)
7.	, , , , , , , , , , , , , , , , , , , ,					Prevalence Index = B/A = 1.928
8.			0			Hydrophytic Vegetation Indicators:
9.			0			✓ Dominance Test is > 50%
10.			0			✓ Prevalence Index is ≤3.0
Her	b Stratum	Total Cover: 50% of Total Cover:		of Total Cover	: <u>2.84</u>	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1.	Carex aquatilis		3		OBL	Problematic Hydrophytic Vegetation (Explain)
2.	Eriophorum angustifolium		3		OBL	¹ Indicators of hydric soil and wetland hydrology must
3.	Carex membranacea		10	\	FACW	be present, unless disturbed or problematic.
4.	Eriophorum scheuchzeri		3		OBL	Plot size (radius, or length x width)
5.			1		FACW	% Cover of Wetland Bryophytes
6.			0.1		FAC	(Where applicable)
7.			0.1		OBL FAC	% Bare Ground 30
8.	Trichophorum caespitosum		1		OBL	Total Cover of Bryophytes3
9.	Trichophorum caespitosum Juncus castaneus		0.1		FACW	
10.	סטווטטט טמטנמווכטט	Total Cover:	26.3		1 7011	Hydrophytic Vegetation
		50% of Total Cover:13		of Total Cover:	5.26	Present? Yes No
Ram	arks' chruhe moetly on costs	ered mounds				
Rem	arks: shrubs mostly on scatt 3 unk juncus trace	50% of Total Cover: 13		of Total Cover:	5.26	

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SOIL Sampling Point: SW13_T177_08

Depth	Matrix		Re	dox Featur			-	
	moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
<u>0-12</u>		100					Fibric Organics	-
12-19							Hemic Organics	
Type: C=Concentration			ed Matrix ² Locatic	n: DI –Dore	Lining PC	-Poot Cha	unnal M-Matriy	-
	D-Depletioi	. KM-Reduce	Indicators for P		_		inner. M-Maurx	
Hydric Soil Indicators:			Alaska Color C		4	olis:	l Maria dia administra	. 5V . D. H.
Histosol or Histel (A1					-		Alaska Gleyed Without H Underlying Layer	ue 5Y or Redder
Histic Epipedon (A2)			Alaska Alpine		•		Other (Explain in Remark	·s)
✓ Hydrogen Sulfide (A4			☐ AldSkd RedOX	WIUI Z.51 FI	ue		Outer (Explain in Remain	
Thick Dark Surface (A	12)		³ One indicator o	f hydrophytic	c vegetatio	n, one prin	nary indicator of wetland h	ydrology,
Alaska Gleyed (A13)			and an appropria					,
☐ Alaska Redox (A14) ☐ Alaska Gleyed Pores	A1E\		4 Give details of o	color change	in Remark	S		
	-							
Restrictive Layer (if prese	t):							.
Type:							Hydric Soil Present	? Yes ● No O
* *								
Depth (inches): Remarks:								
Depth (inches):								
Depth (inches):								
Depth (inches): Remarks:	icators:						_Secondary Indi	cators (two or more are required)
Depth (inches): Remarks: HYDROLOGY		t)						cators (two or more are required) ned Leaves (B9)
Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Inc		t)	☐ Inundation \	√isible on Ae	erial Imagei	y (B7)	Water Stai	
Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Inc Primary Indicators (any of the company of the comp	ne is sufficier	t)	☐ Inundation \		_		Water Stai Drainage F	ned Leaves (B9)
Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Inc Primary Indicators (any of Surface Water (A1) High Water Table (A Saturation (A3)	ne is sufficier	t)	Sparsely Veg Marl Deposit	getated Cond ts (B15)	cave Surfac		Water Stai Drainage F Oxidized R Presence of	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) f Reduced Iron (C4)
Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Inc Primary Indicators (any of the company of the comp	ne is sufficier	t)	Sparsely Veg	getated Cond ts (B15)	cave Surfac		Water Stai Drainage F Oxidized R	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) f Reduced Iron (C4)
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Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Inc Primary Indicators (any of Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (I	ne is sufficier	t)	Sparsely Veg Marl Deposit Hydrogen St Dry-Season	getated Cond ts (B15) ulfide Odor (Water Table	cave Surface (C1)		Water Stai □ Drainage F □ Oxidized R □ Presence o □ Salt Depos □ Stunted or ☑ Geomorph	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) f Reduced Iron (C4) its (C5) Stressed Plants (D1)
Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Inc Primary Indicators (any of the color of the colo	ne is sufficier	t)	Sparsely Veg Marl Deposit Hydrogen St Dry-Season	getated Cond ts (B15) ulfide Odor (Water Table	cave Surface (C1)		Water Stai □ Drainage F □ Oxidized R □ Presence c □ Salt Depos □ Stunted or ☑ Geomorph □ Shallow Ac	ned Leaves (B9) Patterns (B10) Patterns (B10) Patterns (B10) Patterns (C3) Patterns (C4) Patterns (C5) Patterns (C
Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Inc Primary Indicators (any of the color of the colo	ne is sufficier 2) 2)	t)	Sparsely Veg Marl Deposit Hydrogen St Dry-Season	getated Cond ts (B15) ulfide Odor (Water Table	cave Surface (C1)		Water Stai □ Drainage F □ Oxidized R □ Presence c □ Salt Depos □ Stunted or ☑ Geomorph □ Shallow Ac	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4) its (C5) Stressed Plants (D1) ic Position (D2) quitard (D3) graphic Relief (D4)
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