WETLAND DETERMINATION DATA FORM - Alaska Region

Project/:			prough/City:		- Alaska Region a-Susitna Borough Sampling Date: 04-Jul-13
Applicar	nt/Owner: Alaska Energy Authority				Sampling Point: SW13_T124_01
Investig		L	_andform (hil	lside. terrac	e, hummocks etc.): Shoulder slope
-	lief (concave, convex, none): concave		Slope:	%/ 5.3	
Subregi	on : Southcentral Alaska	Lat.: 6	62.772884250	 04	Long.: -149.092552543 Datum: NAD83
Soil Map	o Unit Name:				NWI classification: Upland
	atic/hydrologic conditions on the site typical for this t	ime of vear?	y Yes	• No ()	(If no, explain in Remarks.)
		significantly			lormal Circumstances" present? Yes \odot No \bigcirc
Are Ve		naturally pro	oblematic?		eded, explain any answers in Remarks.)
SUMM	ARY OF FINDINGS - Attach site map sho				
H	Hydrophytic Vegetation Present? Yes \bigcirc No (_		
Hydric Soil Present? Yes O No 🔍					pled Area
Wetland Hydrology Present? Yes O No 🔍			w	ithin a W	etland? Yes 🔾 No 🖲
	rks: flat shoulder below knob, mixed dwarf shrub, roo TATION - Use scientific names of plants. L			plot.	
		Absolute	Dominant Species?	Indicator	Dominance Test worksheet: Number of Dominant Species
1.	Stratum	<u>% Cover</u>		Status	That are OBL, FACW, or FAC: (A)
2.		0			Total Number of Dominant Species Across All Strata: 6 (B)
3.		0			
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: <u>33.3%</u> (A/B)
5.		0			Prevalence Index worksheet:
	Total Cover	. 0			Total % Cover of: Multiply by:
Sapli	ng/Shrub Stratum 50% of Total Cover:	0 20% (of Total Cover	:	OBL Species $0 \times 1 = 0$
1.	Salix arctica	5		FACU	FACW Species $5 \times 2 = 10$
-	Vaccinium uliginosum	20	\checkmark	FAC	FAC Species 35.1 x 3 = 105.3
-	Rhododendron tomentosum	5		FACW	FACU Species44 x 4 =176
4.	Loiseleuria procumbens	10	\checkmark	FACU	UPL Species <u>11</u> x 5 = <u>55</u>
5.	Betula nana	5		FAC	Column Totals: 95.1 (A) 346.3 (B)
6.	Betula neoalaskana	1		FACU	Prevalence Index = B/A = 3.641
7.	Arctous alpinus	20		FACU	Prevalence Index = B/A = <u>3.641</u>
8	Empetrum nigrum	5		FAC	Hydrophytic Vegetation Indicators:
9.	Dryas ajanensis	10		UPL	Dominance Test is > 50%
10.		0			Prevalence Index is ≤3.0
Total Cover: 81 Herb Stratum 50% of Total Cover: 40.5 20% of Total Cover: 16.2				Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
1.	Anthoxanthum monticola ssp. alpinum	3	\checkmark	UPL	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Carex podocarpa	- <u> </u>	\checkmark	FAC	¹ Indicators of hydric soil and wetland hydrology must
3.	Anemone narcissiflora	г Г	\checkmark	FACU	be present, unless disturbed or problematic.
4.	Carex bigelowii	2		FAC	Plot size (radius, or length x width)
5.	Oxytropis maydelliana	1		UPL	% Cover of Wetland Bryophytes
6.	Tofieldia coccinea	0.1		FAC	(Where applicable)
					% Bare Ground _5
					Total Cover of Bryophytes
10.		0			Hydrophytic
	Total Cover 50% of Total Cover:		of Total Cover	: 2.82	Vegetation Present? Yes O No •

Remarks: collected oxy and carpod, confirmed id. frut lichens 40, flacuc, claste, claran, flaniv, aultur, polyt

Primary Indicators (anv one is sufficient) Water St Surface Water (A1) Inundation Visible on Aerial Imagery (B7) Drainage High Water Table (A2) Sparsely Vegetated Concave Surface (B8) Oxidized Saturation (A3) Marl Deposits (B15) Presence Water Marks (B1) Hydrogen Sulfide Odor (C1) Salt Depo Sediment Deposits (B2) Dry-Season Water Table (C2) Stunded of Geomorp Algal Mat or Crust (B4) Shallow A Shallow A Iron Deposits (B5) Microtop Microtop	
3-6 7.5YR 2.5/3 100 Leamy Sand 6-20 10YR 3/4 100 Leamy Sand 7 100 Indicator of Notellingt, RC=Root Channel. M=Matrix Hydric Soil Indicators: Indicator of Notellingt, RC=Root Channel. M=Matrix Hydric Soil Indicators: Indicator of Notellingt, RC=Root Channel. M=Matrix Histos of rotards (A12) Alaska Redox (Wth 2/2) Y Hue Other (Explain in Rema Alaska Gleyed (A13) Alaska Redox (A14) Alaska Redox (A14) Alaska Gleyed (N13) 4 Give details of color change in Remarks Restrictive Layer (If present): Type: Depth (inches): Remarks: Basta Redox (A14) <th>Remarks</th>	Remarks
6-20 10YR 3/4 100 Lowny Sand 1 Idasta Reduced Matrix ² Location: PL=Pore Lining, RC=Root Channel, M=Matrix Hydric Soli Indicators: Indicator for Problematic Hydric Soils? Alaska Alpine swales (TA5) Underlying Layer 1 Histo Epipedin (A2) Alaska Alpine swales (TA5) Other (Explain in Remarks 1 Alaska Redux (A13) and an appropriate landscape position must be present Alaska Redux (A14) 1 Alaska Redux (A14) 4 Give details of color change in Remarks Hydric Soil Present Puppic (Inches): Wetland Hydrology Indicators: Secondary In Divide Kats Primary Indicators (any one is sufficient) Inundation Visible on Aerial Imagery (87) Orainage 1 High Wa	high organic content and gravel
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix. ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix. High: Soil Indicators: Indicators for Problematic Hydric Soils. ² Histosol or Histel (A1) Alaska Alpine swales (TA5) Histosol or Histel (A1) Alaska Alpine swales (TA5) Histosol or Histel (A1) Alaska Redox With 2.5Y Hue Histosol or Histel (A1) Alaska Redox With 2.5Y Hue Hitts Dark Surface (A12) ³ One indicator of hydrophytic vegetation, one primary indicator of wetland and an appropriate landscape position must be present Alaska Gleyed (A13) ³ One indicator of color change in Remarks Restrictive Layer (if present): Type: Type: Depth (inches): Remarks: No hydric soil indicators No finary Indicators Secondary In High Water Table (A2) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Dysarsely Vegetated Concave Surface (B8) High Water Table (A2) Dysarsely Vegetated Concave Surface (B8) High Water Table (A2) Dysarsely Vegetated Concave Surface (B8) Balawater Marks (B1) Hydrogens Suffice Odar (C1) Satuaton (A3) High	gravel and cobbles
* Type: C=Concentration. D=Depletion. RM=Reduced Matrix * Location: PL=Pore Lining. RC=Root Channel. M=Matrix * Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ Histosol or Histel (A1) Alaska Alpine swales (TA5) Underlying Layer Histosol or Histel (A1) Alaska Redox With 2.5Y Hue Other (Explain in Remarks) Histic Epipedon (A2) Alaska Redox With 2.5Y Hue Other (Explain in Remarks) Histic Epipedon (A2) Alaska Redox With 2.5Y Hue Other (Explain in Remarks) Alaska Gleyed (A13) * One indicator of hydrophytic vegetation, one primary indicator of wetland and an appropriate landscape position must be present. Alaska Gleyed Pores (A15) * Give details of color change in Remarks Restrictive Layer (if present): Type: Type: Depth (Inches): Remarks: No hydric soil Indicators: Pinnary Indicators (any one is sufficient) Inundation Visible on Aerial Imagery (87) Onialage High Water Table (A2) Sparsety Vegetated Concave Surface (88) Oxidized Sturation (A3) Mult Deposits (815) Presence High Water Table (A2) Sparsety Vegetated Concave Surface (88) Oxidized Sturatace (13) Hydrogen Sufface Odd (C1) <td>gravel and cobbles</td>	gravel and cobbles
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□ Saturation (A3) □ Marl Deposits (B15) □ Presence □ Water Marks (B1) □ Hydrogen Sulfide Odor (C1) □ Salt Depo □ Sediment Deposits (B2) □ Dry-Season Water Table (C2) □ Stunted of □ Drift Deposits (B3) □ Other (Explain in Remarks) □ Geomorp □ Algal Mat or Crust (B4) □ Surface Soil Cracks (B6) □ Microtopi □ Surface Soil Cracks (B6) □ Depth (inches): □ Methods Field Observations: Surface Water Present? Yes<	Patterns (B10)
Water Marks (B1) Hydrogen Sulfide Odor (C1) Salt Deparement Deparement Set Deparement Deposits (B2) Drift Deposits (B3) Dry-Season Water Table (C2) Stunted of Sediment Deposits (B3) Algal Mat or Crust (B4) Other (Explain in Remarks) Geomorp Iron Deposits (B5) Microtopi Surface Soil Cracks (B6) FAC-neut Field Observations: Depth (inches): Surface Water Present? Yes No ● Depth (inches): Saturation Present? Yes Saturation Present? Yes No ● Depth (inches): Depth (inches): Wetland Hydrology Prese Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	Rhizospheres along Living Roots (C3)
□ Sediment Deposits (B2) □ Dry-Season Water Table (C2) □ Stunted of □ Drift Deposits (B3) □ Other (Explain in Remarks) □ Geomorp □ Algal Mat or Crust (B4) □ Shallow / □ Shallow / □ Iron Deposits (B5) □ Microtopi □ Surface Soil Cracks (B6) □ Depth (inches): Field Observations: Surface Water Present? Yes<	of Reduced Iron (C4)
□ Drift Deposits (B3) □ Other (Explain in Remarks) □ Geomorp □ Algal Mat or Crust (B4) □ Shallow / □ Shallow / □ Iron Deposits (B5) □ Microtop □ Surface Soil Cracks (B6) □ FAC-neut Field Observations: □ Depth (inches): Surface Water Present? Yes No ○ Depth (inches): □ Depth (inches): Saturation Present? Yes No (includes capillary fringe) Yes No Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: □	sits (C5)
☐ Algal Mat or Crust (B4) ☐ Shallow / ☐ Iron Deposits (B5) ☐ Microtopi ☐ Surface Soil Cracks (B6) ☐ FAC-neut Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Saturation Present? Yes No Includes capillary fringe) Yes No Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: Yes	or Stressed Plants (D1)
□ Iron Deposits (B5) □ Microtop □ Surface Soil Cracks (B6) □ FAC-neut Field Observations: □ Fac-neut Surface Water Present? Yes No<	hic Position (D2)
□ Surface Soil Cracks (B6) □ FAC-neut Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Wetland Hydrology Prese Saturation Present? Yes No Depth (inches): Wetland Hydrology Prese Saturation Present? Yes No Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	quitard (D3)
Field Observations: Surface Water Present? Yes No Depth (inches): Wetland Hydrology Present Water Table Present? Yes No Depth (inches): Wetland Hydrology Present Saturation Present? Yes No Depth (inches): Wetland Hydrology Present Saturation Present? Yes No Depth (inches): Wetland Hydrology Present Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	ographic Relief (D4)
Surface Water Present? Yes No Depth (inches): Wetland Hydrology Present Water Table Present? Yes No Depth (inches): Wetland Hydrology Present Saturation Present? (includes capillary fringe) Yes No Depth (inches): Wetland Hydrology Present Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) If available:	ral Test (D5)
Water Table Present? Yes No Depth (inches): Wetland Hydrology Presents Saturation Present? (includes capillary fringe) Yes No Depth (inches): Wetland Hydrology Presents Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: No Image: Comparison of the stream gauge in th	
Saturation Present? (includes capillary fringe) Yes No Depth (inclus): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	
(includes capillary fringe) Yes Vio Pepth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	nt? Yes 🔾 No 🖲
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