WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 29-Aug-15
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW15_T344_01
nvestigator(s): JGK		Landform (hill	lside, terrac	e, hummocks etc.): Mountainslope
Local relief (concave, convex, none): hummocky		Slope: 14.0		
,,	Loti			
Subregion : Interior Alaska Mountains	Lat.: _			
Soil Map Unit Name:				NWI classification: PSS1/EM1B
Are Vegetation , Soil , or Hydrology no nor nor nor nor nor nor nor nor nor	ignificantl naturally pr ving san	y disturbed? roblematic?	(If nee	(If no, explain in Remarks.) formal Circumstances" present? Yes ● No ○ ided, explain any answers in Remarks.) ided, transects, important features, etc.
Hydrophytic Vegetation Present? Yes ● No ○			4	.I. I.A
Hydric Soil Present? Yes ● No ○				pled Area letland? Yes ◉ No ◯
Wetland Hydrology Present? Yes ● No ○		W	ithin a W	etland? Yes © No O
Remarks:				_
VEGETATION -Use scientific names of plants. Lis	Absolute	Dominant	Indicator	Dominance Test worksheet:
	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)
1.				Total Number of Dominant
2.				Species Across All Strata:3 (B)
3.				Percent of dominant Species
4				That Are OBL, FACW, or FAC: 100.0% (A/B)
5				Prevalence Index worksheet:
Total Cover:				Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover	0	OBL Species <u>3</u> x 1 = <u>3</u>
Vaccinium uliginosum	20	✓	FAC	FACW Species x 2 =10
2. Salix reticulata	15	✓	FAC	FAC Species <u>92</u> x 3 = <u>276</u>
Cassiope tetragona			FACU	FACU Species 6 x 4 = 24
Empetrum nigrum	5		FAC	UPL Species 5 x 5 = 25
5. Dryas ajanensis	3		UPL	Column Totals: 111 (A) 338 (B)
6. Salix pulchra			FACW	
7. Arctous ruber	2		FAC	Prevalence Index = B/A = 3.045
8. Vaccinium vitis-idaea			FAC	Hydrophytic Vegetation Indicators:
9. Salix polaris			FACW	✓ Dominance Test is > 50%
10. Rhododendron tomentosum	1		FACW	Prevalence Index is ≤3.0
Total Cover:				Morphological Adaptations (Provide supporting data in
Herb Stratum 50% of Total Cover: 2		% of Total Cover	r: <u>11.4</u>	Remarks or on a separate sheet)
Carex bigelowii	40	✓	FAC	Problematic Hydrophytic Vegetation (Explain)
Eriophorum angustifolium	3		OBL	¹ Indicators of hydric soil and wetland hydrology must
3. Saussurea angustifolia	3		FAC	be present, unless disturbed or problematic.
Astragalus umbellatus			UPL	
5. Micranthes hieraciifolia			FAC	Plot size (radius, or length x width)
6. Festuca altaica	1		FAC	% Cover of Wetland Bryophytes 3 (Where applicable)
7. Carex scirpoidea	1		FACU	
8. Poa arctica	1		FAC	% Bare Ground 10 Total Cover of Bryophytes 40
a Diotorta alumana	1		FACU	Total Cover of Bryophytes 40
9. <u>Bistoria piurnosa</u> 10.	0			Hydrophytic
Total Cover:				Hydrophytic Vegetation
		of Total Cover	10.8	Present? Yes • No O
				<u>'</u>
Remarks: 15% lichen covertr pedicularis sp. Some spha	gnum.			

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW15_T344_01

2-4 4-20 SOY 5/1 75 10YR 5/8 25 C PL Sandy Clay Loam With coarse and a gravele organic inclusions (8-20) Viper: C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining. RC=Root Channel. M=Matrix drids Soil Indicators: Indicators for Problematic Hydric Soils Alaska Gleyed Without Hue SY or Redder Underlying Layer History or Histel (A1)	(inches) Color (moi	st)	<u>%</u>	Color (m	noist)	%	Type ¹	_Loc_ ²	Texture	Remarks
4-20 5GY 5/1 75 10YR 5/8 25 C PL Sandy Clay Loam with coarse said & gravel-organic inclusions (Feb. 20) Type: C=Concentration. D=Depletion. RM=Reduced Matrix 2* Location: PL=Pore Lining. RC=Root Channel. M=Matrix Indicators: Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Soils? Indicators (TA5) Alaska Color Change (TA4) Alaska Gleyed Without Hue SY or Redder Indicators (TA5) Alaska Rodo With 2-SY Hue Other (Cephalin in Remarks) Poem (Alaska Redox With 2-SY Hue Other (Cephalin in Remarks) **Give details of color change in Remarks Assia Redox (Al4) Alaska Rodo With 2-SY Hue Alaska Rodo With 2-SY Hue Other (Cephalin in Remarks) **Final Hydric Soil Present? Yes • No • Depth (inches): 2 **DROLOGY** **Brand Hydrology Indicators: (The Order Remarks (B)) **Brand Hydrology Ind	0-2								Mucky Peat	_
ype: C=Concentration, D=Depletion, RM=Reduced Matrix	2-4								Muck	_
Indicators: Histosol or Histel (A1) Histic Epipedon (A2) Histic Epipedon (A1) Histic Epipedon (A1) Histic Epipedon (A2) Hydrosology Indicators (Hydrosology Indicators (Hydrosology Indicators (Hydrosology Indicators (Hydrosology Indicators) Hydric Soil Present? Yes No No No No No No No No No Depth (Inches): Hydrosology Indicators (Hydrosology Indicators (Hydrosology Indicators (Hydrosology Indicators) Hydrosology Indicators (Hydrosology Indicators (Hydrosology Indicators (Hydrosology Indicators) Hydrosology Indicators (Hydrosology Indicator	4-20 5GY	5/1	<u>75 </u>	10YR	5/8	25	C	PL	Sandy Clay Loam	
Indicators: Indicators for Problematic Hydric Soils? Histosol or Histel (A1) Histic Epipedon (A2) Alaska Color Change (TA4) Alaska Alpine swales (TA5) Alaska Gleyed Without Hue 5Y or Redder Underlying Layer Other (Explain in Remarks) **Jone indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, and an appropriate landscape position must be present Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed (A14) Alaska Gleyed (A15) **Jone indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, and an appropriate landscape position must be present **Give details of color change in Remarks** **Phydric Soil Present? Yes • No • No • Depth (inches): 4 **Indicators (any one is sufficient)										_
Indicators: Histosol or Histel (A1) Histo Epipedon (A2) Hydrogen Sulfide (A4) Thick Dark Surface (A12) Alaska Color Change (TA4) Alaska Gleyed (A3) Alaska Redox With 2.5V Hue										_
Indicators: Histosol or Histel (A1) Histo Epipedon (A2) Hydrogen Sulfide (A4) Thick Dark Surface (A12) Alaska Color Change (TA4) Alaska Gleyed (A3) Alaska Redox With 2.5V Hue										_
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Histosol or Histel (A1)	ype: C=Concentration. D=	Depletion	. RM=Reduc	ed Matrix	² Location	: PL=Pore	e Lining. RO	=Root Cha	annel. M=Matrix	_
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Alaska Gleyed Pores (A15) *Give details of color change in Remarks **Trictive Layer (if present): **Trype: Sandy Clay Loam Depth (inches): 4 **Trype: Sandy Clay Loam Depth (inches): 2 **Trype: Sandy Clay Load Depth (inches): 2 **Trype: S				and an	appropriate	e landscap	e position i	must be pre	esent	
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Sediment Deposits (B2) □ Dry-Season Water Table (C2) □ Stunted or Stressed Plants (D1) □ Drift Deposits (B3) □ Other (Explain in Remarks) □ Geomorphic Position (D2) □ Algal Mat or Crust (B4) □ Shallow Aquitard (D3) □ Microtopographic Relief (D4) □ Surface Soil Cracks (B6) □ FAC-neutral Test (D5) □ Microtopographic Relief (D4) □ FAC-neutral Test (D5) □ Depth (inches): □ Depth	DROLOGY tland Hydrology Indicatemary Indicators (any one is Surface Water (A1) High Water Table (A2)		t)	Sp	arsely Vege	etated Cor		, , ,	Secondary Inc Water Sta Drainage Oxidized	dicators (two or more are required ained Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (G
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casional small, wet depressions 2-3 inches deep.	DROLOGY Etland Hydrology Indicat mary Indicators (any one is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Eld Observations: urface Water Present? ater Table Present? ater Table Present? ater Table Recorded Data (streat	Yes Yes •	No O No O No O	Sp Ma	parsely Vege arl Deposits ydrogen Suli ry-Season W ther (Explain epth (inchese epth (inchese	etated Cor (B15) fide Odor /ater Table in in Rema	(C1) e (C2) rks)	Wetla	Secondary Inc Water Sta Drainage Oxidized Presence Salt Depo Stunted of Geomorp Shallow A Microtopy FAC-neut	dicators (two or more are required ained Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (of Reduced Iron (C4) sists (C5) or Stressed Plants (D1) hic Position (D2) equitard (D3) orgraphic Relief (D4) ral Test (D5)

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