## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	ca-Susitna Borough Sampling Date: 25-Jun-12
Applica	nt/Owner: Alaska Energy Authority		-		Sampling Point: SW12_T21_07
	gator(s): SLI, LMF		Landform (hill	side, terrac	ce, hummocks etc.): Lowland
	elief (concave, convex, none): none		Slope:	% / 3.7	
Subrec	ion : Interior Alaska Mountains	Lat.:	 62.787868155	 52	Long.: -148.593915739 Datum: NAD83
_	p Unit Name:		02.707000100		NWI classification: PEM1F
	natic/hydrologic conditions on the site typical for this	time of ve	ar? Yes	No ○	(If no, explain in Remarks.)
Are V	egetation □ , Soil □ , or Hydrology □ egetation □ , Soil ☑ , or Hydrology □	significa	ntly disturbed? problematic?	Are "N	Iormal Circumstances" present? Yes  No  eded, explain any answers in Remarks.)
SUMI	MARY OF FINDINGS - Attach site map sh	owing sa	ampling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes  No	$\overline{\bigcirc}$			·
	Hydric Soil Present? Yes ● No		Is	the Sam	pled Area
	Wetland Hydrology Present? Yes ● No	_	wi	thin a W	/etland? Yes ◉ No ○
	irks: characterizing emergent community immediate		orth. deep stand	ing water, o	cannot walk out into community.
/EGE	TATION - Use scientific names of plants.	List all s	necies in the	nlot	
		Absolu		Indicator	Dominance Test worksheet:
Tre	e Stratum_	% Cov		Status	Number of Dominant Species
1.		0			That are OBL, FACW, or FAC: 2 (A)
2.		0			Total Number of Dominant Species Across All Strata:2 (B)
3.		0			Percent of dominant Species
4.		0			That Are OBL, FACW, or FAC: 100.0% (A/B)
5.			_		Prevalence Index worksheet:
	Total Cove		_		Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20	0% of Total Cover:	0	OBL Species <u>80</u> x 1 = <u>80</u>
1.	Salix pulchra	10	<u> </u>	FACW	FACW Species 10 x 2 = 20
2.	Picea glauca	1	_ 🗆	FACU	FAC Species 0 x 3 = 0
3.			_		FACU Species 1 x 4 = 4
4.					UPL Species <u>0</u> x 5 = <u>0</u>
5.					Column Totals: 91 (A) 104 (B)
6.		^			Prevalence Index = B/A =1.143
7.					II. dan abadia Vanatakian Tadiastana
8. a					Hydrophytic Vegetation Indicators:  Dominance Test is > 50%
					✓ Prevalence Index is ≤3.0
	Total Cove	er: <u>11</u>			Morphological Adaptations <sup>1</sup> (Provide supporting data in
Her	<b>b Stratum</b> 50% of Total Cover:			: 2.2	Remarks or on a separate sheet)
1.	Eriophorum angustifolium	80		OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2.		0			<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3.		0			be present, unless disturbed or problematic.
1		0	_		Plot size (radius, or length x width) 5m
4.					% Cover of Wetland Bryophytes
5.		_			
5. 6.		0			(Where applicable)
5. 6. 7.		0			% Bare Ground
5. 6. 7. 8.		0 0			
5. 6. 7. 8. 9.				<u></u>	% Bare Ground  Total Cover of Bryophytes
5. 6. 7. 8. 9.					% Bare Ground  Total Cover of Bryophytes  Hydrophytic Vegetation
5. 6. 7. 8. 9.	Total Cove	0 0 0 0 0 0		16	% Bare Ground  Total Cover of Bryophytes

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW12\_T21\_07

Type: C-Concentration, D-Depletion. RM-Reduced Matrix 2 Location: PL=Pore Lining, RC-Root Channel, M-Matrix  Hydric Soil Indicators:  Hydric Soil Indicators:  Historic or Facility (1)  History (1)  History (2)  History (2)  History (3)  History (4)  H	Depth ————	Matrix	the depth needed to document the indicator or confirm the absence of indicators)  Matrix Redox Features						
Indicators for Problematic Hydric Soils?   Alaska Color Change (TA4)   Alaska Gleyed Without Hue 5Y or Redder Underlying Layer (Inderlying Layer Underlying Layer (Inderlying Layer)   Alaska Redox With 2.5Y Hue   Other (Explain in Remarks)	<i>a</i> i ,	(moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
Indicators:   Indicators for Problematic Hydric Soils:   Alaska Cloyr Change (TA4)   Alaska Redox With 2.5Y Hue									_
Indicators for Problematic Hydric Soils:									
Indicators:   Indicators for Problematic Hydric Soils:   Alaska Cloyr Change (TA4)   Alaska Redox With 2.5Y Hue	-							•	
Indicators:   Indicators for Problematic Hydric Soils:   Alaska Cloyr Change (TA4)   Alaska Redox With 2.5Y Hue									•
Histos of Indicators:									
Histos of Indicators:									n <del>-</del>
Hydric Soil Indicators:    Histocol or Histel (A1)								-	-
Hydric Soil Indicators:    Histocol or Histel (A1)									
Hydric Soil Indicators:    Histocol or Histel (A1)	IT C C	D. D. J. V.		21				I.M. Mali	-
Histosol or Histel (A1)			1. KM=Reduce					nnei. M=Matrix	
Histic Epipedon (A2)	<u>.</u>					4	oils: ¯		
Institute Dipetion (PA)	_ ` `	)					Ш		lue 5Y or Redder
Thick Dark Surface (A12) Alaska Gleyed (A13) Alaska Redox (A14) Alaska Redox (A15)  **Sorreit Layer (if present): Type: Depth (inches):  **Braik Surface (A12) **Sorreit Layer (if present): Type: Depth (inches):  **Braik Surface (A12) **Sorreit Layer (if present): Type: Depth (inches):  **Braik Surface (A12) **Sorreit Layer (if present): Type: Depth (inches):  **Braik Surface (A12) **Depth (inches):  **Braik Surface (A12) **Sorreit Layer (if present): Type: Depth (inches):  **Braik Surface (A12) **Depth (inches):  **Braik Surface (A12) **Sorreit Layer (if present): Type: Depth (inches):  **Braik Surface (A12) **Depth (inches):  **Braik Surface (A12) **Sorreit Layer (if present): Type: Depth (inches):  **Braik Surface (A12) **Depth (inches): **Sorreit Layer (if present): Type: Depth (inches):  **Braik Surface (A12) **Depth (inches): Secondary Indicators (two or more are required interval Layer (B12) Depth (inches):	=						•		kc)
Alaska Redox (A13) Alaska Redox (A14) Alaska Redox (A14) Alaska Redox (A15)  **Give details of color change in Remarks  **Sestrictive Layer (if present):  Type:  Depth (inches):  **PYPROLOGY  **POROLOGY  **POROLOGY  **Porology Indicators:  **Por	¬ ′	,		<u></u> АІаѕка кедох	WITH 2.5Y HL	ie	V	Otilei (Explaiii iii Keiliai	N3)
Alaska Redox (A1-4) Alaska Redox (A1-5) Alaska Gleyed Pores (A1-5) Alaska Gl	_ `	A12)		<sup>3</sup> One indicator o	f hydrophytic	vegetatio	n, one prim	nary indicator of wetland	hydrology,
Alaska Gleyed Pores (A15)  A Give details of color change in Remarks  estrictive Layer (if present):  Type:  Depth (inches):  Bry Present? Yes No  Presence of Reduced Iron (C4)  Saturation (A3)  Marl Deposits (B15)  Presence of Reduced Iron (C4)  Sediment Deposits (B2)  Dofft Deposits (B3)  Dofft Deposits (B3)  Dofft Deposits (B3)  Dofft Deposits (B3)  Surface Soil Cracks (B6)  Present? Yes No  Depth (inches):  Surface Water Present?  Yes No  Depth (inches):  Present?  Pre	_								,
estrictive Layer (if present): Type: Depth (inches):  ### Hydric Soil Present? Yes No     No	¬ ` ´	′Δ15)		4 Give details of	color change	in Remark	S		
Type: Depth (inches):  PARTAILS:  A poil pit due to standing water throughout site. assume hydric soils due to hydrophytic vegetation and primary hydrology indicators.  PARTAIL AND A primary Indicators:  A poil pit due to standing water throughout site. assume hydric soils due to hydrophytic vegetation and primary hydrology indicators.  PARTAIL AND A primary Indicators:  A post of a poil pit due to standing water throughout site. assume hydric soils due to hydrophytic vegetation and primary hydrology indicators.  PARTAIL AND A primary Indicators:  A post of a poil pit due to standing water throughout site. assume hydric soils due to hydrophytic vegetation and primary hydrology indicators.  PARTAIL AND A poil pit due to standing water Indicators (two or more are required rimary linear primary linear primary hydrology indicators.  A post of a poil pit due to standing water Indicators (two or more are required rimary linear primary linear primary hydrology indicators.  A post of a pos	· · · · · · · · · · · · · · · · · · ·	. ,							
POROLOGY    Porology	, , ,	nt):							
PAPER CLOGY    Vettand Hydrology Indicators:   Secondary Indicators (two or more are required information visible on Aerial Imagery (B7)   Drainage Patterns (B10)   Drainage	**							Hydric Soil Present	:? Yes  No
YDROLOGY    YORAL   Y									
Perlimany Indicators (any one is sufficient)  ✓ Surface Water (A1)  ✓ Inundation Visible on Aerial Imagery (B7)  ✓ Iligh Water Table (A2)  ✓ Saturation (A3)  ✓ Saturation (A3)  ✓ Sediment Deposits (B15)  ✓ Drininge Patterns (B10)  ✓ Saturation (A3)  ✓ Sediment Deposits (B2)  ✓ Dry-Season Water Table (C2)  ✓ Dry-Season Water Table (C2)  ✓ Shallow Aquitard (D3)  ✓ Iron Deposits (B5)  ✓ Surface Water Present?  ✓ Yes  ✓ No  ✓ Depth (inches):  Saturation Present?  Yes  ✓ No  ✓ Depth (inches):  Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	p	Tracer emong	, nout older doc	sume nyune sons u	ue to nyarop	hytic vege	tation and	primary hydrology indicat	ors.
Primary Indicators (any one is sufficient)  Surface Water (A1)			, rout occir do	sume nyunc sons u	ue to nyarop	nytic vege	tation and	primary hydrology indicat	ors.
✓ Surface Water (A1)			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	same nyunc sons u	ue to nyarop	nytic vege	tation and	primary hydrology indicat	ors.
✓ High Water Table (A2)       Sparsely Vegetated Concave Surface (B8)       Oxidized Rhizospheres along Living Roots (€         ✓ Saturation (A3)       Marl Deposits (B15)       Presence of Reduced Iron (C4)         Water Marks (B1)       Hydrogen Sulfide Odor (C1)       Salt Deposits (C5)         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)         Iron Deposits (B5)       Microtopographic Relief (D4)         Surface Soil Cracks (B6)       FAC-neutral Test (D5)         Field Observations:       Surface Water Present?       Yes No Depth (inches):         Saturation Present?       Yes No Depth (inches):       Wetland Hydrology Present?       Yes No Depth (inches):         Saturation Present?       Yes No Depth (inches):       Wetland Hydrology Present?       Yes No Depth (inches):         Secribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	YDROLOGY		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	same nyunc sons u	ue to nyarop	nytic vege	tation and		
✓ Saturation (A3)	YDROLOGY Vetland Hydrology Inc	licators:		same nyunc sons u	ue to nyarop	nytic vege	tation and	_Secondary Ind	icators (two or more are required)
Water Marks (B1)	YDROLOGY  Vetland Hydrology Indirimary Indicators (any o	licators: ne is sufficier						Secondary Ind  Water Sta  Drainage	icators (two or more are required) ined Leaves (B9) Patterns (B10)
Sediment Deposits (B2)  □ Dry-Season Water Table (C2)  □ Stunted or Stressed Plants (D1)  □ Drift Deposits (B3)  □ Other (Explain in Remarks)  □ Geomorphic Position (D2)  □ Shallow Aquitard (D3)  □ Shallow Aquitard (D3)  □ Shallow Aquitard (D3)  □ Surface Soil Cracks (B6)  □ FAC-neutral Test (D5)  □ Surface Water Present?  Yes  ○ No  ○ Depth (inches): 24  Water Table Present?  Yes  ○ No  ○ Depth (inches):  □	YDROLOGY  Vetland Hydrology Indicators (any of surface Water (A1)  High Water Table (A)	licators: ne is sufficier		☐ Inundation Sparsely Ve	Visible on Aer getated Conc	rial Imagei	ry (B7)	Secondary Ind  Water Sta  Drainage  Oxidized F	icators (two or more are required) ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3)
Drift Deposits (B3)	YDROLOGY  Vetland Hydrology Indicators (any of the second	licators: ne is sufficier		☐ Inundation Sparsely Ve☐ Marl Deposi	Visible on Aer getated Conc ts (B15)	rial Imager ave Surfac	ry (B7)	Secondary Ind Water Sta Drainage Oxidized F	icators (two or more are required) ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4)
Algal Mat or Crust (B4)  ☐ Iron Deposits (B5) ☐ Surface Soil Cracks (B6) ☐ Surface Soil Cracks (B6) ☐ FAC-neutral Test (D5) ☐ Iron Deposits (B5) ☐ Microtopographic Relief (D4) ☐ FAC-neutral Test (D5) ☐ Wetland Hydrology Present? Yes	YDROLOGY  /etland Hydrology Inc rimary Indicators (any o  ✓ Surface Water (A1)  ✓ High Water Table (A2)  ✓ Saturation (A3)  Water Marks (B1)	licators: ne is sufficier 2)		Inundation Sparsely Ve Marl Deposi Hydrogen S	Visible on Aei getated Conc ts (B15) ulfide Odor ((	rial Imagei ave Surfac	ry (B7)	Secondary Ind  Water Sta  Drainage  Oxidized F  Presence  Salt Depo	icators (two or more are required) ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3 of Reduced Iron (C4) sits (C5)
□ Iron Deposits (B5) □ Microtopographic Relief (D4) □ Surface Soil Cracks (B6) □ FAC-neutral Test (D5) □ FAC-neutral Test (D5	YDROLOGY  /etland Hydrology Inc  rimary Indicators (any o  ✓ Surface Water (A1)  ✓ High Water Table (A:  ✓ Saturation (A3)  Water Marks (B1)  Sediment Deposits (B	licators: ne is sufficier 2)		Inundation Sparsely Ve Marl Deposi Hydrogen S Dry-Season	Visible on Aei getated Conc ts (B15) ulfide Odor (( Water Table	rial Imagei ave Surfac C1) (C2)	ry (B7)	Secondary Ind  Water Sta  Drainage  Oxidized F  Presence  Salt Depo  Stunted o	icators (two or more are required) ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) r Stressed Plants (D1)
Surface Soil Cracks (B6)  FAC-neutral Test (D5)  Field Observations:  Surface Water Present? Yes No Depth (inches): 24  Water Table Present? Yes No Depth (inches):  Saturation Present? Yes No Depth (inches):  Saturation Present? Yes No Depth (inches):  Secribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:  emarks:  eep standing water and emergent vegetation. pool immediately N of GPS site estimated at 24in deep. community dominated by emergent vegetation in standing	YDROLOGY Vetland Hydrology Inc Primary Indicators (any o ✓ Surface Water (A1) ✓ High Water Table (A: ✓ Saturation (A3)  Water Marks (B1)  Sediment Deposits (B3)	licators: ne is sufficier 2) 32)		Inundation Sparsely Ve Marl Deposi Hydrogen S Dry-Season	Visible on Aei getated Conc ts (B15) ulfide Odor (( Water Table	rial Imagei ave Surfac C1) (C2)	ry (B7)	Secondary Ind Water Sta Drainage Oxidized F Presence Salt Depo Stunted o Geomorph	icators (two or more are required) ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) r Stressed Plants (D1) nic Position (D2)
ield Observations: Surface Water Present? Yes No Depth (inches): 24 Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Secribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:  emarks: seep standing water and emergent vegetation. pool immediately N of GPS site estimated at 24in deep. community dominated by emergent vegetation in standing	YDROLOGY  Vetland Hydrology Inc  Primary Indicators (any o  ✓ Surface Water (A1)  ✓ High Water Table (A:  ✓ Saturation (A3)  Water Marks (B1)  Sediment Deposits (B3)  Algal Mat or Crust (B	licators: ne is sufficier 2) 32)		Inundation Sparsely Ve Marl Deposi Hydrogen S Dry-Season	Visible on Aei getated Conc ts (B15) ulfide Odor (( Water Table	rial Imagei ave Surfac C1) (C2)	ry (B7)	Secondary Ind Water Sta Drainage Oxidized F Presence Salt Depo Stunted o Geomorph Shallow A	icators (two or more are required) ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) r Stressed Plants (D1) nic Position (D2) quitard (D3)
Sourface Water Present? Yes No Depth (inches): 24 Water Table Present? Yes No Depth (inches): Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Comparison No Depth (inches): Wetland Hydrology Present? Yes No Comparison No Co	YDROLOGY  Vetland Hydrology Independent of the property of th	licators: ne is sufficier 2) 32)		Inundation Sparsely Ve Marl Deposi Hydrogen S Dry-Season	Visible on Aei getated Conc ts (B15) ulfide Odor (( Water Table	rial Imagei ave Surfac C1) (C2)	ry (B7)	Secondary Ind Water Sta Drainage Oxidized F Presence Salt Depo Stunted o Geomorph Shallow A Microtopo	icators (two or more are required) ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3 of Reduced Iron (C4) sits (C5) r Stressed Plants (D1) nic Position (D2) quitard (D3) graphic Relief (D4)
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Secribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:  emarks: seep standing water and emergent vegetation. pool immediately N of GPS site estimated at 24in deep. community dominated by emergent vegetation in standing	YDROLOGY  Vetland Hydrology Indeprimery Indicators (any of surface Water (A1)  ✓ High Water Table (A)  ✓ Saturation (A3)  Water Marks (B1)  Sediment Deposits (B3)  Algal Mat or Crust (B)  Iron Deposits (B5)  Surface Soil Cracks (	licators: ne is sufficier 2) 32)		Inundation Sparsely Ve Marl Deposi Hydrogen S Dry-Season	Visible on Aei getated Conc ts (B15) ulfide Odor (( Water Table	rial Imagei ave Surfac C1) (C2)	ry (B7)	Secondary Ind Water Sta Drainage Oxidized F Presence Salt Depo Stunted o Geomorph Shallow A Microtopo	icators (two or more are required) ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3 of Reduced Iron (C4) sits (C5) r Stressed Plants (D1) nic Position (D2) quitard (D3) graphic Relief (D4)
Saturation Present? (includes capillary fringe)  Yes No Depth (inches):  escribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:  emarks:  eep standing water and emergent vegetation. pool immediately N of GPS site estimated at 24in deep. community dominated by emergent vegetation in standing	YDROLOGY  /etland Hydrology Incommery Indicators (any of primary Indicators (any of primary Indicators (any of primary Indicators (and of primary Indicators (and of primary Indicators (A3)  Water Marks (B1)  Sediment Deposits (B3)  Algal Mat or Crust (B3)  Algal Mat or Crust (B3)  Iron Deposits (B5)  Surface Soil Cracks (ield Observations:	licators: ne is sufficier  2)  32)  4)	nt)	Inundation Sparsely Ve Marl Deposi Hydrogen S Dry-Season Other (Expla	Visible on Aei getated Conc ts (B15) ulfide Odor (i Water Table ain in Remark	rial Imagei ave Surfac C1) (C2)	ry (B7)	Secondary Ind Water Sta Drainage Oxidized F Presence Salt Depo Stunted o Geomorph Shallow A Microtopo	icators (two or more are required) ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3 of Reduced Iron (C4) sits (C5) r Stressed Plants (D1) nic Position (D2) quitard (D3) graphic Relief (D4)
(includes capillary fringe)  Pescribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:  emarks:  eep standing water and emergent vegetation. pool immediately N of GPS site estimated at 24in deep. community dominated by emergent vegetation in standing	YDROLOGY  Vetland Hydrology Incommery Indicators (any of the second of	licators: ne is sufficier  2)  32)  4)  B6)	nt)	Inundation Sparsely Ve Marl Deposi Hydrogen S Dry-Season Other (Expla	Visible on Aer getated Conc ts (B15) ulfide Odor ( Water Table ain in Remark	rial Imagei ave Surfac C1) (C2)	ry (B7) te (B8)	Secondary Ind  Water Sta  Drainage  Oxidized F  Presence  Salt Depo  Stunted o  Geomorph Shallow A  Microtopo	icators (two or more are required) ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) r Stressed Plants (D1) nic Position (D2) quitard (D3) graphic Relief (D4) al Test (D5)
emarks: eep standing water and emergent vegetation. pool immediately N of GPS site estimated at 24in deep. community dominated by emergent vegetation in standing	YDROLOGY  Vetland Hydrology Indexinary Indicators (any of primary Indicators (any of primary Indicators (any of primary Indicators (and primary Indicators (and primary Indicators (B1)  Sediment Deposits (B2)  Algal Mat or Crust (B2)  Iron Deposits (B5)  Surface Soil Cracks (ield Observations:  Surface Water Present?	licators: ne is sufficier  2)  32)  4)  Yes  Yes	No O	Inundation Sparsely Ve Marl Deposi Hydrogen S Dry-Season Other (Expla	Visible on Aer getated Conc ts (B15) ulfide Odor ( Water Table ain in Remark	rial Imagei ave Surfac C1) (C2)	ry (B7) te (B8)	Secondary Ind  Water Sta  Drainage  Oxidized F  Presence  Salt Depo  Stunted o  Geomorph Shallow A  Microtopo	icators (two or more are required) ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) r Stressed Plants (D1) nic Position (D2) quitard (D3) graphic Relief (D4) al Test (D5)
eep standing water and emergent vegetation. pool immediately N of GPS site estimated at 24in deep. community dominated by emergent vegetation in standing	YDROLOGY  Vetland Hydrology Inc  Primary Indicators (any o  ✓ Surface Water (A1)  ✓ High Water Table (A:  ✓ Saturation (A3)  Water Marks (B1)  Sediment Deposits (B3)  Algal Mat or Crust (B3)  Algal Mat or Crust (B5)  Surface Soil Cracks (  ield Observations:  Surface Water Present?  Water Table Present?	licators: ne is sufficier  2)  32)  4)  Yes ( Yes (	No O	Inundation Sparsely Ve Marl Deposi Hydrogen S Dry-Season Other (Expla	Visible on Aei getated Conc ts (B15) ulfide Odor (i Water Table ain in Remark es): 24	rial Imagei ave Surfac C1) (C2)	ry (B7) te (B8)	Secondary Ind  Water Sta  Drainage  Oxidized F  Presence  Salt Depo  Stunted o  Geomorph Shallow A  Microtopo	icators (two or more are required) ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) r Stressed Plants (D1) nic Position (D2) quitard (D3) graphic Relief (D4) al Test (D5)
eep standing water and emergent vegetation. pool immediately N of GPS site estimated at 24in deep. community dominated by emergent vegetation in standing	YDROLOGY  Vetland Hydrology Independent of the property of th	licators: ne is sufficier  2)  32)  4)  Yes  Yes	No ONO ONO ONO O	Inundation Sparsely Ve Marl Deposi Hydrogen S Dry-Season Other (Expla	Visible on Aer getated Conc ts (B15) ulfide Odor ( Water Table ain in Remark es): 24 es):	rial Imager cave Surface C1) (C2) cs)	ry (B7) te (B8) Wetlar	Secondary Ind  Water Sta  Drainage  Oxidized F  Presence  Salt Depo  Stunted o  Geomorph Shallow A  Microtopo	icators (two or more are required) ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) r Stressed Plants (D1) nic Position (D2) quitard (D3) graphic Relief (D4) al Test (D5)
	YDROLOGY  Vetland Hydrology Indicators (any of the primary Indicators (and primary Indicators (and primary Indicators (but Indicators (and primary Indic	licators: ne is sufficier  2)  32)  4)  Yes  Yes	No ONO ONO ONO O	Inundation Sparsely Ve Marl Deposi Hydrogen S Dry-Season Other (Expla	Visible on Aer getated Conc ts (B15) ulfide Odor ( Water Table ain in Remark es): 24 es):	rial Imager cave Surface C1) (C2) cs)	ry (B7) te (B8) Wetlar	Secondary Ind  Water Sta  Drainage  Oxidized F  Presence  Salt Depo  Stunted o  Geomorph Shallow A  Microtopo	icators (two or more are required) ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3 of Reduced Iron (C4) sits (C5) r Stressed Plants (D1) nic Position (D2) quitard (D3) graphic Relief (D4) al Test (D5)
	YDROLOGY  Vetland Hydrology Incrimary Indicators (any o  ✓ Surface Water (A1)  ✓ High Water Table (A:  ✓ Saturation (A3)  Water Marks (B1)  Sediment Deposits (B3)  Algal Mat or Crust (B)  Iron Deposits (B5)  Surface Soil Cracks ( ield Observations: Surface Water Present?  Water Table Present?  Saturation Present?  Cincludes capillary fringe; escribe Recorded Data (seemarks:	licators: ne is sufficier  2)  32)  4)  Yes  Yes  Yes  Stream gauge	No No No No e, monitor well	Inundation Sparsely Ve Marl Deposi Hydrogen S Dry-Season Other (Expla	Visible on Aer getated Conc ts (B15) ulfide Odor (G Water Table ain in Remark es): 24 es): es):	rial Imagei ave Surfact C1) (C2) (S)	Wetlar	Secondary Ind Water Sta Drainage Oxidized F Presence Salt Depo Stunted o Geomorph Shallow A Microtopo FAC-neutr	icators (two or more are required) ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) r Stressed Plants (D1) nic Position (D2) quitard (D3) graphic Relief (D4) al Test (D5)  ht? Yes No

U.S. Army Corps of Engineers Alaska Version 2.0