WETLAND DETERMINATION DATA FORM - Alaska Region

Projec*	/Site: Susitna-Watana Hydroelectric Project		Borou	gh/City:	Matanusk	xa-Susitna Borough Sampling Date: 22-Aug-15
Applica	ant/Owner: Alaska Energy Authority					Sampling Point: SW15_T314_12
	gator(s): GVF		Lanc		lside. terrac	e, hummocks etc.): Lowland
	elief (concave, convex, none): tussocks			•	% / 2.0	
		Lot				
	jion : Cook Inlet Mountains	Lat				
	p Unit Name:				0 0	NWI classification: PEM1E
	matic/hydrologic conditions on the site typical for this ti				● No ○	(If no, explain in Remarks.)
		-	antly dist			lormal Circumstances" present? Yes
Are \	egetation , Soil , or Hydrology	naturall	ly problei	matic?	(If nee	eded, explain any answers in Remarks.)
SUMI	MARY OF FINDINGS - Attach site map show	wing s	samplin	g point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes No C		<u> </u>	1		· · · · · · · · · · · · · · · · · · ·
	, , , ,			Is	the Sam	pled Area
	,				ithin a W	
	, 0,					
Rema	arks: tussocks small, formed by calcan					
/F.O.I	TATION					
/EGE	ETATION -Use scientific names of plants. Li	ist all	species	in the	plot.	1
		Absol			Indicator	Dominance Test worksheet:
	e Stratum	_% Co	ver S	pecies?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)
1.		<u> </u>				Total Number of Dominant
2.		_	_			Species Across All Strata: (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:
Sap	ling/Shrub Stratum 50% of Total Cover:	0	20% of To	otal Cover	:0	OBL Species4 x 1 =4
1.	Ribes triste	0	.1		FAC	FACW Species <u>5.2</u> x 2 = <u>10.4</u>
2.	Salix pulchra	0	.1		FACW	FAC Species 33.1 x 3 = 99.3
3.	Picea glauca	0	.1_		FACU	FACU Species <u>5.1</u> x 4 = <u>20.4</u>
4.			0			UPL Species <u>0</u> x 5 = <u>0</u>
5.			0			Column Totals: 47.4 (A) 134.1 (B)
6.			0			Prevalence Index = B/A =2.829_
7.			0			Trevalence index = B/A =
8.			0			Hydrophytic Vegetation Indicators:
9.			0			✓ Dominance Test is > 50%
10.		_	0	Ш		✓ Prevalence Index is ≤3.0
	Total Cover h Stratum 50% of Total Cover:		.3 .20% of T	otal Cove	r: 0.00	Morphological Adaptations (Provide supporting data in
						Remarks or on a separate sheet)
1.	Calamagrostis canadensis		20	✓	FAC	☐ Problematic Hydrophytic Vegetation (Explain)
2.	Rubus arcticus Chamaenerion angustifolium		1 <u>0</u> 3		FACU	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	Viola paluetrie		3		FACW	De present amese detarbed or presentation
4. 5.	Delemenium equificum	-	3		FAC	Plot size (radius, or length x width)
6.	On an amount of a live tree		3	\Box	OBL	% Cover of Wetland Bryophytes (Where applicable)
7.	The lists and a seriffer and		2		FACU	
8.	Sanguisorba canadensis		2		FACW	% Bare Ground
9.	Carex aquatilis	_	1		OBL	Total Cover of Bryophytes5
٦.	Galium trifidum	_	0.1		FACW	Hydronhytic
10			'.1	_		Hydrophytic Vegetation
10.	Total Cover	. 4/				
10.	Total Cover 50% of Total Cover: _ 2	_		tal Cover	: 9.42	Present? Yes • No O

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW15_T314_12

Pose	Depth (inches) Color (mo	oist)	%	Color (moist)	%	Type ¹	_Loc_ ²	Texture		Remarks
12-22 10/R 3/1 100 Sand Interbedded coarse and fine Sa				Jeier (illelee,		.,,,,		Hemic Organics	w/ sticks and sa	and
Type: C=Concentration. D=Depletion. RM=Reduced Matrix: \$\frac{2}{2}\text{Location: PL=Pore Lining, RC=Root Channel. M=Matrix }\] Veryor: C=Concentration. D=Depletion. RM=Reduced Matrix: \$\frac{2}{2}\text{Location: PL=Pore Lining, RC=Root Channel. M=Matrix }\] Veryor: C=Concentration. D=Depletion. RM=Reduced Matrix: \$\frac{2}{2}\text{Location: PL=Pore Lining, RC=Root Channel. M=Matrix }\] Veryor: C=Concentration. D=Depletion. RM=Reduced Matrix: \$\frac{2}{2}\text{Location: PL=Pore Lining, RC=Root Channel. M=Matrix }\] Veryor: C=Concentration. D=Depletion. RM=Reduced Matrix: \$\frac{2}{2}\text{Location: PL=Pore Lining, RC=Root Channel. M=Matrix }\] Veryor: C=Concentration. D=Depletion. RM=Reduced Matrix: \$\frac{2}{2}\text{Location: PL=Pore Lining, RC=Root Channel. M=Matrix }\] Veryor: C=Concentration. D=Depletion. RM=Reduced Matrix: \$\frac{2}{2}\text{Location: PL=Pore Lining, RC=Root Channel. M=Matrix }\] Veryor: C=Concentration. D=Depletion. RM=Reduced Matrix: \$\frac{2}{2}\text{Location: PL=Pore Lining, RC=Root Channel. M=Matrix }\] Alaska Closyed Without Hue SY or Redder Underlying Liper Underly	9-12 10YR	3/1	100					Sandy Loam	high organic co	ntent
Type: C=Concentration, D=Depleton, RM=Reduced Matrix 2 Location: PL=Pore Lining, RC=Root Channel, M=Matrix 2 Vertice Soil Indicators:	12-22 10YR		100					Sand		
Indicators for Problematic Hydric Soils. Histosol or Histel (A1) Histic Epipedon (A2) Alaska Alpine swales (TA5) Thick Dark Surface (A12) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed Pores (A15) Alaska Gleyed With 2.57 Hue **Give details of color change in Remarks** **Give details of color change in Remarks** **Hydric Soil Present? Yes **No ** **Depth (inches): **BROLOGY** **Hydric Soil Present? Yes ** **No ** **Depth (inches): **Indicators for vonder (Explain in Remarks) ** **DROLOGY** **Hydric Soil Present? Yes ** **No ** ** **Depth (inches): ** ** ** ** ** ** ** ** **	11 12 10 11									inse una ime su
Indicators for Problematic Hydric Soils. Histosol or Histel (A1) Histo Epipedon (A2) Alaska Alpine swales (TA5) Whore (Explain in Remarks) J One 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 #Give details of color change in Remarks #Hydric Soil Present? Yes • No Depth (Inches): marks: ### Hydric Soil Present? The Secondary Indicators (two or more are required mary Indicators (any one is sufficient) Secondary Indicators (two or more are required mary Indicators (any one is sufficient) Surface Water (A1) High Water Table (A2) Sturration (A3) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B3) Agal Nat or Crust (84) Irron Deposits (B3) Juriace Soil Cracks (B6) ### One Depth (Inches): Present? Yes • No • Depth (Inches): attraction Present? Yes • No										
Indicators: Indicators: Indicators: Indicators for Problematic Hydric Soils? Alaska Gleyed Without Hue SY or Redder Underlying Layer Alaska Gleyed RA13 Alaska Alpine swales (TA5) Without Expired (A12) Alaska Alpine swales (TA5) With 1.5Y Hue										
Indicators for Problematic Hydric Soils? Histosol or Histel (A1) Histic Epipedon (A2) Alaska Alpine sweles (TA5) Whistic Epipedon (A2) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed Pores (A15) Alaska Gleyed Without Hue SY or Redder Underlying Layer (Underlying Layer Underlying Layer (Underlying Layer (Underlyin										
Indicators for Problematic Hydric Soils? Histosol or Histel (A1) Histic Epipedon (A2) Alaska Alpine sweles (TA5) Whistic Epipedon (A2) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed Pores (A15) Alaska Gleyed Without Hue SY or Redder Underlying Layer (Underlying Layer Underlying Layer (Underlying Layer (Underlyin								-		
Indicators for Problematic Hydric Soils? Histosol or Histel (A1)				2						
Histosol or Histed (A1) Histosol or Histed (A1) Histosol or Histed (A1) Histosol or Histed (A1) Histosol or Histed (A2) Alaska Alpine swales (TA5) Alaska Gleyed (A13) Alaska Gleyed (Alas) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed (Alas) Alaska Gleve	Type: C=Concentration. D:	=Depletion.						nnel. M=Matrix		
Histic Epipedon (A2) Alaska Alpine swales (TA5) Underlying Layer Hydrogen Sulfide (A4) Alaska Redox With 2.57 Hue]			4	oils:	1		
Thick Dark Surface (A12) Alaska Gleyed (A13) Alaska Gleyed Pores (A15)	, ,		L	_					nout Hue 5Y or Redde	er
Thick Dark Surface (A12) Alaska Gleyed (A13) Alaska Redox (A14) Alaska Redox (A14) Alaska Redox (A14) Alaska Redox (A14) Alaska Redox (A15) #Give details of color change in Remarks #Hydric Soil Present? Yes No Depth (inches): Water Stained Leaves (B9) Surface Water (A12) Saturation (A3) Water Marks (B1) Derift Deposits (B3) Dirit Deposits (B3) Dirit Deposits (B3) Urice Soil Present? Yes No Depth (inches): Depth (inches): Depth (inches): Water Table (A2) Saturation (A3) Water Marks (B1) Dirit Deposits (B3) Other (Explain in Remarks) Dirit Deposits (B3) Urice Soil Present? Yes No Depth (inches): Depth (inches): Depth (inches): Water Table (A2) Saturation (A3) Mario Deposits (B3) Dirit Deposits (B3) Dirit Deposits (B3) Surface Soil Cracks (B6) FAC-neutral Test (D5) Saturation Present? Yes No Depth (inches): Depth (inches): 1 Depth (inches): 1 Depth (inches): 1 Depth (inches): 1 Scribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:			L		•	•	✓	, - ,	Remarks)	
Alaska Gleyed (A13) Alaska Redox (A14) Alaska Redox (A14) Alaska Redox (A15) Alaska Gleyed Pores (A15) Type: Depth (inches): Type: Depth (inches): Type: Depth (inches): Depth (inches): Type: Depth (inches): Depth (inches): Type: Depth (inc	, , ,		L		With 2.5Y H	ue	V	Other (Explain in R	Cerriar NS)	
Asaka Redox (A14) Alaska Gleyed Pores (A15) Alaska Gleyd Pores (A15) Alaska Gleyed Pores (A15) Alaska Gleyed Pores (A15) Alaska Gleyed Pores (A15) Alaska G	,)		³ One indicator of	hydrophytic	c vegetatio	n, one prim	nary indicator of wet	tland hydrology,	
Alaska Gleyed Pores (A15) *Give details of color change in Remarks strictive Layer (if present): Type: Depth (inches): marks: sitive reaction to alpha, alpha dipyridol *GRONOGY *Etland Hydrology Indicators: imary Indicators (any one is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Marl Deposits (B15) Water Marks (B1) Hydrice Water (A15) Sparsely Vegetated Concave Surface (B8) Water Marks (B1) Water Marks (B1) Difft Deposits (B2) Difft Deposits (B3) Algal Mat or Crust (B4) Torn Deposits (B5) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Depth (inches): **Acc-neutral Test (D5) **Wetland Hydrology Present? Yes No Depth (inches): 1 **Scribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: **Secondary Indicators (two or more are required in water Soil Present? Yes No Depth (inches): 1 **Secondary Indicators (two or more are required in water Soil Present? Yes No No Depth (inches): 1 **Secondary Indicators (two or more are required in water Soil Present? Yes No No Depth (inches): 1 **Secondary Indicators (two or more are required in water Soil Present? Yes No No No Depth (inches): 1 **Secondary Indicators (two or more are required in water Soil Present? Yes No No No Notice (B3) Water Mater Table (A2) Soundary Indicators (two or more are required in water Soil Present? Yes No No Notice (B3) Water Mater Table (A2) Soundary Indicators (two or more are required in water Soil Present? Yes No No Notice (B3) Wetland Hydrology Present? Yes No No Notice (B3) Wetland Hydrology Present? Yes No No Notice (B3) Soundary Indicators (two or more are required in the present? Yes No Notice (B3) Depth (inches): 1 **Secondary Indicators (two or more are required in the present? Yes No Notice (B3) Depth (inches): 1 **Secondary Indicators (two or more are required in the present? Yes No Notice (B3) Depth (inches): 1 **Secondary Indicators (two or more are required in the present? Yes No Notice (B3)	1			and an appropriat	te landscape	e position r	nust be pre	esent		
Strictive Layer (if present): Type: Depth (inches): Marks: Sitive reaction to alpha, alpha dipyridol DROLOGY Stand Hydrology Indicators: Surface Water (A1) Direct Path (A2) Direct Path (A3)	1	5)		4 Give details of o	olor change	in Remark	s			
Type: Depth (inches): DROLOGY										
DROLOGY Ititure reaction to alpha, alpha dipyridol DROLOGY Secondary Indicators (two or more are required' Water Stained Leaves (B9) Drainage Patterns (B10) Drainage	strictive Layer (ii present):								V (a	
DROLOGY **tland Hydrology Indicators:	Type:							Uvdric Sail Dra		
Secondary Indicators (two or more are required mary Indicators (any one is sufficient) Surface Water (A1)	Depth (inches):	ha dipyrido	l					Hydric Soil Pre	esent? Yes ©	NO C
Imary Indicators (any one is sufficient) Surface Water (A1) Inundation Visible on Aerial Imagery (B7) Prince Water (B9) Oxidized Rhizospheres along Living Roots (C9) Saturation (A3) Marl Deposits (B15) Water Marks (B1) Dry-Season Water Table (C2) Dry-Season Water Table (C2) Stunted or Stressed Plants (D1) Inundation Visible on Aerial Imagery (B7) Dry-Season Water (B8) Oxidized Rhizospheres along Living Roots (C9) Salt Deposits (C9) Salt Deposits (C5) Salt Deposits (C5) Salt Deposits (C5) Stunted or Stressed Plants (D1) Dryft Deposits (B3) Other (Explain in Remarks) Verification Geomorphic Position (D2) Shallow Aquitard (D3) Iron Deposits (B5) Surface Soil Cracks (B6) Indicators (B6) Depth (inches): Indicators (B7) Dry-Season Water Table (C2) Stunted or Stressed Plants (D1) Shallow Aquitard (D3) Verification Microtopographic Relief (D4) FAC-neutral Test (D5) Wetland Hydrology Present? Yes No Depth (inches): 1 No Depth (inches): 1 Scribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	Depth (inches): marks: sitive reaction to alpha, alp	ha dipyrido	4					Hydric Soil Pre	esent? Yes ©	NO C
Surface Water (A1)	Depth (inches): marks: itive reaction to alpha, alp		4							
High Water Table (A2) Sparsely Vegetated Concave Surface (B8) Oxidized Rhizospheres along Living Roots (C2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Dry-Season Water Table (C2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Surface Water Present? Yes No Depth (inches): Sparsely Vegetated Concave Surface (B8) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Salt Deposits (C5) Stunted or Stressed Plants (D1) Salt Deposits (C5) Stunted or Stressed Plants (D1) Shallow Aquitard (D3) Wicrotopographic Relief (D4) FAC-neutral Test (D5) Sed Observations: Urface Water Present? Yes No Depth (inches): Sparsely Vegetated Concave Surface (B8) Vestinate Oncion (C4) Salt Deposits (C5) Stunted or Stressed Plants (D1) Shallow Aquitard (D3) Vestination (D2) Shallow Aquitard (D3) Vestination Present? Yes No Depth (inches): Sparsely Vegetated Concave Surface (B8) Vestination Present? Yes No Depth (inches): 1 Soribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	Depth (inches): marks: sitive reaction to alpha, alp /DROLOGY etland Hydrology Indica	ators:						Secondal	ry Indicators (two or	more are required
Water Marks (B1)	Depth (inches): marks: itive reaction to alpha, alp DROLOGY etland Hydrology Indica mary Indicators (any one	ators:		☐ Inundation V	ísible on Ae	erial Imagei	ry (B7)	_Secondar	ry Indicators (two or er Stained Leaves (BS	more are required
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Depth (inches): atter Table Present? Yes No Depth (inches): Algal Mat or Crust (B4) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-neutral Test (D5) Wetland Hydrology Present? Yes No Depth (inches): Atteration Present? Yes No Depth (inches): Activation Present? Yes No Depth (inches): Yes No Depth (inches): Activation Present? Yes No Depth (inches): Yes No Depth (inches): Activation Present? Yes No Depth (inches):	Depth (inches): marks: itive reaction to alpha, alp DROLOGY etland Hydrology Indica mary Indicators (any one Surface Water (A1)	ators:						Secondal	ry Indicators (two or er Stained Leaves (BS nage Patterns (B10)	more are required
Drift Deposits (B3)	Depth (inches): marks: itive reaction to alpha, alp DROLOGY etland Hydrology Indica mary Indicators (any one Surface Water (A1) High Water Table (A2)	ators:		Sparsely Veg	etated Cond			Secondai Wate	ry Indicators (two or er Stained Leaves (BS nage Patterns (B10) lized Rhizospheres ak	more are required 9) ong Living Roots ((
Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Iron Deposits (B5) Surface Soil Cracks (B6) Depth (inches): Stater Table Present? Yes No Depth (inches): Surface Water Present? Yes No	Depth (inches): marks: itive reaction to alpha, alp DROLOGY etland Hydrology Indica mary Indicators (any one Surface Water (A1) High Water Table (A2) Saturation (A3)	ators:		Sparsely Veg Marl Deposits	etated Cond s (B15)	cave Surfac		Secondal Wate Drai Oxid	ry Indicators (two or er Stained Leaves (B9 nage Patterns (B10) lized Rhizospheres ald ence of Reduced Iror	more are required 9) ong Living Roots ((
☐ Iron Deposits (B5) ☐ Surface Soil Cracks (B6) ☐ FAC-neutral Test (D5) ☐ Surface Water Present? Yes ○ No ○ Depth (inches): Vater Table Present? Yes ○ No ○ Depth (inches): 6 ☐ Surface Water Present? Yes ○ No ○ Depth (inches): 1 ☐ Scribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	Depth (inches): marks: sitive reaction to alpha, alp DROLOGY etland Hydrology Indications (any one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	ators: is sufficient		Sparsely Veg Marl Deposits Hydrogen Su	jetated Cond s (B15) ilfide Odor (cave Surfac		Secondal Wate Drai Oxid Pres Salt	ry Indicators (two or er Stained Leaves (BS nage Patterns (B10) lized Rhizospheres ald ence of Reduced Iror Deposits (C5)	more are required 9) ong Living Roots (0 n (C4)
Surface Soil Cracks (B6) Eld Observations: Urface Water Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): 6 Surface Water Present? Yes No Depth (inches): 6 Surface Water Present? Yes No Depth (inches): 1 Secribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	Depth (inches): marks: sitive reaction to alpha, alp DROLOGY etland Hydrology Indications (any one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	ators: is sufficient		Sparsely Veg Marl Deposit: Hydrogen Su Dry-Season V	jetated Cond s (B15) ilfide Odor (Water Table	cave Surfac (C1) e (C2)		Secondal Wate Drai Oxid Pres Salt Stun	ry Indicators (two or er Stained Leaves (B9 nage Patterns (B10) lized Rhizospheres alo ence of Reduced Iror Deposits (C5) ated or Stressed Plant	more are required ong Living Roots (0 1 (C4)
eld Observations: urface Water Present? Yes No Depth (inches): //ater Table Present? Yes No Depth (inches): 6 aturation Present? Yes No Depth (inches): 1 scribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	Depth (inches): marks: sitive reaction to alpha, alp DROLOGY etland Hydrology Indication imary Indicators (any one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	ators: is sufficient		Sparsely Veg Marl Deposit: Hydrogen Su Dry-Season V	jetated Cond s (B15) ilfide Odor (Water Table	cave Surfac (C1) e (C2)		Secondar Wate Drai Oxid Pres Salt Stun Geor	ry Indicators (two or er Stained Leaves (B9 nage Patterns (B10) lized Rhizospheres ald ence of Reduced Iror Deposits (C5) ated or Stressed Plant morphic Position (D2) low Aquitard (D3)	more are required ong Living Roots (0 on (C4) os (D1)
urface Water Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): 6 Auturation Present? Yes No Depth (inches): 1 Secribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	Depth (inches): marks: sitive reaction to alpha, alp DROLOGY etland Hydrology Indication imary Indicators (any one) 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)	ators: is sufficient		Sparsely Veg Marl Deposit: Hydrogen Su Dry-Season V	jetated Cond s (B15) ilfide Odor (Water Table	cave Surfac (C1) e (C2)		Secondal Wate Drai Oxid Pres Salt Stun Geool Shal	ry Indicators (two or er Stained Leaves (BS nage Patterns (B10) lized Rhizospheres ald ence of Reduced Iror Deposits (C5) sted or Stressed Plant morphic Position (D2) low Aquitard (D3) otopographic Relief (more are required ong Living Roots (0 on (C4) os (D1)
Vater Table Present? Yes No Depth (inches): 6 aturation Present? Yes No Depth (inches): 1 Scribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	Depth (inches): marks: sitive reaction to alpha, alp DROLOGY etland Hydrology Indication imary Indicators (any one) 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)	ators: is sufficient		Sparsely Veg Marl Deposit: Hydrogen Su Dry-Season V	jetated Cond s (B15) ilfide Odor (Water Table	cave Surfac (C1) e (C2)		Secondal Wate Drai Oxid Pres Salt Stun Geool Shal	ry Indicators (two or er Stained Leaves (BS nage Patterns (B10) lized Rhizospheres ald ence of Reduced Iror Deposits (C5) sted or Stressed Plant morphic Position (D2) low Aquitard (D3) otopographic Relief (more are required ong Living Roots (0 on (C4) os (D1)
sturation Present? Includes capillary fringe) Yes No Depth (inches): 1 Scribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	Depth (inches): marks: itive reaction to alpha, alpha DROLOGY Etland Hydrology Indicators (any one 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)	ators: is sufficient)	Sparsely Veg Marl Deposit: Hydrogen Su Dry-Season \ Other (Expla	etated Cond s (B15) Ilfide Odor (Water Table in in Remar	cave Surfac (C1) e (C2)		Secondal Wate Drai Oxid Pres Salt Stun Geool Shal	ry Indicators (two or er Stained Leaves (BS nage Patterns (B10) lized Rhizospheres ald ence of Reduced Iror Deposits (C5) sted or Stressed Plant morphic Position (D2) low Aquitard (D3) otopographic Relief (more are required ong Living Roots (0 on (C4) os (D1)
ncludes capillary fringe) Yes No Depth (inches): 1 scribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	Depth (inches): marks: sitive reaction to alpha, alp DROLOGY etland Hydrology Indica imary Indicators (any one 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?	ators: is sufficient) No •	Sparsely Veg Marl Deposit: Hydrogen Su Dry-Season \ Other (Expla	etated Cond s (B15) Ilfide Odor (Water Table in in Remar	cave Surfac (C1) e (C2)	ce (B8)	Secondal Wate Drai Oxid Pres Salt Stun Geor Shal	ry Indicators (two or er Stained Leaves (B9 nage Patterns (B10) lized Rhizospheres ald ence of Reduced Iror Deposits (C5) ated or Stressed Plant morphic Position (D2) low Aquitard (D3) otopographic Relief (ineutral Test (D5)	more are required ong Living Roots (0 1 (C4) 25 (D1) D4)
	Depth (inches): marks: sitive reaction to alpha, alp DROLOGY etland Hydrology Indication imary Indicators (any one 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) etla Observations: urface Water Present?	ators: is sufficient) No •	Sparsely Veg Marl Deposit Hydrogen Su Dry-Season \ Other (Expla	petated Cond s (B15) ulfide Odor (Water Table in in Remar	cave Surfac (C1) e (C2)	ce (B8)	Secondal Wate Drai Oxid Pres Salt Stun Geor Shal	ry Indicators (two or er Stained Leaves (B9 nage Patterns (B10) lized Rhizospheres ald ence of Reduced Iror Deposits (C5) ated or Stressed Plant morphic Position (D2) low Aquitard (D3) otopographic Relief (ineutral Test (D5)	more are required ong Living Roots (0 1 (C4) 25 (D1) D4)
marks:	Depth (inches): marks: sitive reaction to alpha, alp DROLOGY etland Hydrology Indica imary Indicators (any one 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? faturation Present?	Yes Yes) No • No · No ·	Sparsely Veg Marl Deposit: Hydrogen Su Dry-Season N Other (Expla) Depth (inche)	petated Cond s (B15) ulfide Odor (Water Table in in Reman	cave Surfac (C1) e (C2)	ce (B8)	Secondal Wate Drai Oxid Pres Salt Stun Geor Shal	ry Indicators (two or er Stained Leaves (B9 nage Patterns (B10) lized Rhizospheres ald ence of Reduced Iror Deposits (C5) ated or Stressed Plant morphic Position (D2) low Aquitard (D3) otopographic Relief (ineutral Test (D5)	more are required ong Living Roots (0 1 (C4) 25 (D1) D4)
marks:	Depth (inches): marks: itive reaction to alpha, alp DROLOGY etland Hydrology Indica mary Indicators (any one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) I ron Deposits (B5) Surface Soil Cracks (B6) eld Observations: urface Water Present? atter Table Present? includes capillary fringe)	Yes Yes •) No • No ·	Sparsely Veg Marl Deposit Hydrogen Su Dry-Season V Other (Expla Depth (inche	petated Condons (B15) Ilfide Odor (Water Table in in Remark es): 6 es): 1	cave Surfac (C1) e (C2) ks)	Wetlar	Secondal Wate Drai Oxid Pres Salt Stun Geor Shal	ry Indicators (two or er Stained Leaves (B9 nage Patterns (B10) lized Rhizospheres ald ence of Reduced Iror Deposits (C5) ated or Stressed Plant morphic Position (D2) low Aquitard (D3) otopographic Relief (ineutral Test (D5)	more are required ong Living Roots (0 1 (C4) 25 (D1) D4)
positive reaction to alpha, alpha dipyridol. D2floodplaiin of small stream (see SW15_T314_11). D4calcan tussocks.	Depth (inches): marks: itive reaction to alpha, alpha DROLOGY Paland Hydrology Indication in the image of t	Yes Yes •) No • No ·	Sparsely Veg Marl Deposit Hydrogen Su Dry-Season V Other (Expla Depth (inche	petated Condons (B15) Ilfide Odor (Water Table in in Remark es): 6 es): 1	cave Surfac (C1) e (C2) ks)	Wetlar	Secondal Wate Drai Oxid Pres Salt Stun Geor Shal	ry Indicators (two or er Stained Leaves (B9 nage Patterns (B10) lized Rhizospheres ald ence of Reduced Iror Deposits (C5) ated or Stressed Plant morphic Position (D2) low Aquitard (D3) otopographic Relief (ineutral Test (D5)	more are required ong Living Roots (0 1 (C4) 25 (D1) D4)

U.S. Army Corps of Engineers Alaska Version 2.0