## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	Site: Susitna-Watana Hydroelectric Project	B	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 05-Jul-13
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW13_T114_02
nvesti	ator(s): WAD, BAB		Landform (hill	side, terrac	e, hummocks etc.): Alluvial fan
_ocal ı	elief (concave, convex, none): convex		Slope:	%/ 2.4	Elevation: 505
Subred	on : Interior Alaska Mountains	lat í	62.781647444	14	Long.: -148.016287683 Datum: NAD83
-	o Unit Name:		52.70104744-		
				• No ()	NWI classification: PEM1E
Are V	natic/hydrologic conditions on the site typical for this         egetation       , Soil       , or Hydrology         egetation       , Soil       , or Hydrology	significantly naturally pre	disturbed?	Are "N	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.)
UMI	IARY OF FINDINGS - Attach site map sho	owing sam	pling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes 🔍 No 🤇	C			
	Hydric Soil Present? Yes	С	ls	the Sam	pled Area
	Wetland Hydrology Present? Yes   No (	С	wi	thin a W	etland? Yes $lacksquare$ No $igodol $
Rema	rks: sloping wet meadow. convex feature.	0			
/EGE	TATION - Use scientific names of plants. I	Absolute	Dominant	Indicator	Dominance Test worksheet:
	Stratum	<u>% Cover</u>	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)
1.		0			Total Number of Dominant
2.		0			Species Across All Strata:3 (B)
3.					Percent of dominant Species
4.		0			That Are OBL, FACW, or FAC:(A/B)
5.		0			Prevalence Index worksheet:
	Total Cove				Total % Cover of: Multiply by:
Sap	ing/Shrub Stratum 50% of Total Cover:	20%	of Total Cover:	0	OBL Species x 1 =70
1.	Salix pulchra	4	$\checkmark$	FACW	FACW Species x 2 =8
2.	Salix barclayi	5	$\checkmark$	FAC	FAC Species <u>15</u> x 3 = <u>45</u>
3.					FACU Species <u>0</u> x 4 = <u>0</u>
4.					UPL Species x 5 =
5.		0			Column Totals: 89 (A) 123 (B)
6.		0			
7.		0			Prevalence Index = B/A = <u>1.382</u>
8.		0			Hydrophytic Vegetation Indicators:
9.		0			✓ Dominance Test is > 50%
10.		0			✓ Prevalence Index is $\leq$ 3.0
Her	Total Cove <u>Stratum</u> 50% of Total Cover:		of Total Cover	: 1.8	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
	Calamagrostis canadensis	10		FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	Corox aquatilia			OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
	Comerum polyetre	15		OBL	be present, unless disturbed or problematic.
					Plot size (radius, or length x width) <u>10m</u>
					% Cover of Wetland Bryophytes (Where applicable)
					% Bare Ground
					Total Cover of Bryophytes 0
					··· ·
9.		0			
					Hydrophytic
	Total Cove				Hydrophytic Vegetation Present? Yes • No O

Interview       Cate (resist)       %s       Cate (resist)       %s       Type:       Loc 2       Texture       Remarks         0-3       57       3/1       65       2.57       4/2       15       RM       PL       Sit	Ma		the depth nee <b>1atrix</b>	aea to docur	ument the indicator or confirm the absence of indicators) <b>Redox Features</b>			ators)	_	
0-3       5Y       3/1       65       2.5Y       4/2       15       RM       PL       SR         3-5       5Y       4/1       100       RM       PL       SR       SR         7-3       SR       SR       SR       SR       SR       SR       SR         7-8       SR       <	Depth (inches)	Color (mo	ist)	%	Color (moist)	%	Type <sup>1</sup>	Loc 2	Texture	Remarks
5-7       5Y       3/1       Sit         7-8       Sand       Sand         1*Type:: C-Concentration. D=Depletion. RM-Reduced Matrix <sup>2</sup> Location: PL=Rore Lining. RC=Root Channel, M=Matrix       High content of the stand part stand part stand part stand part of the stand part of the stand	0-3								Silt	
7-8	3-5	5Y	4/1	100			RM	PL	Sand	
7-8	5-7	5Y	3/1						Silt	
			5/1						·	
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>2</sup> Hydric Soil Addieved Without Hue SY or Redder       Alaska Gleved Without Hue SY or Redder         Histic Expredion (A2)       Alaska Alpine swales (TA5)       Indiefying Layer         Histic Expredion (A2)       Alaska Alpine swales (TA5)       Other (Explain in Remarks)         Histic Expredion (A2)       Alaska Alpine swales (TA5)       Other (Explain in Remarks)         Alaska Gleved (A13)       an appropriate landscape position must be present         Alaska Gleved Notes (A15)       4 Give details of color change in Remarks         Restrictive Layer (if present):       Type: seasonal fost         Depth (inches): 29       Hydric Soil Present? Yes No         Remarks:       Present/ Mydric Vegetated Concave Surface (B8)         Philary Indicators (arv on is sufficient)       Inudation Visible on Aerial Imagery (B7)         Water Mark (B1)       Inudation Visible on Aerial Imagery (B7)         Water Table (A2)       Sparsely Vegetated Concave Surface (B8)         Water Kante (B1)       Hydrogost (C1)         Water Mark (B1)       Hydrogost (C1)         Water Mark (B1)       Hydrogost (C1)         Water Mark (B1)       Hydrogost (C1)         High Water Catel (C4)       Sat Depostic (C5)         Mark (B1)       Hydrogost (C1)	/-0								Sallu	
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>2</sup> Histic Epipedon (A2)       Alaska Clove Change (TMA) <sup>4</sup> Histic Epipedon (A2)       Alaska Alpine swales (TA5)         Histic Epipedon (A2)       Alaska Alpine swales (TA5)         Histic Dark Surface (A12)       Alaska Alpine swales (TA5)         Alaska Gleyed (A13) <sup>3</sup> One indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, and an appropriate landscape position must be present         Alaska Gleyed Nores (A15) <sup>4</sup> Give details of color change in Remarks         Restrictive Layer (if present):       Type: seasonal foot Depth (inches): 29         Remarks:       Proselby Alaska Gleyed but due to water in the pit not possible to dig past the gleyed layer, assume hydric soil due to geomorphic position, active channel nearby and high water pH at 7.2 which would make redox concentrations more difficult to observe.         HYDROLOGY         Wetstand Hydrology Indicators:       Secondary Indicators (two or more are required)         Water Marks (B1)       Inundation Visible on Aerial Imagery (B7)       Water Stained Leaves (P3)         Water Table (A2)       Sparsely Vegetated Concave Surface (B8)       Oxidized Rhizospheres along Living Roots (C13)         Water Marks (B1)       Hydropsois (B15)       Presence of Reduced Iron (C4)         Water Table (A2)       Dyny-Season Water Table (C2)       Suitedo or Stressed Plants (D1)										8
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>2</sup> Histic Expredion (A2)       Alaska Clore Change (TA4) <sup>4</sup> Histic Expredion (A2)       Alaska Alpine swales (TA5)         Histic Expredion (A2)       Alaska Alpine swales (TA5)         Histic Expredion (A2)       Alaska Alpine swales (TA5)         Histic Captedion (A12)       Alaska Alpine swales (TA5)         Alaska Gleyed (A13)       an appropriate landscape position must be present         Alaska Gleyed (A13)       an appropriate landscape position must be present         Alaska Gleyed Nores (A15)       4 Give details of color change in Remarks         Restrictive Layer (if present):       Type: seasonal fost         Depth (inches): 29       Hydric Soil Present? Yes (Part)         Remarks:       Possibly Alaska Gleyed but due to water in the pit not possible to dig past the gleyed layer, assume hydric soil due to geomorphic position, active channel nearby and high water pH at 7.2 which would make redox concentrations more difficult to observe.         HYDROLOGY       Surface Water (A1)       Inundation Visible on Aerial Imagery (B7)         Water Marks (B1)       Hydric Soil Mater Stained Leaves (B9)       Oxidized Rhizospheres along Living Roots (C3)         Water Marks (B1)       Hydric Soil Mater Stained Leaves (B9)       Oxidized Rhizospheres along Living Roots (C3)         Water Marks (B1)       Hydric Soil Mater Stained Leaves (B9)										
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>2</sup> Hydric Soil Addieved Without Hue SY or Redder       Alaska Gleved Without Hue SY or Redder         Histic Expredion (A2)       Alaska Alpine swales (TA5)       Indiefying Layer         Histic Expredion (A2)       Alaska Alpine swales (TA5)       Other (Explain in Remarks)         Histic Expredion (A2)       Alaska Alpine swales (TA5)       Other (Explain in Remarks)         Alaska Gleved (A13)       an appropriate landscape position must be present         Alaska Gleved Notes (A15)       4 Give details of color change in Remarks         Restrictive Layer (if present):       Type: seasonal fost         Depth (inches): 29       Hydric Soil Present? Yes No         Remarks:       Present/ Mydric Vegetated Concave Surface (B8)         Philary Indicators (arv on is sufficient)       Inudation Visible on Aerial Imagery (B7)         Water Mark (B1)       Inudation Visible on Aerial Imagery (B7)         Water Table (A2)       Sparsely Vegetated Concave Surface (B8)         Water Kante (B1)       Hydrogost (C1)         Water Mark (B1)       Hydrogost (C1)         Water Mark (B1)       Hydrogost (C1)         Water Mark (B1)       Hydrogost (C1)         High Water Catel (C4)       Sat Depostic (C5)         Mark (B1)       Hydrogost (C1)										
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>2</sup> Histic Epipedon (A2)       Alaska Clove Change (TMA) <sup>4</sup> Histic Epipedon (A2)       Alaska Alpine swales (TA5)         Histic Epipedon (A2)       Alaska Alpine swales (TA5)         Histic Dark Surface (A12)       Alaska Alpine swales (TA5)         Alaska Gleyed (A13) <sup>3</sup> One indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, and an appropriate landscape position must be present         Alaska Gleyed Nores (A15) <sup>4</sup> Give details of color change in Remarks         Restrictive Layer (if present):       Type: seasonal foot Depth (inches): 29         Remarks:       Proselby Alaska Gleyed but due to water in the pit not possible to dig past the gleyed layer, assume hydric soil due to geomorphic position, active channel nearby and high water pH at 7.2 which would make redox concentrations more difficult to observe.         HYDROLOGY         Wetstand Hydrology Indicators:       Secondary Indicators (two or more are required)         Water Marks (B1)       Inundation Visible on Aerial Imagery (B7)       Water Stained Leaves (P3)         Water Table (A2)       Sparsely Vegetated Concave Surface (B8)       Oxidized Rhizospheres along Living Roots (C13)         Water Marks (B1)       Hydropsois (B15)       Presence of Reduced Iron (C4)         Water Table (A2)       Dyny-Season Water Table (C2)       Suitedo or Stressed Plants (D1)							_			
Image: histogol or Histel (A1)       Image: Alaska Color Change (TA4) <sup>4</sup> Image: Alaska Alpine swales (TA5)         Image: hydrogen Sulfiel (A4)       Image: Alaska Alpine swales (TA5)       Image: Alaska Alpine swales (TA5)         Image: hydrogen Sulfiel (A1)       Image: Alaska Redox With 2.5Y Hue       Image: Alaska Gleyed Without Hue SY or Redder Underlying Layer         Image: Alaska Gleyed (A13)       Image: Alaska Redox With 2.5Y Hue       Image: Alaska Gleyed (A13)       Image: Alaska Gleyed (A13)         Image: Alaska Gleyed (A13)       Image: Alaska Gleyed (A13)       Image: Alaska Gleyed (A14)       Image: Alaska Gleyed (A13)         Image: Alaska Gleyed (A13)       Image: Alaska Gleyed (A14)       Image: Alaska Gleyed (A15)       Image: Alaska Gleyed (A15)         Restrictive Layer (if present):       Type: seasonal frost       Image: Alaska Gleyed but due to water in the pit not possible to dig past the gleyed layer, assume hydric soil due to geomorphic position, active channel nearby and high water pH at 7.2 which would make redox concentrations more difficult to observe.         HYDROLOGY       Image: Alaska Gleyed Vide to water in the pit not possible to dig past the gleyed layer, assume hydric soil due to geomorphic position, active channel nearby and high water Table (A2)         Surface Water (A1)       Imundation Visible on Aerial Imagery (B7)       Image: Alaska Gleyed Vide Alazed Redox Vide Alaz	<sup>1</sup> Type: C=Concent	ration. D=	Depletion.	RM=Reduce	ed Matrix <sup>2</sup> Loca	tion: PL=Pore	e Lining. RC	=Root Cha	annel. M=Matrix	
Image: histogol or Histel (A1)       Image: Alaska Color Change (TA4) <sup>4</sup> Image: Alaska Alpine swales (TA5)         Image: hydrogen Sulfiel (A4)       Image: Alaska Alpine swales (TA5)       Image: Alaska Alpine swales (TA5)         Image: hydrogen Sulfiel (A1)       Image: Alaska Redox With 2.5Y Hue       Image: Alaska Gleyed Without Hue SY or Redder Underlying Layer         Image: Alaska Gleyed (A13)       Image: Alaska Redox With 2.5Y Hue       Image: Alaska Gleyed (A13)       Image: Alaska Gleyed (A13)         Image: Alaska Gleyed (A13)       Image: Alaska Gleyed (A13)       Image: Alaska Gleyed (A14)       Image: Alaska Gleyed (A13)         Image: Alaska Gleyed (A13)       Image: Alaska Gleyed (A14)       Image: Alaska Gleyed (A15)       Image: Alaska Gleyed (A15)         Restrictive Layer (if present):       Type: seasonal frost       Image: Alaska Gleyed but due to water in the pit not possible to dig past the gleyed layer, assume hydric soil due to geomorphic position, active channel nearby and high water pH at 7.2 which would make redox concentrations more difficult to observe.         HYDROLOGY       Image: Alaska Gleyed Vide to water in the pit not possible to dig past the gleyed layer, assume hydric soil due to geomorphic position, active channel nearby and high water Table (A2)         Surface Water (A1)       Imundation Visible on Aerial Imagery (B7)       Image: Alaska Gleyed Vide Alazed Redox Vide Alaz	Hydric Soil Indic	ators:			Indicators for	Problematio	c Hydric So	oils: <sup>3</sup>		
I Histic Epipedon (A2)       Inderlying layer         I Histic Epipedon (A2)       Alaska Redox With 2.5' Hue       I Other (Explain in Remarks)         I Histic Sufface (A12)       Alaska Redox With 2.5' Hue       I Other (Explain in Remarks)         I Histic Sufface (A12)       3 One indicator of hydrophytic vegetation, one primary indicator of wethand hydrology, and an appropriate landscape position must be present         I Alaska Redox (A14)       • Give details of color change in Remarks         Restrictive Layer (if present):       Type: sessional frost         Depth (inches): 29       Hydric Soil Present?       Yes ● No ●         Remarks:       Possibly Alaska Gleyed but due to water in the pit not possible to dig past the gleyed layer, assume hydric soil due to geomorphic position, active channel nearby and high water pH at 7.2 which would make redox concentrations more difficult to observe.         HyDROLOGY	Histosol or Hist	el (A1)					4		Alaska Gleyed Without H	ue 5Y or Redder
Image: Suffice (A4)       Alaska Redox With 2.SY Hue       ✓ Other (Explain in Remarks)         Image: Display Labeka Gleyed (A12)       Bone Indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, and an appropriate landscape position must be present       Bone Indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, and an appropriate landscape position must be present         Alaska Gleyed Pores (A15)       * Give details of color change in Remarks         Restrictive Layer (If present):       Type: seasonal frost         Depth (inches): 29       Hydric Soil Present? Yes ● No ○         Remarks:       Possibly Alaska Gleyed but due to water in the pit not possible to dig past the gleyed layer, assume hydric soil due to geomorphic position, active channel nearby and high water pit at 7.2 which would make redox concentrations more difficult to observe.         HYDROLOGY       Wettand Hydrology Indicators:       Secondary Indicators (two or more are reaured)         Primary Indicators (any one is sufficient)       Inundation Visible on Aerial Imagery (B7)       ✓ Drainage Patterns (B10)         ✓ High Water Table (A2)       Sparsey Vegetated Conce Surface (B8)       ○ Dotaicad Rhiosopheres along Living Roots (C3)         ✓ Saturation (A3)       Mart Deposits (B1)       ○ Hydrogen Sulfide Odor (C1)       Sature of Stressed Plants (D1)         ○ Dirth Deposits (B3)       O Dirth Ceposits (C5)       ✓ Saturation Present?       Yes ● No ○       Depth (inches): 1		. ,								
<ul> <li>Alaska Gleyed (A13)</li> <li>Alaska Gleyed (A13)</li> <li>Alaska Gleyed (A13)</li> <li>Alaska Gleyed Nores (A15)</li> <li><sup>A</sup> Give details of color change in Remarks</li> <li>Restrictive Layer (If present):</li> <li>Type: seasonal frost</li> <li>Depth (inches): 29</li> <li>Hydric Soil Present? Yes ● No ●</li> <li>Persence of Reduced Longe in Remarks</li> </ul>					Alaska Redox With 2.5Y Hue Vother (Explain in Remark					s)
Image Greeken (A13)       and an appropriate landscape position must be present         Image Greeken (A13)       4Give details of color change in Remarks         Restrictive Layer (If present):       Type: seasonal frost         Depth (inches): 29       Hydric Soil Present? Yes ● No ●         Remarks:       Possible to due to water in the pit not possible to dig past the pleyed layer, assume hydric soil due to geomorphic position, active channel nearby and high water pH at 7.2 which would make redox concentrations more difficult to observe.         HYDROLOGY	Thick Dark Sur	face (A12)			_					
□ Alaska Redox (A14)       ▲ Give details of color change in Remarks         Restrictive Layer (if present):       TyPe: seasonal frost         Depth (inches): 29       Hydric Soil Present? Yes ● No ○         Remarks:       Possibly Alaska Gleyed but due to water in the pit not possible to dig past the gleyed layer, assume hydric soil due to geomorphic position, active channel nearby and high water pH at 7.2 which would make redox concentrations more difficult to observe.         HYDROLOGY       ■         Wetland Hydrology Indicators:       ■         Primary. Indicators (anv one is sufficient)       □         Implementation (A3)       □         Surface Water (A1)       □         Startation (A3)       □         Mary Deposits (B1)       □         Implementation (A3)       □         Mary Deposits (B2)       □         Dry-Season Water Table (C2)       □         Surface Water (B4)       □         Deposits (B3)       ○         Other (Explain in Remarks)       □         Geomorphic Position (C2)       □         Surface Water (Present?       Yes ● No ○         Deposits (B3)       ○         Other (Explain in Remarks)       □         Geomorphic Position (C2)       □         Surface Water (Present?       Yes ● No ○ <td>Alaska Gleyed</td> <td>(A13)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ydrology,</td>	Alaska Gleyed	(A13)								ydrology,
□ Jaska dependence (A15)         Restrictive Layer (if present):         Type: seasonal frost         Depth (inches): 29         Remarks:         Possibly Alaska Gleyed but due to water in the pit not possible to dig past the gleyed layer, assume hydric soil due to geomorphic position, active channel nearby and high water pH at 7.2 which would make redox concentrations more difficult to observe.         HYDROLOGY         Wetland Hydrology Indicators:       Secondary Indicators (two or more are required)         Primary Indicators (arw one is sufficient)       Inundation Visible on Aerial Imagery (B7)       Water stained Leaves (B9)         Ø Surface Water (A1)       Inundation Visible on Aerial Imagery (B7)       Water stained Leaves (B9)         Ø Surface Water (A1)       Inundation Visible on Aerial Imagery (B7)       Water stained Leaves (B9)         Ø Surface Water (A1)       Inundation Visible on Aerial Imagery (B7)       Water stained Leaves (B9)         Ø Surface Water (A1)       Inundation Visible on Aerial Imagery (B7)       Water Stained Leaves (B9)         Ø Surface Water (A1)       Inundation Visible on Aerial Imagery (B7)       Water Stained Leaves (B9)         Ø Surface Water (A1)       Inundation Visible on Aerial Imagery (B7)       Water Stained Leaves (B9)         Ø Surface Water (A1)       Inundation Visible Odor (C1)       Saturation (C4)         Ø Sufface Mater S(B2)       Dry-Season Water Tab							•		esent	
Type: seasonal frost   Depth (inches): 29     Remarks:   Possibly Alaska Gleyed but due to water in the pit not possible to dig past the gleyed layer, assume hydric soil due to geomorphic position, active channel nearby and high water pH at 7.2 which would make redox concentrations more difficult to observe. <b>Hydric Soil Present?</b> Yes No    Possibly Alaska Gleyed but due to water in the pit not possible to dig past the gleyed layer, assume hydric soil due to geomorphic position, active channel nearby and high water pH at 7.2 which would make redox concentrations more difficult to observe. <b>HyDRCLOGY Wetland Hydrology Indicators:</b> Primary Indicators (any one is sufficient)   Primary Indicators (any one is sufficient)   Primary Indicators (A1)   Primary Indicators (A2)   Geomorphic Position (A3)   Marl Deposits (B15)   Saturation (A3)   Marl Deposits (B15)   Dird Deposits (B2)   Dird Deposits (B2)   Dird Deposits (B3)   Geomorphic Position (D2)   Algal Mat or Crust (B4)   Iron Deposits (B5)   Surface Water Present?   Yes No   Depth (inches): 1   Water Table Present?   Yes No   Depth (inches): 0   Saturation Present?   Yes No   Depth (inches): 0	Alaska Gleyed	Pores (A15	5)		<sup>4</sup> Give details o	of color change	e in Remark	S		
Type: seasonal frost   Depth (inches): 29     Remarks:   Possibly Alaska Gleyed but due to water in the pit not possible to dig past the gleyed layer, assume hydric soil due to geomorphic position, active channel nearby and high water pH at 7.2 which would make redox concentrations more difficult to observe. <b>Hydric Soil Present?</b> Yes No    Possibly Alaska Gleyed but due to water in the pit not possible to dig past the gleyed layer, assume hydric soil due to geomorphic position, active channel nearby and high water pH at 7.2 which would make redox concentrations more difficult to observe. <b>HyDRCLOGY Wetland Hydrology Indicators:</b> Primary Indicators (any one is sufficient)   Primary Indicators (any one is sufficient)   Primary Indicators (A1)   Primary Indicators (A2)   Geomorphic Position (A3)   Marl Deposits (B15)   Saturation (A3)   Marl Deposits (B15)   Dird Deposits (B2)   Dird Deposits (B2)   Dird Deposits (B3)   Geomorphic Position (D2)   Algal Mat or Crust (B4)   Iron Deposits (B5)   Surface Water Present?   Yes No   Depth (inches): 1   Water Table Present?   Yes No   Depth (inches): 0   Saturation Present?   Yes No   Depth (inches): 0	Restrictive Laver (if	present):								
Depth (inches): 29         Remarks:         Possibly Alaska Gleyed but due to water in the pit not possible to dig past the gleyed layer, assume hydric soil due to geomorphic position, active channel nearby and high water pH at 7.2 which would make redox concentrations more difficult to observe.         HYDROLOGY         Wetland Hydrology Indicators:		-							Hydric Soil Present	? Yes 🖲 No 🔾
Remarks:         Possibly Alaska Gleyed but due to water in the pit not possible to dig past the gleyed layer, assume hydric soil due to geomorphic position, active channel nearby and high water pH at 7.2 which would make redox concentrations more difficult to observe.         HYDROLOGY         Wetland Hydrology Indicators:										
Possibly Alaska Gleyed but due to water in the pit not possible to dig past the gleyed layer, assume hydric soil due to geomorphic position, active channel nearby and high water pH at 7.2 which would make redox concentrations more difficult to observe.         HYDROLOGY         Wetland Hydrology Indicators:	Demenden									
Wetland Hydrology Indicators:       Secondary Indicators (two or more are required)         Primary Indicators (any one is sufficient)       Water Stained Leaves (89)         ✓ Surface Water (A1)       Inundation Visible on Aerial Imagery (B7)       Drainage Patterns (B10)         ✓ High Water Table (A2)       Sparsely Vegetated Concave Surface (B8)       Oxidized Rhizospheres along Living Roots (C3)         ✓ Saturation (A3)       Marl Deposits (B15)       Presence of Reduced Iron (C4)         Sediment Deposits (B2)       Dry-Season Water Table (C2)       Statuted or Stressed Plants (D1)         Drift Deposits (B3)       Other (Explain in Remarks)       Geomorphic Position (D2)         Infor Deposits (B5)       Microtopographic Relief (D4)         Surface Water Present?       Yes No       Depth (inches): 1         Water Table Present?       Yes No       Depth (inches): 0         Saturation Present?       Yes No       Depth (inches): 0         Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:       Wetland Hydrology Present?										
Primary Indicators (any one is sufficient)       Water Stained Leaves (B9)         Water Value (A1)       Inundation Visible on Aerial Imagery (B7)       Drainage Patterns (B10)         High Water Table (A2)       Sparsely Vegetated Concave Surface (B8)       Oxidized Rhizospheres along Living Roots (C3)         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)       Microtopographic Relief (D4)         Surface Water Present?       Yes Image: No O       Depth (inches): 1         Water Table Present?       Yes Image: No O       Depth (inches): 0         Saturation Present?       Yes No O       Depth (inches): 0       Wetland Hydrology Present?       Yes No O         Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:       Describe available:       Saturaliable:	HYDROLOGY									
✓ Surface Water (A1)       Inundation Visible on Aerial Imagery (B7)       ✓ Drainage Patterns (B10)         ✓ High Water Table (A2)       Sparsely Vegetated Concave Surface (B8)       Oxidized Rhizospheres along Living Roots (C3)         ✓ 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)       Microtopographic Relief (D4)         Surface Water Present?       Yes ● No ○       Depth (inches): 1       Depth (inches): 0         Water Table Present?       Yes ● No ○       Depth (inches): 0       Wetland Hydrology Present?       Yes ● No ○         Saturation Present?       Yes ● No ○       Depth (inches): 0       Depth (inches): 0       Depth (inches): 0         Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:       Depth       Invalue Present)       Yes ● No ○	Wetland Hydrolog	gy Indica	tors:						Secondary Indi	cators (two or more are required)
✓ High Water Table (A2)       □ Sparsely Vegetated Concave Surface (B8)       □ Oxidized Rhizospheres along Living Roots (C3)         ✓ Saturation (A3)       □ Marl Deposits (B15)       □ Presence of Reduced Iron (C4)         □ Water Marks (B1)       □ Hydrogen Sulfide Odor (C1)       □ Salt Deposits (C5)         □ Sediment Deposits (B3)       □ 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)       □ Depth (inches): 1         □ Surface Sulf Cracks (B6)       □ Depth (inches): 1         Water Table Present?       Yes ● No ○       Depth (inches): 0         Saturation Present?       Yes ● No ○       Depth (inches): 0         Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:       □	Primary Indicators	(any one i	s sufficient)						Water Stai	ned Leaves (B9)
✓ 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 ○         Saturation Present?       Yes ● No ○       Depth (inches): 1         Water Table Present?       Yes ● No ○       Depth (inches): 0         Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:       If available:	Surface Water	(A1)			Inundatio	n Visible on A	erial Image	ry (B7)	🖌 Drainage P	atterns (B10)
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): 1         Water Table Present?       Yes ● No ○ Depth (inches): 0       Wetland Hydrology Present? Yes ● No ○         Saturation Present?       Yes ● No ○ Depth (inches): 0       Wetland Hydrology Present? Yes ● No ○         Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:       Surface Soil Cracks (Si C5)		. ,			Sparsely \	legetated Cor	ncave Surfac	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)
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): 1 Water Table Present? Yes ● No ○ Depth (inches): 0 Depth (inches): 0 Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:					Marl Depo	osits (B15)			_	( )
□ Drift Deposits (B3) □ Other (Explain in Remarks)   □ 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): 1   Water Table Present? Yes ● No ○ Depth (inches): 0   Saturation Present? Yes ● No ○ Depth (inches): 0   Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	Water Marks (	B1)			Hydrogen	Sulfide Odor	(C1)			
Algal Mat or Crust (B4)   Iron Deposits (B5)   Surface Soil Cracks (B6)     Field Observations:   Surface Water Present?   Yes   No   Depth (inches):   1   Water Table Present?   Yes   No   Depth (inches):   0   Wetland Hydrology Present? Yes ● No ○    Saturation Present?   Yes   No   Depth (inches):   0   Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:					_ `		• •			( )
□ Iron Deposits (B5) □ Microtopographic Relief (D4)   □ Surface Soil Cracks (B6) ✓ FAC-neutral Test (D5)     Field Observations: Surface Water Present?   Yes No   Depth (inches): 1   Water Table Present? Yes   Yes No   Depth (inches): 0   Wetland Hydrology Present? Yes No Depth (inches): 0 Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:		. ,			Other (Ex	plain in Rema	rks)		_ `	
□ Surface Soil Cracks (B6)       ✓ FAC-neutral Test (D5)         Field Observations:       Surface Water Present?       Yes ● No ○ Depth (inches): 1         Water Table Present?       Yes ● No ○ Depth (inches): 0       Wetland Hydrology Present? Yes ● No ○         Saturation Present?       Yes ● No ○ Depth (inches): 0       Depth (inches): 0         Saturation Present?       Yes ● No ○ Depth (inches): 0       Depth (inches): 0         Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:       Use Saturation if available:	_									
Field Observations:       Ves       No       Depth (inches):       1         Water Table Present?       Yes       No       Depth (inches):       0         Saturation Present?       Yes       No       Depth (inches):       0         Saturation Present?       Yes       No       Depth (inches):       0         Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:       Ves       No		. ,								
Surface Water Present? Yes No Depth (inches): 1   Water Table Present? Yes No Depth (inches): 0   Saturation Present? Yes No Depth (inches): 0   Saturation Present? Yes No Depth (inches): 0   Depth (inches): 0 Depth (inches): 0 Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:		. ,							✓ FAC-neutra	Tiest (DS)
Water Table Present?       Yes       No       Depth (inches):       0       Wetland Hydrology Present?       Yes       No       No         Saturation Present? (includes capillary fringe)       Yes       No       Depth (inches):       0       Wetland Hydrology Present?       Yes       No       O         Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:       Secribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection)       If available:					Dopth (in	choc), 1				
Saturation Present? (includes capillary fringe)       Yes        No       Depth (inches): 0         Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:			-	-		-				
(includes capillary fringe)       Yes I NO Depth (inches): 0         Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:					Depth (in	ches): 0		Wetla	nd Hydrology Presen	t? Yes $\bigcirc$ No $\bigcirc$
			Yes 🖲	No O	Depth (in	ches): 0				
Remarks:	Describe Recorded	Data (stre	am gauge, i	monitor we	ll, aerial photos, p	previous inspe	ection) if ava	ailable:		
	Remarks:									