## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampling	Date: 02-Aug-13
Applicant/Owner: Alaska Energy Authority		Sampling Point:	SW13_T162_07
Investigator(s): WAD, RWM	Landform (hills	side, terrace, hummocks etc.): Hillside	
Local relief (concave, convex, none): planar	Slope: 36.3	% / 20.0 ° Elevation: 1429	
Subregion : Interior Alaska Mountains Lat.:	63.116437554	Long.: -148.106030464	Datum: WGS84
Soil Map Unit Name:		NWI classification:	Upland
	ar? Yes <sup>(</sup> atly disturbed? problematic?	No (If no, explain in Remarks.) Are "Normal Circumstances" present? (If needed, explain any answers in Rem	ÝYes 🔍 No 🔾
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point	locations, transects, important feat	ures, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ● Yes ○ Yes ○	_	Is the Sampled Area within a Wetland?	Yes $\bigcirc$ No $oldsymbol{eta}$
Remarks:				

## **VEGETATION** - Use scientific names of plants. List all species in the plot.

			Absolute		Dominant	Indicator	Dominance Test worksheet:
Tree Str	atum		% Co		Species?	Status	Number of Dominant Species
1.				0			That are OBL, FACW, or FAC: <u>2</u> (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:(A/B)
5.				0			Prevalence Index worksheet:
		Total Cover	:	0			Total % Cover of: Multiply by:
Sapling	/Shrub Stratum	50% of Total Cover:	0	20% of	f Total Cover:	0	OBL Species $0 \times 1 = 0$
1. Sal	ix polaris			25	$\checkmark$	FACW	FACW Species 29 x 2 = 58
2. Dry				5		UPL	FAC Species <u>47.2</u> x 3 = <u>141.6</u>
3.	· · · · · · · · · · · · · · · · · · ·			0			FACU Species _ 4 _ x 4 =16
4				0			UPL Species <u>5.1</u> x 5 = <u>25.5</u>
-				0			Column Totals: <u>85.3</u> (A) <u>241.1</u> (B)
6.			_	0			
				0			Prevalence Index = B/A = <u>2.826</u>
				0			Hydrophytic Vegetation Indicators:
				0			✓ Dominance Test is > 50%
			_	0			✓ Prevalence Index is $\leq$ 3.0
		: 3	30			Morphological Adaptations <sup>1</sup> (Provide supporting data in	
Herb St	ratum	50% of Total Cover:	15	20% c	of Total Cover:	6	Remarks or on a separate sheet)
1. Ca	rex bigelowii			45	$\checkmark$	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Art	emisia norvegica		_	3		FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Pe	tasites frigidus			2		FACW	be present, unless disturbed or problematic.
4. Sw	ertia perennis			2		FACW	Plot size (radius, or length x width) 10m
5. Arr	nica lessingii			0.1		UPL	Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes
6. Ste	ellaria longifolia		_	0.1		FAC	(Where applicable)
7. Fe	stuca rubra			0.1		FAC	% Bare Ground
8. Bis	torta plumosa			1		FACU	Total Cover of Bryophytes 15
9. Po	lemonium acutiflorum			1		FAC	
10. Sa	xifraga nelsoniana			1		FAC	Hydrophytic
		Total Cover	: _5!	5.3			Vegetation
		50% of Total Cover:	7.65	20% of	f Total Cover:	11.06	Present? Yes $\bullet$ No $\bigcirc$
Remarks:							

Index         Color (moist)         4s.         Type 1         Los 2         Texture         Remarks           0-2         100	Depth (inches)	Cale: /:	Matrix		Calca (		lox Featu		Loc 2	Texture	в	emarks
2:5         100         Image: Secondary Indicators         Image: Secondary Indicators (two or more are resulted)           8:14         2.5Y         3/1         60         7.5YR         3/4         40         M           8:14         2.5Y         3/1         60         7.5YR         3/4         40         M           **Type: C - Concentration. D - Depletion. RM-Reduced Matrix         * Locator: PL=Fore Lining, RC=Root Channel, M=Matrix         *           **Mydric Soil Indicators:         Indicators for Problematic Hydric Soils?         Alaska Cleyed Without Hue 5Y or Redder Underlying Layer           **Histic Epipedin (A2)         Alaska Aplies swales (TA5)         Underlying Layer         Other (Explain in Remarks)           ** Thick Dark Surface (A12)         * One Indicator of hydrophydic wegetatori, one primary Indicator of wetdand hydrology, Alaska Redox (IA1)         * One Indicator of hydrophydic wegetatori, one primary indicator of wetdand hydrology, Alaska Redox (IA1)         * Give details of color change in Remarks           Restrictive Layer (if present):         * One Indicator of hydrophydic wegetatoric must be present?         Yes (No (*)           YDROLOGY         Sparsely Vegetator Concerce Surface (B10)         Durings Patterns (B10)         Durings Patterns (B10)           Surface Water Table (A2)         Sparsely Vegetator Concerce Surface (B1)         Durings Patterns (B10)         Durings Patterns (B10) <t< th=""><th></th><th>Color (m</th><th>oist)</th><th></th><th>Color (n</th><th>noist)</th><th>_%</th><th>Type 1</th><th>Loc -</th><th></th><th>ĸ</th><th>eniarks</th></t<>		Color (m	oist)		Color (n	noist)	_%	Type 1	Loc -		ĸ	eniarks
5-8         7.5YR         2.5/3         100         Loamy Sand         discontinuous boundaries           8-14         2.5Y         3/1         60         7.5YR         3/4         40         M           **         Type: (C-Concentration, D-Depletion, RM-Reduced Matrix *         Location: PL=Pore Lining, RC=Root Chamel, M=Matrix         H           **         Type: (C-Concentration, D-Depletion, RM-Reduced Matrix *         Location: PL=Pore Lining, RC=Root Chamel, M=Matrix           **         Trype: (C-Concentration, D-Depletion, RM-Reduced Matrix *         Location: PL=Pore Lining, RC=Root Chamel, M=Matrix           **         Trype: (C-Concentration, D-Depletion, RM-Reduced Matrix *         Location: PL=Pore Lining, RC=Root Chamel, M=Matrix           **         Trype: (C-Concentration, D-Depletion, RM-Reduced Matrix *         Location: PL=Pore Lining, RC=Root Chamel, M=Matrix           **         Hydroic Soil Indicators:         Matrix *         Location: PL=Pore Lining, RC=Root Chamel, M=Matrix           **         Hydroic Soil Indicators:         Matrix *         Location: PL=Pore Lining, RC=Root Chamel, M=Matrix           **         Hydroic Soil Indicators:         *         Other (Explain In Remarks)           **         Adada Redov With 2.9Y Fue         Other (Explain In Remarks)         *           Redirickic Layer (f)         Inundation Visible on Aerial Imagery (B7)										-		
8-14       2.5Y       3/1       60       7.5YR       3/4       40       M         8-14       2.5Y       3/1       60       7.5YR       3/4       40       M         9       Image: Concentration. D=Depletion. RM=Reduced Matrix <sup>2</sup> Location: PL=Pure Lining. RC=Root Channel. M=Matrix       Image: Concentration. D=Depletion. RM=Reduced Matrix <sup>2</sup> Location: PL=Pure Lining. RC=Root Channel. M=Matrix         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>2</sup> Abaska Celor Channel (M <sup>2</sup> )       Abaska Celor Channel (M <sup>2</sup> )       Abaska Celor Channel (M <sup>2</sup> )         Histoso of Thisto Kat States (A1)       Abaska Reduce With 2.5Y Hue       Other (Explain in Remarks) <sup>3</sup> One indicator of hydrophylic wegetation, once primary indicator of wetland hydrology, and an appropriate landscape position must be present         Abaska Gleyed Pares (A15)       * Give details of color change in Remarks         Reatricture Layer (If present):       Yes: none observed         Papth (inches):       Banka Allocators (area or sufficient)       Enundation Visible on Aerial Imagery (B7)         Surface Water (A1)       Inundation Visible on Aerial Imagery (B7)       Drainage Patterns: Alloy Alloys (Cis)         Proberosits (B2)       Diverse Sufface (Cis)       Presence of Reduced Imo (Cis)         Surface Water (A1)       Inundation Visible on Aerial Imagery (B7)       Drainage Patterns: Alloy Alloys Roots							-			-		
<sup>1</sup> Type: C=Concentration. D=Depletion. RM=Reduced Matrix <sup>2</sup> Location: PL=Pore Lining, RC=Root Channel, M=Matrix         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils?       Alaska Celyed Without Hue SY or Redder         Histosol or Hitel (A1)       Alaska Color change (TM <sup>1</sup> )       Alaska Celyed Without Hue SY or Redder         Hydrogen Suffde (A1)       Alaska Color change (TM <sup>1</sup> )       Alaska Celyed Without Hue SY or Redder         Hydrogen Suffde (A12)       Alaska Algen wakes (TA3)       Undertying Layer         Alaska Redox (A14)       Alaska Redox With 2.SY Hue       Other (Explain in Remarks)         Alaska Gelyed Pores (A15) <sup>4</sup> Give details of color change in Remarks         Restrictive Layer (present):       Type: none observed         Pype: none observed       Hydric Soil Present?       Yes No          Wether Soli Indicators:       Secondary Indicators (two or more are required).         Phinary Indicators (ary one is sufficient)       Inundation Visible on Aerial Imagery (B7)       Drainage Patterns (B10)         High Water Table (A2)       Sparsely Vegetated Concave Surface (B8)       Oxidiated Rhizospheres along Livin Roots (C2)         Staturation (A3)       Hydric Soil Present?       Yes No        Southed or Stressed Plants (D1)         High Water Table (A2)       Dyn-Seeson Water Table (C2)       Southed or Stressed Plants (D1)       Southed or Stressed Plants (D1)										Loamy Sand	discontinuous boun	idaries
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils. <sup>3</sup>	8-14	2.5Y	3/1	60	7.5YR	3/4	40		М			
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils. <sup>3</sup>												
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils. <sup>3</sup>												
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils. <sup>3</sup>												
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils?         Histosol or Histel (A1)       Alaska Cloyed Without Hue SY or Redder Underlying Layer         Histic Epipedion (A2)       Alaska Alpine swales (TA5)       Underlying Layer         Hydrogo Sulfide (A1)       Alaska Redox (TA5)       Underlying Layer         Alaska Gleyed (A13)       an appropriate landscape position must be present       Adaska Redox (A14)         Alaska Redox (A14)       * Give details of color change in Remarks         Restrictive Layer (if present):       Type: none observed       Hydric Soil Present? Yes No           Pimary Indicators observed       Depth (inches):       Wetand Hydrology Indicators:         Pimary Indicators observed       Secondary Indicators (two or more are required)         Surface Water (A1)       Inundation Visible on Aerial Imagery (B7)       Drainage Patterns (B10)         Guive details of C(C1)       Sparsely Vegetated Concave Surface (B8)       Oxidicat Rhicospheres along Uning Roots (C3)         Surface Water (A1)       Inundation Visible on Aerial Imagery (B7)       Drainage Patterns (B10)       Presence of Reduced Iron (C4)         Hydric Soil Droposts (B1)       Genematic Explain in Remarks)       Besting Advector (C1)       Bath Deposts (C5)       Besting Advector (C1)         Guitartation (A3)       Hydrogen Sulfide Cdor (C1)       Sath Deposts (C5)       Besthestor						-		-			_	
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils?         Histosol or Histel (A1)       Alaska Cloyed Without Hue SY or Redder Underlying Layer         Histic Epipedion (A2)       Alaska Alpine swales (TA5)       Underlying Layer         Hydrogo Sulfide (A1)       Alaska Redox (TA5)       Underlying Layer         Alaska Gleyed (A13)       an appropriate landscape position must be present       Adaska Redox (A14)         Alaska Redox (A14)       * Give details of color change in Remarks         Restrictive Layer (if present):       Type: none observed       Hydric Soil Present? Yes No           Pimary Indicators observed       Depth (inches):       Wetand Hydrology Indicators:         Pimary Indicators observed       Secondary Indicators (two or more are required)         Surface Water (A1)       Inundation Visible on Aerial Imagery (B7)       Drainage Patterns (B10)         Guive details of C(C1)       Sparsely Vegetated Concave Surface (B8)       Oxidicat Rhicospheres along Uning Roots (C3)         Surface Water (A1)       Inundation Visible on Aerial Imagery (B7)       Drainage Patterns (B10)       Presence of Reduced Iron (C4)         Hydric Soil Droposts (B1)       Genematic Explain in Remarks)       Besting Advector (C1)       Bath Deposts (C5)       Besting Advector (C1)         Guitartation (A3)       Hydrogen Sulfide Cdor (C1)       Sath Deposts (C5)       Besthestor	<sup>1</sup> Type: C=Con	centration D	=Depletion	RM=Redi	ced Matrix	<sup>2</sup> Location	PI = Pore	 - Linina R(	=Root Cha	annel M=Matrix	-	
I Histosol or Histel (A1)       I Alaska Color Change (TA4) <sup>4</sup> I Alaska Gieyed Without Hue SY or Redder         I Histic Epipedon (A2)       I Alaska Alpine swales (TA5)       Underlying Layer         I Hydrogen Sulfide (A4)       I Alaska Redox With 2.SY Hue       Other (Explain in Remarks)         I Thick Dark Surface (A12)       I Alaska Redox With 2.SY Hue       Other (Explain in Remarks)         Alaska Gleyed (A13)       I One Indicator of hydrophytic vegatation, noe primary indicator of wetland hydrology, and an appropriate landscape position must be present         Alaska Redox (A14)       I Give details of color change in Remarks         Restrictive Layer (if present):       Type: none observed         Depth (inches):       I Hydric Soil Present? Yes No           Restrictive Layer (if present):       Yes         Type:       No           Surface Water (A1)       I nundation Visible on Aerial Imagery (B7)         Deringe Patterns (B10)       I nundation Visible on Aerial Imagery (B7)         Give Avater (A1)       Surface Water (A1)         Give Avater (B1)       Hydrogen Suffice Odor (C1)         Give Avater (B1)       Hydrogen Suffice Odor (C1)         Give Avater (B2)       Sparsely Vegetated Concave Surface (B3)         Dividicator Rike (B1)       Hydrogen Suffice Odor (C1)         Hydro Crust (B4)       Dry-Season Water Tab				. RH-Rede				_				
I Histic Epipedon (A2)       Alaska Alpine swales (TA5)       Underlying Layer         I Hydrogen Sulfide (A4)       Alaska Redox With 2.SY Hue       Other (Explain in Remarks)         Alaska Redox (A12)       3 One indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, and an appropriate landscape position must be present         Alaska Gleyed (A13)       and an appropriate landscape position must be present         Alaska Gleyed Pors (A15)       * Give details of color change in Remarks         Restrictive Layer (if present):       Type: none observed         Depth (inches):       Present?         Wetand Hydrology Indicators:       Ference (Reupons)         Primary Indicators observed       Imagery (B7)         Burdiation of hydrology Indicators:       Secondary Indicators (two or more are required)         Primary Indicators (any one is sufficient)       Imundation Visible on Aerial Imagery (B7)       Drainage Patterns (B10)         Guarder Water (A1)       Imundation Visible on Aerial Imagery (B7)       Drainage Patterns (B10)       Oidized Rhizospheres along Living Roots (C3)         Hydroce Stature (A3)       Mar Deposits (B15)       Persence of Reduced Iron (C4)       Salt Deposits (C5)         Guarder Marks (B1)       Hydrogen Sulfide Odor (C1)       Salt Deposits (C5)       Genomphic Positon (D2)         Guarder Marks (B3)       Other (Explain in Remarks)       Genomp	_							4	oils:	7		
Instat Epipeuol (12)       Image Systems Stress (10)       Image Systems Stress (10)         Image Physics (11)       Image Systems Stress (11)       Image Systems Stress (11)         Image Systems Stress (11)       Image Systems Stress (11)       Image Systems Stress (11)         Image Systems Stress (11)       Image Systems Stress (11)       Image Systems Stress (11)         Image Systems Stress (11)       Image Systems Stress (11)       Image Systems Stress (11)         Image Systems Stress (11)       Image Systems Stress (11)       Image Systems Stress (11)         Image Systems Stress (11)       Image Systems Stress (11)       Image Systems Stress (11)         Image Systems Stress (11)       Image Systems Stress (11)       Image Systems Stress (11)         Image Systems Stress (11)       Image Systems Stress (11)       Image Systems Stress (11)         Image Systems Stress (11)       Image Systems Stress (11)       Image Systems Stress (11)         Image Systems Stress (11)       Image Systems Stress (11)       Image Stress (11)         Image Stress (11)       Image Stress (11)       Image Stress (11)       Image Stress (11)         Image Stress (11)       Image Stress (11)       Image Stress (11)       Image Stress (11)       Image Stress (11)         Image Stress (11)       Image Stress (11)       Image Stress (12)       Image Stress (12)       Image		. ,						-			lue 5Y or Redder	
Implying and an appropriate landscape position must be present         Implying and an appropriate landscape position must be present         Implying and an appropriate landscape position must be present         Implying and an appropriate landscape position must be present         Implying and an appropriate landscape position must be present         Implying and an appropriate landscape position must be present         Implying and an appropriate landscape position must be present         Implying and an appropriate landscape position must be present         Implying and an appropriate landscape position must be present         Implying and an appropriate landscape position must be present         Implying and an appropriate landscape position must be present         Implying and an appropriate landscape position must be present         Implying and an appropriate landscape position must be present         Implying and an appropriate landscape position must be present         Implying and an appropriate landscape position must be present?         Implying and an appropriate landscape position must be present?         Implying and an appropriate landscape position must be present?         Implying and appropriate landscape position must be present?         Implying and appropriate landscape position (C1)         Implying and an appropriate landscape position (C2)         Implying and appropriate landscape position (C2)         Implying an app	=	. ,				•	•	,	Г	, , ,	ks)	
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 Pores (A15) <sup>4</sup> Give details of color change in Remarks          Restrictive Layer (if present): <sup>1</sup> Ype: non observed          Depth (inches): <sup>1</sup> Hydric Soil Present? Yes No ●          Remarks: <sup>1</sup> Point indicator of hydrophytic vegetation, one primary indicators (two or more are required)          Primary Indicators observed <sup>1</sup> Hydric Soil Present? Yes No ●          Methad Hydrology Indicators: <sup>1</sup> Secondary Indicators (two or more are required)          Imary Indicators (arv one is sufficient) <sup>1</sup> Inundation Visible on Aerial Imagery (B7) <sup>1</sup> Drainage Patterns (B10)          Sufrace Water (A1) <sup>1</sup> Inundation Visible on Aerial Imagery (B7) <sup>1</sup> Drainage Patterns (B10)          Sufrace Water (A1) <sup>1</sup> Inundation Visible on Aerial Imagery (B7) <sup>1</sup> Drainage Patterns (B10)          Sufrace Water (A1) <sup>1</sup> Inundation Visible on Aerial Imagery (B7) <sup>1</sup> Drainage Patterns (B10)          Sufrace Mater (A1) <sup>1</sup> Sperace of Reduced Iron (C4) <sup>1</sup> Mydrogen Sufi		. ,				ка кедох у		lue			(3)	
□       Alaska Redox (A14)              ▲ Give details of color change in Remarks          ■       Alaska Gleyed Pores (A15)              ▲ Give details of color change in Remarks          Restrictive Layer (If present):             Type: none observed             Depth (inches):             Remarks:               Hydric Soil Present?             Yes             No             ●			2)		<sup>3</sup> One i	ndicator of	hydrophyt	ic vegetatio	on, one prir	mary indicator of wetland l	hydrology,	
Alaska Gleyed Pores (A15) <sup>4</sup> Give details of color change in Remarks          Restrictive Layer (if present):         TyPe: none observed         Depth (inches):           Hydric Soil Present? Yes No ●          Restrictive Layer (if present):         TyPe: none observed         Depth (inches):           Hydric Soil Present? Yes No ●          Remarks:         no hydric soll indicators observed           Hydric Soil Present? Yes No ●          HYDROLOGY           Secondary Indicators:          Primary Indicators (any one is sufficient)            Surface Water (A1)              Inundation Visible on Aerial Imagery (B7)           Drainage Patterns (B10)          Surface Water (A1)              Inundation Visible on Aerial Imagery (B7)           Drainage Patterns (B10)          Surface Water (A1)              Inundation Visible on Aerial Imagery (B7)           Drainage Patterns (B10)          Surface Water (A1)              Dray Season Water Table (C2)           Drainage Patterns (B10)          Gleave Marks (B1)          Hydrogen Sulfide Odor (C1)           Saturetion Present? (P3)          Bediment Deposits (B2)          Dry Season Water Table (C2)           Suthacto Or Stresed Plants (D1)					and an	appropriat	e landscap	e position	must be pr	esent		
Restrictive Layer (if present):       Type: none observed         Depth (inches):       Hydric Soil Present? Yes       No         Remarks:       no hydric soil indicators observed         HyDROLOGY         Wetland Hydrology Indicators:	_	. ,	5)		4 Give	details of co	olor change	e in Remarl	s			
Type: none observed Depth (inches):       Hydric Soil Present?       Yes       No         Remarks: no hydric soil indicators observed       Indicators observed       No       Indicators (two or more are required)         HybroLOGY       Secondary Indicators:       Secondary Indicators (two or more are required)       Indicators (two or more are required)         Primary Indicators (any one is sufficient)       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)         Saturation Deposits (B2)       Dry-Season Water Table (C2)       Sturated Data (D3)         Iron Deposits (B3)       Other (Explain in Remarks)       Geomorphic Position (D2)         Surface Soil Cracks (B6)       Incorbopographic Relief (D4)       FAC-neutral Test (D5)         Field Observations:       Surface Not ©       Depth (inches):       Wetland Hydrology Present?       Yes       No ©         Suturation Present?       Yes       No ©       Depth (inches):       Wetland Hydrology Present?       Yes       No ©			-									
Depth (inches):         Remarks:         no hydric soil indicators observed         HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (any one is sufficient)         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Mari Deposits (B15)         Staturation (A3)         Mari Deposits (B15)         Drive Season Water Table (C2)         Stufface Soil Cracks (B6)         Water Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Field Observations:         Surface Referent?         Yes<	_		:							Undrie Ceil Bresent	• <b>•</b> • • • •	
Remarks: no hydric soil indicators observed         HYDROLOGY         Wetland Hydrology Indicators: Primary Indicators (any one is sufficient)       Secondary Indicators (two or more are required)         Within Hydrology Indicators:       Water Stained Leaves (B9)         Sufface Water (A1)       Inundation Visible on Aerial Imagery (B7)         High Water Table (A2)       Sparsely Vegetated Concave Surface (B8)         Saturation (A3)       Marl Deposits (B15)         Staturation (A3)       Marl Deposits (B15)         Sediment Deposits (B2)       Dry-Season Water Table (C2)         Drift Deposits (B3)       Other (Explain in Remarks)         Geomorphic Position (D2)       Shallow Aquitard (D3)         In on Deposits (B5)       Present?         Surface Water Present?       Yes         Surface Water Present?       Yes         Water Table Present?       Yes         Yes       No         Depth (inches):       Wetland Hydrology Present?         Yes       No       Depth (inches):										Hydric Soli Present	$r res \cup$	NO C
Wetland Hydrology Indicators:       Secondary Indicators (two or more are required)         Primary Indicators (any one is sufficient)       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 Soil Cracks (B6)       Vestor No ●       Depth (inches)::         Water Table Present?       Yes       No ●         Saturation Present?       Yes       No ●         Saturation Present?       Yes       No ●												
Primary Indicators (any one is sufficient)       Water Stained Leaves (B9)         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 (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)       Microtopographic Relief (D4)         Surface Water Present?       Yes       No ●       Depth (inches)::         Saturation Present?       Yes       No ●       Depth (inches)::         Saturation Present?       Yes       No ●       Depth (inches):         Saturation Present?       Yes       No ●       Depth (inches):	HYDROLO	GY										
□       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 (B3)       □       Dry-Season Water Table (C2)       □       Stunted or Stressed Plants (D1)         □       Drift Deposits (B3)       □       Other (Explain in Remarks)       □       Geomorphic Position (D2)         □       Shallow Aquitard (D3)       □       Microtopographic Relief (D4)       □         □       Surface Soil Cracks (B6)       ✓       FAC-neutral Test (D5)         Field Observations:         Surface Water Present?       Yes<			ators:							Secondary Ind	icators (two or mo	re 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 (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)       Ves       Depth (inches):       FAC-neutral Test (D5)         Field Observations:       Surface Water Present?       Yes       No        Depth (inches):         Saturation Present?       Yes       No        Depth (inches):       Wetland Hydrology Present?       Yes       No	Primary Indicat	ors (any one	is sufficient	t)						Water Sta	ined 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)         Wetland Hydrology Present? Yes No          Water Table Present?       Yes<	Surface W	ater (A1)			🗌 In	undation V	isible on A	erial Image	ry (B7)	Drainage	Patterns (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:       Depth (inches):         Surface Water Present?       Yes       No          Depth (inches):       Saturation Present?       Yes       No          Saturation Present?       Yes       No        Depth (inches):         Saturation Present?       Yes       No        Depth (inches):         Solutation Present?       Yes       No        Depth (inches):					Sp Sp	arsely Veg	etated Con	cave Surfa	ce (B8)			
□ 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:       □ Depth (inches):         Surface Water Present?       Yes       No         Yes       No       □ Depth (inches):         Saturation Present?       Yes       No       □ Depth (inches):         Saturation Present?       Yes       No       □ Depth (inches):         Soutifies capillary fringe)       Yes       No       □ Depth (inches):		. ,					. ,				· · · · · · · · · · · · · · · · · · ·	24)
□ 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         Surface Water Present?       Yes       No         Yes       No       Depth (inches):         Saturation Present?       Yes       No         Yes       No       Depth (inches):         Saturation Present?       Yes       No         Yes       No       Depth (inches):         Saturation Present?       Yes       No         Yes       No       Depth (inches):												
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?         Surface Water Present?       Yes       No         Yes       No       Depth (inches):         Saturation Present?       Yes       No         Yes       No       Depth (inches):         Saturation Present?       Yes       No         Yes       No       Depth (inches):         Saturation Present?       Yes       No         Yes       No       Depth (inches):		1 ()	)					. ,		_		D1)
□ Iron Deposits (B5)       □ Microtopographic Relief (D4)         □ Surface Soil Cracks (B6)       ✓ FAC-neutral Test (D5)         Field Observations:       Surface Water Present?       Yes ○ No ●       Depth (inches):         Water Table Present?       Yes ○ No ●       Depth (inches):       Wetland Hydrology Present?       Yes ○ No ●         Saturation Present?       Yes ○ No ●       Depth (inches):       Depth (inches):       Wetland Hydrology Present?       Yes ○ No ●		( )				her (Explai	n in Remai	rks)				
□ Surface Soil Cracks (B6)       ✓ FAC-neutral Test (D5)         Field Observations:       Surface Water Present?       Yes ○       No        Depth (inches):         Water Table Present?       Yes ○       No        Depth (inches):       Wetland Hydrology Present?       Yes ○       No          Saturation Present?       Yes ○       No        Depth (inches):       Depth (inches):       Yes ○       No										_	,	)
Field Observations:       Yes       No       Depth (inches):         Surface Water Present?       Yes       No       Depth (inches):         Water Table Present?       Yes       No       Depth (inches):         Saturation Present?       Yes       No       Depth (inches):         Vincludes capillary fringe)       Yes       No       Depth (inches):		· · /	)									,
Surface Water Present?       Yes       No       Depth (inches):         Water Table Present?       Yes       No       Depth (inches):         Saturation Present?       Yes       No       Depth (inches):         Saturation Present?       Yes       No       Depth (inches):         Ves       No       Depth (inches):       No		•	,								(20)	
Water Table Present?       Yes       No       Depth (inches):         Saturation Present? (includes capillary fringe)       Yes       No       Depth (inches):			Yes C	) No 🖲	De	epth (inche	s):					
Saturation Present? (includes capillary fringe) Yes No  Popth (inches):			Yes C	) No 🖲			,		Wetla	nd Hydroloav Preser	nt? Yes 🔿	No 🖲
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	Saturation Pre	sent?	_	_								
	Describe Record	led Data (stre	eam gauge,	, monitor w	ell, aerial p	hotos, prev	vious inspe	ction) if av	ailable:			
	Remarks:											

only one secondary hydrology indicator observed