WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/C	City: Ma	atanuska	a-Susitna Borough Sampling Date: 30-Jul-13
Applica	int/Owner: Alaska Energy Authority					Sampling Point: SW13_T172_03
Investi	gator(s): WAD, RWM		Landforn	n (hillside	, terrace	e, hummocks etc.): Toeslope
-	elief (concave, convex, none): concave		- Slope:	· %		· · · · · · · · · · · · · · · · · · ·
	ion : Interior Alaska Mountains	l at ·	_	R7605		Long.: -148.255410791 Datum: NAD83
_		Lut	03.20770	37093		
	p Unit Name:			Yes	NI.	NWI classification: Upland
	natic/hydrologic conditions on the site typical for this t	•				(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○
		ŭ	itly disturbe			ornar orreamstances present:
Are V	egetation U , Soil U , or Hydrology U	naturally	problemati	ic'?	(If need	ded, explain any answers in Remarks.)
SUM	MARY OF FINDINGS - Attach site map sho	wing sa	mpling p	oint loc	ations	, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes No	\supset		la 4laa	C	alad Avas
	Hydric Soil Present? Yes O No	•			-	pled Area etland? Yes ◯ No ◉
	Wetland Hydrology Present? Yes No	\supset		within	n a We	etland? Yes ∪ No ●
	arks: patch of tall willow at head of draw between two	hills. inr	nundated cl	hannels o	n either	side of willow patch.
VEGE	TATION - Use scientific names of plants. L	ist all sr	necies in	the plot	t.	
	ose scientine names of plants. L					Dominance Test worksheet:
Tree	e Stratum	Absolut % Cove		nant Ind	tatus	Number of Dominant Species
1.		0				That are OBL, FACW, or FAC:5(A)
2.		0				Total Number of Dominant Species Across All Strata: 6 (B)
3.		0				Percent of dominant Species
4.		0				That Are OBL, FACW, or FAC: 83.3% (A/B)
5.		0				Prevalence Index worksheet:
	Total Cover	r: <u>0</u>	_			Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20	% of Total C	Cover:	0	OBL Species 0 x 1 = 0
1.	Salix barclayi	15		/ F/	AC	FACW Species 36 x 2 = 72
	Saliv nulchra				ACW	FAC Species 130.1 x 3 = 390.3
3.	Poes scieularie	10			ACU	FACU Species 13 x 4 = 52
4.	Salix richardsonii	10			ACW	UPL Species 0 x 5 = 0
5.	Vaccinium uliginosum	10			AC	Column Totals: 179.1 (A) 514.3 (B)
6.	Ribes glandulosum] FA	AC	
7.	Dasiphora fruticosa	5		FA	AC	Prevalence Index = B/A =
8.	Betula glandulosa			FA	AC	Hydrophytic Vegetation Indicators:
9.	Salix bebbiana	5		FA	AC	✓ Dominance Test is > 50%
10.	Salix reticulata	2		F/	AC	✓ Prevalence Index is ≤3.0
	Total Cover					Morphological Adaptations 1 (Provide supporting data in
Her	<u>b Stratum</u> 50% of Total Cover: _	38.5 20	0% of Total	Cover: _	15.4	Remarks or on a separate sheet)
1.	Equisetum arvense	75		<u></u>	AC	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Petasites frigidus	10		<u></u>	ACW_	¹ Indicators of hydric soil and wetland hydrology must
3.	Carex media	5	_		ACW_	be present, unless disturbed or problematic.
4.	Cornus suecica	5	_		AC	Plot size (radius, or length x width)
5.	Luzula arcuata	2	_		ACU	% Cover of Wetland Bryophytes
6.	Polemonium acutiflorum	2	_		AC	(Where applicable)
7.	Poa arctica	1	-		AC	% Bare Ground2
	•	- 1	-			Total Cover of Bryophytes 10
			- =			
10.			_		AC	Hydrophytic
				Cover:	20.42	Present? Yes No
	_	20	,,, or rotal C		20.42	
	Chamaenerion angustifolium Arctagrostis latifolia Anemone richardsonii Total Cover 50% of Total Cover:			F/	ACU ACW AC 20.42	Hydrophytic Vegetation

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW13_T172_03

YDROLOGY **Retiand Hydrology Indicators: **Irinary Indicators (any one is sufficient) **Indicators (two or more are required) **Indicators (two or more are required) **Indicators (any one is sufficient) **Indicators (two or more are required) **Indicators (two or more are required) **Indicators (any one is sufficient) **Indicators (any one is sufficient) **Indicators (any one is sufficient) **Indicators (two or more are required) **Indicators (two or more are required) **Indicators (any one is sufficient) **Indicators (two or more are required) **Indicators (any one is any one is sufficient) **Indicators (any one is sufficient) **Indicators (any one is any one is any one is a sufficient) **Indicators (any one are required) **Indicators (any one is any one is a sufficient) **Indicators (any one is any one is a sufficient) **Indicators (any one is any one is a sufficient) **Indicators (any one is a sufficient) **Indicators (any one is any one is a sufficient) **Indicators (any one is a sufficient) **Indicators (any one is any one is a sufficient) **Indicators (any one is a suff	(inches) Color (mo	oist) %	Color (moist)	<u>%</u> Type ¹	<u>Loc</u> 2	Texture	Remarks
Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining, RC=Root Channel, M=Matrix ydric Soil Indicators: Histosol or Histel (A1)	0-5					Fibric Organics	
ydric Soil Indicators: Histosol or Histel (A1)	5-18					Coarse Sand	
Indicators for Problematic Hydric Soils.¹ Histosol or Histel (A1)							
Indicators for Problematic Hydric Soils Indicators: Indicators for Problematic Hydric Soils? Alaska Gleyed Without Hue SY or Redder Underlying Layer Alaska Gleyed Without Hue SY or Redder Underlying Layer Other (Explain in Remarks) Alaska Gleyed Without Hue SY or Redder Underlying Layer Other (Explain in Remarks) Alaska Gleyed (A13) Alaska Relova (A14) Alaska Relova (A14) Alaska Gleyed (A13) Alaska Gleyed Pores (A15) Alaska Gleyed Pores (A15) Alaska Gleyed Pores (A15) Alaska Relova (A14) Alaska Gleyed Pores (A15) Alaska Gleyed Pores (A12) Alaska Gleyed Pores (A13) Alaska Gleyed Without Hue SY or Redder Underlying Layer Other (Explain in Remarks) Alaska Gleyed Without Hue SY or Redder Underlying Layer Other (Explain in Remarks) Alaska Gleyed Without Hue SY or Redder Underlying Layer Other (Explain in Remarks) Alaska Gleyed Without Hue SY or Redder Underlying Layer Other (Explain in Remarks) Other (Explain in Remarks) Alaska Gleyed Without Hue SY or Redder Underlying Layer Other (Explain in Remarks) Alaska Gleyed Without Hue SY or Redder Underlying Layer Other (Explain in Remarks) Alaska Gleyed Without Hue SY or Redder Underlying Layer Other (Explain in Remarks) Alaska Gleyed Without Hue SY or Redder Underlying Layer Other (Explain in Remarks) Alaska Gleyed Without Hue SY or Redder Underlying Layer Other (Explain in Remarks) Alaska Gleyed Without Hue SY or Redder Underlying Layer Other (Explain in Remarks) Alaska Gleyed Without Hue SY or Redder Underlying Layer Other (Explain in Remarks) Alaska Gleyed Without Hue SY or Redder Underlying Layer Other (Explain in Remarks) Alaska Gleyed Without Hue SY or Redder Underlying Layer Other (Explain in Remarks) Alaska Cleiv Relovation (Alaska Relovation Remarks Alaska Cleiv Relovation Rema							
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Histosol or Histel (A1)							
Histosol or Histel (A1)							
Historol or Histel (A1) Histor Epipedon (A2) Histor Epipedon (A2) Histor Epipedon (A2) Alaska Alpine swales (TA5) Histor Epipedon (A2) Alaska Alpine swales (TA5) Histor Epipedon (A2) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed Pores (A15) **Give details of color change in Remarks* **Strictive Layer (if present): Type: Pepth (Inches): **Branks:** In hydric soil indicators **PROLOGY* **Etland Hydrology Indicators **Torrice Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Water Marks (B1) Dirft Deposits (B3) Algal Mat or Crust (B4) Dirft Deposits (B5) Surface Water Present? **Present?** Yes \(\) No \(\hat{\text{•*}} \) Depth (inches): Bed Observations: Water Table Present? Yes \(\) No \(\hat{\text{•*}} \) Depth (inches): Bed Observations: Water Table Present? Yes \(\) No \(\hat{\text{•*}} \) Depth (inches): Bed Observations: Water Table Present? Yes \(\) No \(\hat{\text{•*}} \) Depth (inches): Bed Observations: Water Table Present? Yes \(\) No \(\hat{\text{•*}} \) Depth (inches): Bed Observations: Water Table Present? Yes \(\) No \(\hat{\text{•*}} \) Depth (inches): Bed Observations: Water Table Present? Yes \(\) No \(\hat{\text{•*}} \) Depth (inches): Bed Observations: Water Table Present? Yes \(\) No \(\hat{\text{•*}} \) Depth (inches): Bed Observations: Water Table Present? Yes \(\) No \(\hat{\text{•*}} \) Depth (inches): Bed Observations: Water Table Present? Yes \(\) No \(\hat{\text{•*}} \) Depth (inches): Bed Observations: Water Table Present? Yes \(\hat{\text{•*}} \) No \(\hat{\text{•*}} \) Depth (inches): Bed Observations: Water Table Present? Yes \(\hat{\text{•*}} \) No \(\hat{\text{•*}} \) Depth (inches): Bed Observations: Water Table Present? Yes \(\hat{\text{•*}} \) No \(\hat{\text{•*}} \) Depth (inches): Bed Observations: Water Table Present? Yes \(\hat{\text{•*}} \) No \(\hat{\text{•*}} \) Depth (inches): Bed Observations: Water Table Present? Yes \(\te	Type: C=Concentration. D	=Depletion. RM=R	educed Matrix ² Locatio	n: PL=Pore Lining.	 RC=Root Char	nnel. M=Matrix	-
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Alaska Gleyed Pores (A15) *Give details of color change in Remarks setrictive Layer (if present): Type: Depth (inches): Branks: Typic opth (inches): Proper opth (inches): Typic opth (inches):							iyurology,
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□ Drift Deposits (B3) □ Other (Explain in Remarks) □ Geomorphic Position (D2) □ Algal Mat or Crust (B4) □ Shallow Aquitard (D3) □ Iron Deposits (B5) □ Microtopographic Relief (D4) □ Shallow Aquitard (D3) □ Iron Deposits (B5) □ Microtopographic Relief (D4) □ FAC-neutral Test (D5) □ Iron Deposits (B5) □ Depth (inches): □ Depth (inches)	YDROLOGY Yetland Hydrology Indicators Surface Water (A1) High Water Table (A2) Saturation (A3)		Sparsely Veg Marl Deposit	getated Concave Sur s (B15)		Water Sta ✓ Drainage Oxidized F Presence 0	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3 of Reduced Iron (C4)
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Saturation Present? includes capillary fringe) Yes No Depth (inches): escribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: emarks:	POROLOGY Petland Hydrology Indicators 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)	is sufficient)	Sparsely Veg Marl Deposit Hydrogen Su Dry-Season	getated Concave Sur s (B15) ulfide Odor (C1) Water Table (C2)		Water Sta V Drainage Oxidized F Presence o Salt Depoi Stunted o V Geomorph Shallow Ai Microtopo	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3 of Reduced Iron (C4) sits (C5) r Stressed Plants (D1) nic Position (D2) quitard (D3) graphic Relief (D4)
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escribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: emarks:	PMOLOGY Vetland Hydrology Indicators 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) Surface Water Present?	yes No	Sparsely Veg Marl Deposit Hydrogen Su Dry-Season Other (Expla	getated Concave Sur s (B15) ulfide Odor (C1) Water Table (C2) in in Remarks)	face (B8)	Water Sta V Drainage Oxidized F Presence Salt Depoi Stunted o V Geomorph Shallow A Microtopo V FAC-neutr	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3 of Reduced Iron (C4) sits (C5) r Stressed Plants (D1) nic Position (D2) quitard (D3) graphic Relief (D4) al Test (D5)
emarks:	POROLOGY Petland Hydrology Indicators 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) Seld Observations: Surface Water Present? Water Table Present?	Yes \(\cap \) No Yes \(\cap \) No	Sparsely Veg Marl Deposit Hydrogen Su Dry-Season Other (Expla	getated Concave Sur is (B15) ulfide Odor (C1) Water Table (C2) in in Remarks)	face (B8)	Water Sta V Drainage Oxidized F Presence Salt Depoi Stunted o V Geomorph Shallow A Microtopo V FAC-neutr	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3 of Reduced Iron (C4) sits (C5) r Stressed Plants (D1) nic Position (D2) quitard (D3) graphic Relief (D4) al Test (D5)
	POROLOGY Petland Hydrology Indicators 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) Surface Water Present? Water Table Present? Saturation Present? includes capillary fringe)	Yes \(\) No Yes \(\) No Yes \(\) No	Sparsely Veg Marl Deposit Hydrogen St Dry-Season Other (Expla	getated Concave Sur s (B15) ulfide Odor (C1) Water Table (C2) in in Remarks) es):	Wetlan	Water Sta V Drainage Oxidized F Presence Salt Depoi Stunted o V Geomorph Shallow A Microtopo V FAC-neutr	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3 of Reduced Iron (C4) sits (C5) r Stressed Plants (D1) nic Position (D2) quitard (D3) graphic Relief (D4) al Test (D5)
primary hydrology indicators observed but site has patches of surface water and hydrophytes at edge of feature. Drainageway from adjacent upland slopes	POROLOGY Petland Hydrology Indicators 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) Surface Water Present? Water Table Present?	Yes \(\) No Yes \(\) No Yes \(\) No	Sparsely Veg Marl Deposit Hydrogen St Dry-Season Other (Expla	getated Concave Sur s (B15) ulfide Odor (C1) Water Table (C2) in in Remarks) es):	Wetlan	Water Sta V Drainage Oxidized F Presence Salt Depoi Stunted o V Geomorph Shallow A Microtopo V FAC-neutr	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (Citof Reduced Iron (C4) sits (C5) r Stressed Plants (D1) nic Position (D2) quitard (D3) graphic Relief (D4) al Test (D5)
	PMOLOGY Tetland Hydrology Indicators 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) Surface Water Present? Water Table Present? Saturation Present? Saturation Present? Saturation Present? Saturation Present (Street Capital Capit	Yes \(\) No Yes \(\) No Yes \(\) No	Sparsely Veg Marl Deposit Hydrogen St Dry-Season Other (Expla	getated Concave Sur s (B15) ulfide Odor (C1) Water Table (C2) in in Remarks) es):	Wetlan	Water Sta V Drainage Oxidized F Presence Salt Depoi Stunted o V Geomorph Shallow A Microtopo V FAC-neutr	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (Citof Reduced Iron (C4) sits (C5) r Stressed Plants (D1) nic Position (D2) quitard (D3) graphic Relief (D4) al Test (D5)

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