WETLAND DETERMINATION DATA FORM - Alaska Region

. 0,000	/Site: Susitna-Watana Hydroelectric Project	B	orough/City:	Matanusk	ka-Susitna Borough Sampling Date: 11-Jul-13		
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW13_T139_10		
	gator(s): WAD. BAB		Landform (hil	lside, terrac	ce, hummocks etc.): Hillside		
Local r	elief (concave, convex, none): flat		Slope:	% / 11.2			
	ion : Southcentral Alaska	lat· (· 62.81782996		Long.: -149.624039172 Datum: NAD83		
_		Lat(32.01702990	31			
	p Unit Name:		·	No ○	NWI classification: Upland		
Are V Are V	egetation , Soil , or Hydrology	significantly naturally pro wing sam	disturbed?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.) Iormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.)		
	Hydrophytic Vegetation Present? Yes O No		le	the Sam	pled Area		
	Hydric Soil Present? Yes No			ithin a W	-		
	Wetland Hydrology Present? Yes No (Irks: Steep south facing slope next to peatland compl		W	illilli a vv	retiality its a no a		
	TATION - Use scientific names of plants. L	ist all spe Absolute Cover	cies in the Dominant Species?	•	Dominance Test worksheet: Number of Dominant Species		
	Betula kenaica	35	✓	FACU	That are OBL, FACW, or FAC: (A)		
	Pierra de la co		✓	FACU	Total Number of Dominant		
3.				FACU	Species Across All Strata: 6 (B)		
4.		- 0			Percent of dominant Species That Are OBL, FACW, or FAC: 33,3% (A/B)		
5.							
0.	Total Cove				Prevalence Index worksheet:		
San	ling/Shrub Stratum 50% of Total Cover:		of Total Cover	:11	Total % Cover of: Multiply by: OBL Species 0 x 1 = 0		
Бар			_				
	Spiraea stevenii		✓	FACU			
	Alnus viridis			FAC			
	Picea glauca	- 2		FACU			
	Sorbus scopulina			FACU			
5.		•			Column Totals: <u>184</u> (A) <u>656</u> (B)		
6.		- 0			Prevalence Index = B/A = 3.565		
7.							
9.		- 0			Hydrophytic Vegetation Indicators: Dominance Test is > 50%		
10.		0			Prevalence Index is ≤ 3.0		
10.	Total Cove				Morphological Adaptations (Provide supporting data in		
Her	Stratum 50% of Total Cover:		of Total Cove	r: <u>5.6</u>	Remarks or on a separate sheet)		
1.	Athyrium cyclosorum	35	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Gymnocarpium dryopteris	15	✓	FACU	¹ Indicators of hydric soil and wetland hydrology must		
3.	Equisetum sylvaticum	15	✓	FAC	be present, unless disturbed or problematic.		
4.	Cornus suecica	10		FAC	Plot size (radius, or length x width) 10m		
5.	Dryopteris expansa			FACU	Plot size (radius, or length x width) 10m % Cover of Wetland Bryophytes		
6.	Equisetum arvense			FAC	(Where applicable)		
7.	Calamagrostis canadensis	5		FAC	% Bare Ground		
8.	Rubus pedatus			FAC	Total Cover of Bryophytes		
9.	Chamaenerion angustifolium	4		FACU	Hydrophytic		
10.	Spinulum annotinum	2		FACU			
	Total Cove : 50% of Total Cover:		of Total Cover	: 20.2	Vegetation Present? Yes ○ No ●		
	50% of Total Cover.	30.5	or rotal cover	20.2			

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SOIL Sampling Point: SW13_T139_10

gendent goods (molet) 96	Color (molet) Solution Sol	Profile Descripti Depth	ion: (Describe to	the depth no	eeded to docur	nent the in		nfirm the abs		cators)	_	
3-6 10/1K 5/2 80 7.5 VR 3/2 20 RM M Learny Sand nived matrix 12-15 10/7K 4/3 100 Santz Capanics buried organics 12-15 10/7K 4/3 100 Santz Capanics buried organics 1 Type: C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining. RC=Root Channel. M=Matrix 1 Hydric Soil Indicators: 1 Indicators for Problematic Hydric Soils	3-6 10YR 5/2 80 7.5YR 3/2 20 RM M Gamy Sand mixed matrix 6-12 100 Sardy Loam Spirit Coganics buried organics		Color (mo	oist)	%	Color (n	noist)	%	Type ¹	<u>Loc ²</u>	Texture	Remarks
6-12 10YR 4/3 100 Sapric Organics buried arganics 1 Type: C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining, RC=Root Channel, M=Matrix 1 Hydric Soil Indicators: Indicators for Problematic Hydric Soils2 Alaska Clieved Without Hue SY or Redder Underlying Layer Histic Explorion (A2) Alaska Apine swales (TA5) Underlying Layer Underlying L	6-12 10YR 4/3 100 Sarpt-Cryanics buried organics 12-15 10YR 4/3 100 Sardy Loan 1-Type: C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining, RC=Root Channel, M=Matrix Hydric Soil Indicators: Indicators: Indicators for Problematic Hydric Soils? Alaska Gleyed Without Hue SY or Redder Underlying Jayer Underlying Jayer Underlying Jayer Underlying Jayer Underlying Jayer Alaska Redox (R41) Alaska Redox (R42) Alaska Redox (R42) Alaska Redox (R42) Alaska Redox (R43) Alaska Redox (R44) Alaska Redox (R44) Alaska Redox (R45) Alaska Red	0-3			100						Fibric Organics	
12-15 10YR 4/3 100 Sendy Leam 1 Type: C—Concentration, D—Depletion, RM—Reduced Matrix 2 Location: PL—Pore Lining, RC=Root Channel, M—Matrix Pydric Soil Indicators: Indicators for Problematic Hydric Soils? Alaska Gleyed Without Hue 5Y or Redder Hydric Soils Indicators (Problematic Hydric Soils? Alaska Gleyed Without Hue 5Y or Redder Hydric Soils (Phydric Soils (Phydric Soils) Alaska Gleyed (Ala) Alaska Redox With 25' Hue Other (Explain in Remarks)	12-15 10/17 4/3 100 Sandy Leam 1-Type: C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pere Lining, RC=Root Channel: M=Matrix Hydric Soil Indicators: Indicators for Problematic Hydric Soils? Historol or Instell (A1)	3-6	10YR	5/2	80	7.5YR	3/2	20	RM	М	Loamy Sand	mixed matrix
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining, RC=Root Channel. M=Matrix Mydric Soil Indicators:	**Type: C=Concentration. D=Depletion. RM=Reduced Matrix ** **Location: PL=Pore Lining. RC=Root Channel. M=Matrix ** **Hydric Soil Indicators:	6-12			100					-	Sapric Organics	buried organics
1 Type: C=Concentration, D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining, RC=Root Channel, M=Matrix Hydric Soil Indicators:	Type: C=Concentration. D=Depletion. RM=Reduced Matrix Location: FL=Pore Lining. RC=Root Channel. M=Matrix Hydric Soil Indicators:	12-15	10YR	4/3	100						Sandy Loam	-
Hydric Soil Indicators: Histosol or Histel (A1)	Hydric Soil Indicators: Histosol or Histel (A1)											
Hydric Soil Indicators: Histosol or Histel (A1)	Hydric Soil Indicators: Histosol or Histel (A1)											P
Hydric Soil Indicators: Histosol or Histel (A1)	Hydric Soil Indicators: Histosol or Histel (A1)	-					-			-		
Hydric Soil Indicators: Histosol or Histel (A1)	Hydric Soil Indicators: Histosol or Histel (A1)						-	-		-		
Hydric Soil Indicators: Histosol or Histel (A1)	Hydric Soil Indicators: Histosol or Histel (A1)	Type: C=Cor	ncentration. D	=Depletion	. RM=Reduc	ed Matrix	² Location	: PL=Pore	Lining, RC	=Root Cha	annel. M=Matrix	
Histosol or Histel (A1)	Histosol or Histel (A1)			•					_			
Histic Epipedon (A2)	Histic Epipedon (A2)								4	Б.1.5.	Alaska Gleved Without H	ue 5V or Redder
Hydrogen Sulfide (A4) Thick Dark Sulface (A12) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed Pores (A15) Alaska Gleyed Pores (A1	Hydrogen Sulfide (A4) Hydrogen Sulfide (A4) Alaska Redox (A12) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed Pores (A15)	_	` ,					• .	•			de 51 of Redder
Thick Dark Surface (A12) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Radox (A14) 4 Give details of color change in Remarks 5 Gecondary Lindicators (two or more are required (no primary or secondary Indicators, (two or more are required (no primary or secondary undicators, (two or more are required (no primary or secondary undicators, (two or more are required (no primary or secondary undicators, (two or more are required (no primary or secondary undicators, (two or more are required (no primary or secondary undicators, (two or more are required (no primary or secondary undicators, (two or more are required (no primary or secondary undicators, (two or more are required (no primary or secondary undicators, (two or more are required (no primary or secondary undicators,	Thick Dark Surface (A12) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed (A14) Alaska Gleyed Pores (A15) Restrictive Layer (if present): Type: Depth (inches): Remarks: Restrictive layer observed, no hydric soil indicators, although 9 out of hite top 16 inches of soil are organic, there are no indications that the soils are saturated (no nrimary or secondary wetland hydrology indicators). Hydric Soil Present? Yes	=	` '				•	•	•		Other (Explain in Remarl	(S)
Alaska Gleyed (A13) Alaska Redox (A14) Alaska Redox (A14) Alaska Redox (A14) Alaska Redox (A14) Alaska Redox (A15) Restrictive Layer (if present): Type: Depth (inches): Remarks: No ● Remarks: No restrictive layer observed, no hydric soil indicators, although 9 out of hite top 16 inches of soil are organic, there are no indications that the soils are saturated (no primary or secondary wetland hydrology indicators). **PYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (any one is sufficient) High Water Table (A2) Sparsely Vegetated Concave Surface (B8) Sufface Water (A1) High Water Table (A2) Sparsely Vegetated Concave Surface (B8) Sufface Water (A13) Alaska Redox (A14) Agive details of color change in Remarks Secondary Indicators that the soils are saturated (no primary or secondary wetland hydrology indicators). **PYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (any one is sufficient) Underson Water (A11) High Water Table (A2) Sparsely Vegetated Concave Surface (B8) Solidard Rhizospheres along Living Roots (C3) Saturation (A3) Marl Deposits (B15) Presence of Reduced Iron (C4) Hydrogen Sulfice Odor (C1) Sat Deposits (C5) Sediment Deposits (C8) Dirth Deposits (C8) Dirth Deposits (C8) Dirth Deposits (C8) Sparsely Vegetated Concave Surface (B8) Microtopographic Relief (D4) Microtopographic Relief (D4) Microtopographic Relief (D4) Microtopographic Relief (D4) Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	Alaska Gieyed (A13) Alaska Redox (A14) Alaska Redox (A14) Alaska Redox (A14) Alaska Redox (A15) Alaska Redox (A15) Alaska Redox (A15) Alaska Redox (A15) Alaska Redox (A16) Alaska Redox (A16) Alaska Redox (A17) Alaska Redox (A17) Alaska Redox (A18) Alaska Redo		. ,)								
Alaska Redox (A14) Alaska Gleyed Pores (A15) Restrictive Layer (if present): Type: Depth (inches): Remarks: no restrictive layer observed, no hydric soil indicators. although 9 out of hite top 16 inches of soil are organic, there are no indications that the soils are saturated (no primary or secondary wetland hydrology indicators). HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one is sufficient) High Water Table (A2) Sparsely Vegetated Concave Surface (B8) Hydrogen Sulfide Odor (C1) Sediment Deposits (B15) Sediment Deposits (B2) Dirft Deposits (B3) Surface Water Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches):	Alaska Redox (A14) Alaska Gleyed Pores (A15) Alaska Gleyed Pores (A15) Alaska Gleyed Pores (A15) Alaska Gleyed Pores (A15) Again Alaska Gleyed Pores (A15) Alaska Gleyed Poresent? Alaska		•	,								nydrology,
Restrictive Layer (if present): Type: Depth (inches): Remarks: no restrictive layer observed, no hydric soil indicators, although 9 out of hie top 16 inches of soil are organic, there are no indications that the soils are saturated (no primary or secondary wetland hydrology indicators). AYDROLOGY	Restrictive Layer (if present): Type: Depth (inches): Remarks: No restrictive layer observed, no hydric soil indicators. although 9 out of hte top 16 inches of soil are organic, there are no indications that the soils are saturated (no rimary or secondary wetland hydrology indicators). Alpha					and an	appropriat	e ianascap	e position i	must be pr	esent	
Type: Depth (inches): Remarks: Remarks: No ● No ● Remarks: No no restrictive layer observed, no hydric soil indicators, although 9 out of hie top 16 inches of soil are organic, there are no indications that the soils are saturated (no primary or secondary wetland hydrology indicators). **POROLOGY** **Wetland Hydrology Indicators: Wetland Hydrology Indicators: Secondary Indicators (two or more are required) Primary Indicators (anv one is sufficient) Surface Water (A1) Surface Water (A1) Surface Water (A2) Sparsely Vegetated Concave Surface (B8) Saturation (A3) Marl Deposits (B15) Sectiment Deposits (B2) Dry-Season Water Table (C2) Sediment Deposits (B2) Dry-Season Water Table (C2) Stunted or Stressed Plants (D1) Trin Deposits (B3) Cherry (Explain in Remarks) Secondary Indicators (two or more are required) Water Table (A2) Sparsely Vegetated Concave Surface (B8) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Salt Deposits (C5) Sediment Deposits (B2) Dry-Season Water Table (C2) Stunted or Stressed Plants (D1) Grift Deposits (B3) Cherry (Explain in Remarks) Seconomyphic Position (D2) Shallow Aquiltard (D3) Microtopographic Relief (D4) FAC-neutral Test (D5) Feld Observations: Surface Soil Cracks (B6) Depth (inches): Water Table Present? Yes No ● Depth (inches): Wetland Hydrology Present? Yes No ● Depth (inches): Wetland Hydrology Present? Yes No ● Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	Type: Depth (inches): Remarks: on eastrictive layer observed, no hydric soil indicators, although 9 out of hie top 16 inches of soil are organic, there are no indications that the soils are saturated (no primary or secondary wetland hydrology indicators). MYDROLOGY	Alaska Gle	eyed Pores (A1	5)		4 Give	details of co	olor change	in Remark	(S		
Depth (inches): Remarks: no restrictive layer observed, no hydric soil indicators, although 9 out of hie top 16 inches of soil are organic, there are no indications that the soils are saturated (no primary or secondary wetland hydrology indicators). Application Application	Depth (inches): Remarks: No restrictive layer observed, no hydric soil indicators. although 9 out of hte top 16 inches of soil are organic, there are no indications that the soils are saturated (no rimary or secondary wetland hydrology indicators). Application Primary Indicators Secondary Indicators (two or more are required)	Restrictive Laye	er (if present):									
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HYDROLOGY Wetland Hydrology Indicators:	NYDROLOGY Wetand Hydrology Indicators:	Depth (inch	nes):									
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Primary Indicators (any one is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Drainage Patterns (B10) Drainage Patterns (B10) Presence of Reduced Iron (C4) Saturation (A3) Drainage Patterns (B10) Presence of Reduced Iron (C4) Saturation (A3) Marl Deposits (B15) Presence of Reduced Iron (C4) Satic 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) Shallow Aquitard (D3) Microtopographic Relief (D4) Surface Soil Cracks (B6) FAC-neutral Test (D5) Feld Observations: Surface Water Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: Remarks:	Primary Indicators (any one is sufficient) Surface Water (A1) 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) Satt Deposits (B1) Drift Deposits (B2) Dry-Season Water Table (C2) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Surface Soil Cracks (B6) Field Observations: Surface Water Present? Yes No Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: Water Stained Leaves (B9) Drainage Patterns (B10) Drainage Patters (B10) Drainage Patterns (B10)	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) □ 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) □ Shallow Aquitard (D3) □ Iron Deposits (B5) □ Microtopographic Relief (D4) □ Shallow Aquitard (D3) □ Iron Deposits (B5) □ FAC-neutral Test (D5) □ Sediment Deposits (B5) □ Depth (inches): □ Dept	Surface Water (A1)	Wetland Hyd	rology Indica	itors:							Secondary Indi	cators (two or more are required)
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Saturation (A3)	Saturation (A3)		, ,						_			• •
Water Marks (B1)	Water Marks (B1)		` '						cave Surfa	ce (B8)		
Sediment Deposits (B2)	□ Sediment Deposits (B2) □ Dry-Season Water Table (C2) □ Stunted or Stressed Plants (D1) □ Drift Deposits (B3) □ Other (Explain in Remarks) □ Geomorphic Position (D2) □ Shallow Aquitard (D3) □ 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): Saturation Present? Yes □ No □ Depth (inches): Observations Present? Yes □ No □ Depth (inches): Security Present? Yes □ No □ Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:		. ,				•	,				• ,
□ Drift Deposits (B3) □ Other (Explain in Remarks) □ Geomorphic Position (D2) □ Shallow Aquitard (D3) □ Iron Deposits (B5) □ Microtopographic Relief (D4) □ Surface Soil Cracks (B6) □ FAC-neutral Test (D5) □ Surface Water Present? Yes □ No ● Depth (inches): Water Table Present? Yes □ No ● Depth (inches): Saturation Present? Yes □ No ● Depth (inches): Consider the present of t	□ 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): Water Table Present? Yes ○ No ● Depth (inches): Saturation Present? Yes ○ No ● Depth (inches): Obescribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: Remarks:						_					
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☐ Iron Deposits (B5) ☐ Microtopographic Relief (D4) ☐ Surface Soil Cracks (B6) ☐ FAC-neutral Test (D5) ☐ FAC-neutral Test (D5	□ 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): Saturation Present? Yes ○ No ● Depth (inches): Obescribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: Remarks:		` ,				ner (Expiai	n in Kemar	KS)			` '
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Water Table Present? Yes No Depth (inches): Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: Remarks:	Water Table Present? Yes No Depth (inches): Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: Remarks:			Yes C	No •	D	enth (inche	s):				
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(includes capillary fringe) Tes No Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: Remarks:	(includes capillary fringe) Tes No Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: Remarks:							•		Wedia	na rryarology r resen	ic: 165 © 110 ©
Remarks:	Remarks:			Yes C	No 🔍	D	epth (inche	s):				
		Describe Recor	ded Data (stre	am gauge,	, monitor we	ll, aerial p	hotos, prev	ious inspe	ction) if ava	ailable:		
no hydrology indicators observed	no hydrology indicators observed	Remarks:										
			ndicators obse	rved								

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