WETLAND DETERMINATION DATA FORM - Alaska Region

Tojec	t/Site: Susitna-Watana Hydroele	ctric Project	ВС	rough/City:	Matanusk	a-Susitna Borough Sampling Date: 24-Aug-15
Applica	ant/Owner: Alaska Energy Autho	rity				Sampling Point: SW15_T323_07
rvesti	gator(s): BAB		L	andform (hil	llside, terrac	e, hummocks etc.): Hillside
ocal ı	relief (concave, convex, none):	Planar	;	Slope: 36.4	4 % / 20.0	D° Elevation:
ubreg	gion: Cook Inlet Mountains		Lat.:			Long.: Datum: WGS84
oil Ma	ap Unit Name:		_			NWI classification: Upland
	matic/hydrologic conditions on the s	site typical for this t	ime of vear?	Yes	No ○	(If no, explain in Remarks.)
			significantly			ormal Circumstances" present? Yes No
		, ,, ,	naturally pro			ded, explain any answers in Remarks.)
	-					
UMI	MARY OF FINDINGS - Attac			pling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present?	Yes No		_		
	Hydric Soil Present?	Yes O No 🤄				pled Area
	Wetland Hydrology Present?	Yes O No 🤄		W	ithin a W	etland? Yes ○ No ⊙
Rema	arks:					
EGE	ETATION - Use scientific nan	nes of plants. L	ist all spec	cies in the	plot.	
			Alexalesta	Dawinant.	Tudiantau	Dominance Test worksheet:
Tre	e Stratum		Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species
1.	Picea mariana		15	✓	FACW	That are OBL, FACW, or FAC: 4 (A)
2.	Picea glauca		5	✓	FACU	Total Number of Dominant Species Across All Strata: 7 (B)
3.	Betula papyrifera		5	✓	FACU	Percent of dominant Species
4.			0			That Are OBL, FACW, or FAC: 57.1% (A/B)
5.			0			Prevalence Index worksheet:
		Total Cover	r: 25			Total % Cover of: Multiply by:
Sap	oling/Shrub Stratum 50%	6 of Total Cover:	12.5 20% c	of Total Cover	:5	OBL Species 0 x 1 = 0
1	Vaccinium uliginosum		35	✓	FAC	FACW Species 44 x 2 = 88
1. 2.	Picea mariana		20	✓	FACW	FAC Species 65 x 3 = 195
3.	Rhododendron tomentosum		8		FACW	FACU Species 14 x 4 = 56
4.	Rhododendron groenlandicum		8		FAC	UPL Species 0 x 5 = 0
5.	Vaccinium vitis-idaea		8		FAC	Column Totals: 123 (A) 339 (E
6.	Betula glandulosa		5		FAC	Column Totals. 125 (A) 539 (E
7.	Empetrum nigrum		5		FAC	Prevalence Index = B/A = 2.756
8.	Linnaea borealis		1		FACU	Hydrophytic Vegetation Indicators:
9.	Salix barclayi		1		FAC	✓ Dominance Test is > 50%
10.			0		FACU	✓ Prevalence Index is ≤3.0
		Total Cover				Morphological Adaptations (Provide supporting data in
Her	b Stratum 509	% of Total Cover:	45.5 20%	of Total Cove	r: <u>18.2</u>	Remarks or on a separate sheet)
1.	Cornus canadensis		2	✓	FACU	Problematic Hydrophytic Vegetation (Explain)
2.	Equisetum sylvaticum		2	✓	FAC	¹ Indicators of hydric soil and wetland hydrology must
3.	Geocaulon lividum		1		FACU	be present, unless disturbed or problematic.
			1		FAC	Plot size (radius, or length x width)
5.	Rubus chamaemorus				FACW	% Cover of Wetland Bryophytes
						(Where applicable)
						% Bare Ground 0
						Total Cover of Bryophytes
10.						Hydrophytic
		Total Cover				Vegetation Present? Yes ● No ○
	E00/	6 of Total Cover:	2 700/ -	け しいけつし じついつり		

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SOIL Sampling Point: SW15_T323_07

Color (moist) Color (moist) No. Color (moist) No. Type: Loc. Texture Remarks	Profile Description: (Describe Depth	Matrix			dox Featur			_	
6-7 10/18 4/3 100 Sit Loam 7-10 7.578 2.5/2 100 Sard 10-20 rock 1-Type: C=Concentration. D=Depletion. RM=Reduced Matrix 2-Location: PL=Pore Lining. RC=Root Channel. M=Matrix 1-Type: C=Concentration. D=Depletion. RM=Reduced Matrix 2-Location: PL=Pore Lining. RC=Root Channel. M=Matrix 1-Type: C=Concentration. D=Depletion. RM=Reduced Matrix 2-Location: PL=Pore Lining. RC=Root Channel. M=Matrix 1-Type: C=Concentration. D=Depletion. RM=Reduced Matrix 2-Location: PL=Pore Lining. RC=Root Channel. M=Matrix 1-Type: C=Concentration. D=Depletion. RM=Reduced Matrix 2-Location: PL=Pore Lining. RC=Root Channel. M=Matrix 1-Type: C=Concentration. D=Depletion. RM=Reduced Matrix 2-Location: PL=Pore Lining. RC=Root Channel. M=Matrix 1-Type: C=Concentration. D=Depletion. RM=Reduced Matrix 2-Location: PL=Pore Lining. RC=Root Channel. M=Matrix 1-Type: C=Concentration. D=Depletion. RM=Reduced Matrix 2-Location: PL=Pore Lining. RC=Root Channel. M=Matrix 1-Type: C=Concentration. D=Depletion. RM=Reduced Matrix 2-Location: PL=Pore Lining. RC=Root Channel. M=Matrix 1-Type: C=Concentration. D=Depletion. RM=Reduced Matrix 2-Location: PL=Pore Lining. RC=Root Channel. M=Matrix 1-Type: C=Concentration. D=Depletion. RM=Reduced Matrix 1-Type: C=Concentration. RM=Red	<i>a</i> i ,	noist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
7-10 7.5 °R 2.5 /2 100 Sand 10-20 Sand rock	0-6							Fibric Organics	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix 2 Location: PL=Pore Lining, RC=Root Channel, M=Matrix	6-7 10YR	4/3	100					Silt Loam	
Type: C-Concentration. D=Depletion. RM=Reduced Matrix. *Location: PL=Pore Lining. RC=Root Channel. M=Matrix.** Hydric Soil Indicators:	7-10 7.5YR	2.5/2	100					Sand	
Hydric Soil Indicators: Histosol or Histe (A1)	10-20								rock
Hydric Soil Indicators: Histosol or Histe (A1)									
Hydric Soil Indicators: Histosol or Histe (A1)									
Hydric Soil Indicators: Histosol or Histe (A1)							-		
Hydric Soil Indicators: Histosol or Histe (A1)							-	-	
Histosol or Histel (A1)	¹ Type: C=Concentration.	D=Depletion	n. RM=Reduce	d Matrix ² Location	on: PL=Pore	Lining. RC	=Root Cha	annel. M=Matrix	
Histosol or Histel (A1)	Hvdric Soil Indicators:			Indicators for P	roblematic	Hydric So	oils: ³		
Histic Epipedon (A2)						4		Alaska Gleved Without H	ue 5Y or Redder
Hydrogen Sulfide (A4)									
Alaska Gleyed (A13)	=			Alaska Redox	With 2.5Y Hu	ıe		Other (Explain in Remark	ks)
Alaska Goleyet (NL3)	_ ' ' '	.2)							
Alaska Gleyed Pores (A15)	Alaska Gleyed (A13)								nydrology,
Restrictive Layer (if present): Type: Depth (inches): Remarks: no hydric soil indicators observed Hydric Soil Present? Yes No No Hydric Soil Present? Yes No Depth (inches): Hydric Soil Present? Yes No Depth (inches): Hydric Soil Present? Yes No Depth (inches): Wetland Hydrology Indicators (two or more are required) Water Stained Leaves (B9) Drainage Patterns (B10) Drainage Patterns (B10	Alaska Redox (A14)				·	•		esent	
Type: Depth (inches): Remarks: no hydric soil indicators observed HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one is sufficient) Surface Water (A1) Surface Water (A1) Saturation (A3) Saturation (A3) Secondary Indicators (two or more are required) Sparsely Vegetated Concave Surface (B8) Saturation (A3) Saturation (A3) Sediment Deposits (B1) Sediment Deposits (B2) Dry-Season Water Table (C2) Square Soil Cracks (B6) Surface Soil Cracks (B6) Field Observations: Surface Water Present? Ves No Depth (inches): Wetland Hydrology Present? Ves No Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	Alaska Gleyed Pores (A	15)		4 Give details of o	color change	in Remark	S		
PYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Deposits (B1) Sediment Deposits (B2) Dirty Deposits (B3) Algal Mat or Crust (B4) Surface Soil Cracks (B6) Dry-Season Water Table (C2) Surface (B3) Algal Mat or Crust (B4) Surface (B3) Dry-Season Water Table (C2) Surface (B3) Dry-Season Water Table (C2) Surface (B3) Saturation (C4) Sediment Deposits (B3) Depth (inches): Water Stained Leaves (B9) Dry-Season (C4) Saturation (A3) Presence of Reduced Iron (C4) Satl Deposits (C5) Schallow Aquitard (D3) Iron Deposits (B3) Depth (inches): Water Table 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:	Restrictive Layer (if present):							
### Ac-neutral Test (D5) ### Ac-neutral Te	* *							Hydric Soil Present	? Yes ○ No •
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (anv one is sufficient) Secondary Indicators (two or more are required) Water Stained Leaves (B9) Water Stained Leaves (B9) Drainage Patterns (B10) High Water Table (A2) Sparsely Vegetated Concave Surface (B8) Oxidized Rhizospheres along Living Roots (C3) Saturation (A3) Water Marks (B1) Hydrogen Sulfide Odor (C1) Salt 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) Iron Deposits (B5) Surface Soil Cracks (B6) FAC-neutral Test (D5) Feld Observations: Surface Water Present? Yes No Depth (inches): Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:									
Wetland Hydrology Indicators: Primary Indicators (any one is sufficient)	Remarks:	erved							
Primary Indicators (any one is sufficient) Surface Water (A1) Inundation Visible on Aerial Imagery (B7) Drainage Patterns (B10) Drainage Patterns (B1	Remarks:	erved							
Surface Water (A1)	Remarks: no hydric soil indicators obs	erved							
High Water Table (A2)	Remarks: no hydric soil indicators obs								
Saturation (A3)	Remarks: no hydric soil indicators obs HYDROLOGY Wetland Hydrology Indi Primary Indicators (any on	cators:	nt)					Water Stai	ined Leaves (B9)
Water Marks (B1)	Remarks: no hydric soil indicators obs HYDROLOGY Wetland Hydrology Indi Primary Indicators (any on Surface Water (A1)	cators: e is sufficier	nt)			_		Water Stai	ned Leaves (B9) Patterns (B10)
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) □ 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): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	Remarks: no hydric soil indicators obs HYDROLOGY Wetland Hydrology Indi Primary Indicators (any on Surface Water (A1) High Water Table (A2)	cators: e is sufficier	nt)	Sparsely Ve	getated Conc	_		Water Stai Drainage I Oxidized R	ned Leaves (B9) Patterns (B10) chizospheres along Living Roots (C3)
□ 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): Saturation Present? Yes ○ No ● Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	HYDROLOGY Wetland Hydrology Indi Primary Indicators (any on Surface Water (A1) High Water Table (A2 Saturation (A3)	cators: e is sufficier	nt)	Sparsely Ve	getated Conc ts (B15)	ave Surfac		Water Stai Drainage I Oxidized R Presence o	Patterns (B10) Chizospheres along Living Roots (C3) of Reduced Iron (C4)
Algal Mat or Crust (B4) ☐ Iron Deposits (B5) ☐ Surface Soil Cracks (B6) ☐ FAC-neutral Test (D5) Field Observations: Surface Water Present? 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: □ Shallow Aquitard (D3) ☐ Microtopographic Relief (D4) ☐ FAC-neutral Test (D5) ■ Wetland Hydrology Present? Yes No ● Depth (inches): □ Shallow Aquitard (D3) ☐ Microtopographic Relief (D4) ☐ FAC-neutral Test (D5) ■ Wetland Hydrology Present? Yes No ● No ● Depth (inches):	Remarks: no hydric soil indicators observed by the hydric soil indicators observed by the hydrology Indicators (any on Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1)	cators: e is sufficier	nt)	Sparsely Ve	getated Conc ts (B15) ulfide Odor (G	cave Surfac		Water Stai Drainage I Oxidized R Presence C Salt Depos	ned Leaves (B9) Patterns (B10) thizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5)
☐ Iron Deposits (B5) ☐ Microtopographic Relief (D4) ☐ Surface Soil Cracks (B6) ☐ FAC-neutral Test (D5) ☐ Surface Water Present? Yes ○ No ② Depth (inches): Water Table Present? Yes ○ No ③ Depth (inches): Saturation Present? Yes ○ No ③ Depth (inches): Cincludes capillary fringe) ☐ Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	HYDROLOGY Wetland Hydrology Indi Primary Indicators (any on Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B:	cators: e is sufficier	nt)	Sparsely Ve	getated Conc ts (B15) ulfide Odor (O Water Table	cave Surface C1) (C2)		Water Stail Drainage I Oxidized R Presence o Salt Depos	rined Leaves (B9) Patterns (B10) Chizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) Stressed Plants (D1)
Surface Soil Cracks (B6) Field Observations: 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): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	HYDROLOGY Wetland Hydrology Indi Primary Indicators (any on Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3)	cators: e is sufficier 2)	nt)	Sparsely Ve	getated Conc ts (B15) ulfide Odor (O Water Table	cave Surface C1) (C2)		Water Stai Drainage I Oxidized R Presence o Salt Depos Stunted or	Patterns (B10) chizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) - Stressed Plants (D1) ic Position (D2)
Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Cincludes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	HYDROLOGY Wetland Hydrology Indi Primary Indicators (any on Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4)	cators: e is sufficier 2)	nt)	Sparsely Ve	getated Conc ts (B15) ulfide Odor (O Water Table	cave Surface C1) (C2)		Water Stai Drainage I Oxidized R Presence o Salt Depos Stunted or Geomorph Shallow Ad	Patterns (B10) chizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) • Stressed Plants (D1) ic Position (D2) quitard (D3)
Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Cincludes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	HYDROLOGY Wetland Hydrology Indi Primary Indicators (any on Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	cators: e is sufficier 2)	nt)	Sparsely Ve	getated Conc ts (B15) ulfide Odor (O Water Table	cave Surface C1) (C2)		Water Stai Drainage I Oxidized R Presence o Salt Depos Stunted or Geomorph Shallow Ac	Patterns (B10) Patterns (B10) Chizospheres along Living Roots (C3) of Reduced Iron (C4) Sits (C5) Stressed Plants (D1) ic Position (D2) quitard (D3) graphic Relief (D4)
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Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	Remarks: no hydric soil indicators observations HYDROLOGY Wetland Hydrology Indi Primary Indicators (any on Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Drift Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (B	cators: e is sufficier 2)		Sparsely Ve	getated Conc ts (B15) ulfide Odor (G Water Table ain in Remark	cave Surface C1) (C2)		Water Stai Drainage I Oxidized R Presence o Salt Depos Stunted or Geomorph Shallow Ac	Patterns (B10) Patterns (B10) Chizospheres along Living Roots (C3) of Reduced Iron (C4) Sits (C5) Stressed Plants (D1) ic Position (D2) quitard (D3) graphic Relief (D4)
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	Remarks: no hydric soil indicators observations HYDROLOGY Wetland Hydrology Indi Primary Indicators (any on Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (B Field Observations: Surface Water Present? Water Table Present?	cators: e is sufficier 2) Yes Yes) No	Sparsely Ve	getated Conc ts (B15) ulfide Odor (G Water Table ain in Remark	cave Surface C1) (C2)	ce (B8)	Water Stail Drainage I Oxidized R Presence o Salt Depos Stunted or Geomorph Shallow Ad Microtopog	rined Leaves (B9) Patterns (B10) Phizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) Stressed Plants (D1) ic Position (D2) quitard (D3) graphic Relief (D4) al Test (D5)
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	Remarks: no hydric soil indicators observations: no hydric soil indicators observations: New York Wetland Hydrology Indi Primary Indicators (any on Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (B Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	cators: e is sufficien 2) Yes Yes Yes	No ●No ●No ●No ●	Sparsely Veg Marl Deposi Hydrogen Si Dry-Season Other (Explain) Depth (inch Depth (inch	getated Conc ts (B15) ulfide Odor (C Water Table ain in Remark es): es):	C1) (C2) (C3)	Wetla	Water Stail Drainage I Oxidized R Presence o Salt Depos Stunted or Geomorph Shallow Ad Microtopog	rined Leaves (B9) Patterns (B10) Phizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) Stressed Plants (D1) ic Position (D2) quitard (D3) graphic Relief (D4) al Test (D5)
	Remarks: no hydric soil indicators observed in the content of the	cators: e is sufficien 2) Yes Yes Yes	No ●No ●No ●No ●	Sparsely Veg Marl Deposi Hydrogen Si Dry-Season Other (Explain) Depth (inch Depth (inch	getated Conc ts (B15) ulfide Odor (C Water Table ain in Remark es): es):	C1) (C2) (C3)	Wetla	Water Stail Drainage I Oxidized R Presence o Salt Depos Stunted or Geomorph Shallow Ad Microtopog	rined Leaves (B9) Patterns (B10) Phizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) Stressed Plants (D1) ic Position (D2) quitard (D3) graphic Relief (D4) al Test (D5)
	Remarks: no hydric soil indicators observed in the content of the	cators: e is sufficien 2) Yes Yes Yes	No ●No ●No ●No ●	Sparsely Veg Marl Deposi Hydrogen Si Dry-Season Other (Explain) Depth (inch Depth (inch	getated Conc ts (B15) ulfide Odor (C Water Table ain in Remark es): es):	C1) (C2) (C3)	Wetla	Water Stail Drainage I Oxidized R Presence o Salt Depos Stunted or Geomorph Shallow Ad Microtopog	rined Leaves (B9) Patterns (B10) Phizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) Stressed Plants (D1) ic Position (D2) quitard (D3) graphic Relief (D4) al Test (D5)

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