## WETLAND DETERMINATION DATA FORM - Alaska Region

Applic	et/Site: Susitna-Watana Hydroelectric Project		Borough/City	Matanusk	ka-Susitna Borough Sampling Date: 19-Jun-12
	ant/Owner: Alaska Energy Authority				Sampling Point: SW12_T29_01
Invest	igator(s): JGK		Landform (h	nillside, terrac	ce, hummocks etc.): Lowland
Local	relief (concave, convex, none):concave		Slope: 3	.5 % / 2.0	0 ° Elevation: 781
Subre	gion : Southcentral Alaska	Lat.:	62.7921999	09	Long.: -148.82142997 Datum: WGS84
	ap Unit Name:				NWI classification: PSS1/EM1E
Are cli	matic/hydrologic conditions on the site typical for this t		ar? Ye	es • No O	(If no, explain in Remarks.)
		J	problematic?		lormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.)
SUM	MARY OF FINDINGS - Attach site map sho	wing sa	mpling poi	nt locations	s, transects, important features, etc.
Ren	Hydrophytic Vegetation Present? Yes No No Wetland Hydrology Present? Yes No	)		s the Sam within a W	npled Area Vetland? Yes <sup>●</sup> No ○
VEGI	ETATION - Use scientific names of plants. L	ist all sp	pecies in th	e plot.	
	'			<u> </u>	Dominance Test worksheet:
Tre	ee Stratum	Absolut % Cove			Number of Dominant Species
1.		0			That are OBL, FACW, or FAC: 3 (A)
2.		0			Total Number of Dominant Species Across All Strata: 3 (B)
3.		0			Percent of dominant Species
4.		0			That Are OBL, FACW, or FAC: 100.0% (A/B)
5.		0			Prevalence Index worksheet:
	Total Cover	: <u> </u>	_		Total % Cover of: Multiply by:
Sap	pling/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cov	er: <u>0</u>	OBL Species5 x 1 =5
1.	Betula nana	15	<b>✓</b>	FAC	FACW Species x 2 =14
2.	Andromeda polifolia			FACW	FAC Species 67 x 3 = 201
۷.	, arai orrioda pomona	1	_		1 AO Opecico 6/ X 0 - 201
3.	Vaccinium uliginosum			FAC	FACU Species 0 x 4 = 0
	Vocainium uliningoum	20			
3.	Vaccinium uliginosum	20		FAC	FACU Species 0 x 4 = 0 UPL Species 0 x 5 = 0
3. 4.	Vaccinium uliginosum Ledum decumbens	20 2 2		FAC FACW	FACU Species 0 x 4 = 0 UPL Species 0 x 5 = 0 Column Totals: 79 (A) 220 (B)
3. 4. 5.	Vaccinium uliginosum  Ledum decumbens  Empetrum nigrum	20 2 2		FAC FACW	FACU Species $0$ $x = 4$ $0$ UPL Species $0$ $x = 5$ $0$ Column Totals: $x = 79$ (A) $x = 220$ (B) Prevalence Index = B/A = $x = 2.785$
3. 4. 5. 6. 7. 8.	Vaccinium uliginosum Ledum decumbens Empetrum nigrum	20 2 2 0 0		FAC FACW	FACU Species $0$ $x 4 = 0$ UPL Species $0$ $x 5 = 0$ Column Totals: $79$ (A) $220$ (B) Prevalence Index = B/A = $2.785$
3. 4. 5. 6. 7. 8.	Vaccinium uliginosum  Ledum decumbens  Empetrum nigrum	20 2 2 0 0 0		FAC FACW	FACU Species $0$ $x 4 = 0$ UPL Species $0$ $x 5 = 0$ Column Totals: $79$ (A) $220$ (B) Prevalence Index = B/A = $2.785$ Hydrophytic Vegetation Indicators:  Dominance Test is > 50%
3. 4. 5. 6. 7. 8.	Vaccinium uliginosum Ledum decumbens Empetrum nigrum	20 2 2 0 0 0 0		FAC FACW	FACU Species $0$ $x 4 = 0$ UPL Species $0$ $x 5 = 0$ Column Totals: $79$ (A) $220$ (B) Prevalence Index = B/A = $2.785$ Hydrophytic Vegetation Indicators:  Dominance Test is > 50%  Prevalence Index is $\leq 3.0$
3. 4. 5. 6. 7. 8. 9. 10.	Vaccinium uliginosum Ledum decumbens Empetrum nigrum  Total Cover 50% of Total Cover:	20 2 2 0 0 0 0 0	✓ ✓ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	FAC FACW FAC	FACU Species $0$ $x 4 = 0$ UPL Species $0$ $x 5 = 0$ Column Totals: $79$ (A) $220$ (B) Prevalence Index = B/A = $2.785$ Hydrophytic Vegetation Indicators:  Dominance Test is > 50%  Prevalence Index is $\leq 3.0$ Morphological Adaptations $^1$ (Provide supporting data in Remarks or on a separate sheet)
3. 4. 5. 6. 7. 8. 9. 10.	Vaccinium uliginosum  Ledum decumbens  Empetrum nigrum  Total Cover  50% of Total Cover:  Carex bigelowii	20 2 2 0 0 0 0 0 0 40 20 20	✓ ✓ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	FAC FACW FAC  FAC  FAC	FACU Species $0$ $x 4 = 0$ UPL Species $0$ $x 5 = 0$ Column Totals: $79$ (A) $220$ (B) Prevalence Index = B/A = $2.785$ Hydrophytic Vegetation Indicators:  Dominance Test is > 50%  Prevalence Index is $\leq 3.0$ Morphological Adaptations $^1$ (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation $^1$ (Explain)
3. 4. 5. 6. 7. 8. 9. 10.  Heel 1. 2.	Vaccinium uliginosum  Ledum decumbens  Empetrum nigrum  Total Cover:  50% of Total Cover:  Carex bigelowii  Trichophorum caespitosum	20 2 2 0 0 0 0 0 0 20 20 30 5	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	FAC FACW FAC  Ver: 8 FAC OBL	FACU Species 0 x 4 = 0 UPL Species 0 x 5 = 0 Column Totals: 79 (A) 220 (B) Prevalence Index = B/A = 2.785  Hydrophytic Vegetation Indicators:  ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤ 3.0
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3. 4. 5. 6. 7. 8. 9. 10.  Heel 1. 2. 3. 4. 5. 6. 7. 8.	Vaccinium uliginosum Ledum decumbens Empetrum nigrum  Total Cover 50% of Total Cover:  Carex bigelowii Trichophorum caespitosum Eriophorum russeolum Pedicularis labradorica Eriophorum vaginatum	20 2 2 0 0 0 0 40 20 20 30 5 2 1 1 0 0	Ø O Total Cov	FAC FACW FAC  Ser: 8 FAC OBL FACW FACW	FACU Species 0 x 4 = 0 UPL Species 0 x 5 = 0  Column Totals: 79 (A) 220 (B)  Prevalence Index = B/A = 2.785  Hydrophytic Vegetation Indicators:  ✓ Dominance Test is > 50%  ✓ Prevalence Index is ≤ 3.0
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3. 4. 5. 6. 7. 8. 9. 10.  Head 1. 2. 3. 4. 5. 6. 7. 8. 9.	Vaccinium uliginosum Ledum decumbens Empetrum nigrum  Total Cover 50% of Total Cover:  Carex bigelowii Trichophorum caespitosum Eriophorum russeolum Pedicularis labradorica Eriophorum vaginatum	20 2 2 0 0 0 0 20 20 20 30 5 2 1 1 0 0		FAC FACW FAC  Ser: 8 FAC OBL FACW FACW	FACU Species 0 x 4 = 0 UPL Species 0 x 5 = 0  Column Totals: 79 (A) 220 (B)  Prevalence Index = B/A = 2.785  Hydrophytic Vegetation Indicators:  ✓ Dominance Test is > 50%  ✓ Prevalence Index is ≤ 3.0  Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation 1 (Explain)  1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Plot size (radius, or length x width)  % Cover of Wetland Bryophytes (Where applicable)  % Bare Ground

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SOIL Sampling Point: SW12\_T29\_01

l <b>atrix</b>	document the indicator or co	onfirm the absen		ors)		
				Loc <sup>2</sup>	Texture	Remarks
			.,,,,		Fibric Organics	
					Hemic Organics	
Depletion. RM=R					nnel. M=Matrix	
	Indicators for P	roblematic H	lydric Soil	s:		
	Alaska Color C	hange (TA4)	•			ue 5Y or Redder
	Alaska Alpine	swales (TA5)			, 3 ,	
	Alaska Redox	With 2.5Y Hue	е		Other (Explain in Remark	s)
	3 One indicator o	f buduanbutia	vocatation	ana nuin	ann, indicator of watland b	duology
						ydrology,
)	<sup>4</sup> Give details of o	color change in	n Remarks			
)					Hydric Soil Present	P Yes ● No ○
,					Tryante don 11 cocine	1.65 5 1.16 5
to determine ii i	11510501					
to determine ii i	iistosoi					
to determine ii i	iistusui					
ors:	iistusui				_Secondary Indic	ators (two or more are required)
	iistosoi					ators (two or more are required) ned Leaves (B9)
ors:		/isible on Aeri	al Imagery	(B7)	Water Stair Drainage P	ned Leaves (B9) atterns (B10)
ors:	☐ Inundation \	getated Conca			Water Stair Drainage P Oxidized RI	ned Leaves (B9) atterns (B10) nizospheres along Living Roots (C3)
ors:	Inundation \	getated Conca			Water Stair Drainage P Oxidized RI Presence o	ned Leaves (B9) atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4)
ors:	Inundation \ Sparsely Veg Marl Deposit Hydrogen St	getated Conca s (B15) ulfide Odor (C	ive Surface		Water Stair Drainage P Oxidized RI Presence o Salt Deposi	ned Leaves (B9) atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4) ts (C5)
ors:	Inundation \ Sparsely Veg Marl Deposit Hydrogen St Dry-Season	getated Conca ss (B15) ulfide Odor (C Water Table (	ive Surface  (1) (C2)		Water Stair Drainage P Oxidized RI Presence o Salt Deposi	ned Leaves (B9) atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4) ts (C5) Stressed Plants (D1)
ors:	Inundation \ Sparsely Veg Marl Deposit Hydrogen St Dry-Season	getated Conca s (B15) ulfide Odor (C	ive Surface  (1) (C2)		Water Stain Drainage P Oxidized RI Presence o Salt Deposi Stunted or Geomorphi	ned Leaves (B9) atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4) ts (C5) Stressed Plants (D1) c Position (D2)
ors:	Inundation \ Sparsely Veg Marl Deposit Hydrogen St Dry-Season	getated Conca ss (B15) ulfide Odor (C Water Table (	ive Surface  (1) (C2)		Water Stain □ Drainage P □ Oxidized RI □ Presence o □ Salt Deposi □ Stunted or □ Geomorphi ☑ Shallow Aq	ned Leaves (B9) atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4) ts (C5) Stressed Plants (D1) c Position (D2) uitard (D3)
ors:	Inundation \ Sparsely Veg Marl Deposit Hydrogen St Dry-Season	getated Conca ss (B15) ulfide Odor (C Water Table (	ive Surface  (1) (C2)		Water Stain Drainage P Oxidized RI Presence o Salt Deposi Stunted or Geomorphi Shallow Aq Microtopog	ned Leaves (B9) atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4) ts (C5) Stressed Plants (D1) c Position (D2) uitard (D3) raphic Relief (D4)
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ors: sufficient)	Inundation \ Sparsely Veg Marl Deposit Hydrogen St Dry-Season Other (Expla	getated Conca es (B15) ulfide Odor (C Water Table ( iin in Remarks	ive Surface  (1) (C2)		Water Stain Drainage P Oxidized RI Presence o Salt Deposi Stunted or Geomorphi Shallow Aq Microtopog	ned Leaves (B9) atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4) ts (C5) Stressed Plants (D1) c Position (D2) uitard (D3) raphic Relief (D4)
ors: sufficient)  Yes O No	Inundation N Sparsely Veg Marl Deposit Hydrogen St Dry-Season Other (Expla	getated Conca is (B15) ulfide Odor (C Water Table ( in in Remarks	(C2)	(B8)	Water Stair  □ Drainage P  □ Oxidized RI  □ Presence o  □ Salt Deposi  □ Stunted or  □ Geomorphi  ☑ Shallow Aq  □ Microtopog  □ FAC-neutra	ned Leaves (B9) atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4) ts (C5) Stressed Plants (D1) c Position (D2) uitard (D3) raphic Relief (D4) I Test (D5)
Yes No	Inundation N Sparsely Vec Marl Deposit Hydrogen St Dry-Season Other (Expla	getated Conca is (B15) ulfide Odor (C Water Table ( in in Remarks	(C2)	(B8)	Water Stain Drainage P Oxidized RI Presence o Salt Deposi Stunted or Geomorphi Shallow Aq Microtopog	ned Leaves (B9) atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4) ts (C5) Stressed Plants (D1) c Position (D2) uitard (D3) raphic Relief (D4) I Test (D5)
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Yes No Yes No Yes No Yes No More No Mo	Inundation N Sparsely Veg Marl Deposit Hydrogen St Dry-Season Other (Explain  Depth (inch Depth (inch Depth (inch Depth (inch Dry well, aerial photos, pre	getated Conca is (B15) ulfide Odor (C Water Table ( in in Remarks es): es): 4	sive Surface (1) (C2) (S)	(B8)	Water Stair  □ Drainage P  □ Oxidized RI  □ Presence o  □ Salt Deposi  □ Stunted or  □ Geomorphi  ☑ Shallow Aq  □ Microtopog  □ FAC-neutra	ned Leaves (B9) atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4) ts (C5) Stressed Plants (D1) c Position (D2) uitard (D3) raphic Relief (D4) I Test (D5)
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	)	Depletion. RM=Reduced Matrix <sup>2</sup> Locatio  Indicators for Pi Alaska Color C Alaska Alpine: Alaska Redox  3 One indicator of and an appropria	Depletion. RM=Reduced Matrix <sup>2</sup> Location: PL=Pore L  Indicators for Problematic F  Alaska Color Change (TA4)  Alaska Alpine swales (TA5)  Alaska Redox With 2.5Y Hud  One indicator of hydrophytic and an appropriate landscape  4 Give details of color change in	Depletion. RM=Reduced Matrix <sup>2</sup> Location: PL=Pore Lining. RC=  Indicators for Problematic Hydric Soil  Alaska Color Change (TA4)  Alaska Alpine swales (TA5)  Alaska Redox With 2.5Y Hue  3 One indicator of hydrophytic vegetation, and an appropriate landscape position must be details of color change in Remarks	Depletion. RM=Reduced Matrix <sup>2</sup> Location: PL=Pore Lining. RC=Root Chain Indicators for Problematic Hydric Soils:  Alaska Color Change (TA4) Alaska Alpine swales (TA5) Alaska Redox With 2.5Y Hue  3 One indicator of hydrophytic vegetation, one primand an appropriate landscape position must be presented.	Pepletion. RM=Reduced Matrix <sup>2</sup> Location: PL=Pore Lining. RC=Root Channel. M=Matrix  Indicators for Problematic Hydric Soils:  Alaska Color Change (TA4) Alaska Alpine swales (TA5) Alaska Redox With 2.5Y Hue  Other (Explain in Remarks)  4 Give details of color change in Remarks  Hydric Soil Present:

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