WETLAND DETERMINATION DATA FORM - Alaska Region

ct/Site: Susitna-Watana Hydroelectric Project	B	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 19-Jun-12
cant/Owner: Alaska Energy Authority				Sampling Point: SW12_T29_12
		Landform (hills	side, terrac	
		Slope:	% / 2.5	
	l at ·	62 700/38101		Long.: -148.811875735 Datum: NAD83
		02.790430191	3	
			<u> </u>	NWI classification: PSS1E
	•			(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○
		-		omai circametanece procent.
Vegetation □ , Soil ⊻ , or Hydrology □	naturally pr	oblematic?	(If nee	ded, explain any answers in Remarks.)
MARY OF FINDINGS - Attach site map sh	nowing sam	npling point	locations	, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No				
	\circ	ls t	the Sam	
,		wit	thin a W	etland? Yes ◉ No ○
narks:				
FTATION - Use scientific names of plants	List all sne	cias in tha	nlot	
<u> </u>				Dominance Test worksheet:
ee Stratum				Number of Dominant Species
Picea glauca	10		FACU	That are OBL, FACW, or FAC:5(A)
				Total Number of Dominant Species Across All Strata: 6 (B)
				Percent of dominant Species That Are OBL, FACW, or FAC: 83.3% (A/B)
				Drevelence Index weeksheets
Total Cov	/er: 10			Prevalence Index worksheet: Total % Cover of: Multiply by:
pling/Shrub Stratum 50% of Total Cover:	5 20%	of Total Cover:	2	OBL Species 5 x 1 = 5
				FACW Species 56 x 2 = 112
Calix nulahra				FAC Species 21 x 3 = 63
Desimbers fruitisses				FACU Species 13 x 4 = 52
Diago alaura				UPL Species 0 x 5 = 0
-				
			TAC	Column Totals: <u>95</u> (A) <u>232</u> (B)
				Prevalence Index = B/A = 2.442
	Λ			Hydronhytic Vocatation Indicators
	$- \frac{0}{0}$			Hydrophytic Vegetation Indicators:
				✓ Dominance Test is > 50%
	0			✓ Dominance Test is > 50%✓ Prevalence Index is ≤3.0
	0 ver: 60	G of Total Cover:	: 12	✓ Dominance Test is > 50%
Total Cov e rb Stratum 50% of Total Cover:	0 ver: 60	6 of Total Cover:		 ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0 ✓ Morphological Adaptations ¹ (Provide supporting data in
Total Cov	ver: 60 30 20%		: <u>12</u> FAC FAC	 ✓ 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)
Total Cover: Solve Stratum Anemone richardsonii Valeriana capitata Songuinorho officinalia	ver: 60 30 20%	6 of Total Cover:	FAC	 ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0 ✓ Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
Total Cover: Stratum Anemone richardsonii Valeriana capitata Sanguisorba officinalis	0 0 30 20% 5 1 1	6 of Total Cover:	FAC FAC	 ✓ 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.
Total Cover: Solve Stratum Anemone richardsonii Valeriana capitata Sanguisorba officinalis	0 30 20% 5 1 1 1	6 of Total Cover:	FAC FAC FACW	 ✓ 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)
Total Cover: Stratum 50% of Total Cover: Anemone richardsonii Valeriana capitata Sanguisorba officinalis Mertensia paniculata	7er: 60 30 20% 5 1 1 1 1 1	6 of Total Cover:	FAC FACW FACU	 ✓ 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.
Total Cover: Soft Stratum Anemone richardsonii Valeriana capitata Sanguisorba officinalis Mertensia paniculata Cornus suecica	7er: 60 30 20% 5 1 1 1 1 0.1	6 of Total Cover:	FAC FACW FACU FACU	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) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) Source of Wetland Bryophytes
Total Cover: Some of Total Cover: Anemone richardsonii Valeriana capitata Sanguisorba officinalis Mertensia paniculata Cornus suecica Equisetum pratense	7er: 60 30 20% 5 1 1 1 1 0.1 5	6 of Total Cover:	FAC FACW FACU FACU FACW	Dominance Test is > 50% Prevalence Index is ≤3.0 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 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)
Total Cover: Anemone richardsonii Valeriana capitata Sanguisorba officinalis Mertensia paniculata Cornus suecica Equisetum pratense Calamagrostis canadensis	7er: 60 30 20% 5 1 1 1 1 0.1 5	6 of Total Cover:	FAC FACW FACU FAC FAC FACW FAC	Dominance Test is > 50% Prevalence Index is ≤3.0 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 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 20
Total Cover: Anemone richardsonii Valeriana capitata Sanguisorba officinalis Mertensia paniculata Cornus suecica Equisetum pratense Calamagrostis canadensis Petasites frigidus	5 1 1 1 0.1 5 5 5	6 of Total Cover:	FAC FACW FACU FAC FACW FAC FACW	□ Dominance Test is > 50% □ Prevalence Index is ≤3.0 □ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) □ Problematic Hydrophytic Vegetation¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width)
Total Cover: Anemone richardsonii Valeriana capitata Sanguisorba officinalis Mertensia paniculata Cornus suecica Equisetum pratense Calamagrostis canadensis Petasites frigidus Carex aquatilis	7er: 60 30 20% 5 1 1 1 1 0.1 5 5 5 1 25.1	6 of Total Cover:	FAC FACW FACU FACW FAC FACW FAC FACW FAC FACW FAC	✓ 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)
	ant/Owner: Alaska Energy Authority igator(s): SLI, EKJ relief (concave, convex, none): hummocky gion: Southcentral Alaska ap Unit Name: imatic/hydrologic conditions on the site typical for this vegetation , Soil , or Hydrology , or Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No wetland Hydrology Present? Yes No arks: ETATION - Use scientific names of plants. Betula nana Salix pulchra Dasiphora fruticosa Picea glauca Salix reticulata	ant/Owner: Alaska Energy Authority igator(s): SLI, EKJ relief (concave, convex, none): hummocky gion: Southcentral Alaska Lat.: ap Unit Name: imatic/hydrologic conditions on the site typical for this time of year wegetation , Soil , or Hydrology significantly wegetation , Soil , or Hydrology naturally promote the site map showing same typical for this time of year wegetation , Soil , or Hydrology naturally promote the site map showing same typical for this time of year wegetation , Soil , or Hydrology naturally promote typical for this time of year wegetation , Soil , or Hydrology naturally promote typical for this time of year wegetation , or Hydrology naturally promote typical for this time of year wegetation , or Hydrology naturally promote typical for this time of year wegetation , or Hydrology naturally promote typical for Hydrology naturally promote typical for Hydrology	ant/Owner: Alaska Energy Authority igator(s): SLI, EKJ	ant/Owner: Alaska Energy Authority igator(s): SLI, EKJ

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SOIL Sampling Point: SW12_T29_12

Depth Matrix	trix	Re	edox Featu	res				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	<u>Loc</u> 2	Texture	Remarks
				_				
	-							
Tyne: C=Con		enletion RM=Rec	luced Matrix ² Location	on: PI =Por	e Linina RC	=Root Char	nnel M=Matrix	-
ydric Soil Ir		.piccioni iti i iteo	Indicators for F				men i i idan	
-	Histel (A1)		Alaska Color (4		Alaska Gleyed Without H	lue 5V or Pedder
Histic Epip	` '		Alaska Alpine		•		Underlying Layer	ide 31 of Reddel
_	Sulfide (A4)		Alaska Redox	•	,	✓	Other (Explain in Remar	ks)
	Surface (A12)							
Alaska Gle	` '						ary indicator of wetland I	nydrology,
Alaska Red			and an appropri	ate iandscap	e position i	nust be pres	sent	
Alaska Gle	yed Pores (A15)		⁴ Give details of	color chang	e in Remark	S		
strictive Laye	er (if present):							
Turner							Hydric Soil Present	:? Yes • No O
Type:								
Depth (inch		throughout site.	assume hydric soil du	e to primary	/ hydrology	indicators a	and hydrophytic vegetatio	n.
Depth (inch		throughout site.	assume hydric soil du	e to primary	/ hydrology	indicators a	nd hydrophytic vegetatio	n.
Depth (inchemarks: soil pit due t	so standing water		assume hydric soil du	e to primary	/ hydrology	indicators a		
Depth (inchemarks: soil pit due t	o standing water GY rology Indicator	rs:	assume hydric soil du	e to primary	/ hydrology	indicators a	Secondary Ind	icators (two or more are required)
Depth (inchemarks: soil pit due telephone /DROLOetland Hydrimary Indicate	GY rology Indicator	rs:					Secondary Ind	icators (two or more are required) ined Leaves (B9)
Depth (inch marks: soil pit due t /DROLO etland Hydr imary Indicat / Surface W	GY rology Indicator tors (any one is si	rs:	Inundation	Visible on A	erial Image	ry (B7)	Secondary Ind Water Sta	icators (two or more are required) ined Leaves (B9) Patterns (B10)
Depth (inch marks: soil pit due t DROLO etland Hydr imary Indicat Surface W High Wate	GY rology Indicator tors (any one is so fater (A1) er Table (A2)	rs:	☐ Inundation ☐ Sparsely Ve	Visible on A	erial Image	ry (B7)	Secondary Ind Secondary Ind Water Sta Trainage I	icators (two or more are required) ined Leaves (B9) Patterns (B10) thizospheres along Living Roots (C
Depth (inch marks: soil pit due t /DROLO etland Hydr imary Indicat Surface W High Wate Saturation	GY rology Indicator tors (any one is so (ater (A1) er Table (A2)	rs:	☐ Inundation☐ Sparsely Ve☐ Marl Deposi	Visible on A getated Cor its (B15)	erial Image ncave Surfac	ry (B7)	Secondary Indi Water Sta Drainage I Oxidized R	icators (two or more are required) ined Leaves (B9) Patterns (B10) thizospheres along Living Roots (C of Reduced Iron (C4)
Depth (inch marks: soil pit due t DROLO etland Hydr imary Indicat Surface W High Watee Saturation Water Mai	GY rology Indicator tors (any one is selected (A1) er Table (A2) a (A3) rks (B1)	rs:	☐ Inundation ☐ Sparsely Ve ☐ Marl Deposi ☐ Hydrogen S	Visible on A getated Cor its (B15) iulfide Odor	erial Image ncave Surfac (C1)	ry (B7)	Secondary Ind Water Sta Drainage Oxidized F Presence of Salt Depos	icators (two or more are required) ined Leaves (B9) Patterns (B10) thizospheres along Living Roots (C of Reduced Iron (C4) sits (C5)
Depth (inch marks: soil pit due t DROLO etland Hydr imary Indicat Surface W High Wate Saturation Water Mar Sediment	GY rology Indicator tors (any one is selecter (A1) er Table (A2) a (A3) rks (B1) Deposits (B2)	rs:	Inundation Sparsely Ve Marl Deposi Hydrogen S Dry-Season	Visible on A getated Cor its (B15) iulfide Odor Water Tabl	erial Image ncave Surfac (C1) e (C2)	ry (B7)	Secondary Ind Water Sta Drainage Oxidized F Presence of Salt Depose	icators (two or more are required) ined Leaves (B9) Patterns (B10) thizospheres along Living Roots (C of Reduced Iron (C4) sits (C5) r Stressed Plants (D1)
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Depth (inch marks: soil pit due t DROLO etland Hydr imary Indicat Surface W High Water Saturation Water Mai Sediment Drift Depo	GY rology Indicator tors (any one is si fater (A1) er Table (A2) er (A3) erks (B1) Deposits (B2) osits (B3) or Crust (B4)	rs:	Inundation Sparsely Ve Marl Deposi Hydrogen S Dry-Season	Visible on A getated Cor its (B15) iulfide Odor Water Tabl	erial Image ncave Surfac (C1) e (C2)	ry (B7)	Secondary Ind Water Sta Drainage I Oxidized F Presence o Salt Depos Stunted or Geomorph Shallow Ac	icators (two or more are required) ined Leaves (B9) Patterns (B10) thizospheres along Living Roots (C of Reduced Iron (C4) sits (C5) r Stressed Plants (D1) dic Position (D2) quitard (D3)
Depth (inch marks: soil pit due t DROLO etland Hydr imary Indicat Surface W High Water Saturation Water Man Sediment Drift Depo Algal Mat Iron Depo	GY rology Indicator tors (any one is si fater (A1) er Table (A2) a (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5)	rs:	Inundation Sparsely Ve Marl Deposi Hydrogen S Dry-Season	Visible on A getated Cor its (B15) iulfide Odor Water Tabl	erial Image ncave Surfac (C1) e (C2)	ry (B7)	Secondary Ind Water Sta V Drainage I Oxidized F Presence o Salt Depos Stunted or V Geomorph Shallow Ar	icators (two or more are required) ined Leaves (B9) Patterns (B10) thizospheres along Living Roots (Cof Reduced Iron (C4) sits (C5) r Stressed Plants (D1) ic Position (D2) quitard (D3) graphic Relief (D4)
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Pepth (inchemarks: o soil pit due to emarks: o soil pit due to etiand Hydrorimary Indicator Surface W High Water Saturation Water Mai Sediment Drift Depo Algal Mat Iron Depo Surface Soiled Observator Surface Water Water Table P Saturation Presincludes capill escribe Record	GY rology Indicator tors (any one is selected (A1) er Table (A2) er (A3) rks (B1) Deposits (B2) esits (B3) or Crust (B4) esits (B5) bil Cracks (B6) ertions: Present? resent? lary fringe) ded Data (stream	Yes No Yes No Yes No Yes No gauge, monitor	Inundation Sparsely Ve Marl Deposi Hydrogen S Dry-Season Other (Expl	Visible on A getated Cor its (B15) iulfide Odor Water Tabl ain in Rema nes): 4 nes): 0 nes): 0	erial Image ncave Surfac (C1) e (C2) rks)	ry (B7) te (B8) Wetlan	Secondary Ind Water Sta Drainage Oxidized F Presence of Salt Depose Stunted on Geomorph Shallow Ac Microtopo FAC-neutra	icators (two or more are required) ined Leaves (B9) Patterns (B10) thizospheres along Living Roots (C of Reduced Iron (C4) sits (C5) r Stressed Plants (D1) iic Position (D2) quitard (D3) graphic Relief (D4) al Test (D5)

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