WETLAND DETERMINATION DATA FORM - Alaska Region

ct/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 03-Aug-13				
cant/Owner: Alaska Energy Authority				Sampling Point: SW13_T179_05				
		Landform (hill	side, terrac	e, hummocks etc.): Toeslope				
		Slope:	% / 0.9	· · · · · · · · · · · · · · · · · · ·				
,	l at :	· 63 147534066		Long.: -148.32565415 Datum: NAD83				
	Lut	03.147334300	,					
•		0 V	■ N= ○	NWI classification: PEM1E				
· · · · · · · · · · · · · · · · · · ·	•			(If no, explain in Remarks.) Ormal Circumstances" present? Yes ● No ○				
	,			omar on our location process.				
vegetation . , Soil . , or Hydrology	naturally pr	obiematic?	(If nee	eded, explain any answers in Remarks.)				
IMARY OF FINDINGS - Attach site map sho	wing sam	pling point	locations	s, transects, important features, etc.				
Hydrophytic Vegetation Present? Yes No								
		Is the Sampled Area						
,		within a Wetland? Yes ● No ○						
FTATION - Use scientific names of plants U	ict all cno	ciac in tha	nlot					
ETATION - OSE SCIENTING Harries of plants. L	-		•	Dominance Test worksheet:				
oo Stratum				Number of Dominant Species				
				That are OBL, FACW, or FAC:3 (A)				
			-	Total Number of Dominant				
		П		Species Across All Strata: 3 (B)				
		П		Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)				
		П						
				Prevalence Index worksheet: Total % Cover of: Multiply by:				
		of Total Cover:	n	ODL Ossaiss				
·		_		1 13				
			FAC					
	^			Column Totals: <u>186</u> (A) <u>444</u> (B)				
				Prevalence Index = B/A =				
·								
				Hydrophytic Vegetation Indicators:				
				✓ Dominance Test is > 50%				
	0		_	✓ Dominance Test is > 50%✓ Prevalence Index is ≤3.0				
Total Cover	0 31	G of Total Cover		✓ Dominance Test is > 50%				
Total Cover erb Stratum 50% of Total Cover:	0 31 15.5 20%			 ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0 Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) 				
Total Cover <u>Prb Stratum</u> 50% of Total Cover: Rhodiola integrifolia	0 : 31 15.5 20% ###	~	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 Berb Stratum 50% of Total Cover: Rhodiola integrifolia Carex aquatilis	0 31 15.5 20% ### 40			 ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0 Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) 				
Total Cover erb Stratum 50% of Total Cover: Rhodiola integrifolia Carex aquatilis Eriophorum angustifolium	0 31 15.5 20% ### 40 5	~	FAC OBL	 ✓ 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 Erb Stratum 50% of Total Cover: Rhodiola integrifolia Carex aquatilis Eriophorum angustifolium Polemonium acutiflorum	0 31 15.5 20% ### 40 5 2	~	FAC OBL OBL	 ✓ 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) 				
Total Cover Erb Stratum 50% of Total Cover: Rhodiola integrifolia Carex aquatilis Eriophorum angustifolium Polemonium acutiflorum Arctagrostis latifolia	0 31 15.5 20% ### 40 5 2 2	~	FAC OBL 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) 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 				
Total Cover Erb Stratum 50% of Total Cover: Rhodiola integrifolia Carex aquatilis Eriophorum angustifolium Polemonium acutiflorum Arctagrostis latifolia	0 31 15.5 20% ### 40 5 2 2 2	~	FAC OBL 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) M Cover of Wetland Bryophytes (Where applicable) 				
Total Cover 50% of Total Cover: Rhodiola integrifolia Carex aquatilis Eriophorum angustifolium Polemonium acutiflorum Arctagrostis latifolia Aconitum delphiniifolium Artemisia norvegica	0 31 15.5 20% 40 5 2 2 2 2	~	FAC OBL OBL 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) % Cover of Wetland Bryophytes (Where applicable) % Bare Ground 				
Total Cover 50% of Total Cover: Rhodiola integrifolia Carex aquatilis Eriophorum angustifolium Polemonium acutiflorum Arctagrostis latifolia Aconitum delphiniifolium Artemisia norvegica Anemone narcissiflora	0 31 15.5 20% ### 40 5 2 2 2 2 2	~	FAC OBL OBL FAC FACW FAC 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. Plot size (radius, or length x width) M Cover of Wetland Bryophytes (Where applicable) 				
Total Cover 50% of Total Cover: Rhodiola integrifolia Carex aquatilis Eriophorum angustifolium Polemonium acutiflorum Arctagrostis latifolia Aconitum delphiniifolium Artemisia norvegica Anemone narcissiflora	0 31 15.5 20% ### 40 5 2 2 2 2 2	~	FAC OBL OBL FAC FACW FAC 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. Plot size (radius, or length x width) 10m Cover of Wetland Bryophytes (Where applicable) % Bare Ground 40 Total Cover of Bryophytes 5				
Total Cover 50% of Total Cover: Rhodiola integrifolia Carex aquatilis Eriophorum angustifolium Polemonium acutiflorum Arctagrostis latifolia Aconitum delphiniifolium Artemisia norvegica Anemone narcissiflora	0 31 15.5 20% 440 5 2 2 2 2 2 1 0	~	FAC OBL OBL FAC FACW FAC 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. Plot size (radius, or length x width) % Cover of Wetland Bryophytes (Where applicable) % Bare Ground 				
	tigator(s): WAD, RWM relief (concave, convex, none): concave egion: Interior Alaska Mountains flap Unit Name: limatic/hydrologic conditions on the site typical for this to Vegetation	tigator(s): WAD, RWM Irrelief (concave, convex, none): concave region: Interior Alaska Mountains Lat.: region : Interior Alaska Mountains Lat.: region: Inte	tigator(s): WAD, RWM relief (concave, convex, none): concave Slope: region : Interior Alaska Mountains Lat.: 63.147534966 region : Interior Alaska Mountains Lat.: 63.14753496 region : Interior Alaska Mountains Lat.: 63.14753496 region : Interior Alaska Mountains Lat.: 63.1475349 reg	tigator(s): WAD, RWM relief (concave, convex, none): concave relief (concave, convex, concave, relief (if needs): concave relief (concave, convex, concave, relief (if needs): concave relief (concave, convex, relief (if needs): concave relief (concave, convex, concave, relief (if needs): concave relief (concave, convex, relief (if needs): concave relief (concave, convex, relief (if needs): concave relief (concave, relief (if needs): concave relief (

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SOIL Sampling Point: SW13_T179_05

Profile Descriptio	on: (Describe to the de Matr		ument the indicator or co	onfirm the absence dox Features				
Depth (inches)	Color (moist)	<u>%</u>	Color (moist)			oc_2	Texture	Remarks
0-3	Color (Illoist)	100	Color (Illoist)	<u> 70 I</u>	уре		ibric Organics	Trailing Trailing
3-14		100					lemic Organics	with sand partcles
	-							with sand particles
-			-					
¹Type: C=Cond	centration. D=Dep	letion. RM=Redu	ced Matrix ² Locatio	n: PL=Pore Li	ning. RC=Roo	t Channe	el. M=Matrix	
Hydric Soil In	dicators:		Indicators for P	roblematic Hy	ydric Soils: ³			
Histosol or	Histel (A1)		Alaska Color C	Change (TA4)		☐ Al	aska Gleyed Without H	ue 5Y or Redder
✓ Histic Epipe	edon (A2)		Alaska Alpine	swales (TA5)			nderlying Layer	
Hydrogen S	Sulfide (A4)		Alaska Redox	With 2.5Y Hue		∐ o	ther (Explain in Remark	rs)
☐ Thick Dark	Surface (A12)		2					
Alaska Gley	ved (A13)		 One indicator of and an appropria 				y indicator of wetland h	ydrology,
Alaska Red	ox (A14)					oc preser		
Alaska Gley	ved Pores (A15)		⁴ Give details of o	color change in	Remarks			
Restrictive Layer	r (if present):							
Type:	,					Н	ydric Soil Present	? Yes • No O
Depth (inche	es):							
HYDROLOG	GY							
	GY ology Indicators	:					Secondary Indi	cators (two or more are required)_
Wetland Hydro								cators (two or more are required) ned Leaves (B9)
Wetland Hydro	ology Indicators ors (any one is suf		☐ Inundation \	/isible on Aeria	l Imagery (B7	·')	Water Stair	
Primary Indicat Surface Wa High Water	ology Indicators ors (any one is suf ater (A1) r Table (A2)			/isible on Aeria getated Concav			Water Stain Drainage P Oxidized R	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3)
Wetland Hydro Primary Indicat ✓ Surface Wa ✓ High Wate ✓ Saturation	ology Indicators ors (any one is suf ater (A1) r Table (A2) (A3)			getated Concav			Water Stain Drainage P Oxidized R Presence o	ned Leaves (B9) latterns (B10) hizospheres along Living Roots (C3) f Reduced Iron (C4)
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Wetland Hydro Primary Indicat ✓ Surface Wa ✓ High Wate ✓ Saturation	ology Indicators ors (any one is suf ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2)		Sparsely Veg Marl Deposit Hydrogen St Dry-Season	getated Concav cs (B15) ulfide Odor (C1 Water Table (C	re Surface (B8		Water Stail Drainage P Oxidized R Presence o Salt Depos Stunted or	ned Leaves (B9) latterns (B10) hizospheres along Living Roots (C3) f Reduced Iron (C4) its (C5) Stressed Plants (D1)
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Wetland Hydron Primary Indicat ✓ Surface Water Maricon Water Maricon Sediment In Drift Deposit Algal Mat of the Primary Indicator of the Primary	ology Indicators ors (any one is sufater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4)		Sparsely Veg Marl Deposit Hydrogen St Dry-Season	getated Concav cs (B15) ulfide Odor (C1 Water Table (C	re Surface (B8		Water Stair Drainage P Oxidized R Presence o Salt Depos Stunted or Geomorphi Shallow Ag	hed Leaves (B9) Patterns (B10) Phizospheres along Living Roots (C3) If Reduced Iron (C4) Patterns (C5) Stressed Plants (D1) Patterns (D2) Patterns (D3)
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