WETLAND DETERMINATION DATA FORM - Alaska Region

Project/	Site: Susitna-Watana Hydroelectric Project	Во	orough/City:	Matanusk	a-Susitna Borough Sampling Date:25-Aug-15
Applicar	nt/Owner: Alaska Energy Authority				Sampling Point: SW15_T325_05
Investig		L	_andform (hil	lside, terrac	e, hummocks etc.): Shoulder slope
Local re	elief (concave, convex, none): convex		Slope: 40.0) % / 21.8	- ·
Subregi	on : Cook Inlet Mountains	Lat.:			Long.: Datum: WGS84
	o Unit Name:				NWI classification: Upland
-				● No ○	<u></u>
	atic/hydrologic conditions on the site typical for this t	-			(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○
	egetation , Soil , or Hydrology	significantly			omai on our local local process.
Are Ve	egetation . , Soil . , or Hydrology .	naturally pro	oblematic?	(If nee	ded, explain any answers in Remarks.)
SUMM	IARY OF FINDINGS - Attach site map sho	wing sam	pling point	locations	, transects, important features, etc.
ı	Hydrophytic Vegetation Present? Yes O No	•			
	Hydric Soil Present? Yes No	_	Is	the Sam	pled Area
	Wetland Hydrology Present? Yes No	_	w	ithin a W	etland? Yes O No 💿
Remai					
Kemai	N5 .				
VEGE	TATION - Use scientific names of plants. L	ist all sne	ries in the	nlot	
LOL	TATION - 03e scientific flames of plants. L	ist all spec	cies iii tiie	piot.	Dominance Test worksheet:
	Class and	Absolute	Dominant	Indicator Status	Number of Dominant Species
	Stratum_ Picea glauca	<u>% Cover</u>	Species?	FACU	That are OBL, FACW, or FAC: 3 (A)
			✓		Total Number of Dominant
3.	Betula neoalaskana			FACU	Species Across All Strata: 6 (B)
4.		- 0			Percent of dominant Species That Are OBL, FACW, or FAC: 50,0% (A/B)
5.		0			
-	Total Cove				Prevalence Index worksheet:
Sanli	ing/Shrub Stratum 50% of Total Cover:		of Total Cover	: 4	Total % Cover of: Multiply by:
-					OBL Species 0 x1 = 0
-	Vaccinium uliginosum		✓	FAC	FACW Species 0 x 2 = 0
-	Vaccinium vitis-idaea	-	✓	FAC	FAC Species <u>58</u> x 3 = <u>174</u> FACU Species 29 x 4 = 116
-	Betula glandulosa			FAC	
_	Rhododendron groenlandicum			FAC	
-	Betula neoalaskana			FACU	Column Totals: <u>87</u> (A) <u>290</u> (B)
6					Prevalence Index = B/A = 3.333
7. 8.		0			Hadronia di Manakalia Tadia kana
-					Hydrophytic Vegetation Indicators: Dominance Test is > 50%
		0			Prevalence Index is ≤3.0
10.	Total Cove				
Herb	Stratum 50% of Total Cover:		of Total Cove	r: 8.8	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
-	Cornus suecica	15	✓	FAC	Problematic Hydrophytic Vegetation (Explain)
-	Cornus canadonsis		<u></u>	FACU	¹ Indicators of hydric soil and wetland hydrology must
_	Geocaulon lividum			FACU	be present, unless disturbed or problematic.
-	Diphasiastrum complanatum	4		FACU	
5.					Plot size (radius, or length x width) 10m
					% Cover of Wetland Bryophytes (Where applicable)
					% Bare Ground 10
					Total Cover of Bryophytes
10.		0			Hydrophytic
	Total Cover				Vegetation
	50% of Total Cover:	11.5 20% (of Total Cover	4.6	Present? Yes ○ No ●
Rema	ırks: 5% lichen			·	

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SOIL Sampling Point: SW15_T325_05

Color (moist) Solution Solu	Profile Descriptio Depth	Describe to	Matrix			dox Featu				
3-5 5-16 2.5YR 2.5/3 40 Sandy Leam Charcoal and abn		Color (m	oist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
Sandy Learn Charcosi and adv-2nd matrix cotor 1971 46 6999 Charcosi and adv-2nd matrix cotor 1971 Charcosi Indicators: Indicators for Problematic Hydric Soils? Indicators for Problematic Hydric Hydric Soils? Indicators for Problematic Hydric Hydric Soils? Indicators for Problematic Hydric Hydric Hydric Hydric Soils Present? Indicators for Pr	0-3					_			Peat	
Type: C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining, RC=Root Channel. M=Matrix Marker Soil Indicators:	3-5									Charcoal and ash
1 Type: C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining. RC=Root Channel. M=Matrix Hydric Soil Indicators:	5-16	2.5YR	2.5/3	40					Sandy Loam	Charcoal and ash2nd matrix color 10YR
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)										
Histosol or Histel (A1)	Type: C=Cond	centration. D	=Depletion	ı. RM=Reduc	ced Matrix ² Location	n: PL=Pore	Lining. RC	=Root Cha	nnel. M=Matrix	_
Histic Epipedon (A2) Hydrogen Sulfide (A4) Hydrogen Sulfide (A4) Alaska Redow With 1.25 Y Hue	Hydric Soil In	ndicators:			Indicators for P	roblematic	Hydric S	oils: ³		
Thick Dark Surface (A12)	Histosol or	Histel (A1)			Alaska Color (Change (TA4	4			lue 5Y or Redder
Thick Dark Surface (A12) Alaska Gleyed (A13) Alaska Gleyed (Pare Pores (A15) Alaska Gleyed Pores (A15) Bestrictive Layer (if present): Type: Depth (inches): ### Alaska Gleyed Pores (A15) Bestrictive Layer (if present): Type: Depth (inches): ### Alaska Gleyed Pores (A15) Bestrictive Layer (if present): ### Alaska Gleyed Pores (A15) ### Alaska Gleyed (A13) ### Alaska Gleyed Pores (A15) ### Alaska	Histic Epipe	edon (A2)			Alaska Alpine	swales (TA5	5)			
Alaska Gleyed (A13) Alaska Redox (A14) Alaska Redox (A14) Alaska Redox (A15) Alaska Redox (A15) Alaska Redox (A15) Alaska Redox (A15) Setrictive Layer (if present): Type: Depth (inches): ### Hydric Soil Present? Yes No ● ### No ● #	Hydrogen S	Sulfide (A4)			Alaska Redox	With 2.5Y H	lue		Other (Explain in Remar	rks)
Alaska Redox (A14) Alaska Redox (A14) Alaska Redox (A15) Alaska Gleyed Pores (A15) Alaska Redox (A15) Alaska		•	2)		3 One indicator of	f hydronhyti	ic vegetatio	n one prim	nary indicator of wetland	hydrology
Alaska Gleyed Pores (A15) 4 Give details of color change in Remarks testrictive Layer (if present):	_									nyurology,
Hydric Soil Present? Yes No ● Present (inches): Hydric Soil Present? Yes No ●	_		4.5		4 Give details of	color change	e in Remark	(S		
Type: Depth (inches): ### Apdric Soil Present? Yes No ** PERCAPACION STATES AND STAT	Alaska Gley	yed Pores (A:	15)							
PORDLOGY Vettand Hydrology Indicators: Secondary Indicators (two or more are required) Vater Stained Leaves (B9) Surface Water (A1) Inundation Visible on Aerial Imagery (B7) Sutration (A3) Saturation (A3) Water Marks (B1) Presence of Reduced Iron (C4) Sediment Deposits (B2) Dorft Deposits (B3) Dorft Deposits (B3) Dorft Deposits (B3) Other (Explain in Remarks) Sediment Or Crust (B4) Iron Deposits (B5) Surface Soll Cracks (B6) Surface Soll Cracks (B6) Dorft Deposits (B5) Surface Soll Cracks (B6) Dorft Deposits (B5) Dorft De	estrictive Layer	r (if present)	:							
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Note										
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Secondary Indicators: Secondary Indicators: Secondary Indicators (two or more are required)		nroughout. n	o hydric so	il indicators.						
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Surface Water (A1)	arge cobbles th	GY		il indicators.					Secondary Ind	licators (two or more are required)
High Water Table (A2)	AYDROLOG	GY ology Indic	ators:							
Saturation (A3)	YDROLOG Vetland Hydro	GY ology Indic	ators:		☐ Inundation	Visible on Aé	erial Image	rv (B7)	Water Sta	ined Leaves (B9)
Water Marks (B1)	YDROLOC Vetland Hydro Primary Indicato Surface Wa	GY ology Indic cors (any one ater (A1)	ators:				-		Water Sta	ined Leaves (B9) Patterns (B10)
Sediment Deposits (B2)	YDROLOC Vetland Hydro Primary Indicate Surface Wa High Water	GY ology Indic cors (any one ater (A1) or Table (A2)	ators:		Sparsely Ve	getated Con	-		Water Sta Drainage Oxidized I	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3)
□ Drift Deposits (B3) □ Other (Explain in Remarks) □ Geomorphic Position (D2) □ Shallow Aquitard (D3) □ Iron Deposits (B5) □ Microtopographic Relief (D4) □ FAC-neutral Test (D5) □ 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): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: Remarks:	IYDROLOC Wetland Hydro Primary Indicato Surface Wa High Water Saturation	GY rology Indictors (any one ater (A1) or Table (A2) (A3)	ators:		Sparsely Ve	getated Con ts (B15)	cave Surfa		Water Sta Drainage Oxidized I Presence	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4)
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