## WETLAND DETERMINATION DATA FORM - Alaska Region

Applica	t/Site: Susitna-Watana Hydroelectric Project	Во	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 02-Aug-12			
	ant/Owner: Alaska Energy Authority				Sampling Point: SW12_T53_05			
Investi	gator(s): CTS, EKJ	l	Landform (hillside, terrace, hummocks etc.): Ridgetop					
	relief (concave, convex, none): convex		Slope:	% / 19.0	- · ·			
	gion : Southcentral Alaska		· —		Long.: -149.061655723 Datum: NAD83			
		Lat <u>(</u>	02.0000000204					
	ap Unit Name:			<u> </u>	NWI classification: Upland			
	matic/hydrologic conditions on the site typical for this ti	•		No ○	(If no, explain in Remarks.)    Ormal Circumstances" present? Yes ● No ○			
		,	disturbed?		omai or cametanece procent.			
Are \	/egetation ☐ , Soil ☐ , or Hydrology ☐ ।	naturally pro	oblematic?	(If nee	eded, explain any answers in Remarks.)			
SUMI	MARY OF FINDINGS - Attach site map show	wing sam	pling point	locations	s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes   No C	)						
	Hydric Soil Present? Yes ○ No ⑤	)	Is the Sampled Area					
	Wetland Hydrology Present? Yes No •		within a Wetland? Yes ○ No ●					
Rem	arks: Slobe, light tone photosig on ridge tops mostly from		a few lone bire	ch trees als	00			
		,						
VEC	ETATION Has a significant and a fallocate 1:	-+ -II	-111	-1-+				
VEG	<b>ETATION</b> -Use scientific names of plants. Li	st all spe	cies in the	piot.	Dominance Test worksheet:			
Tro	e Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species			
	Betula neoalaskana	8	<u> </u>	FACU	That are OBL, FACW, or FAC: 2 (A)			
2.		0			Total Number of Dominant			
3.					Species Across All Strata: 4 (B)			
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)			
5.		0						
	Total Cover				Prevalence Index worksheet:			
Sar	oling/Shrub Stratum 50% of Total Cover:		of Total Cover:	1.6	Total % Cover of: Multiply by:  OBL Species 0 x 1 = 0			
Jul			_					
	Betula nana	40	<b>✓</b>	FAC				
2.	Empetrum nigrum	20		FAC				
_					$FACHS_{Decise}$ 25.1 $VA$ = 100.4			
3.	Rhododendron tomentosum	40	<b>✓</b>	FACW	FACU Species 25.1 x 4 = 100.4			
4.	Betula glandulosa	20		FAC	UPL Species 0 x 5 = 0			
4. 5.	Betula glandulosa Salix glauca	20		FAC				
4. 5. 6.	Betula glandulosa Salix glauca Salix pulchra	20 3 5		FAC FAC	UPL Species 0 x 5 = 0			
4. 5. 6. 7.	Betula glandulosa Salix glauca Salix pulchra Vaccinium uliginosum	20 3 5 10		FAC FACW FAC	UPL Species 0 x 5 = 0  Column Totals: 166.2 (A) 478.6 (B)  Prevalence Index = B/A = 2.880			
4. 5. 6. 7. 8.	Betula glandulosa Salix glauca Salix pulchra Vaccinium uliginosum Vaccinium vitis-idaea	20 3 5 10 3		FAC FAC FAC FAC	UPL Species $0 \times 5 = 0$ Column Totals: $166.2 \times 5 = 0$ Prevalence Index = B/A = $2.880$ Hydrophytic Vegetation Indicators:			
4. 5. 6. 7. 8. 9.	Betula glandulosa Salix glauca Salix pulchra Vaccinium uliginosum Vaccinium vitis-idaea Arctous alpinus	20 3 5 10 3 8		FAC FACW FAC FAC FACU	UPL Species $0 \times 5 = 0$ Column Totals: $166.2 \times 5 = 0$ Prevalence Index = B/A = $2.880$ Hydrophytic Vegetation Indicators:  Dominance Test is > 50%			
4. 5. 6. 7. 8. 9.	Betula glandulosa Salix glauca Salix pulchra Vaccinium uliginosum Vaccinium vitis-idaea Arctous alpinus Spiraea stevenii	20 3 5 10 3 8 0.1		FAC FAC FAC FAC	UPL Species $0 \times 5 = 0$ Column Totals: $166.2 \times 5 = 0$ Prevalence Index = B/A = $2.880$ Hydrophytic Vegetation Indicators:  Dominance Test is > 50%  Prevalence Index is $\leq 3.0$			
4. 5. 6. 7. 8. 9.	Betula glandulosa Salix glauca Salix pulchra Vaccinium uliginosum Vaccinium vitis-idaea Arctous alpinus Spiraea stevenii Total Cover	20 3 5 10 3 8 0.1		FAC FACW FAC FACU FACU FACU	UPL Species $0 \times 5 = 0$ Column Totals: $166.2 \times 5 = 0$ Prevalence Index = B/A = $2.880$ Hydrophytic Vegetation Indicators:  Dominance Test is > 50%			
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4. 5. 6. 7. 8. 9. 10. <b>Her</b> 1. 2.	Betula glandulosa Salix glauca Salix pulchra Vaccinium uliginosum Vaccinium vitis-idaea Arctous alpinus Spiraea stevenii  Total Cover 50% of Total Cover: Anthoxanthum monticola ssp. alpinum Rubus chamaemorus	20 3 5 10 3 8 0.1 149 74.55 20%		FAC FACW FAC FAC FACU FACU FACU FACU FACU	UPL Species $0 \times 5 = 0$ Column Totals: $166.2 \times 5 = 0$ Prevalence Index = B/A = $2.880$ 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)			
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SOIL Sampling Point: SW12\_T53\_05

		the depth n	eeded to docu	ment the indicator or co	nfirm the ab		cators)				
Depth (inches)	Color (mo		%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	- Texture	Remarks		
0-2	7.5YR	3/1	80	Color (Illoist)		Туре	LUC	Fine Sandy Loam	20% roots		
								Fine Sandy Loam	20 /0 10003		
2-4	10YR	4/1	100		-			Fine Sandy Loam			
4-5	10YR	3/4	100								
5-7	2.5R	2.5/1	100					Sand	metamorphic bedrock below		
				<del></del>							
¹Type: C=Con	centration. D=	=Depletion	. RM=Reduc	red Matrix <sup>2</sup> Location	n: PL=Por	e Lining. RO	C=Root Cha	annel. M=Matrix			
Hydric Soil Ir	ndicators:			Indicators for Pr	oblemati	c Hydric S	oils: <sup>3</sup>				
Histosol or	Histel (A1)			Alaska Color Ch	nange (TA	4 4)		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epipe	` ,			Alaska Alpine s	wales (TA!	5)		Underlying Layer			
Hydrogen :	Sulfide (A4)			Alaska Redox V	Vith 2.5Y H	Hue		Other (Explain in Remarks)			
	Surface (A12)	)									
Alaska Glev	• •	•						nary indicator of wetland h	ydrology,		
Alaska Red				and an appropriat	e ianascar	be position	must be pre	esent			
	yed Pores (A1	5)		<sup>4</sup> Give details of co	olor chang	e in Remarl	ks				
Restrictive Laye	r (if present):										
Type:								Hydric Soil Present	? Yes ○ No •		
Depth (inch	es):										
HYDROLO	GY										
Wetland Hydr	ology Indica	itors:						Secondary Indi	cators (two or more are required)		
Primary Indicat	tors (any one	is sufficien	t)					Water Stained Leaves (B9)			
Surface W	ater (A1)			☐ Inundation Visible on Aerial Imagery (B7)				Drainage Patterns (B10)			
High Water Table (A2)			☐ Sparsely Vegetated Concave Surface (B8)				Oxidized Rhizospheres along Living Roots (C3)				
Saturation (A3)			Marl Deposits (B15)					f Reduced Iron (C4)			
Water Marks (B1)				Hydrogen Sulfide Odor (C1)				Salt Depos	its (C5)		
Sediment Deposits (B2)			Dry-Season Water Table (C2)				Stunted or	Stressed Plants (D1)			
☐ Drift Depo	sits (B3)			Other (Explai	n in Rema	rks)		Geomorphi	ic Position (D2)		
	or Crust (B4)								uitard (D3)		
Iron Deposits (B5)									raphic Relief (D4)		
Surface So	oil Cracks (B6)							☐ FAC-neutra	l Test (D5)		
Field Observa		(									
Surface Water	Present?		No 💿	Depth (inche	s):						
Water Table P	resent?	Yes 🤇	No ●	Depth (inche	s):		Wetla	nd Hydrology Presen	t? Yes ○ No •		
Saturation Pre (includes capil		Yes C	No ●	Depth (inche	s):						
-		am gauge	, monitor we	ell, aerial photos, prev	ious inspe	ection) if av	ailable:				
Dames!											
Remarks:	ualaan to deed										
no wetland hyd	rology indicate	urs									
i e											

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