WETLAND DETERMINATION DATA FORM - Alaska Region

Applic	tt/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	xa-Susitna Borough Sampling Date: 21-Jun-12		
	ant/Owner: Alaska Energy Authority				Sampling Point: SW12_T33_02		
Invest	igator(s): SLI, EKJ		Landform (hillside, terrace, hummocks etc.): Mountainslope				
Local	relief (concave, convex, none): flat		Slope: 17.6 % / 10.0 ° Elevation: 938				
Subre	gion : Interior Alaska Mountains	Lat.:	62.7800882415 Long.: -148.360116638 Datum: WG				
Soil Ma	ap Unit Name:				NWI classification: Upland		
Are \	√egetation □ , Soil □ , or Hydrology □ r	significantl naturally p ving san	y disturbed? roblematic?	(If nee	(If no, explain in Remarks.) Normal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.		
Ren	Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No narks: ericaceous/deciduous sub-alpine community.)		the Sam thin a W	npled Area /etland? Yes ○ No ●		
VEGI	ETATION -Use scientific names of plants. Lis	st all spe	ecies in the	plot.			
	== = (= = = = = = = = = = = = = = = = = = =		·	<u> </u>	Dominance Test worksheet:		
Tre	ee Stratum	Absolute % Cover		Indicator Status	Number of Dominant Species		
1.		0			That are OBL, FACW, or FAC:3(A)		
2.		0			Total Number of Dominant Species Across All Strata: 7 (B)		
3.		0			Percent of dominant Species		
4.		0			That Are OBL, FACW, or FAC: 42.9% (A/B)		
5.		0			Prevalence Index worksheet:		
	Total Cover:	0			Total % Cover of: Multiply by:		
Saj	pling/Shrub Stratum 50% of Total Cover:	0 20%	6 of Total Cover:	0	OBL Species $0 \times 1 = 0$		
	Fanatrum nigrum	15	✓	FAC	FACW Species 5 x 2 = 10		
1. 2.	Empetrum nigrum Vaccinium uliginosum	7	. 💆	FAC	FAC Species 29 x 3 = 87		
3.	Vaccinium vitia idada			FAC	FACU Species 26 x 4 = 104		
4.	Dryas octopetala	10	✓	UPL	UPL Species 11 x 5 = 55		
5.	Arctostaphylos alpina	15	· ✓	FACU			
-	7 ii otootaapii ji oo alipiila				Column Totala, 71 (A) 3E6 (D)		
6	Ledum decumbens				Column Totals:		
6. 7.	Ledum decumbens Rhododendron lapponicum	5		FACW	Column Totals:		
7.	Rhododendron lapponicum			FAC	Prevalence Index = B/A = 3.606		
7. 8.	Rhododendron lapponicum Loiseleuria procumbens	5 1 7		FACW			
7. 8. 9.	Rhododendron lapponicum	5 1 7		FACW FAC FACU	Prevalence Index = B/A = 3.606 Hydrophytic Vegetation Indicators: Dominance Test is > 50%		
7. 8. 9.	Rhododendron lapponicum Loiseleuria procumbens Salix arctica Diapensia lapponica Total Cover:	5 1 7 2 1 65		FACU FACU UPL	Prevalence Index = B/A = 3.606 Hydrophytic Vegetation Indicators: □ Dominance Test is > 50% □ Prevalence Index is ≤3.0 □ Morphological Adaptations ¹ (Provide supporting data in		
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7. 8. 9. 10. He e	Rhododendron lapponicum Loiseleuria procumbens Salix arctica Diapensia lapponica Total Cover: rb Stratum Bistorta plumosa	5 1 7 2 1 65 32.5 209	✓	FACU FACU UPL	Prevalence Index = B/A = 3.606 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)		
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SOIL Sampling Point: SW12_T33_02

Profile Description		the depth ne	eded to docu	ment the indicator or cor	nfirm the ab		cators)				
Depth (inches)							Loc ²	Texture	Remarks		
0-2	Color (mo	ist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc =	Fibric Organics	Relibuins		
	2 FVD				-			-			
2-5		5+/2			- ——			Sandy Loam			
5-9	10R	2.5/1	90					Sandy Loam	10% semi-angular gravel		
9-15	2.5YR	2.5/1	90					Loamy Sand	10% semi-angular gravel		
¹Type: C=Con	centration. D=	=Depletion	. RM=Reduc	ed Matrix ² Location	ı: PL=Por	e Lining. RO	C=Root Cha	nnel. M=Matrix			
Hydric Soil Ir	ndicators:			Indicators for Pr	oblemati	c Hydric S	oils: ³				
Histosol or	Histel (A1)			Alaska Color Ch	nange (TA	4) ⁴		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epipe	edon (A2)			Alaska Alpine swales (TA5)				Underlying Layer			
Hydrogen :	Sulfide (A4)			Alaska Redox V	Vith 2.5Y H	Hue	L	Other (Explain in Remark	s)		
Thick Dark	Surface (A12))		3.6 (1.45)							
Alaska Gle	yed (A13)			One indicator of and an appropriat	hydrophyt e landscar	tic vegetation	on, one prin must be pre	mary indicator of wetland h esent	ydrology,		
Alaska Red	lox (A14)				•	•	-	COCITE			
	yed Pores (A1			⁴ Give details of co	olor chang	e in Kemarı	ks				
Restrictive Laye	r (if present):										
Type:	ē							Hydric Soil Present	? Yes ○ No •		
Depth (inch	es):										
HYDROLO	GY										
Wetland Hydr	ology Indica	tors:						Secondary Indi	cators (two or more are required)		
Primary Indicat	tors (any one	is sufficient	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			
Sediment Deposits (B2)			☐ Dry-Season Water Table (C2) ☐ Other (Explain in Remarks)					Stressed Plants (D1)			
☐ Drift Deposits (B3)				☐ Other (Explai	n in Rema	rks)			ic Position (D2)		
	or Crust (B4)								juitard (D3)		
☐ Iron Depo	. ,								graphic Relief (D4) al Test (D5)		
Field Observa	oil Cracks (B6)							☐ FAC-HEuu c	II Test (US)		
Surface Water		Yes C	No ●	Depth (inche	ic).						
			No •		•		'4' atla	1 Understand Dungen	V O N- O		
Water Table P		_	_	Depth (inche	s):		Wetia	nd Hydrology Presen	t? Yes ○ No •		
Saturation Pre (includes capil		Yes C	No 💿	Depth (inche	s):						
Describe Record	ded Data (stre	am gauge,	monitor we	ell, aerial photos, prev	ious inspe	ection) if ava	ailable:				
Remarks:											
no wetland hyd	rology indicate	ors									
lio rredana nya	. o.ogya.cac										

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