WETLAND DETERMINATION DATA FORM - Alaska Region

Applica	t/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 21-Jun-12			
	ant/Owner: Alaska Energy Authority				Sampling Point: SW12_T32_04			
nvesti	igator(s): JGK		Landform (hillside, terrace, hummocks etc.): Ridgetop					
Local	relief (concave, convex, none): convex		Slope: % / 7.3 ° Elevation: 952					
Subre	gion : Interior Alaska Mountains	Lat ·	62.7629101065 Long.: -148.313888759 Datum: NAD83					
	ap Unit Name:		NWI classification: Upland					
	matic/hydrologic conditions on the site typical for this tir		o Voc	No ○	(If no, explain in Remarks.)			
Are \	/egetation ☐ , Soil ☐ , or Hydrology ☐ s /egetation ☐ , Soil ☐ , or Hydrology ☐ r MARY OF FINDINGS - Attach site map show	significantly naturally pr wing sam	y disturbed? roblematic?	Are "N (If nee	lormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.)			
	Hydrophytic Vegetation Present? Yes No No	le	the Sampled Area					
	Hydric Soil Present? Yes No •		within a Wetland? Yes O No •					
	Wetland Hydrology Present? Yes ○ No ◉ arks:)	WI	thin a wetland?				
/EGI	ETATION -Use scientific names of plants. Li	st all spe			Dominance Test worksheet:			
	ee Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 0 (A)			
1.					Total Number of Dominant			
2.		0			Species Across All Strata: 2 (B)			
3.					Percent of dominant Species			
4.					That Are OBL, FACW, or FAC: 0.0% (A/B)			
5.					Prevalence Index worksheet:			
	Total Cover:				Total % Cover of: Multiply by:			
Sap	bling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species x 1 =			
1.	Betula glandulosa	_10		FAC	FACW Species 0 x 2 = 0			
2.	Dryas ajanensis	30_	✓	UPL	FAC Species <u>25</u> x 3 = <u>75</u>			
3.								
	Rhododendron lapponicum			FAC	FACU Species 22 x 4 = 88			
4.	Rhododendron lapponicum Vaccinium uliginosum			FAC FAC	FACU Species 22 x 4 = 88 UPL Species 30 x 5 = 150			
4.	• • • • • • • • • • • • • • • • • • • •	5						
4.	Vaccinium uliginosum	5 2 0		FAC	UPL Species 30 x 5 = 150 Column Totals: 77 (A) 313 (B)			
4. 5.	Vaccinium uliginosum Salix arctica	5		FAC	UPL Species 30 x 5 = 150 Column Totals: 77 (A) 313 (B) Prevalence Index = B/A = 4.065			
4. 5. 6. 7. 8.	Vaccinium uliginosum Salix arctica	5 2 0		FAC	UPL Species $30 \times 5 = 150$ Column Totals: $77 \times (A) \times 313 \times (B)$ Prevalence Index = B/A = 4.065 Hydrophytic Vegetation Indicators:			
4. 5. 6. 7. 8. 9.	Vaccinium uliginosum Salix arctica	5 2 0 0 0		FAC	UPL Species 30 x 5 = 150 Column Totals: 77 (A) 313 (B) Prevalence Index = B/A = 4.065 Hydrophytic Vegetation Indicators: Dominance Test is > 50%			
4. 5. 6. 7. 8. 9.	Vaccinium uliginosum Salix arctica	5 2 0 0 0 0		FAC	UPL Species 30 x 5 = 150 Column Totals: 77 (A) 313 (B) Prevalence Index = B/A = 4.065 Hydrophytic Vegetation Indicators: □ Dominance Test is > 50% □ Prevalence Index is ≤3.0			
4. 5. 6. 7. 8. 9. 10.	Vaccinium uliginosum Salix arctica Total Cover: 50% of Total Cover:	5 2 0 0 0 0 0		FACU FACU	UPL Species 30 x 5 = 150 Column Totals: 77 (A) 313 (B) Prevalence Index = B/A = 4.065 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)			
4. 5. 6. 7. 8. 9. 10. Hei	Vaccinium uliginosum Salix arctica Total Cover: 50% of Total Cover: Anthoxanthum monticola ssp. alpinum	5 2 0 0 0 0 0 0 0 57 28.5 20%	6 of Total Cover	FACU	UPL Species 30 x 5 = 150 Column Totals: 77 (A) 313 (B) Prevalence Index = $B/A = 4.065$ 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_T32_04

		the depth n	eeded to docun	nent the indicator or co	nfirm the ab		cators)					
Depth (inches)					%	Type ¹	_Loc_2	Texture	Remarks			
0-1	Color (mo	2/2	<u>%</u>	Color (moist)		Туре	LOC	Silt Loam	60% roots			
1-2	10YR	2/2			-			Silt Loam	20% roots			
2-5	10YR	3/4	65					Silt Loam	5% roots 30% cobbles			
5-11	10YR	2/2	30					Loamy Sand	60% cobbles 10% gravels			
								-				
¹Type: C=Cor	Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix											
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	c Hydric So	oils: ³					
Histosol or	Histel (A1)			Alaska Color Ch	nange (TA	4 4)		Alaska Gleyed Without H	ue 5Y or Redder			
Histic Epip	` '			Alaska Alpine s				Underlying Layer				
	Sulfide (A4)			Alaska Redox V	Vith 2.5Y H	Hue		Other (Explain in Remark	rs)			
	Surface (A12))										
Alaska Gle	• •	,						nary indicator of wetland h	ydrology,			
Alaska Red	, , ,			and an appropriat	e ianascar	be position i	must be pre	esent				
	yed Pores (A1	5)		⁴ Give details of co	olor chang	e in Remark	ks					
Restrictive Laye	er (if present):											
Type:								Hydric Soil Present	? Yes ○ No •			
Depth (inch	nes):											
HYDROLO	GY											
Wetland Hydi	rology Indica	tors:						Secondary Indi	cators (two or more are required)			
Primary Indica	tors (any one	is sufficien	t)					Water Stained Leaves (B9)				
Surface W	/ater (A1)			☐ Inundation Visible on Aerial Imagery (B7)				Drainage Patterns (B10)				
High Wate	High Water Table (A2)			☐ Sparsely Vegetated Concave Surface (B8)				Oxidized Rhizospheres along Living Roots (C3)				
Saturation (A3)				Marl Deposits (B15)				Presence of Reduced Iron (C4)				
Water Marks (B1)				Hydrogen Su	lfide Odor	(C1)		Salt Depos	its (C5)			
Sediment Deposits (B2)				Dry-Season Water Table (C2)				Stunted or	Stressed Plants (D1)			
Drift Deposits (B3)				Other (Explain in Remarks)				Geomorphic Position (D2)				
Algal Mat	or Crust (B4)							Shallow Ac	juitard (D3)			
Iron Depo					☐ Microtopog	graphic Relief (D4)						
Surface So	oil Cracks (B6)							FAC-neutra	l Test (D5)			
Field Observa	ntions:											
Surface Water	Present?		No ●	Depth (inche	s):							
Water Table P	resent?	Yes 🤇	No 💿	Depth (inche	s):		Wetla	nd Hydrology Presen	t? Yes O No 🗨			
Saturation Pre (includes capil		Yes C	No ●	Depth (inche	s):							
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												

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