WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/C	ity: Matanuska-Susitn	a Borough S	ampling Date:	21-Jun-12
Applicant/Owner: Alaska Energy Authority			Sampling	Point: S	W12_T32_04
Investigator(s): JGK	Landform	n (hillside, terrace, humn	nocks etc.): F	Ridgetop	
Local relief (concave, convex, none): convex	Slope:	26.7 % / 15.0 ° E	levation: 970		
Subregion : Interior Alaska Mountains	Lat.: 62.76291	19086 Long.:	-148.31391297	71 C	atum: WGS84
Soil Map Unit Name:			NWI classific	cation: Uplan	d
	e of year? gnificantly disturbe turally problematio	d? Are "Normal C	f no, explain in R ircumstances" p plain any answer	resent? Yes	• No ()
SUMMARY OF FINDINGS - Attach site map show	ng sampling p	oint locations, trans	ects, importa	int features,	etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ⊖ Yes ⊖ Yes ⊖	No 💿 No 💿 No 💿	Is the Sampled Area within a Wetland?	Yes \bigcirc No $oldsymbol{igen}$
Remarks:				

VEGETATION - Use scientific names of plants. List all species in the plot.

		Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tre	e Stratum	% Cover	Species?	Status	Number of Dominant Species		
1.		0			That are OBL, FACW, or FAC: (A)		
2.		0			Total Number of Dominant Species Across All Strata: 2 (B)		
3.		0					
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)		
5.		0					
0.	Total Cover:				Prevalence Index worksheet:		
			of Total Cover	0	Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	or rotal cover.	0	OBL Species x 1 =		
1.	Betula glandulosa	10		FAC	FACW Species x 2 =		
2.	Dryas octopetala	30	\checkmark	UPL	FAC Species x 3 =75		
3.	Rhododendron lapponicum	10		FAC	FACU Species 22 x 4 = 88		
4.	Vaccinium uliginosum	5		FAC	UPL Species <u>30</u> x 5 = <u>150</u>		
5.	Salix arctica	2		FACU	Column Totals: 77 (A) <u>313</u> (B)		
6.		-					
					Prevalence Index = B/A = 4.065		
					Hydrophytic Vegetation Indicators:		
					Dominance Test is > 50%		
		0			Prevalence Index is ≤3.0		
	Total Cover:	57			 Morphological Adaptations¹ (Provide supporting data in 		
Her	b Stratum 50% of Total Cover: 2		of Total Cover:	11.4	Remarks or on a separate sheet)		
1	Anthoxanthum monticola ssp. alpinum	20	\checkmark	FACU	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) <u>10m</u>		
		-			% Cover of Wetland Bryophytes (Where applicable)		
		•					
					10		
					Total Cover of Bryophytes _5		
		0					
10.	Total Cover:				Hydrophytic Vegetation		
	50% of Total Cover:		of Total Cover:	4	Present? Yes O No •		
					I		
Rem	arks: trace carex sp. (collected) carbig salret salala le	edec					

SOI	L

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features				cators)							
Depth (inches)							. 2	Texture	Remarks		
	Color (me	-	<u>%</u>	Color (moist)	%	Type ¹	Loc 2	Silt Loam	60% roots		
0-1	10YR	2/2						-			
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		
			· ·								
		-Doplatio		ced Matrix ² Location				nnal M-Matrix			
		=Depletio		Indicators for Pr		-					
Hydric Soil I						4					
	Histel (A1)			Alaska Color Ch		,		Alaska Gleyed Without H Underlying Layer	ue 5Y or Redder		
Histic Epip				Alaska Alpine s	-	-		Other (Explain in Remark	7c)		
	Sulfide (A4)				VIUI 2.51 I	nue			3)		
	Surface (A12	2)		³ One indicator of	hydrophy	tic vegetatic	on, one prim	nary indicator of wetland h	ydrology,		
Alaska Gle				and an appropriat	e landsca	pe position i	must be pre	esent			
Alaska Rec	yed Pores (A1	5)		⁴ Give details of co	olor chang	e in Remark	s				
Restrictive Laye	er (if present)	:									
Туре:								Hydric Soil Present	? Yes 🔾 No 🖲		
Depth (inch	nes):										
Remarks:											
>11 in large su	bang cobbles										
HYDROLO	GY										
Wetland Hyd	rology Indica	ators:						Secondary Indi	cators (two or more are required)		
Primary Indica	tors (any one	is sufficie	nt)					Water Stai	ned Leaves (B9)		
Surface W	/ater (A1)			Inundation V	isible on A	erial Image	ry (B7)	🗌 Drainage F	Patterns (B10)		
High Wate	er Table (A2)			Sparsely Veg	etated Co	ncave Surfa	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)		
Saturation	n (A3)			Marl Deposits	s (B15)			Presence of Reduced Iron (C4)			
	Water Marks (B1) Hydrogen Sulfide Odor (C1)					Salt Deposits (C5)					
	Deposits (B2)			Dry-Season V		. ,		Stunted or Stressed Plants (D1)			
Drift Depo	. ,	Other (Explain in Remarks)									
	or Crust (B4)								juitard (D3)		
Iron Depo	. ,								graphic Relief (D4)		
	oil Cracks (B6))						FAC-neutra	ıl Test (D5)		
Field Observa											
Surface Water	r Present?			Depth (inche	s):						
Water Table P	resent?	Yes () No 🖲	Depth (inche	s):		Wetlar	nd Hydrology Presen	t? Yes 🔾 No 🖲		
Saturation Pre (includes capil		Yes() No 🖲	Depth (inche	s):						
		eam gauge	e, monitor we	ell, aerial photos, prev	ious inspe	ection) if ava	ailable:				
Domorkov											
Remarks:											
Remarks:											