NATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project		orough/City:	Denali Bo	rough Sampling D	ate: 06-Aug-12	
Applicant/Owner: Alaska Energy Authority				Sampling Point:	SW12_T04_05	
Investigator(s): CTS, EKJ	L	andform (hil	lside, terrac	e, hummocks etc.): Ridgetop		
Local relief (concave, convex, none): convex		Slope:	%/ 10.4			
Subregion : Interior Alaska Mountains	Lat.: 6	3.45518820	 69	 Long.: -148.661295189	Datum: NAD83	
Soil Map Unit Name:				NWI classification: U		
Are climatic/hydrologic conditions on the site typical for this t	ime of vear?	Yes	• No ()	(If no, explain in Remarks.)		
Are Vegetation , Soil , or Hydrology	significantly	disturbed?	Are "N		Yes No	
SUMMARY OF FINDINGS - Attach site map sho			,		,	
Hydrophytic Vegetation Present? Yes O No				· ·		
Hydric Soil Present? Yes O No	npled Area					
Wetland Hydrology Present? Yes O No		w	ithin a W	/etland? Yes 🔾 No 🖲		
Remarks: Top of esker						
			1.1			
VEGETATION - Use scientific names of plants. L	ist all spec	<u>les in the</u>		Dominance Test worksheet:		
Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species		
1.	0		Status	That are OBL, FACW, or FAC:	(A)	
2.	0			Total Number of Dominant) (P)	
3.	0			Species Across All Strata:	<u>2</u> (B)	
4.	0			Percent of dominant Species That Are OBL, FACW, or FAC:	0.0% (A/B)	
5.	0			Prevalence Index worksheet:		
Total Cover					tiply by:	
Sapling/Shrub Stratum 50% of Total Cover:	0 20% c	of Total Cover	:		1 = 0	
1. Arctous alpinus	30	\checkmark	FACU		2 = 6	
Arctous alpinus Loiseleuria procumbens	30		FACU		3 = 126.6	
3. Empetrum nigrum	15		FAC		4 = 240	
4. Vaccinium uliginosum	15		FAC	UPL Species 2 x	5 = 10	
5. Betula nana	10		FAC	Column Totals: 107.2 (/	A) <u>382.6</u> (B)	
6. Rhododendron tomentosum	3		FACW			
7. Salix stolonifera	1		UPL	Prevalence Index = B/A =	3.569	
8. Betula glandulosa	1		FAC	Hydrophytic Vegetation Indicator	rs:	
9. Vaccinium vitis-idaea	0.1		FAC	Dominance Test is > 50%		
10. Dryas ajanensis	0.1		FAC	Prevalence Index is ≤ 3.0		
Total Cover Herb Stratum 50% of Total Cover:		of Total Cove	r: <u>21.04</u>	Morphological Adaptations ¹ (Pro Remarks or on a separate sheet	ovide supporting data in)	
1. Carex microchaeta	1		FAC	Problematic Hydrophytic Vegeta	tion ¹ (Explain)	
2. Anthoxanthum monticola ssp. alpinum	1		UPL	¹ Indicators of hydric soil and wetland	hydrology must	
3	0			be present, unless disturbed or probl	ematic.	
4				Plot size (radius, or length x width)	_10m	
5				% Cover of Wetland Bryophytes	0	
6	-			(Where applicable)	_	
7				% Bare Ground	50	
8				Total Cover of Bryophytes	2	
9	- 0					
10				Hydrophytic Vegetation		
50% of Total Cover:		of Total Cover	:0.4	Present? Yes O No	, •	

Remarks: Dialap = 0.1 cover. no dominant herbs as total herb cover <5%.

SOIL								Samplin	g Point: SW12_T04_05
Profile Descripti	•		needed to docu	ment the indicator or co			cators)		
Depth		Matrix		Re	dox Feat			-	
(inches)	Color (m		%	Color (moist)	%	Type ¹	_ Loc ²	Texture	Remarks
0-6	10YR	3/4	90					Sand	coarse sand to rounded gravel
6-15	10YR	3/3	60					Sand	coarse sand to rounded gravel
15-20	10YR	3/3	100					Coarse Sand	_ sub angular coarse sand
		Daplation		ed Matrix ² Locatio		- Lining D			
		=Depieuoi	1. RM=Reduc			-		annei. M=Matrix	
Histic Epip Hydrogen Thick Dark Alaska Gle	Histel (A1) edon (A2) Sulfide (A4) Surface (A12 yed (A13)	2)		Indicators for P Alaska Color C Alaska Alpine Alaska Redox One indicator o and an appropria	Change (TA swales (TA With 2.5Y f hydrophy	(4) ⁴ (5) Hue (tic vegetatio	on, one prir	Alaska Gleyed Without H Underlying Layer Other (Explain in Remar mary indicator of wetland esent	rks)
Alaska Rec	lox (A14) yed Pores (A1	5)		⁴ Give details of o	color chang	ge in Remar	ks		
Restrictive Laye Type: Depth (inch	er (if present)							Hydric Soil Present	t? Yes 🔿 No 🖲
no hydric soil in	ndicators								
HYDROLO									
Wetland Hydrology Indicators: Primary Indicators (any one is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)			 Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Other (Explain in Remarks) 				Secondary Indicators (two or more are required) Water Stained Leaves (B9) Drainage Patterns (B10) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Salt Deposits (C5) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-neutral Test (D5)		
Surface Water Water Table P Saturation Pre (includes capil	Present? Present? Present?	Yes	 No ● No ● No ● No ● 	Depth (inch Depth (inch Depth (inch	es):		Wetla	nd Hydrology Presei	nt? Yes 🔿 No 🖲
		eam gauge	e, monitor we	ell, aerial photos, pre	evious insp	ection) if av	ailable:		
Remarks:									

no wetland hydrology indicators