WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Denali Bo	rough Sampling Date: 04-Aug-13							
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW13_T150_01							
Investig	gator(s): SLI, EAC	I	Landform (hills	side, terrac	e, hummocks etc.): Hillside							
Local r	elief (concave, convex, none): rolling		Slope:	% / 4.1	° Elevation: 759							
Subrea	ion : Interior Alaska Mountains	Lat: 6	63.335904241		Long.: -148.282735826 Datum: NAD83							
_	p Unit Name:		33.333334241		NWI classification: Upland							
	natic/hydrologic conditions on the site typical for this ti	ma af vaar) Voc	● No ○	(If no, explain in Remarks.)							
Are V	egetation , Soil , or Hydrology egetation , Soil , or Hydrology	significantly	disturbed?	Are "N (If nee	ormal Circumstances" present? Yes No O ded, explain any answers in Remarks.)							
	Hydrophytic Vegetation Present? Yes 🏵 No 🤇		la.	the Com	wlad Area							
	Hydric Soil Present? Yes No				pled Area etland? Yes ○ No ◉							
Wetland Hydrology Present? Yes ○ No ● within a Wetland? Yes ○ No ●												
Remarks: rolling fnwws w birch-lichen understory. gray jay, olve-sided flycatcher, white-winged crossbills, chickadees. /EGETATION - Use scientific names of plants. List all species in the plot.												
		Absolute	Dominant	Indicator	Dominance Test worksheet:							
	e Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)							
	Picea glauca		✓	FACU	Total Number of Dominant							
2.					Species Across All Strata:3 (B)							
3. 4.		0 0			Percent of dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)							
5.		0										
0.	Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by:							
Sap	ling/Shrub Stratum 50% of Total Cover:		of Total Cover:	2	0.01 0							
-			_		OBL Species 0 x1 = 0 FACW Species 10 x2 = 20							
	Betula glandulosa	40	✓	FAC	FAC Species 106 x 3 = 318							
	Vaccinium uliginosum Empetrum nigrum	20		FAC FAC	FACU Species 10.2 x 4 = 40.80							
4.	Vaccinium vitis-idaea	10	П	FAC	UPL Species 0 x 5 = 0							
5.	Rhododendron tomentosum	10		FACW								
6.	Spiraea stevenii	0.1		FACU	Column Totals: <u>126.2</u> (A) <u>378.8</u> (B)							
7.		0			Prevalence Index = B/A = 3.002							
8.		0			Hydrophytic Vegetation Indicators:							
9.		0			✓ Dominance Test is > 50%							
10.		0			Prevalence Index is ≤3.0							
	Total Cover		of Total Cover	. 22.02	Morphological Adaptations ¹ (Provide supporting data in							
	b Stratum 50% of Total Cover:		or rotal cover		Remarks or on a separate sheet)							
	Anthoxanthum monticola ssp. alpinum	0.1		UPL	Problematic Hydrophytic Vegetation ¹ (Explain)							
	Cornus suecica			FAC	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.							
			П									
					Plot size (radius, or length x width) <u>10m</u>							
_		0			% Cover of Wetland Bryophytes (Where applicable)							
					% Bare Ground7							
					Total Cover of Bryophytes 25							
		0			Hydrophytic							
	Total Cover				Vegetation							
	50% of Total Cover:	0.55 20%	of Total Cover:	0.22	Present? Yes No							
Rem	arks: 65% lichen cover including stereocaulon, clade <5%.	onia, cladina	a, masonhallia	richardson	ii, cetraria, lobaria. no dominant herbs as total herb cover							

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SOIL Sampling Point: SW13_T150_01

Profile Descript	ion: (Describe to t	the depth n	eeded to doc	ıment the inc	dicator or conf	firm the ab	sence of indic	ators)			
Depth		1atrix			Red	ox Featu			_		
(inches)	Color (mo	ist)	%	Color (n	noist)	%	Type ¹	_Loc_2	Texture	Remarks	
0-3	5YR	2.5/2	100						fibric organics	-	
3-4	10YR	4/1	100						Coarse Sandy Loam		
4-18	10YR	4/2	50	5Y	4/2	40	С	М	Loam		
+mottle				5YR	3/4	10				incipient spodosol?	
					· _ · _ ·						
	-	·				-		-			
1					2						
*Type: C=Cor	ncentration. D=	Depletion	. RM=Redu						annel. M=Matrix		
Hydric Soil I	ndicators:				ors for Pro		4	oils:	7		
Histosol or	r Histel (A1)				ka Color Cha		-	L	Alaska Gleyed Without H Underlying Layer	ue 5Y or Redder	
	pedon (A2)				ka Alpine sv	•	•			m)	
	Sulfide (A4)			∐ Alas	ka Redox W	ith 2.5Y F	lue		Other (Explain in Remark	(5)	
l —	k Surface (A12)			³ One i	ndicator of h	nvdrophyt	ic vegetatio	n. one prir	mary indicator of wetland h	vdrology.	
Alaska Gle					appropriate					,,,,,,	
Alaska Red	. ,	->		4 Give	details of col	or change	e in Remark	S			
Alaska Gle	eyed Pores (A15	•)									
Restrictive Laye	er (if present):										
Type:									Hydric Soil Present	? Yes O No 💿	
Depth (inch	nes):										
Remarks:											
no hydric soil ir	ndicators										
HYDROLO	GY										
Wetland Hyd		tors:							Secondary Indi	cators (two or more are required)	
_	ators (any one i		t)							ned Leaves (B9)	
Surface W	Vater (A1)			☐ In	undation Vis	sible on A	erial Imagei	ry (B7)	☐ Drainage F	Patterns (B10)	
High Wate	er Table (A2)				arsely Vege		_		Oxidized Rhizospheres along Living Roots (C3)		
Saturation (A3)					arl Deposits			,		of Reduced Iron (C4)	
☐ Water Ma	ırks (B1)			Hydrogen Sulfide Odor (C1)					☐ Salt Depos	its (C5)	
Sediment Deposits (B2)					y-Season W				☐ Stunted or	Stressed Plants (D1)	
Drift Deposits (B3)					-				Geomorph	ic Position (D2)	
☐ Drift Deposits (B3) ☐ Other (Explain in Remarks) ☐ Algal Mat or Crust (B4)								Shallow Ac	juitard (D3)		
☐ Iron Deposits (B5) ☐ Microtopographic Relief (D4)											
	oil Cracks (B6)									Il Test (D5)	
Field Observa	ations:										
Surface Water	r Present?	Yes C	No 💿	De	epth (inches):					
Water Table F	Present?	Yes C	No 💿	D	epth (inches	١.		Wetla	nd Hydrology Presen	t? Yes ○ No •	
Saturation Pre			No ●			•			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
(includes capi		Yes C	NO S	De	epth (inches):					
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Downston.											
Remarks:											
no wetland hyd	drology indicato	ors									

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