WETLAND DETERMINATION DATA FORM - Alaska Region

Lat:	Project/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 29-Aug-15			
Landlorm (hillside, lerrace, hummocks etc.) Hillside	Applicant/Owner: Alaska Energy Authority				Sampling Point: SW15_T341_01			
Lat: Long: Datum: WGS84		illside, terrac						
New Junit Name New	Local relief (concave, convex, none): flat		Slope: 1.	7 % / 1.0) ° Elevation:			
New Junit Name: New Junit	Subregion : Interior Alaska Mountains	Lat.:			Long.: Datum: WGS84			
Assolute Command Com					•			
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No So Is the Sampled Area within a Wotland? Yes No So Welland Hydrology Present? Yes No So Within a Wotland? Yes No So Welland Hydrology Present? Yes No So Within a Wotland? Yes No So Welland Hydrology Present? Yes No So So No	Are climatic/hydrologic conditions on the site typical for this t Are Vegetation . Soil . , or Hydrology .	significar	ntly disturbed?	Are "N	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○			
Hydrophytic Vegetation Present? Yes		-						
Hydric Soil Present?								
Wetland Hydrology Present? Yes		\supset	Į:					
Remarks: unique photo signature likely related to high cover of feathermoss and Rubus chamaemorus		\supset	V	within a Wetland? Yes ● No ○				
Tree Stratum		er of featl	hermoss and R	Rubus chamae	emorus			
1.	·	Absolut	te Dominant	Indicator				
2.		% Cove	er Species?	Status				
3		_	_					
Total Cover: Sapling / Shrub Stratum								
Total Cover:	4							
Sapling/Shrub Stratum	5				Prevalence Index worksheet:			
1. Vaccinium uliginosum 50	Total Cover				Total % Cover of: Multiply by:			
2. Vaccinium vitis-idaea 10	Sapling/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cove	er: <u>0</u>	OBL Species <u>0</u> x 1 = <u>0</u>			
Section Sec	Vaccinium uliginosum	50	~	FAC	FACW Species <u>27</u> x 2 = <u>54</u>			
Spirace a stevenii Spirac	Vaccinium vitis-idaea	10		FAC				
Spirace stevenii 3	Rhododendron tomentosum	7		FACW				
6.	Empetrum nigrum	5	_ 📙	FAC	UPL Species <u>0</u> x 5 = <u>0</u>			
Prevalence Index = B/A = 2.782	5. Spiraea stevenii	3	_	FACU	Column Totals: <u>110</u> (A) <u>306</u> (B)			
Total Cover: 15			-		Prevalence Index = B/A = 2 782			
9.			-					
Total Cover:75			-					
Herb Stratum			- =					
Herb Stratum 50% of Total Cover: 37.5 20% of Total Cover: 15 Remarks or on a separate sheet 15 15 Remarks or on a separate sheet 15 15 Remarks or on a separate sheet 15 15 15 15 15 15 15 1			_					
2. Carex bigelowii 3. 0				er: <u>15</u>				
3.	Rubus chamaemorus	20		FACW	Problematic Hydrophytic Vegetation (Explain)			
10.			_ =	FAC				
Plot size (radius, or length x width) 10m					pe present, unless disturbed or problematic.			
6.			_ =		Plot size (radius, or length x width)			
7.			_ =					
8.								
9			- =					
10			-		Total Cover of Bryophytes			
Total Cover: 35 Vegetation Present? Yes No					Hydronhytic			
50% of Total Cover: 17.5 20% of Total Cover: 7 Present? Yes No		r: 35	_		Vegetation			
Remarks: low herbaceous diversity, non-vasculars diverse and abundant			_	er:	Present? Yes No			
					1			

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SOIL Sampling Point: SW15_T341_01

Profile Descript	ion: (Describe to	the depth n	eeded to docur	nent the indicator or co	nfirm the ab	sence of indic	ators)	-	10mc. 5w15_1541_61
Depth		Matrix			dox Featu			-	
(inches)	Color (m	oist)	%	Color (moist)	<u>%</u>	Type ¹	<u>Loc</u> ²	Texture	Remarks
0-3			100					Fibric Organics	
3-10			100					Hemic Organics	
10-13	10YR	3/6	100					Sandy Loam	very fine, w some organic inclusions
13-18			100					Hemic Organics	
					-				
¹Type: C=Co	ncentration. D	=Depletion	. RM=Reduce	ed Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix	
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	c Hydric So	oils: ³		
✓ Histosol o				Alaska Color Cl		4		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epip	pedon (A2)			Alaska Alpine s	wales (TA	5)		Underlying Layer	
Hydrogen	Sulfide (A4)			Alaska Redox V	Nith 2.5Y I	Hue		Other (Explain in Remark	rs)
Thick Darl	k Surface (A12	2)		3 One indicator of	hydrophy	tic vogotatio	n one prim	nary indicator of wetland h	vidrology
Alaska Gle				and an appropriat					ydrology,
Alaska Re	• •			4 Give details of co	olor chang	e in Remark	s		
☐ Alaska Gle	eyed Pores (A1	15)				e iii reciidii			
Restrictive Laye	,	:							
Type: fros								Hydric Soil Present	? Yes ● No O
Depth (incl	hes): 18								
Remarks:									
HYDROLO	GY								
Wetland Hyd	rology Indic	ators:						Secondary Indi	cators (two or more are required)
Primary Indica	ators (any one	is sufficient	t)					Water Stair	ned Leaves (B9)
	Vater (A1)			Inundation V	isible on A	Aerial Image	ry (B7)		atterns (B10)
✓ High Wat	` ,			Sparsely Veg		ncave Surfac	ce (B8)		hizospheres along Living Roots (C3)
Saturation	` '			Marl Deposits	. ,				f Reduced Iron (C4)
☐ Water Ma				Hydrogen Su				☐ Salt Depos	
	Deposits (B2))		☐ Dry-Season \					Stressed Plants (D1)
☐ Drift Depo				Other (Explai	in in Rema	rks)			ic Position (D2)
	or Crust (B4)							✓ Shallow Aq	` '
Iron Depo	` '	``						✓ FAC-neutra	raphic Relief (D4)
Field Observa	ioil Cracks (B6)						Ŭ FAC-licuud	I lest (DS)
Surface Wate		Yes C	No ●	Depth (inche	e).				
Water Table F			No O		•		Wetlar	nd Hydrology Presen	t? Yes • No O
Saturation Pre				Depth (inche	•		W Cua.	na nyarology rieseli	tr res 🙂 no 🔾
(includes capi		Yes •	No O	Depth (inche	es): 3				
Describe Recor	rded Data (str	eam gauge,	, monitor wel	ll, aerial photos, pre	vious inspe	ection) if ava	ilable:		
Remarks:									

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