WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City	Matanusk	a-Susitna Borough Sampling Date: 04-Aug-13							
Applica	nt/Owner: Alaska Energy Authority		Sampling Point: SW13_T133_04									
Investig	gator(s): WAD, RWM	e, hummocks etc.): Hillside										
	elief (concave, convex, none): hummocky	° Elevation: 771										
	ion: Interior Alaska Mountains	l at ·	 62.9140672		Long.: -148.068331003 Datum: NAD83							
_	p Unit Name:	NWI classification: Upland										
		•			(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○							
		•	tly disturbed?		omai on amatanaca present:							
Ale v	egetation . , Soil . , or Hydrology	naturany	problematic?	(it nee	eded, explain any answers in Remarks.)							
SUMN	MARY OF FINDINGS - Attach site map show	wing sa	mpling poir	nt locations	s, transects, important features, etc.							
	Hydrophytic Vegetation Present? Yes No C)										
	Hydric Soil Present? Yes No •)		s the Sam								
	Wetland Hydrology Present? Yes O No @)	\	within a W	eliand? ies Unio U							
Rema												
VEGE	TATION - Use scientific names of plants. Li	st all sr	ecies in th	e plot.								
		Absolut			Dominance Test worksheet:							
Tree	e Stratum	% Cove			Number of Dominant Species							
1.	Picea glauca	30	✓	FACU	That are OBL, FACW, or FAC:3 (A)							
2.		0			Total Number of Dominant Species Across All Strata: 5 (B)							
3.					Percent of dominant Species							
4.		0			That Are OBL, FACW, or FAC: 60.0% (A/B)							
5.		0			Prevalence Index worksheet:							
	Total Cover	30_	_		Total % Cover of: Multiply by:							
Sap	ling/Shrub Stratum 50% of Total Cover:	15 20	% of Total Cov	er: <u>6</u>	OBL Species 1 x 1 = 1							
1.	Vaccinium uliginosum	45	✓	FAC	FACW Species 10 x 2 = 20							
2.	Retula glandulosa	35		FAC	FAC Species 118 x 3 = 354							
3.	Vaccinium vitis-idaea	10		FAC	FACU Species <u>34.1</u> x 4 = <u>136.4</u>							
4.	Salix pulchra	10		FACW	UPL Species <u>15</u> x 5 = <u>75</u>							
5.	Arctous ruber	5		FAC	Column Totals: <u>178.1</u> (A) <u>586.4</u> (B)							
6.	Rhododendron groenlandicum	5		FAC								
7.	Picea glauca	4		FACU	Prevalence Index = B/A = 3.293							
8.	Salix barclayi	_ 2		FAC	Hydrophytic Vegetation Indicators:							
9.		0	_ 📙		✓ Dominance Test is > 50%							
10.		0	_		Prevalence Index is ≤3.0							
	Total Cover				Morphological Adaptations 1 (Provide supporting data in							
_	b Stratum 50% of Total Cover:		_		Remarks or on a separate sheet)							
	Boykinia richardsonii			UPL	Problematic Hydrophytic Vegetation ¹ (Explain)							
2.	Equisetum arvense			FAC	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.							
3.	Calamagrostis canadensis Saussurea angustifolia		-	FAC FAC	be present, unless disturbed or problematic.							
4. 5.			-	OBL	Plot size (radius, or length x width)							
-	December 2	0.1	-	FACU	% Cover of Wetland Bryophytes							
	roa aipina				(Where applicable) % Bare Ground							
					Total Cover of Bryophytes							
					Total Covel of Disophytes							
		0			Hydrophytic							
	Total Cover	32.1	_		Vegetation							
	50% of Total Cover:1	-		er: <u>6.42</u>	Present? Yes No							
Rem	arks:											
Rem	arks:											

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SOIL Sampling Point: SW13_T133_04

		the depth ne	eded to docur	ment the indicator or co	nfirm the ab		cators)					
Depth Color (mois		ist)		Color (moist)	%			Texture	Remarks			
0-5		<u></u>	100	Color (moist)	_/0	Турс	<u>Loc</u> ²	Fibric Organics				
5-11			100					Hemic Organics				
		2/1			-							
11-13	10YR		100					Loamy Sand				
13-20	10YR	4/3	100					Sand				
							-					
			-		-		-					
¹ 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	r Histel (A1)			Alaska Color Cl	Alaska Color Change (TA4) Alaska Gleyed Without Hue 5Y or Redder							
Histic Epip	edon (A2)			Alaska Alpine s	wales (TA	5)		Underlying Layer				
Hydrogen	Sulfide (A4)			☐ Alaska Redox V	With 2.5Y H	lue		Other (Explain in Remark	s)			
Thick Dark	Surface (A12)			30 :	المراجعة المراجعة				advalant.			
Alaska Gle				and an appropriat	nyaropnyi te landscar	ne position i	must be prin	nary indicator of wetland h	ydrology,			
Alaska Red				4 Civo dotails of o	olor chang	, o in Domarl	,					
	eyed Pores (A15	5)		⁴ Give details of co	DIOF CHAIR	е ін кешаг	· ·					
Restrictive Laye	er (if present):											
Type:								Hydric Soil Present?	Yes ○ No •			
Depth (inch	nes):											
HYDROLO	GY											
Wetland Hydi	rology Indica	tors:						Secondary Indic	rators (two or more are required)			
Primary Indica	tors (any one i	s sufficient	:)					Water Stained Leaves (B9)				
Surface Water (A1)				Inundation V	isible on A	erial Image	ry (B7)	Drainage Patterns (B10)				
High Water Table (A2)				Sparsely Veg	etated Cor	ncave Surfa	ce (B8)	Oxidized R	nizospheres along Living Roots (C3)			
Saturation (A3)				Marl Deposits	s (B15)				Reduced Iron (C4)			
Water Marks (B1)				Hydrogen Su				Salt Deposi				
Sediment Deposits (B2)				☐ Dry-Season \					Stressed Plants (D1)			
☐ Drift Depo				Other (Explai	in in Rema	rks)			c Position (D2)			
Algal Mat or Crust (B4)								☐ Shallow Aq				
☐ Iron Depo	. ,							☐ Microtopog	raphic Relief (D4)			
Field Observa	oil Cracks (B6)							FAC-Heutra	Test (D5)			
Surface Water		Yes C	No •	Depth (inche	e).							
			No •		•		Watle.	nd Hadualana Busani	t? Yes O No 💿			
Water Table P		_	_	Depth (inche	es):		wetia	nd Hydrology Present	t? Yes U NO S			
Saturation Present? (includes capillary fringe) Yes No Depth					es):							
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												
no hydrology ir	ndicators obser	ved										
,												

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