WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 21-Jun-12			
Applica	nt/Owner: Alaska Energy Authority		Sampling Point: SW12_T32_07					
	gator(s): JGK	side, terrac	ee, hummocks etc.): Hillside					
_	elief (concave, convex, none): hummocky	° Elevation: 840						
	ion : Interior Alaska Mountains	Slope: 3.5 62.762289908	_	Long.: -148.337209973 Datum: WGS84				
_	p Unit Name:		02.702203300		NWI classification: PSS1B			
	natic/hydrologic conditions on the site typical for this tir	no of voor	yes	● No ○	(If no, explain in Remarks.)			
Are Vo	egetation , Soil , or Hydrology segetation , Soil , or Hydrology regetation , Soil . , or Hydrology regetation representation representations.	ignificantly aturally pr ving sam	/ disturbed? oblematic?	Are "N (If nee	lormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.)			
	Hydrophytic Vegetation Present? Yes No	pled Area						
	Hydric Soil Present? Yes No C		within a Wetland? Yes • No					
	Wetland Hydrology Present? Yes ◉ No C		VVI	Within a Wetland:				
VEGE	TATION -Use scientific names of plants. Li	st all spe	cies in the		Dominance Test worksheet:			
Tree	Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 5 (A)			
1.	Picea mariana	10	✓	FACW	That are OBL, FACW, or FAC:5(A) Total Number of Dominant			
2.		0			Species Across All Strata:5(B)			
3.		0			Percent of dominant Species			
4.					That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.					Prevalence Index worksheet:			
	Total Cover:	10	(T		Total % Cover of: Multiply by:			
Sapl	ling/Shrub Stratum 50% of Total Cover:	5 20%	of Total Cover:	2	OBL Species 0 x 1 = 0			
1.	Betula glandulosa	5		FAC	FACW Species 50 x 2 = 100			
2.	Salix richardsonii	30	✓	FACW	FACURE 68 x 3 = 204			
	Salix glauca	1		FAC	FACU Species 0 x 4 = 0			
	Alnus viridis ssp. crispa			FAC	UPL Species <u>0</u> x 5 = <u>0</u>			
	Salix reticulata	15		FAC	Column Totals: <u>118</u> (A) <u>304</u> (B)			
	Vaccinium uliginosum		✓	FAC	Prevalence Index = B/A =2.576_			
	Vaccinium vitis-idaea			FAC				
	Empetrum nigrum Ledum groenlandicum	5		FAC FAC	Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%			
10.				TAC	✓ Prevalence Index is ≤3.0			
	Total Cover: 50% of Total Cover:	83	of Total Cover	: 16.6	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
-	Equisetum pratense	10	✓	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)			
	Carex bigelowii		V	FAC	Indicators of hydric soil and wetland hydrology must			
	Caron Digeron	0			be present, unless disturbed or problematic.			
					Plot size (radius, or length x width)			
					% Cover of Wetland Bryophytes 5			
					(Where applicable)			
					% Bare Ground			
					Total Cover of Bryophytes 60			
			$\overline{\Box}$					
10.	Total Cover:		Hydrophytic Vegetation					
	50% of Total Cover:1		of Total Cover:	5	Present? Yes • No O			
Dom	arks: tr politic uply forth (collected) with the size!							
Rema	arks: tr polbis unk forb (collected) rubcha picgla							

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SOIL Sampling Point: SW12_T32_07

		ne depth nee	ded to docume	ent the indicator or co	onfirm the abs		cators)					
Depth (inches)	Color (mois	st)	%	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks			
0-12						.,,,,		Fibric Organics	from 8in dwn large cobbles obs >4in			
12-15								Hemic Organics				
									-			
¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix												
Hydric Soil I	ndicators:			Indicators for P	roblematio	Hydric So	oils: ³					
Histosol or	r Histel (A1)		[Alaska Color C	Alaska Color Change (TA4) Alaska Gleyed Without Hue 5Y or Redder							
✓ Histic Epip	edon (A2)		[Alaska Alpine swales (TA5) Underlying Layer								
Hydrogen	Sulfide (A4)		[Alaska Redox	With 2.5Y F	lue		Other (Explain in Remark	rs)			
☐ Thick Darl	Surface (A12)			2								
Alaska Gle	eyed (A13)			One indicator of and an appropria				nary indicator of wetland hesent	ydrology,			
Alaska Red	dox (A14)					•						
	eyed Pores (A15))		4 Give details of o	color change	e in Remark	KS					
Restrictive Laye	er (if present):											
Type:								Hydric Soil Present	? Yes • No O			
Depth (inch	nes):											
HYDROLO	GY											
Wetland Hyd	rology Indicat	ors:						Secondary Indi	cators (two or more are required)			
Primary Indica	itors (any one is	sufficient)						Water Stair	ned Leaves (B9)			
✓ Surface Water (A1)				☐ Inundation \	/isible on A	erial Image	ery (B7)	Drainage Patterns (B10)				
✓ High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)				Oxidized R	hizospheres along Living Roots (C3)			
Saturation (A3)				Marl Deposit	s (B15)				f Reduced Iron (C4)			
Water Marks (B1)				☐ Hydrogen Sulfide Odor (C1)				Salt Depos				
	Deposits (B2)			Dry-Season					Stressed Plants (D1)			
☐ Drift Depo				Uther (Expla	in in Rema	rks)			ic Position (D2)			
	or Crust (B4)								uitard (D3)			
☐ Iron Depo	` '								raphic Relief (D4)			
	oil Cracks (B6)							✓ FAC-neutra	I Test (D5)			
Field Observa		Yes	No O	Danth (in ab.	\- 2							
Surface Water				Depth (inche	es): 2							
Water Table F	Present?	Yes	No \bigcirc	Depth (inche	es): 7		Wetla	nd Hydrology Presen	t? Yes • No 🔾			
Saturation Pre (includes capi		Yes	No \bigcirc	Depth (inche	es): 3							
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks: surface water present up to 2in deep.												
surface water p	oresent up to 2i	n deep.										

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