WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 09-Jul-13							
Applica	ant/Owner: Alaska Energy Authority		Sampling Point: SW13_T110_04									
	gator(s): JER	e, hummocks etc.): Hillside										
	elief (concave, convex, none): convex		- Slope: 12.2									
	ijion : Interior Alaska Mountains	l at ·	62.763764262									
-		Lat	02.703704202									
	Soil Map Unit Name: NWI classification: Upland											
Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.												
Hydrophytic Vegetation Present? Yes No No												
	Hydric Soil Present? Yes ○ No ●)			pled Area etland? Yes ○ No ◉							
	Wetland Hydrology Present? Yes ○ No ●)	within a Wetland? Yes ○ No ●									
Remarks: side slope of small low ridge, patchy slobw/slobw												
VEGE	ETATION -Use scientific names of plants. Lis	st all sp	e Dominant	Indicator	Dominance Test worksheet:							
Tree	e Stratum	% Cove	r Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: (A)							
		0	_		Total Number of Dominant							
2.		0	-		Species Across All Strata: 6 (B)							
3. 4.		0	-		Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)							
5.		0	_ 📙		111at Ale OBL, FACW, 01 FAC. 100.0% (A/B)							
J.	Total Cover:		_ 🗀		Prevalence Index worksheet:							
San			– % of Total Cover:	0	Total % Cover of: Multiply by:							
Зар			or rotal cover.		OBL Species 0 x 1 = 0							
1.	Betula nana	5		FAC	FACW Species 23 x 2 = 46							
2.	Salix glauca	20		FAC	FAC Species 136 x 3 = 408 FACU Species 1 x 4 = 4							
	Salix pulchra	10	_	FACW								
4.	Vaccinium uliginosum	15		FAC								
5.	Vaccinium vitis-idaea	15		FAC	Column Totals: <u>160</u> (A) <u>458</u> (B)							
6.	Empetrum nigrum	36		FACW	Prevalence Index = B/A =							
_	Ledum decumbens Betula glandulosa	10 15		FAC	Hadarahata Varakatian Tadiankana							
8. 9.	Picea mariana	1	- 🖺	FACW	Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%							
	Salix arbusculoides	2	-	FACW	✓ Prevalence Index is ≤3.0							
	Total Cover: b Stratum 50% of Total Cover:	129	_		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)							
-	0	25		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)							
	Cornus suecica Carex bigelowii		- 🖺	FAC	Indicators of hydric soil and wetland hydrology must							
			-		be present, unless disturbed or problematic.							
٠.			-	17100								
			- 🗀	-								
					<u></u>							
		0			Hydrophytic							
	Total Cover:				Vegetation							
	50% of Total Cover:1	5.5 209	% of Total Cover:	6.2	Present? Yes ♥ No ∪							
4. 5. 6. 7. 8. 9.	Total Cover:	0 0 0 0 0 0 0 0 31 1.5.5 209	% of Total Cover:		be present, unless disturbed or problematic. Plot size (radius, or length x width) 10m							

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SOIL Sampling Point: SW13_T110_04

Profile Descript	ion: (Describe to	the depth ne	eded to docu	ment the indicator or co	onfirm the at	osence of indic	ators)	-	10mc. 5415_1115_64		
Depth		Matrix		Re	dox Featı						
(inches)	Color (me	oist)	<u>%</u>	Color (moist)	_%_	Type ¹	Loc ²	Texture	Remarks		
0-3			100					Fibric Organics			
3-7			100					Fibric Organics	hemic w a poss tephra 10yr 4/2		
7-13	10YR	3/6	100					Sandy Loam			
-											
¹Type: C=Cor	ncentration. D	=Depletion.	. RM=Reduc	ced Matrix ² Location	n: PL=Por	re Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pr	roblemati	ic Hydric So	oils: ³		·		
Histosol or	r Histel (A1)			Alaska Color Cl	hange (TA	4)		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip	pedon (A2)			Alaska Alpine s	wales (TA	.5)		Underlying Layer	nderlying Layer		
Hydrogen	Sulfide (A4)			Alaska Redox V	With 2.5Y	Hue		Other (Explain in Remark	rs)		
Thick Dark	k Surface (A12	<u>?</u>)		3.0	5 la				doala.a.		
Alaska Gle	eyed (A13)			and an appropriat				nary indicator of wetland h esent	lydrology,		
Alaska Red	` ,			4 Give details of co	olor chanc	 10 in Domark					
☐ Alaska Gle	eyed Pores (A1	.5)		- Give details of C	olor chang	je ili Kelliaik	.5				
Restrictive Laye	er (if present):	:									
Type: fros	st .							Hydric Soil Present	? Yes ○ No ⊙		
Depth (inch	nes): 13										
Remarks:											
no hydric soil indicators											
HYDROLO	GY										
Wetland Hyd	rology Indica	ators:						Secondary Indi	cators (two or more are required)		
Primary Indica	tors (any one	is sufficient	:)					Water Stair	ned Leaves (B9)		
Surface W	Vater (A1)			☐ Inundation V	/isible on A	Aerial Image	ry (B7)	(B7) Drainage Patterns (B10)			
High Water Table (A2)			Sparsely Veg	jetated Co	ncave Surfac	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)			
Saturation (A3)			Marl Deposits	. ,			Presence o	f Reduced Iron (C4)			
	Water Marks (B1)			Hydrogen Su	ılfide Odor	(C1)		☐ Salt Depos	its (C5)		
	Deposits (B2))		Dry-Season \					Stressed Plants (D1)		
☐ Drift Depo				Other (Expla	in in Rema	arks)			ic Position (D2)		
	or Crust (B4)								juitard (D3)		
Iron Depo		_							graphic Relief (D4)		
	oil Cracks (B6))					1	☐ FAC-neutra	ll Test (D5)		
Field Observa Surface Water		Vac (No •	Donth (inche	1.						
				Depth (inche	,		***-*1		v		
Water Table F			No •	Depth (inche	es):		Wetiar	nd Hydrology Presen	t? Yes ○ No •		
Saturation Pre (includes capi	llary fringe)		No O	Depth (inche							
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											
lots of rain pro	bably causing	the saturati	ion, does no	ot appear to be assoc	ciated with	a water tab	le.				

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