WETLAND DETERMINATION DATA FORM - Alaska Region

ct/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	xa-Susitna Borough Sampling Date: 05-Aug-13			
ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T192_01			
		Landform (hillside, terrace, hummocks etc.): Knob					
"		Slope: % / 2.5 ° Elevation: 754					
	Lat· (
		33.320000030	<u> </u>				
		. V	N₂ ○	NWI classification: Upland			
	•			(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○			
	•			eded, explain any answers in Remarks.)			
			•	, ,			
MARY OF FINDINGS - Attach site map show	wing sam	pling point	locations	s, transects, important features, etc.			
Hydrophytic Vegetation Present? Yes O No @)	_					
Hydric Soil Present? Yes O No @		Is the Sampled Area					
		within a Wetland? Yes ○ No ●					
ETATION - Use scientific names of plants. Li	ist all spe	cies in the	plot.				
	•		•	Dominance Test worksheet:			
ee Stratum	% Cover	Species?	Status	Number of Dominant Species			
Picea glauca	_20	✓	FACU	That are OBL, FACW, or FAC: 2 (A)			
	0			Total Number of Dominant Species Across All Strata: 4 (B)			
				Percent of dominant Species			
	0			That Are OBL, FACW, or FAC: 50.0% (A/B)			
	0			Prevalence Index worksheet:			
Total Cover	<u>20</u>			Total % Cover of: Multiply by:			
pling/Shrub Stratum 50% of Total Cover:	10 20%	of Total Cover	4	OBL Species x 1 =0			
Betula nana	25	✓	FAC	FACW Species <u>15.1</u> x 2 = <u>30.20</u>			
Vaccinium uliginosum	30	✓	FAC	FAC Species <u>81</u> x 3 = <u>243</u>			
Vaccinium vitis-idaea	10		FAC	FACU Species 31.1 x 4 = 124.4			
Rhododendron tomentosum	15		FACW	UPL Species 0 x 5 = 0			
Empetrum nigrum	15		FAC	Column Totals: <u>127.2</u> (A) <u>397.6</u> (B)			
	0						
	0			Prevalence Index = B/A =3.126_			
				Hydrophytic Vegetation Indicators:			
	0			Dominance Test is > 50%			
	0			Prevalence Index is ≤3.0			
		of Total Cover	. 10	Morphological Adaptations ¹ (Provide supporting data in			
		or rotal cover		Remarks or on a separate sheet)			
De Parita de Laborado do o				Problematic Hydrophytic Vegetation (Explain)			
Cornus canadanais	10			Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
				25 presently arriess disturbed of problematic.			
I according to the set of				Plot size (radius, or length x width)			
<u>, , , , , , , , , , , , , , , , , , , </u>			1,400	% Cover of Wetland Bryophytes			
				(Where applicable) % Bare Ground 0			
		$\overline{\Box}$		Total Cover of Bryophytes			
	U						
	0			Hydronhytic			
				Hydrophytic Vegetation Present? Yes No No			
	tigator(s): CTS, AMD relief (concave, convex, none): convex region: Interior Alaska Mountains lap Unit Name: imatic/hydrologic conditions on the site typical for this ti Vegetation , Soil , or Hydrology Vegetation , Soil , or Hydrology Vegetation	ant/Owner: Alaska Energy Authority tigator(s): CTS, AMD relief (concave, convex, none): convex gion: Interior Alaska Mountains lap Unit Name: imatic/hydrologic conditions on the site typical for this time of year' Vegetation	ant/Owner: Alaska Energy Authority tigator(s): CTS, AMD	cant/Owner: Alaska Energy Authority tigator(s): CTS, AMD			

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SOIL Sampling Point: SW13_T192_01

JUIL								Samping	Point: 3W13_1192_01		
Profile Description			eeded to docu	ıment the indicator or cor			ators)				
Depth —		Matrix		Redox Features							
(inches)	Color (moi	ist)	%	Color (moist)	%	Type ¹	_ Loc _2	Texture	Remarks		
0-2			100					Organic hemic			
2-6	10YR	2/2	100					Silt Loam			
6-9	10YR	4/6	100					Silt Loam			
9-17	2.5Y	4/2	100					Sandy Loam			
17-20	2.5Y	4/3	100					Silt Loam			
¹Type: C=Con	centration. D=	Depletion	. RM=Redu	ced Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil In	ndicators:			Indicators for Pr	oblemati	c Hydric So	oils:				
Histosol or	Histel (A1)			Alaska Color Ch	nange (TA	4) ⁴		Alaska Gleyed Without Hu	e 5Y or Redder		
Histic Epip	edon (A2)			Alaska Alpine swales (TA5)				Underlying Layer			
Hydrogen	Sulfide (A4)			Alaska Redox V	Vith 2.5Y I	Hue	Ш	Other (Explain in Remarks)			
	Surface (A12)			3 One indicator of	hydrophyd	tic vegetatio	n one prim	nary indicator of wetland hy	rdralogy		
Alaska Gle				and an appropriat					urology,		
Alaska Red	, ,			4 Give details of co	olor chang	e in Remark	:S				
☐ Alaska Gle	yed Pores (A15)			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
Restrictive Laye	r (if present):										
Type:								Hydric Soil Present?	Yes ○ No •		
Depth (inch	es):										
Remarks:											
no hydric soil in	dicators										
HYDROLO											
Wetland Hydr									ators (two or more are required)		
Primary Indicat		s sufficien	t)				(07)		ed Leaves (B9)		
Surface W	. ,			Inundation V		_		·			
	☐ High Water Table (A2) ☐ Sparsely Vegetated Concave Surface (B8) ☐ Saturation (A3) ☐ Marl Deposits (B15)						æ (B8)	Presence of Reduced Iron (C4)			
Water Mai	. ,				` '	(C1)		Salt Deposits (C5)			
	Water Marks (B1)☐ Hydrogen Sulfide Odor (C1)☐ Sediment Deposits (B2)☐ Dry-Season Water Table (C2)							Stunted or Stressed Plants (D1)			
☐ Drift Depo				Other (Explai					Position (D2)		
	or Crust (B4)					-,		Shallow Aqu			
☐ Iron Depo	sits (B5)							Microtopogr	aphic Relief (D4)		
Surface So	oil Cracks (B6)							☐ FAC-neutral	Test (D5)		
Field Observa	tions:										
Surface Water	Present?	_	No 💿	Depth (inche	s):						
Water Table P	resent?	Yes C	No 💿	Depth (inche	s):		Wetlar	nd Hydrology Present	? Yes O No 💿		
Saturation Pre (includes capil		Yes C	No 💿	Depth (inche	s):						
		am dalide	monitor w	ell, aerial photos, prev	inus insne	ection) if ava	ilable:				
Describe Record	aca Data (stree	am gauge,	, inomicor w	en, dendi priotos, pret	nous mape	ction) ii ave	madic.				
Remarks:											
no wetland hyd	rology indicato	rs									
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