WETLAND DETERMINATION DATA FORM - Alaska Region

Project	Site: Susitna-Watana Hydroelectric Project		Bo	orough/City:	Matanusk	a-Susitna Borough Sampling Date:23-Aug-15
Applica	nt/Owner: Alaska Energy Authority					Sampling Point: SW15_T307_09
	ator(s): WAD. SCB		I	Landform (hills	side, terrac	e, hummocks etc.): Footslope
	elief (concave, convex, none): hummocky			Slope: 14.0		,
	ion: Interior Alaska Mountains	Le	 nt.:			Long.: Datum: WGS84
		LC	···· —			
	o Unit Name:				<u> </u>	NWI classification: Upland
	natic/hydrologic conditions on the site typical for this		-		● No ○	(If no, explain in Remarks.)
	egetation U , Soil U , or Hydrology U	-	-	disturbed?		ormal Circumstances" present? Yes ● No ○
Are V	egetation 🔲 , Soil 🔲 , or Hydrology 🔲	natura	lly pro	oblematic?	(If nee	ded, explain any answers in Remarks.)
SUMN	IARY OF FINDINGS - Attach site map sho	wing	sam	pling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes No	$\overline{}$				
	, , , , ₀			Is	the Sam	pled Area
	·· , ·······	_			thin a W	-
		-		l l		
Rema	rks: Small convex rollover					
/ECE	TATION Has estantific manner of plants H	الماد:		-::	-1-4	
VEGE	TATION -Use scientific names of plants. I	ist all	spe	cies in the	piot.	
		Abso		Dominant		Dominance Test worksheet:
	Stratum	<u> % C</u>		Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)
	Picea mariana		2		FACW	Total Number of Dominant
2.			0			Species Across All Strata: (B)
3.			0			Percent of dominant Species
4.			0			That Are OBL, FACW, or FAC: 100.0% (A/B)
5.	Tatal Caus		0			Prevalence Index worksheet:
	Total Cove		200/	of Total Covers		Total % Cover of: Multiply by:
Sapi	ing/Shrub Stratum 50% of Total Cover:	_1	20%	of Total Cover:	0.4	OBL Species <u>0</u> x 1 = <u>0</u>
1.	Betula glandulosa		30	✓	FAC	FACW Species <u>27</u> x 2 = <u>54</u>
2.	Vaccinium uliginosum	_	20_	✓	FAC	FAC Species <u>62</u> x 3 = <u>186</u>
3.	Rhododendron tomentosum		15		FACW	FACU Species <u>0.2</u> x 4 = <u>0.800</u>
4.	Picea mariana		10		FACW	UPL Species <u>0</u> x 5 = <u>0</u>
5.	Empetrum nigrum	_	5		FAC	Column Totals: <u>89.2</u> (A) <u>240.8</u> (B)
	Vaccinium vitis-idaea		5		FAC	Prevalence Index = B/A =2.700_
	Rhododendron groenlandicum		2		FAC	
	Spiraea stevenii		0.1		FACU	Hydrophytic Vegetation Indicators:
		-	0			✓ Dominance Test is > 50%
10.			0		FACU	✓ Prevalence Index is ≤3.0
Harl	Total Cove Stratum_ 50% of Total Cover: _		7.1_ 20%	of Total Cover	17.42	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
	Lyconodium clayotum				FACU	Problematic Hydrophytic Vegetation (Explain)
			0.1		FACU	
			0			Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
			0			
			0			Plot size (radius, or length x width) 10m
_			0			% Cover of Wetland Bryophytes (Where applicable)
			0			` '' '
			0			% Bare Ground 5 Total Cover of Bryophytes 25
			0			rotal cover of bryophytes
			0			Hydrophytic
	Total Cove	 r: (0.1	_		Vegetation
	50% of Total Cover:	_		of Total Cover:	0.02	Present? Yes No
Dozz	orker alaba with anthough at a control to			التحديد المسمالة	F0/ +	l savan fan hath tuas and hank stort oo the same
Rema						al cover for both tree and herb stratum, thus no tree or

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SOIL Sampling Point: SW15_T307_09

OPERATION OF Color (moist) OPERATION OF Color (moist) OPERATION OF CONTROL (Moist) OPERATION	<i></i> : .		ne depui ne 1atrix	eded to docur	nent the inc	licator or cor Red	firm the abs		cators)		
2-3 SYR 4/2 100 Send elevisted layer 6-10 10YR 4/2 95 7.5YR 4/6 5 C M Loamy Sand		color (mo	ist)	%	Color (m	oist)	%	Type ¹	Loc ²	Texture	Remarks
3.6 2.5YR 2.5/3 100 6-10 10YR 4/2 95 7.5YR 4/6 5 C M Lamy Sand	0-2			100						Fibric Organics	
3-6 2.5YR 2.5/3 100 6-10 10YR 4/2 95 7.5YR 4/6 5 C M Lamy sard	2-3 !	SYR	4/2	100					-	Sand	eluviated layer
6-10 10/R 4/2 95 7.5YR 4/6 5 C M Loamy Sand 1 Type: C=Concentration, D=Depletion, RM=Reduced Matrix 2 Location: PL=Pere Lining, RC=Root Channel, M=Matrix 1 Hydric Soil Indicators: Indicators for Problematic Hydric Soils? Alaska Gloyed Without Hue SY or Redder Underlying Layer Alaska Gloyed Matrix 2 Location: PL=Pere Lining, RC=Root Channel, M=Matrix 1 Histosio or Histel (A1) Alaska Gloyed Matrix 2 Location: PL=Pere Lining, RC=Root Channel, M=Matrix 1 Histosio or Histel (A1) Alaska Gloyed Without Hue SY or Redder Underlying Layer Alaska Redox With Locations (TA5) Onderlying Layer Other (Explain in Remarks) 1 Alaska Gloyed (A13) Alaska Redox With Locations (TA5) Onderlying Layer Other (Explain in Remarks) 3 One indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, and an appropriate landscape position must be present 4 Give details of color change in Remarks Restrictive Layer (if present): Type:	3-6 2	5YR		100						Sand	,
Type: C=Concentration. D=Depletion. RM=Reduced Matrix Location: PL=Pore Lining, RC=Root Channel. M=Matrix Hydric Soil Indicators:					7 FVD	4/6					
Hydric Soil Indicators: Histosol or Histe (A1)	6-10 1	UYK	4/2	95	7.5YK	4/6			M	Loamy Sand	-
Hydric Soil Indicators: Histosol or Histe (A1)											
Hydric Soil Indicators: Histosol or Histe (A1)											
Hydric Soil Indicators: Histosol or Histe (A1)											
Histosol or Histel (A1)	¹Type: C=Concentra	ation. D=	Depletion.	RM=Reduce	ed Matrix	² Location	: PL=Pore	Lining. RC	=Root Cha	annel. M=Matrix	
Histosol or Histel (A1)	Hydric Soil Indica	tors:			Indicate	ors for Pro	oblematio	: Hvdric S	oils: ³		
Histic Epipedon (A2)								4	Г	Alaska Gleved Without H	ue 5Y or Redder
hydrogen Sulfide (A4)		. ,						-			de 31 of Redder
Thick Dark Surface (A12) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed Pores (A15) Alaska Gleyed Present? (A15) Alaska Gleyed Pores (A15) Alaska Gleyed Present? (A15) Alaska Gleyed Pores (A15) Alaska Gleyed Present? (A15) Alaska Gleyed Pre	_					•	•	•		Other (Explain in Remark	s)
Alaska Gleyed (A13)							2.5				•
Alaska Redox (A14) Alaska Gleyed Pores (A15) Restrictive Layer (if present): Type: Depth (inches): Remarks: angular cobbles below 10, no hydric soil indicators HYDROLOGY Wettand Hydrology Indicators: Primar Indicators (any one is sufficient) High Water Table (A2) High Water Table (A2) Sparsely Vegetated Concave Surface (B8) Sufface Water (A13) High Water Salined Leaves (B9) Saturation (A3) Hard Deposits (B15) Sediment Deposits (B2) Diff Deposits (B3) Diff Deposits (B4) Diff Cracks (B6) Remarks: Wetland Hydrology Indicators Secondary Indicators (two or more are required) Water Salined Leaves (B9) Water Salined Leaves (B9) Diff Deposits (B15) Diff Deposits (B2) Diff Deposits (B2) Diff Deposits (B3) Diff Deposits (B3) Diff Deposits (B3) Diff Deposits (B4) Diff Deposits (B4) Diff Deposits (B5) Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: Remarks:		, ,									ydrology,
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Remarks: angular cobbles below 10, no hydric soil indicators HYDROLOGY Wetland Hydrology Indicators:	* *									Hydric Soil Present	? Yes ∪ No ⊕
HYDROLOGY Wetland Hydrology Indicators:	Depar (menes):										
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