WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitn	a-Watana Hydroelectric Project	Bo	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 23-Aug-15
Applicant/Owner: Al	aska Energy Authority				Sampling Point: SW15_T310_06
nvestigator(s): BAI		L	_andform (hill	side, terrac	e, hummocks etc.): backslope
Local relief (concave,	convex, none): hummocky		Slope: 5.2	% / 3.0	° Elevation:
Subregion: Interior A		Lat.:			Long.: Datum: WGS84
Soil Map Unit Name:	identa informanio				NWI classification: PFO4B
-	conditions on the site typical for this	time of voor?) Vec	No ○	(If no, explain in Remarks.)
Are Vegetation	, Soil , or Hydrology	significantly			ormal Circumstances" present? Yes No
_	, Soil , or Hydrology , soil , or Hydrology	naturally pro			oma on ounce process.
Are Vegetation				·	ded, explain any answers in Remarks.)
SUMMARY OF FI	NDINGS - Attach site map she	owing sam	pling point	locations	s, transects, important features, etc.
Hydrophytic Ve	getation Present? Yes 🍑 No	\circ			
Hydric Soil Pre	sent? Yes No	\circ	Is	the Sam	pled Area
Wetland Hydro		0	w	ithin a W	etland? Yes No
Remarks:			ı		
VEGETATION - U	se scientific names of plants.	List all spe	cies in the	plot.	
	•	· · · ·			Dominance Test worksheet:
Tree Stratum		Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species
Picea mariana		50		FACW	That are OBL, FACW, or FAC:3(A)
2.					Total Number of Dominant Species Across All Strata: 4 (B)
3		0			Percent of dominant Species
1					That Are OBL, FACW, or FAC: 75.0% (A/B)
5.		0			Prevalence Index worksheet:
	Total Cove	er: <u>50</u>			Total % Cover of: Multiply by:
Sapling/Shrub Stra	tum 50% of Total Cover:	<u>25</u> 20% (of Total Cover	10	OBL Species 0 x 1 = 0
Spiraea stever	nii	25	✓	FACU	FACW Species 73 x 2 = 146
Picea mariana			✓	FACW	FAC Species 49 x 3 = 147
Salix pulchra				FACW	FACU Species 27 x 4 = 108
Vaccinium vitis				FAC	UPL Species 0 x 5 = 0
5. Empetrum nig				FAC	Column Totals: 149 (A) 401 (B)
6.					
					Prevalence Index = B/A = 2.691
8.		0			Hydrophytic Vegetation Indicators:
9.		0			✓ Dominance Test is > 50%
10.		0			✓ Prevalence Index is ≤3.0
	Total Cove 50% of Total Cover:		of Total Cover		Morphological Adaptations (Provide supporting data in
Herb Stratum	-				Remarks or on a separate sheet)
Cornus suecio				FACIA	Problematic Hydrophytic Vegetation (Explain)
2. Rubus chama				FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3. Petasites frigio		$-\frac{3}{3}$		FACW	be present, unless distarbed of problemade.
Equisetum syl Calamagrostis	aanadanaia			FAC FAC	Plot size (radius, or length x width) <u>10m</u>
 Calamagrostis Dryopteris exp 				FACU	% Cover of Wetland Bryophytes
, <u>, ,</u>				TACO	(Where applicable)
					% Bare Ground
			\Box		Total Cover of Bryophytes
					Hardan kati
	Total Cove		_		Hydrophytic Vegetation
	50% of Total Cover:		of Total Cover	11	Present? Yes • No ·
Remarks:					•
Remarks:					

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW15_T310_06

9-8 9-9 1-5 7-57K 3/2 70 7-57K 3/4 30 C M Rusky felt loam High selmed perturbation 15-15.5 57R 2.5/1 100 15-571 7-57K 3/2 70 7-57K 3/4 30 C M Rusky felt loam High selmed perturbation 15-15.5 57R 2.5/1 100 15-571 7-57K 2.5/2 85 7-57K 3/3 10 C PL SILLeam perturbation 15-571 7-57K 2.5/2 85 7-57K 3/3 10 C PL SILLeam perturbation 15-571 7-57K 2.5/2 85 7-57K 3/3 10 C PL SILLeam perturbation 15-571 7-57K 2.5/2 85 7-57K 3/3 10 C PL SILLeam perturbation 15-571 7-57K 2.5/2 85 7-57K 3/3 10 C PL SILLeam perturbation 15-571 7-57K 2.5/2 85 7-57K 3/3 10 C PL SILLeam perturbation 15-57K 3/2 5/2 85 7-57K 3/3 10 C PL SILLeam perturbation 15-57K 3/2 5/2 85 7-57K 3/3 10 C PL SILLeam perturbation 15-57K 3/2 5/2 85 7-57K 3/3 10 C PL SILLeam perturbation 15-57K 3/2 5/2 85 7-57K 3/3 10 C PL SILLeam perturbation 15-57K 3/2 5/2 85 7-57K 3/3 10 C PL SILLeam perturbation 15-57K 3/2 5/2 85 7-57K 3/3 10 C PL SILLeam perturbation 15-57K 3/2 5/2 85 7-57K 3/3 10 C PL SILLeam perturbation 15-57K 3/2 5/2 85 7-57K 3/3 10 C PL SILLeam perturbation 15-57K 3/2 5/2 85 7-57K 3/3 10 C PL SILLeam perturbation 15-57K 3/2 5/2 85 7-57K 3/3 10 C PL SILLeam perturbation 15-57K 3/2 5/2 85 7-57K 3/3 10 C PL SILLeam perturbation 15-57K 3/2 5/2 85 7-57K 3/3 10 C PL SILLeam perturbation 15-57K 3/2 5/2 85 7-57K 3/3 10 C PL SILLeam perturbation 15-57K 3/2 5/2 85 7-57K 3/3 10 C PL SILLeam perturbation 15-57K 3/2 5/2 85 7-57K 3/3 10 C PL SILLeam perturbation 15-57K 3/2 5/2 85 7-57K 3/3 10 C PL SILLeam perturbation 15-57K 3/2 5/2 85 7-57K 3/3 10 C PL SILLeam perturbation 15-57K 3/2 5/2 5/2 85 7-57K 3/3 10 C PL SILLeam perturbation 15-57K 3/2 5/2 5/2 85 7-57K 3/3 10 C PL PL SILLeam perturbation 15-57K 3/2 5/2 5/2 5/2 5/2 5/2 5/2 5/2 5/2 5/2 5	Depth (inches)	Color (m	nist)	%	Color (m	noist)	%	Type ¹	_Loc_2	Texture	Remarks
9-15 7-57K 3/2 70 7-57K 3/4 30 C M Mickly Sik Leam hob animal perturbation 15:15.5 5 7R 2.5/1 100 15:5-21 7-57K 2.5/2 85 7-57K 3/3 10 C PL Sik Leam patches of lepton patches	0-8							-7,5-		Peat	
15-15.5 SYR 2.5/1 100	8-9									Mucky Peat	
155-21 7.57R 2.5/2 85 7.57R 3/3 10 C PL Sit Losm patches of regime	9-15	7.5YR	3/2	70	7.5YR	3/4	30	С	М	Mucky Silt Loam	high animal perturbation
+mottle 2.5Y 4/2 5 D PL along root channels Type: C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining, RC=Root Channel. M=Matrix Vydric Soil Indicators: Indicators for Problematic Hydric Soils? Histosol or Histel (A1) Alaska Color Change (TA4) Underlying Layer Underly	15-15.5	5YR	2.5/1	100						Mucky Peat	charcoal from old fire
+motitie 2.5Y 4/2 5 D PL along root channels Type: C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining, RC=Root Channel. M=Matrix Verific Soil Indicators: Histosol or Histel (A1)	15.5-21	7.5YR	2.5/2	 85	7.5YR	3/3	10	С С	PL	Silt Loam	patches of tephra
Type: C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining, RC=Root Channel, M=Matrix Vidic Soil Indicators:											_
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Hydrogen Sulfide (A4)	_	, ,						-			
Alaska Gleyed (A13) Alaska Redox (A14) Alaska Gleyed Pores (A15) **Give details of color change in Remarks* **Hydric Soil Present?** **PROLOGY** **Etail Hydric Soil Present?** **Present Hydrology Indicators: **Imany Indicators (two or more are required) **Imany Indicators (any one is sufficient) **Imany Indicators (any o	=	Sulfide (A4)			Alask	ka Redox W	ith 2.5Y H	lue		Other (Explain in Rema	arks)
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□ Drift Deposits (B3) □ Other (Explain in Remarks) □ Geomorphic Position (D2) □ Shallow Aquitard (D3) □ Iron Deposits (B5) □ Microtopographic Relief (D4) □ Surface Soil Cracks (B6) □ FAC-neutral Test (D5) □ Surface Water Present? Yes ○ No ○ Depth (inches): Vater Table Present? Yes ○ No ○ Depth (inches): 24 □ Wetland Hydrology Present? Yes ○ No ○ Depth (inches): 7 □ Depth (inches): 7	YDROLO etland Hydr imary Indicat Surface W High Wate Saturation	GY rology Indictors (any one (ater (A1) er Table (A2)		t)	Spa	arsely Vege arl Deposits	tated Cor (B15)	ncave Surfac		Water St Drainage Oxidized Presence	ained Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C of Reduced Iron (C4)
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