WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 26-Aug-15
Applica	ant/Owner: Alaska Energy Authority		_		Sampling Point: SW15_T347_05
	gator(s): AFW		Landform (hill	side, terrac	e, hummocks etc.): Valley bottom
	relief (concave, convex, none): hummocky		Slope: 3.5		
	gion: Interior Alaska Mountains	Lat			Long.: Datum: WGS84
		Lat			
	p Unit Name:			<u> </u>	NWI classification: PSS1B
	matic/hydrologic conditions on the site typical for this t	•		● No ○	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○
		-	intly disturbed?		oma on ounce process.
Are \	'egetation ☐ , Soil ☐ , or Hydrology ☐	naturally	problematic?	(If nee	eded, explain any answers in Remarks.)
SUM	MARY OF FINDINGS - Attach site map sho	wing s	ampling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes No)			
			Is	the Sam	pled Area
	,		w	ithin a W	etland? Yes ● No ○
Dom	, , , , , , , , , , , , , , , , , , , ,		l		
Rem	arks.				
/EGI	ETATION -Use scientific names of plants. L	ict all c	nacios in tha	nlot	
LO	TATION - Ose scientific flames of plants. L	ist all s	pecies in the	ριστ.	B
_		Absolu			Dominance Test worksheet: Number of Dominant Species
1.	e Stratum	% Cov	ver Species?	Status	That are OBL, FACW, or FAC: 4 (A)
			_		Total Number of Dominant
2.			-		Species Across All Strata: 4 (B)
3. 4.			_		Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
5.		-	-		That Are OBL, FACW, 01 FAC. 100.0% (A/B)
J.	Total Cover		_		Prevalence Index worksheet:
C			— 0% of Total Cover:		Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:		_	0	OBL Species 0 x1 = 0
1.	Empetrum nigrum	2		FAC	FACW Species 15 x 2 = 30
2.	Vaccinium uliginosum	1	_	FAC	FAC Species 72 x 3 = 216
3.	Rhododendron tomentosum	1	<u> </u>	FACW	FACU Species 8 x 4 = 32
4.	Arctous alpinus	8		FACU	UPL Species <u>3</u> x 5 = <u>15</u>
5.	Betula nana	7		FAC	Column Totals: <u>98</u> (A) <u>293</u> (B)
6.	Vaccinium vitis-idaea			FAC	Prevalence Index = B/A = 2.990_
7.	Diapensia lapponica	3	_	UPL	
8.	Salix fuscescens		_	FACW	Hydrophytic Vegetation Indicators:
	Salix pulchra			FACW	✓ Dominance Test is > 50%
10.	Total Cover		_		✓ Prevalence Index is ≤3.0
Не	b Stratum_ 50% of Total Cover:		<u>'</u> 20% of Total Cover	: 14.4	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
	Carey histologii			FAC	Problematic Hydrophytic Vegetation (Explain)
	Caray mambranasa			FACW	¹ Indicators of hydric soil and wetland hydrology must
				TACV	be present, unless disturbed or problematic.
			_ =		Plot size (radius, or length x width)
_		,			% Cover of Wetland Bryophytes (Where applicable)
					% Bare Ground 30 Total Cover of Bryophytes 65
					Total cover of bi-yophytes
		,			Hydrophytic
	Total Cover				Vegetation
	50% of Total Cover:	13 2	0% of Total Cover:	5.2	Present? Yes ♥ No ○

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SOIL Sampling Point: SW15_T347_05

		the depth ne Matrix	eded to docu	ment the indicator or co	onfirm the abs		ators)		
Depth (inches)	Color (mo	ist)	%	Color (moist)	%	Type ¹	_Loc_2	Texture	Remarks
0-1			100	Color (moise,		.,,,,		Peat	
1-8			100					Mucky Peat	
8-18		4/2	100					Sandy Loam	semiangular-semirounded cobbles
		-1/Z						Sundy Louin	serniarigulai-sernii ourided cobbles
									-
¹Type: C=Cond	centration. D=	Depletion.	RM=Reduc	ed Matrix ² Locatio				nnel. M=Matrix	
Hydric Soil In	dicators:			Indicators for P	roblematic	Hydric So	oils: ³		
Histosol or I	Histel (A1)			Alaska Color C	hange (TA4)4		Alaska Gleyed Without H	ue 5Y or Redder
✓ Histic Epipe	edon (A2)			Alaska Alpine s	swales (TA5)		Underlying Layer	
Hydrogen S	Sulfide (A4)			☐ Alaska Redox \	With 2.5Y H	ue		Other (Explain in Remark	rs)
Thick Dark	Surface (A12)			3 One indicator of	f buduan budi	a vaaatatia		nary indicator of wetland h	velve le ev
Alaska Gley				and an appropria					ydrology,
Alaska Redo	ox (A14) red Pores (A15	5)		⁴ Give details of c	color change	in Remark	s		
,		,							
Restrictive Layer	(ii present):							Uvdvia Cail Drosont	? Yes ● No ○
Type: Depth (inche	e).							Hydric Soil Present	r tes 🖲 NO 🔾
Remarks:	23).								
HYDROLOG	GY								
HYDROLOG Wetland Hydro		tors:						Secondary Indi	cators (two or more are required)_
	ology Indica)						cators (two or more are required) ned Leaves (B9)
Wetland Hydro	ology Indica ors (any one i)	☐ Inundation \	/isible on Ae	erial Image	ry (B7)	Water Stai	ned Leaves (B9) atterns (B10)
Primary Indicate Surface Wa High Water	ology Indica ors (any one i ater (A1) r Table (A2))	☐ Inundation \		-	, , ,	Water Stai Drainage F Oxidized R	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3)
Primary Indicate Surface Wa High Water Saturation	ors (any one in ater (A1) r Table (A2) (A3))		getated Cond	-	, , ,	Water Stai Drainage F Oxidized R Presence of	ned Leaves (B9) latterns (B10) hizospheres along Living Roots (C3) f Reduced Iron (C4)
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