WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	xa-Susitna Borough Sampling Date: 22-Aug-15						
Applic:	ant/Owner: Alaska Energy Authority				Sampling Point: SW15_T210_10						
	gator(s): WAD, SCB		Landform (hill	side, terrac	ce, hummocks etc.): Terrace						
	relief (concave, convex, none): hummocky		Slope: 0.0								
	gion : Interior Alaska Mountains	Lat			Long.: Datum: WGS84						
		Lat									
	ap Unit Name:			<u> </u>	NWI classification: Upland						
	matic/hydrologic conditions on the site typical for this t	•		● No ○	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○						
		-	intly disturbed?		ionnal oli camotanoco present:						
Are \	egetation ☐ , Soil ☐ , or Hydrology ☐	naturally	y 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)									
	Hydric Soil Present? Yes No		Is	the Sam	pled Area						
	Wetland Hydrology Present?	_	w	ithin a W	Vetland? Yes ○ No ⊙						
Dom	arks: Abandoned river terrace.		<u> </u>								
Kem	arks. Abditioned fiver terrace.										
/FGI	ETATION - Use scientific names of plants. L	ict all d	necies in the	nlot							
	- TATION - Ose scientific flames of plants. L	ist all s	species in the	piot.	Dominance Test worksheet:						
T	- Church	Absolu % Cov		Indicator Status	Number of Dominant Species						
	e Stratum Picea mariana	70 CO		FACW	That are OBL, FACW, or FAC: 7 (A)						
2.	-		_ 🗎		Total Number of Dominant						
3.					Species Across All Strata: 7 (B)						
4.					Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)						
5.											
	Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by:						
Sar	oling/Shrub Stratum 50% of Total Cover:		 20% of Total Cover:	14	001.0						
			_		OBL Species 0 x1 = 0 FACW Species 76 x2 = 152						
	Vaccinium vitis-idaea			FAC	FAC Species 67 x 3 = 201						
2. 3.	Rhododendron groenlandicum			FACW	FACU Species 0 x 4 = 0						
4.	Picea mariana Vaccinium uliginosum			FAC	UPL Species 0 x 5 = 0						
5.	Franciscus nigrum			FAC							
6.	· · · · · · · · · · · · · · · · · · ·			- IAC	Column Totals: <u>143</u> (A) <u>353</u> (B)						
7.					Prevalence Index = B/A = 2.469						
8.					Hydrophytic Vegetation Indicators:						
9.		_			Dominance Test is > 50%						
					✓ Prevalence Index is ≤3.0						
	Total Cover)		Morphological Adaptations (Provide supporting data in						
He	b Stratum 50% of Total Cover:		20% of Total Cover	: 6	Remarks or on a separate sheet)						
1.	Equisetum sylvaticum	4	0	FAC	Problematic Hydrophytic Vegetation (Explain)						
2.	Calamagrostis canadensis	2		FAC	¹ Indicators of hydric soil and wetland hydrology must						
3.	Rubus chamaemorus	1		FACW	be present, unless disturbed or problematic.						
4.		(Plot size (radius, or length x width) 10m						
					Plot size (radius, or length x width) 10m Cover of Wetland Bryophytes						
6.					(Where applicable)						
7.			_ =		% Bare Ground						
					Total Cover of Bryophytes						
8.											
			10								
9.			<u> </u>		Hydrophytic						
9.		: 43		8.6	Hydrophytic Vegetation Present? Yes No						

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SOIL Sampling Point: SW15_T210_10

	on: (Describe to t	he depth need	ded to docume	ent the ind		nfirm the abs		ators)				
Depth (inches)	Color (moi	Color (moist) %		Color (moist)		% Type ¹		_Loc_2	Texture	Remarks		
0-6									Fibric Organics	fibric organics		
6-16	2.5Y	3/3	 55	10YR	3/6	45		PL	Sand	organic inclusions		
				1011	- 3,0	- 10				organic inclusions		
			— —			. ——						
						- ——						
¹Type: C=Con	ncentration. D=	Depletion. I					_		annel. M=Matrix			
Hydric Soil In	ndicators:						c Hydric So	oils: ³				
Histosol or	Histel (A1)		ļ		ka Color Ch				Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip	edon (A2)		l	Alaska Alpine swales (TA5)					Underlying Layer			
Hydrogen	Sulfide (A4)		l	Alasl	ka Redox W	√ith 2.5Y H	lue		Other (Explain in Remark	s)		
Thick Dark	Surface (A12)			3 One ir	disator of	h. dronhyt		- and prin	indicator of wotland h	dulogu		
Alaska Gle				and an	appropriate	nyaropnya e landscap	cic vegetation oe position m	n, one pm nust be pr	mary indicator of wetland h esent	ydrology,		
Alaska Red						-	e in Remarks					
	yed Pores (A15)		Give	etalis oi co		2 III Keman.	S				
Restrictive Laye	er (if present):									? Yes○ No •		
Type: Depth (inch	ac).								Hydric Soil Present	? Yes ○ No •		
Remarks:	ies _j .											
HYDROLO	GY											
Wetland Hydr	rology Indicat	tors:							Secondary Indi	cators (two or more are required)		
Primary Indicat	tors (any one is	sufficient)							Water Stained Leaves (B9)			
Surface Water (A1)					undation Vi	sible on A	erial Imager	y (B7)		atterns (B10)		
High Wate		Sparsely Vegetated Concave Surface (B8)						hizospheres along Living Roots (C3)				
Saturation		☐ Marl Deposits (B15)						f Reduced Iron (C4)				
	Water Marks (B1) Hydrogen								☐ Salt Depos			
	Deposits (B2)				y-Season W					Stressed Plants (D1)		
☐ Drift Depo				∐ Ot	her (Explair	л in Remar	rks)			ic Position (D2)		
	or Crust (B4)									uitard (D3)		
Iron Depo										raphic Relief (D4)		
	oil Cracks (B6)							1	✓ FAC-neutra	l Test (D5)		
Field Observa Surface Water		Yes 〇	No (De	epth (inches							
						•						
Water Table P		Yes O	_	De	epth (inches	s):		Wetia	nd Hydrology Presen	t? Yes ○ No •		
Saturation Pre (includes capil		Yes O	No •	De	epth (inches	5):						
Describe Record	ded Data (strea	ım gauge, n	nonitor well,	aerial p	notos, prev	ious inspe	ction) if ava	ilable:				
Remarks:						-						
no hydrology in	ndicators											
1.4,												

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