WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project		Вс	rough/City:	Matanusk	a-Susitna Borough Sampling Date: 20-Aug-15
Applic	ant/Owner: Alaska Energy Authority					Sampling Point: SW15_T306_01
	gator(s): WAD, SCB		L	andform (hills	side, terrac	e, hummocks etc.): planar slope
	relief (concave, convex, none): tussocks			Slope: 8.7		, , , , , , , , , , , , , , , , , , , ,
	gion : Interior Alaska Mountains	Le	 at.:			Long.: Datum: WGS84
		LC	··· —			
	ap Unit Name:				<u> </u>	NWI classification: PSS1/3B
	matic/hydrologic conditions on the site typical for this ti		-		● No ○	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○
	• • •	-	-	disturbed?		ormai orioamstanoes present:
Are \	/egetation ☐ , Soil ☑ , or Hydrology ☐	natura	lly pro	blematic?	(If nee	ded, explain any answers in Remarks.)
MU	MARY OF FINDINGS - Attach site map sho	wing	samı	pling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes No)				
				Is	the Sam	pled Area
	,			wi	thin a W	etland? Yes ● No ○
Dom	,					
Rem	arks.					
/EGI	ETATION - Use scientific names of plants 1	ict all	cnor	sios in tha	olot	
LG	ETATION -Use scientific names of plants. L	ist all	spec	les in the p	JIOL.	
		Abso		Dominant		Dominance Test worksheet:
1.	e Stratum	<u>% C</u>	over	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 8 (A)
	-	_				Total Number of Dominant
2.		_				Species Across All Strata: 9 (B)
3.		_				Percent of dominant Species
4.		-				That Are OBL, FACW, or FAC: 88.9% (A/B)
5.	Tatal Course	_				Prevalence Index worksheet:
_	Total Cover		200/ -	of Total Causes		Total % Cover of: Multiply by:
Sal	oling/Shrub Stratum 50% of Total Cover:	0	20% (of Total Cover:	0	OBL Species <u>5</u> x 1 = <u>5</u>
1.	Betula nana	_	15	✓	FAC	FACW Species 12.2 x 2 = 24.40
2.	Empetrum nigrum	_	10	✓	FAC	FAC Species 40.2 x 3 = 120.6
3.	Vaccinium vitis-idaea	_	5	~	FAC	FACU Species x 4 =28
4.	Rhododendron tomentosum	_	5	~	FACW	UPL Species <u>0</u> x 5 = <u>0</u>
5.	Vaccinium uliginosum	_	5	✓	FAC	Column Totals: <u>64.4</u> (A) <u>178</u> (B)
6.	Loiseleuria procumbens	_	5	~	FACU	Prevalence Index = B/A =2.764_
7.	Andromeda polifolia(IAM)	_	5	~	OBL	
8.	Salix pulchra	_	2		FACW	Hydrophytic Vegetation Indicators:
9.	Picea glauca	_	2		FACU	✓ Dominance Test is > 50%
10.	Arctous ruber	_	0.1		FAC	✓ Prevalence Index is ≤3.0
	Total Cover: 50% of Total Cover:		4.1 20%	of Total Covers	10.82	Morphological Adaptations (Provide supporting data in
		27.03				Remarks or on a separate sheet)
	Carex bigelowii	-	5	✓	FAC	Problematic Hydrophytic Vegetation (Explain)
2.	Eriophorum vaginatum	-	5		FACW FAC	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	Festuca altaica	-	0.1		FAC	be present, arress distarbed or problematic.
4.	Tofieldia pusilla Rubus chamaemorus	-	0.1		FACW	Plot size (radius, or length x width)
5.		-	0.1		TACW	% Cover of Wetland Bryophytes
			0			(Where applicable)
			0			% Bare Ground
			0			Total Cover of Bryophytes 30
		_	0			Hadronbakia
		_	0.3			Hydrophytic Vegetation
	Total Cover					
	Total Cover 50% of Total Cover:	_		of Total Cover:	2.06	Present? Yes • No O

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SOIL Sampling Point: SW15_T306_01

Profile Description: (Des	Matrix				ox Featu	res			
,, i ,	lor (moist)	%	Color (m	noist)	%	Type ¹	Loc ²	Texture	Remarks
0-2		100						Peat	
2-4 10	YR 2/2	100						Mucky Peat	contains coarse sand and subrounded pebbles
4-16 10	YR 2/2	50	7.5YR	3/2	50		M	Loamy Sand	
									•
Type: C=Concentra	tion. D=Deplet	ion. RM=Redu	ıced Matrix	² Location	: PL=Pore	Lining. RC	=Root Char	nnel. M=Matrix	
Hydric Soil Indicate	ors:		Indicate	ors for Pro	oblematio	Hydric S	oils: ³		
Histosol or Histel	(A1)			ka Color Ch				Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipedon (/	` '		Alask	ka Alpine sv	wales (TA5)		Underlying Layer	
Hydrogen Sulfide	(A4)		Alask	ka Redox W	/ith 2.5Y H	ue	✓	Other (Explain in Remark	s)
Thick Dark Surface	e (A12)		3 One ir	ndicator of [hydrophyti	s voqetatio	n one prim	nary indicator of wetland h	wdrology
Alaska Gleyed (A	-						must be pre		iyurology,
Alaska Redox (A1	-		4 Give d	details of co	lor change	in Remark	rc		
Alaska Gleyed Po	res (A15)		Give u	ictalis of co	nor change	iii Kemar			
estrictive Layer (if pr	esent):								
								Hydric Soil Present	? Yes 💿 No 🔾
Type:								•	
Type: Depth (inches): emarks: andy soils with low or	ganic carbon o	ontent, footsk	ope position	, high wate	er table. as	sume hydr	ic	, 	
Depth (inches): emarks:	ganic carbon o	ontent, footsk	ope position	ı, high wate	er table. as	sume hydr	ic	•	
Depth (inches): emarks:	ganic carbon (content, footsk	ope position	ı, high wate	er table. as	sume hydr	ic	,	
Depth (inches): emarks: andy soils with low or		content, footsk	ope position	n, high wate	er table. as	sume hydr	ic		cators (two or more are required)
Depth (inches): emarks: andy soils with low or	Indicators:		ope position	ı, high wate	er table. as	sume hydr	ic	_Secondary Indi	cators (two or more are required) ned Leaves (B9)
Depth (inches): emarks: andy soils with low or YDROLOGY Vetland Hydrology	Indicators:			n, high wate				_Secondary Indi	
Depth (inches): emarks: andy soils with low or YDROLOGY Vetland Hydrology Primary Indicators (ar Surface Water (A	Indicators: ny one is suffic		Int		sible on Ae	erial Image	ry (B7)	Secondary Indi Water Stai Drainage F Oxidized R	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3)
Primary Indicators (all Surface Water (A High Water Table Saturation (A3)	Indicators: ny one is suffic 1) e (A2)		☐ Int	undation Vis	sible on Ae etated Con (B15)	erial Image cave Surfac	ry (B7)	Secondary Indi Secondary Indi Water Stai Drainage F Oxidized R	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4)
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