WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough	h/City:	Matanusk	a-Susitna Borough Sampling Date: 09-Jul-13
Applica	nt/Owner: Alaska Energy Authority					Sampling Point: SW13_T107_10
Investi	gator(s): SLI, SCB		Landfo	orm (hill	side, terrac	e, hummocks etc.): Hillside
Local re	elief (concave, convex, none): tussocks		Slope	:	% /	° Elevation: 711
Subreg	ion : Interior Alaska Mountains	Lat.:	62.856	995583	3	Long.:148.139501214
Soil Ma	p Unit Name:					NWI classification: PSS1/4B
Are V	natic/hydrologic conditions on the site typical for this egetation , Soil , or Hydrology egetation , Soil , or Hydrology , or Hydrology MARY OF FINDINGS - Attach site map should be supported by the site of	significan naturally owing sa	ntly distu	rbed? atic?	(If nee	(If no, explain in Remarks.) formal Circumstances" present? Yes ● No ○ leded, explain any answers in Remarks.) s, transects, important features, etc.
	Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	\supset			the Sam thin a W	pled Area etland? Yes ● No ○
√EGE	TATION - Use scientific names of plants.				<u> </u>	Dominance Test worksheet:
Tree	s Stratum	Absolut % Cove		ninant ecies?	Indicator Status	Number of Dominant Species
	Picea mariana	2!		✓	FACW	That are OBL, FACW, or FAC:5(A)
2.			_			Total Number of Dominant Species Across All Strata: 5 (B)
3.			_			Percent of dominant Species
4.			<u> </u>			That Are OBL, FACW, or FAC: 100.0% (A/B)
5.		0)			Prevalence Index worksheet:
	Total Cove	er: <u>25</u>				Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	12.5 20	0% of Tota	al Cover:	5	OBL Species 0 x 1 = 0
1.	Vaccinium uliginosum	20	0	✓	FAC	FACW Species 53 x 2 = 106
_	Picea mariana		_	✓	FACW	FAC Species 47 x 3 = 141
3.	Betula nana				FAC	FACU Species 0.1 x 4 = 0.400
4.	Vaccinium vitis-idaea		_		FAC	UPL Species 0 x 5 = 0
5.	Ledum decumbens				FACW	Column Totals: <u>100.1</u> (A) <u>247.4</u> (B)
6.	Empetrum nigrum	5	i		FAC	
7.	Spiraea stevenii	0.	1		FACU	Prevalence Index = B/A = 2.472
8.		0	<u> </u>			Hydrophytic Vegetation Indicators:
			<u> </u>			✓ Dominance Test is > 50%
10.			<u> </u>			Prevalence Index is ≤3.0
Herl	Total Cove 50% of Total Cover:				:12.02_	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
	Rubus chamaemorus	8	_	✓	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
	Carex bigelowii	5	_		FAC	¹ Indicators of hydric soil and wetland hydrology must
_	Equisetum sylvaticum	_	<u> </u>		FAC	be present, unless disturbed or problematic.
			_			Plot size (radius, or length x width)
			_			% Cover of Wetland Bryophytes
			_			(Where applicable)
			_			% Bare Ground 0
			_			Total Cover of Bryophytes
			_			Hydrophytic
	Total Cove	15				Vegetation
	50% of Total Cover:			al Cover:	3	Present? Yes No
Rem				al Cover:	3	

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SOIL Sampling Point: SW13_T107_10

Depth (inches)	Color (mo	iet)	%	Color (m	oist)	%	Type ¹	Loc ²	Texture	Remarks
0-1	COIOI (IIIC	nist)		COIOI (III	oisty	_/6	Турс	LUC	Fibric Organic	
1-7									Hemic Organic	
7-8									Sapric Organic	w charcoal
8-10	10Y	4/1	60	10YR	1/6	40		 PL	Clay Loam	_
8-10	101	4/1		101K	4/6	40		PL	Clay Loan	w few subang fine gravels
										_
		=Depletion	RM=Reduc				_		annel. M=Matrix	
lydric Soil Ir					ors for Pro		4	oils:] .	
_	Histel (A1)				ka Color Cha ka Alpine sw				Alaska Gleyed Without Underlying Layer	Hue 5Y or Redder
✓ Histic Epipe	. ,				ka Alpine sw ka Redox W	•	•		Other (Explain in Rema	arks)
_ ′ -	Sulfide (A4) : Surface (A12	`		∟ Alasi	a Neuox VV	IUI 2.31 I	iue		2 oute. (2.p.a r.c	
Alaska Gley	•)							mary indicator of wetland	l hydrology,
Alaska Gle				and an	appropriate	landscap	e position r	nust be pre	esent	
_	yed Pores (A1	5)		4 Give d	etails of col	or change	in Remark	s		
	r (if present):	<u>, </u>								
Type: clay	,								Hydric Soil Preser	nt? Yes • No O
·/F-· Cluy										
Depth (inch										
Depth (inch										
Depth (inchemarks:	es): 8									
Depth (inchemarks: YDROLO Vetland Hydr	es): 8 GY ology Indica								_Secondary In	dicators (two or more are required)
Pepth (inchemarks: YDROLOGICAL STATES AND	GY Tology Indicators (any one)						Secondary In Water St	dicators (two or more are required) ained Leaves (B9)
YDROLO Vetland Hydr rimary Indicat Surface W	GY rology Indicators (any one later (A1))		undation Vis				Secondary In Secondary In Drainage	dicators (two or more are required) ained Leaves (B9) 2 Patterns (B10)
YDROLO Yetland Hydr rimary Indicat Surface W High Wate	GY rology Indicators (any one later (A1) er Table (A2))	☐ Sp	arsely Vege	tated Con			Secondary In Water St Drainage Oxidized	dicators (two or more are required) ained Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C
Popth (inchemarks: YDROLOGIETIAN Indicat Surface W High Wate Saturation	GY rology Indicators (any one later (A1) er Table (A2) (A3))	Sp.	arsely Vege rl Deposits	tated Con (B15)	cave Surfac		Secondary In Water St Drainage Oxidized Presence	dicators (two or more are required) ained Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (Ci
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YDROLO Vetland Hydr rrimary Indicat Surface W High Wate Saturation Water Mar Sediment	GY rology Indicators (any one later (A1) or Table (A2) (A3) rks (B1) Deposits (B2))	Sp. Ma	arsely Vege rl Deposits drogen Sulf y-Season W	tated Con (B15) ide Odor ater Table	cave Surfac		Secondary In Water St Drainage Oxidized Presence Salt Dep Stunted	dicators (two or more are required) ained Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (Colorist (C4) Osits (C5) Or Stressed Plants (D1)
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