## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	t	Bo	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 22-Aug-15
Applica	nt/Owner: Alaska Energy Authority					Sampling Point: SW15_T304_08
Investi	gator(s): BAB		L	_andform (hill	side, terrac	e, hummocks etc.): Footslope
Local r	elief (concave, convex, none): hummocky			Slope: 3.5	% / 2.0	
Subrec	ion : Interior Alaska Mountains		Lat.:			Long.: Datum: WGS84
_						
	p Unit Name:				<u> </u>	NWI classification: PSS4B
	natic/hydrologic conditions on the site typical fo				● No ○	(If no, explain in Remarks.)
	egetation U , Soil U , or Hydrology			disturbed?		lormal Circumstances" present? Yes ● No ○
Are V	egetation . , Soil . , or Hydrology	∐ r	naturally pro	oblematic?	(If nee	eded, explain any answers in Remarks.)
SUMN	MARY OF FINDINGS - Attach site ma	p shov	ving sam	pling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes   Yes	No O				, , , ,
	, i, i, iii igiiii i	No O		Is	the Sam	pled Area
	<b>,</b>	_			ithin a W	
	Wetland Hydrology Present? Yes	No O		•	1011111 G VV	Citalia:
Rema	ırks:					
<b>/</b>	TATION					
VEGE	<b>TATION</b> -Use scientific names of pla	nts. Li	st all spe	cies in the	plot.	
			Absolute	Dominant	Indicator	Dominance Test worksheet:
	e Stratum		% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 6 (A)
1.	Picea mariana		15	<b>✓</b>	FACW	Total Number of Dominant
2.						Species Across All Strata:6(B)
3.						Percent of dominant Species
4.						That Are OBL, FACW, or FAC: (A/B)
5.						Prevalence Index worksheet:
	Tota	l Cover:				Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cov	er:	7.5 20%	of Total Cover	3	OBL Species0 x 1 =0
1	Picea mariana		30	<b>✓</b>	FACW	FACW Species 69 x 2 = 138
2.	Vaccinium uliginosum		20	<b>✓</b>	FAC	FAC Species 72 x 3 = 216
3.	Empetrum nigrum		15		FAC	FACU Species 0 x 4 = 0
4.	Betula glandulosa		10		FAC	UPL Species 0 x 5 = 0
5.	Rhododendron tomentosum		8		FACW	Column Totals: 141 (A) 354 (B)
6.	Vaccinium vitis-idaea		5		FAC	
7.	Salix pulchra		3		FACW	Prevalence Index = B/A = <u>2.511</u>
8.	·		0			Hydrophytic Vegetation Indicators:
9.			0			✓ Dominance Test is > 50%
			0			✓ Prevalence Index is ≤3.0
		l Cover:	91			Morphological Adaptations (Provide supporting data in
Her	<b>b Stratum</b> 50% of Total Co	ver:	45.5 20%	of Total Cover	: 18.2	Remarks or on a separate sheet)
1.	Carex bigelowii		15	<b>✓</b>	FAC	Problematic Hydrophytic Vegetation (Explain)
2.	Rubus chamaemorus		10	<b>✓</b>	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3.	Equisetum sylvaticum		7	✓	FAC	be present, unless disturbed or problematic.
4.	Petasites frigidus		3		FACW	Diet size (vadius av laneth v width)
5.						Plot size (radius, or length x width) 10m
						% Cover of Wetland Bryophytes (Where applicable)
						% Bare Ground _5
						Total Cover of Bryophytes 70
			0			
			0			Hydrophytic
		l Cover:	35			Vegetation
	50% of Total Cov	er: <u>1</u>	7.5 20%	of Total Cover		Present? Yes   No
Rem	arks:					

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SOIL Sampling Point: SW15\_T304\_08

Depth (inches)		Matrix			Red	ox Featu	ires		_	
	Color (mo	ist)	%	Color (m	noist)	%	Type <sup>1</sup>	_Loc_ <sup>2</sup>	Texture	Remarks
0-2									Peat	P
2-3									Mucky Peat	
3-4									Muck	
4-6	10YR	4/2	100						Silty Clay Loam	p-
6-11	5Y	4/1	75	10YR	4/6	15	С	PL	Sandy Clay Loam	10% organics
11-16	10YR	4/2	45	10YR	5/4	15	С	PL	Sandy Clay	
				10Y	5/1	40	D	PL		
Type: C=Conce	entration. D			ed Matrix	<sup>2</sup> Location	: PL=Por	e Lining. RO	=Root Cha	annel. M=Matrix	
lydric Soil Indi	icatore			Indicat	ors for Pro	hlematic	c Hydric S	nile; <sup>3</sup>		
Histosol or Hi					ka Color Ch		4	Jiis.	Alaska Gleyed Without H	uo EV or Doddor
Histic Epipedo	. ,				ka Alpine sv		•		Underlying Layer	ue 31 of Reduct
Histic Epipeut Hydrogen Sul					ka Redox W	•	•		Other (Explain in Remark	rs)
Thick Dark Su	. ,	)			na riodox ii	2.0				,
Alaska Gleyed	•	,							mary indicator of wetland h	ydrology,
Alaska Redox				and an	appropriate	e landscap	e position i	nust be pro	esent	
Alaska Gleyed		5)		4 Give o	details of co	lor chang	e in Remark	is .		
estrictive Layer (	(if present):									
Type: silty cla									Hydric Soil Present	? Yes ⊙ No ○
	,								•	
Depth (inches) emarks: ixitrphic properti	<u>*</u>	bation not p	oronounced,	, but possi	ble.					
Depth (inches)	<u>*</u>	bation not p	pronounced,	, but possi	ble.					
Depth (inches) emarks: ixitrphic properti	ries. cryotrul		pronounced	, but possi	ble.					
Depth (inches) emarks: ixitrphic properti  YDROLOG' Vetland Hydrolog	ries. cryotrul  Y  logy Indica	ators:		, but possi	ble.					cators (two or more are required)
Depth (inches) emarks: ixitrphic properti  YDROLOG' /etland Hydrologimary Indicator	Y logy Indica	ators:							Water Stai	ned Leaves (B9)
Depth (inches) emarks: ixitrphic properti  YDROLOG Vetland Hydrolo trimary Indicator: Surface Wate	Y logy Indicars (any one er (A1)	ators:			undation Vi		_	, , ,	Water Stai	ned Leaves (B9) Patterns (B10)
Depth (inches) emarks: ixitrphic properti  YDROLOG  Vetland Hydrolog irimary Indicator  Surface Wate  High Water 1	Y logy Indicars (any one er (A1) Table (A2)	ators:		☐ Int	undation Vis	tated Cor	_	, , ,	Water Stai Drainage F Oxidized R	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3
Depth (inches) emarks: ixitrphic properti  YDROLOG  /etland Hydrolo rimary Indicator:  Surface Wate  High Water 1  ✓ Saturation (A	Y logy Indicates (any one per (A1) Table (A2) A3)	ators:		☐ Int	undation Vis arsely Vege arl Deposits	etated Cor (B15)	ncave Surfa	, , ,	Water Stai Drainage F Oxidized R Presence of	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3 f Reduced Iron (C4)
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