## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough	/City:	Matanusk	ca-Susitna Borough Sampling Date: 03-Aug-13
Applica	ant/Owner: Alaska Energy Authority					Sampling Point: SW13_T173_09
Investi	gator(s): BAB		Landfo	rm (hill:	side, terrac	e, hummocks etc.): Flat
	relief (concave, convex, none): tussocks		_		% / 0.0	
Subrec	gion : Interior Alaska Mountains	Lat.:	- 63.167	295344		Long.: -148.236916149 Datum: WGS84
-	p Unit Name:		00.107	200011		NWI classification: PEM1Bb
	matic/hydrologic conditions on the site typical for this ti	ma of vo	or?	Vac	● No ○	(If no, explain in Remarks.)
		significan				Iormal Circumstances" present? Yes  No
		naturally				eded, explain any answers in Remarks.)
		•				
SUM	MARY OF FINDINGS - Attach site map show	wing sa	mpling	point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes   No C	)		_		
	Hydric Soil Present? Yes   No C	)				pled Area
	Wetland Hydrology Present? Yes   No C	)		wi	thin a W	etland? Yes ● No ○
	arks: photo number 1742-45					
rtein	an abandoned beaver dam is impacting the are	ea				
	<u> </u>					
VEGE	<b>TATION</b> -Use scientific names of plants. Li	st all sp	ecies i	n the	plot.	
		Absolut	o Dom	inant	Indicator	Dominance Test worksheet:
Tre	e Stratum_	% Cove		cies?	Status	Number of Dominant Species
1.		0	_			That are OBL, FACW, or FAC: 2 (A)
2.		0				Total Number of Dominant Species Across All Strata: 2 (B)
3.						Percent of dominant Species
4.		0				That Are OBL, FACW, or FAC:100.0% (A/B)
5.		0	_			Prevalence Index worksheet:
	Total Cover	: <u> </u>	_			Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20	% of Tota	l Cover:	0	OBL Species x 1 =
1.	Salix pulchra	10	)	<b>✓</b>	FACW	FACW Species 21 x 2 = 42
2.		0	_			FAC Species <u>66</u> x 3 = <u>198</u>
3.		_	_			FACU Species 0 x 4 = 0
4.		0				UPL Species <u>0.1</u> x 5 = <u>0.500</u>
5.		0				Column Totals: <u>104.1</u> (A) <u>257.5</u> (B)
6.		0	_			
7.		^	_			Prevalence Index = B/A = 2.474
8.		0	_			Hydrophytic Vegetation Indicators:
9.		0	_			✓ Dominance Test is > 50%
10.		0	_			Prevalence Index is ≤3.0
	Total Cover		 0% of Tota	al Cause		Morphological Adaptations (Provide supporting data in
	b Stratum 50% of Total Cover:			_		Remarks or on a separate sheet)
1.	Calamagrostis canadensis		_		FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2.	Comarum palustre		_		OBL	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	Petasites frigidus  Acepitum delabinifelium	10	_		FACW	be present, amess distarbed or problematic.
4.	Aconitum delphinifolium  Carex aquatilis		_		FAC OBL	Plot size (radius, or length x width) 10m
5. 6.	Eriophorum angustifolium	4	_		OBL	% Cover of Wetland Bryophytes
7.	Polemonium pulcherrimum	0.1	_		UPL	(Where applicable)
	Sanguisarha canadoneis		_		FACW	% Bare Ground
			_			Total Cover of bijophlytes
		0	_			Hydrophytic
1.5.	Total Cover	94.1	_			Vegetation
	50% of Total Cover:4			l Cover:	18.82	Present? Yes   No
8. 9. 10.	Total Cover	0 0 94.1	_ _ _	Cover:		

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SOIL Sampling Point: SW13\_T173\_09

Depth —			Re			2		
	Color (moist)	<u>%</u>	Color (moist)	_%_	Type <sup>1</sup>	_Loc_2	Texture	Remarks
0-6							Fibric Organics	_
6-10							Hemic Organics	_
10-14							Sapric Organics	rocks at 14
								_
							-	_
Type: C=Concent	ration. D=Depletion	on. RM=Redu	ced Matrix <sup>2</sup> Location	on: PL=Pore	Lining. RC	=Root Cha	nnel. M=Matrix	
Hydric Soil Indica	itors:	-	Indicators for P	roblematic	Hydric So	oils:		
✓ Histosol or Histo			Alaska Color (		4		Alaska Gleyed Without H	Hue 5Y or Redder
Histic Epipedon	` '		Alaska Alpine	swales (TA5)	)		Underlying Layer	
Hydrogen Sulfic	-		Alaska Redox	With 2.5Y Hu	ue		Other (Explain in Remar	rks)
Thick Dark Surf	ace (A12)		2					
Alaska Gleyed (	A13)		One indicator of and an appropria				nary indicator of wetland	hydrology,
Alaska Redox (A	•		4 Give details of	·	•	•		
Alaska Gleyed F	ores (A15)		· Give details of	color change	: III Keillaik	.5		
estrictive Layer (if	present):							
Type:							Hydric Soil Present	t? Yes • No O
Depth (inches): emarks:								
emarks:  YDROLOGY Vetland Hydrolog								licators (two or more are required)
YDROLOGY Vetland Hydrolog Primary Indicators (	any one is sufficie	:nt)					Water Sta	ined Leaves (B9)
YDROLOGY Vetland Hydrolog Primary Indicators (  ✓ Surface Water	any one is sufficient (A1)	:nt)		Visible on Ae	_		Water Sta	ined Leaves (B9) Patterns (B10)
YDROLOGY Vetland Hydrolog Primary Indicators (  ✓ Surface Water ✓ High Water Tal	any one is sufficie (A1) ble (A2)	:nt)	Sparsely Ve	getated Cond	_		Water Sta Drainage Oxidized F	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3)
YDROLOGY Vetland Hydrolog Primary Indicators (  Surface Water High Water Tal  High Water (A3)	any one is sufficie (A1) ble (A2)	ent)	Sparsely Ve	getated Cond ts (B15)	cave Surfac		Water Sta Drainage Oxidized F	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4)
YDROLOGY Vetland Hydrolog Primary Indicators ( ✓ Surface Water ✓ High Water Tal ✓ Saturation (A3)      Water Marks (8)	any one is sufficie (A1) ble (A2) ) B1)	ent)	Sparsely Ve Marl Deposi Hydrogen S	getated Cond ts (B15) ulfide Odor (	cave Surfac		Water Sta Drainage Oxidized F Presence Salt Depo	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5)
YDROLOGY Vetland Hydrolog Primary Indicators ( ✓ Surface Water ✓ High Water Tal ✓ Saturation (A3)      Water Marks (€     Sediment Depo	Tany one is sufficie (A1) ple (A2) (B1) psits (B2)	ent)	Sparsely Ve Marl Deposi Hydrogen S Dry-Season	getated Cond ts (B15) ulfide Odor ( Water Table	cave Surfac		Water Sta Drainage Oxidized I Presence Salt Depo Stunted o	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) r Stressed Plants (D1)
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YDROLOGY Vetland Hydrolog Primary Indicators ( ✓ Surface Water ✓ High Water Tal ✓ Saturation (A3)      Water Marks (E     Sediment Depo     Drift Deposits (     Algal Mat or Cr	(A1) cole (A2) displayments (A2) displayments (A2) displayments (B2) displayments (B3) displayments (B4)	ent)	Sparsely Ve Marl Deposi Hydrogen S Dry-Season	getated Cond ts (B15) ulfide Odor ( Water Table	cave Surfac		Water Sta Drainage Oxidized F Presence Salt Depo Stunted o	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) r Stressed Plants (D1)
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Primary Indicators (  ✓ Surface Water  ✓ High Water Tal  ✓ Saturation (A3)  — Water Marks (I  — Sediment Deposits (  — Algal Mat or Cr  — Iron Deposits (  — Surface Soil Cr  — Sield Observation  Surface Water Preser  Water Table Preser  Saturation Present  (includes capillary to	any one is sufficient (A1) cole (A2) de (A2) de (A3) d	<ul><li>No ○</li><li>No ○</li><li>No ○</li><li>No ○</li></ul>	Sparsely Ve Marl Deposi Hydrogen S Dry-Season Other (Expla	getated Condition (B15) ulfide Odor (Water Table ain in Remark	(C1) (C2) (KS)	Wetlan	Water Sta □ Drainage □ Oxidized F □ Presence □ Salt Depo □ Stunted o ☑ Geomorph □ Shallow A □ Microtopo ☑ FAC-neutr	nined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) r Stressed Plants (D1) nic Position (D2) quitard (D3) graphic Relief (D4) al Test (D5)
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