WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric	Project		Borough/City:	Denali Bo	rough Sampling Date: 06-Aug-12
Applica	int/Owner: Alaska Energy Authority					Sampling Point: SW12_T16_09
	gator(s): SLI. KMK			Landform (hi	Ilside, terrac	e, hummocks etc.): Toeslope
-	elief (concave, convex, none): conca	VA		Slope:	% / 10.2	<u> </u>
		<u> </u>	l ot :	- · -		
_	ion : Interior Alaska Mountains		Lal	63.42765486	93	
	p Unit Name:					NWI classification: PSS1B
Are Vo		rology	significar naturally ving sa	ntly disturbed? problematic?	(If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.) s, transects, important features, etc.
		es • No C		Is	the Sam	pled Area
	,	es 🏵 No 🔾			ithin a W	-
	Wetland Hydrology Present? Yearks: toeslope wetland, no indication that	es No C			, , , , , , , , , , , , , , , , , , ,	otiuna i
VEGE	ETATION - Use scientific names	of plants. Li	st all sp		plot.	Dominance Test worksheet:
	e Stratum_		% Cove	er Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)
1.			0	_		Total Number of Dominant
2.			0	_ 🖳		Species Across All Strata: 4 (B)
3.			0	_ 🖳		Percent of dominant Species
4.			0	_		That Are OBL, FACW, or FAC:(A/B)
5.			0	_ 🗆		Prevalence Index worksheet:
		Total Cover:	0_	_		Total % Cover of: Multiply by:
Sapl	ling/Shrub Stratum 50% of To	otal Cover:	0 20	0% of Total Cove	r: <u>0</u>	OBL Species 43 x 1 = 43
1.	Salix pulchra		40	V	FACW	FACW Species 51 x 2 = 102
1	Dasiphora fruticosa		15		FAC	FAC Species54 x 3 =162
	Betula neoalaskana		1		FACU	FACU Species 3 x 4 = 12
1	Picea glauca		2		FACU	UPL Species 0 x 5 = 0
5.	Salix commutata		20		FAC	Column Totals: (A) (B)
6.	Salix pseudomonticola		1		FAC	Column Totals. 131 (A) 319 (B)
1	Salix alaxensis		3		FAC	Prevalence Index = B/A = 2.113
	Betula glandulosa		0.:		FAC	Hydrophytic Vegetation Indicators:
	Vaccinium uliginosum		0.:		FAC	✓ Dominance Test is > 50%
10.			0			✓ Prevalence Index is ≤3.0
	b Stratum 50% of T	Total Cover:		— <u>? </u>	er: 16.44	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1.	Carex aquatilis		20	✓	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Carex rotundata		20		OBL	¹ Indicators of hydric soil and wetland hydrology must
3.	Parnaccia paluetric		1		FACW	be present, unless disturbed or problematic.
4.	Comarum paluetro				OBL	
5.	Pumov costoco				FAC	Plot size (radius, or length x width)
	Calamagrostis canadensis		10		FAC	% Cover of Wetland Bryophytes (Where applicable)
	Carried to market and a		10		FACW	
	Juncus arcticus		- 1		OBL	% Bare Ground 40 Total Cover of Bryophytes 50
9.						Total cover of bijophyces
10.			0			Hydrophytic
		Total Cover:	69			Vegetation
	50% of To			— 0% of Total Cove	r: <u>13.8</u>	Present? Yes No
Dom	arket trace guesser viala as Durana	alacabalda: f		/n #11mo:		
Rema	50% of To arks: trace sweper, viola sp. Rumace p					Present? Yes S NO C

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SOIL Sampling Point: SW12_T16_09

Glocker (moist) O-5 O-5 O-6 O-6 O-7 O-7 O-7 O-7 O-7 O-7	(inches)	0-1	-!		6-1 (Red	0/	- 1	· 2	Texture	Remarks
Secondary Indicators (two or more are require hirmary indicators (any one is sufficient) Paper (A12) Secondary Indicators (two or more are require hirmary indicators (any one is sufficient) Paper (A13) Paper (A14) Proposition (A2) Alaska Gleyer (A13) Alaska Gleyer (A13) Alaska Alpine swales (Ta5) Al	0-5	Color (m	oist)	<u></u> —	Color (m	noist)	_%_	Type ¹	<u>Loc</u> 2		Keillaiks
Sandy Loam Sandy Loam Sandy Loam Sandy Loam Sit Loam S										-	_
10-13 5Y 4/1 80 10YR 4/4 20 C PL Sit Loam highly perturbed, buried organic let		10VD	4/2	100							_
10-13 SY 4/1 80 10YR 4/4 20 C PL Silt Loam buried organics 13-16 SY 4/1 70 10YR 4/3 30 C PL Sandy Loam Type: C=Concentration. D=Depletion, RM=Reduced Matrix 2 Location: PL=Pare Lining, RC=Root Channel, M=Matrix Nydric Soil Indicators: Historic Soil Indicators: Indicators for Problematic Hydric Soils? Alaska Gleyed Without Hue SY or Redder Underlying Layer Hydrogen Sulfide (A4) Alaska Alpines walse (TL5) Underlying Layer Hydrogen Sulfide (A4) Alaska Redox With 2.5Y Hue											
13-16			3/2								highly perturbed, buried organic lense
Type: C=Concentration. D=Depletion. RM=Reduced Matrix 1	10-13	5Y	4/1		10YR	4/4	20	C	PL	Silt Loam	buried organics
Hydric Soil Indicators: Histosol or Histel (A1)	13-16	5Y	4/1		10YR	4/3	30	C	PL	Sandy Loam	_
ydric Soil Indicators: Histosol or Histel (A1)											
Histosol or Histel (A1)	Type: C=Con	centration. D	=Depletior	ı. RM=Reduc						annel. M=Matrix	
Histic Epipedon (A2) Hydrogen Sulfide (A4) Hydrogen Sulfide (A4) Alaska Alpine swales (TA5) Hydrogen Sulfide (A4) Alaska Redox With 2-SY Hue Other (Explain in Remarks) Thick Dark Surface (A12) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed Pores (A15) Alaska Gleyed Pores (A15) Alaska Gleyed Pores (A15) Type: Depth (inches): Petaland Hydrology Indicators: Imarks: **CPROLOGY** **Give details of color change in Remarks* **Property of the strict of	-							4	oils:	٦	
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Alaska Redox (A14) Alaska Gleyed Pores (A15) Alaska Gleyed Pores (A15) Alaska Gleyed Pores (A15) Alaska Gleyed Pores (A15) Whydric Soil Present? Yes No Popth (Inches): Pararks: PAPROLOGY Hydric Soil Present? Yes No Popth (Inches): Water Table Present? Yes No Popth (Inches):		•	.)		³ One ii	ndicator of h	nydrophyt	ic vegetatio	n, one prin	mary indicator of wetland	hydrology,
Alaska Gleyed Pores (A15) 4Give details of color change in Remarks estrictive Layer (if present): Type: Depth (inches): PYDROLOGY (vetland Hydrology Indicators: rimary Indicators (any one is sufficient) Surface Water (A1) High Water Table (A2) Sparsely Vegetated Concave Surface (B8) Saturation Present? Water Table (A2) Secondary Indicators (two or more are require require (B7) Depth (inches): Secondary Indicators (two or more are require (B7) Water Table (A2) Sparsely Vegetated Concave Surface (B8) Oxidized Rhizospheres along Living Roots Saturation (A3) Marl Deposits (B15) Presence of Reduced Iron (C4) Salt Deposits (B2) Dry-Season Water Table (C2) Stunted or Stressed Plants (D1) FAC-neutral Test (D5) Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches):					and an	appropriate	landscap	e position r	nust be pre	esent	
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escribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	POROLO Petland Hydre rimary Indicat Surface W High Water Saturation Water Man Sediment Jordan Hydre Surface Sediment Liron Depo Surface Sceld Observa	GY rology Indicators (any one fater (A1) er Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6 attions: Present?	is sufficier) No	Sp Ma	arsely Vege arl Deposits drogen Sulf y-Season W her (Explain	tated Cor (B15) ide Odor (ater Tabla in Rema	ncave Surfac (C1) e (C2)	ce (B8)	Water Sta □ Drainage □ Oxidized □ Presence □ Salt Depo □ Stunted o ☑ Geomorp □ Shallow A □ Microtopo ☑ FAC-neuto	ained Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C of Reduced Iron (C4) osits (C5) or Stressed Plants (D1) hic Position (D2) Aquitard (D3) ographic Relief (D4) ral Test (D5)
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eslope wetland in Susitna floodplain with algal crust in game trail and low points.	YDROLO Vetland Hydr rimary Indicat Surface W High Water Saturation Water Man Sediment Drift Depo ✓ Algal Mat Iron Depo Surface So ield Observa Surface Water Water Table P Saturation Pre includes capil	GY rology Indicators (any one fater (A1) er Table (A2) er (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6 etions: Present? resent? lary fringe)	Yes Yes	No ●No ●No ●No ●	Sp Ma Hy Dr Ot	arsely Vege arl Deposits drogen Sulf y-Season W her (Explain epth (inches epth (inches	tated Cor (B15) fide Odor (ater Tabla in Rema	(C1) e (C2) rks)	wetla	Water Sta □ Drainage □ Oxidized □ Presence □ Salt Depo □ Stunted o ☑ Geomorp □ Shallow A □ Microtopo ☑ FAC-neuto	ained Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C of Reduced Iron (C4) osits (C5) or Stressed Plants (D1) hic Position (D2) Aquitard (D3) ographic Relief (D4) ral Test (D5)

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