WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Denali Borough	Sampling Dat	e: 01-Aug-13
Applicant/Owner: Alaska Energy Authority			Sampling Point:	SW13_T202_06
Investigator(s): CTS, AMD	Landform (hills	ide, terrace, humm	ocks etc.): Toeslope	
Local relief (concave, convex, none): flat	Slope:	% / <u>3.2</u> ° Ele	evation: 674	
Subregion : Interior Alaska Mountains Lat.:	63.394841313	Long.:	-148.538549661	Datum: NAD83
Soil Map Unit Name:			NWI classification: PSS	S1B
	ar? Yes (tly disturbed? problematic?	Are "Normal Ci	no, explain in Remarks.) rcumstances" present? ^Y lain any answers in Remark	res
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point l	ocations, transe	ects, important feature	es, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes () Yes () Yes ()	No () No () No ()	Is the Sampled Area within a Wetland? Yes No
Remarks:			

VEGETATION - Use scientific names of plants. List all species in the plot.

	Absolute Dominant Indicator Dominance Test worksheet:								
Tre	e Stratum	% Cove		Status	Number of Dominant Species				
1.	Picea glauca	35		FACU	That are OBL, FACW, or FAC: (A)				
2.		0			Total Number of Dominant Species Across All Strata: 4 (B)				
3.		•	_		Percent of dominant Species				
4.		0			That Are OBL, FACW, or FAC: 75.0% (A/B)				
5.		0	_						
	Total Cover	35	_		Prevalence Index worksheet: Total % Cover of: Multiply by:				
Sap	ling/Shrub Stratum 50% of Total Cover:	17.5 20	% of Total Cover:	7	OBL Species 1.1 x 1 = 1.1				
1.	Salix reticulata	65		FAC	FACW Species $31 \times 2 = 62$				
2.	Salix richardconii	25		FACW	FAC Species <u>137.3</u> x 3 = <u>411.9</u>				
3.	Chanhardia canadanaia			FACU	FACU Species 55.1 x 4 = 220.4				
4.	Salix glauca			FAC	UPL Species $0 \times 5 = 0$				
5.	Salix pseudomonticola			FAC	Column Totals: 224.5 (A) 695.4 (B)				
6.	Dasiphora fruticosa	1		FAC	Column rotals. 227.3 (A) (B)				
7.	Rhododendron groenlandicum	1		FAC	Prevalence Index = B/A = <u>3.098</u>				
8.	Salix pulchra			FACW					
9.	Vaccinium oxycoccos			OBL	✓ Dominance Test is > 50%				
10.					Prevalence Index is ≤3.0				
	Total Cover		_		Morphological Adaptations ¹ (Provide supporting data in				
Her	b Stratum 50% of Total Cover:	58.55 20	% of Total Cover:	23.42	Remarks or on a separate sheet)				
1.	Equisetum arvense	65	\checkmark	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)				
2.	Parnassia palustris	2		FACW	¹ Indicators of hydric soil and wetland hydrology must				
3.	Carex membranacea	-		FACW	be present, unless disturbed or problematic.				
4.	Carex aquatilis	. 1		OBL	Plot size (radius, or length x width) 10m				
5.	Calamagrostis canadensis	1		FAC	Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes				
6.	Polemonium acutiflorum	0.1		FAC	(Where applicable)				
7.	Anemone richardsonii	0.1		FAC	% Bare Ground				
8.	Carex canescens (IAM)	0.1		FAC	Total Cover of Bryophytes80				
9.	Rubus arcticus (IAM)	0.1		FACU					
10.		0			Hydrophytic				
	Total Cover	72.4	_		Vegetation				
	50% of Total Cover:	36.2 20	% of Total Cover:	14.48	Present? Yes \bullet No \bigcirc				
Dom	arks: Lichon – 0								

Remarks: Lichen = 0

Underson Color (model) % Color (model) % Type ¹ Loc ² Texture Remarks 0-4 100	Profile Descriptio		the depth ne	eeded to docu	iment the in		firm the ab		cators)		
0-4 100 Henic Organics 4-7 SGY 4/1 95 10YR 4/6 5 C PL Chay Learn 4-7 SGY 4/1 95 10YR 4/6 5 C PL Chay Learn 4	Depth (inches)	Color (m	oist)	%	Color (n	noist)	%	Type ¹	Loc 2	Texture	Remarks
* Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining, RC=Root Channel. M=Matrix * Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining, RC=Root Channel. M=Matrix * Hydric Soil Indicators: Indicators for Problematic Hydric Soils? * Histogic of riskel (A1) Alaska Redox Without Hue SY or Redder * Hydric Soil Factors: Indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, and an appropriate landscape position must be present * Alaska Gleyed (A13) * One indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, and an appropriate landscape position must be present * Alaska Gleyed Pores (A15) * Give details of color change in Remarks Restrictive Layer (if present): Type: Type: Perform Layer (if present): * Surdator Meter (Al)	0-4		,					-11		Hemic Organics	
* Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining, RC=Root Channel. M=Matrix * Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining, RC=Root Channel. M=Matrix * Hydric Soil Indicators: Indicators for Problematic Hydric Soils? * Histogic of riskel (A1) Alaska Redox Without Hue SY or Redder * Hydric Soil Factors: Indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, and an appropriate landscape position must be present * Alaska Gleyed (A13) * One indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, and an appropriate landscape position must be present * Alaska Gleyed Pores (A15) * Give details of color change in Remarks Restrictive Layer (if present): Type: Type: Perform Layer (if present): * Surdator Meter (Al)	4-7	5GY	4/1	95	10YR	4/6	5	С	PL	Clay Loam	
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Alaska Gleyed (A13) and an appropriate landscape position must be present Alaska Redox (A14) Give details of color change in Remarks Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes ● No ○ Remarks: Pit quickly filled with water, lots of woody debris HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one is sufficient) Inundation Visible on Aerial Imagery (B7) Surface Water (A1) Give details of color (C1) Surface Water (A1) Hydrology Indicators: Primary Indicators (any one is sufficient) Inundation Visible on Aerial Imagery (B7) Surface Water (A1) Alaska (B1) Water Table (A2) Sparsely Vegetated Concave Surface (B8) Oxidized Rhizospheres along Living Roots (C3) Sufface Soli Cracks (B2) Dry-Season Water Table (C2) Sufface Soli Cracks (B6) Other (Explain in Remarks) Field Observations: Surface Soli Cracks (B6) Field Observations: Surface Kaler Present? Surface Soli Cracks (B6) Depth (inches): 2 Sturation Present? Yes No Depth (inches): 1 Depth (inches): 1 No <td>Hydrogen S</td> <td>ulfide (A4)</td> <td></td> <td></td> <td> Alas</td> <td>ka Redox W</td> <td>/ith 2.5Y F</td> <td>lue</td> <td>L</td> <td>Other (Explain in Remark</td> <td>S)</td>	Hydrogen S	ulfide (A4)			Alas	ka Redox W	/ith 2.5Y F	lue	L	Other (Explain in Remark	S)
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Pit quickly filled with water, lots of woody debris HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (two or more are required) Primary Indicators (any one is sufficient) Water Stained Leaves (B9) Surface Water (A1) Inundation Visible on Aerial Imagery (B7) Drainage Patterns (B10) Image Patterns (B10) Matter Stained Leaves (B9) Dividized Rhizospheres along Living Roots (C3) Image Patterns (B1) Marl Deposits (B15) Drainage Patterns (B10) Image Patterns (B1) Hydrogen Sulfide Odor (C1) Sait Deposits (C5) Sediment Deposits (B2) Dry-Season Water Table (C2) Stunted or Stressed Plants (D1) Drift Deposits (B3) Other (Explain in Remarks) Geomorphic Position (D2) Algal Mat or Crust (B4) Shallow Aquitard (D3) Microtopographic Relief (D4) Iron Deposits (B5) Depth (inches): FAC-neutral Test (D5) Field Observations: Surface Water Present? Yes No Depth (inches): 2 Water Table Present? Yes No Depth (inches): 1 No No	Depth (inche	es):									
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Remarks: