WETLAND DETERMINATION DATA FORM - Alaska Region

5.	Project	/Site: Susitna-Watana Hydroelectric Project		Borou	gh/City:	Matanusk	xa-Susitna Borough Sampling Date: 01-Aug-12
Local relief (concave, convex, none):	Applica	ant/Owner: Alaska Energy Authority					Sampling Point: SW12_T52_03
Local relief (concave, convex, none): concave Slope: 1.7 % 1.0 ° Elevation: 730 Subregion: Interior Alaska Mountains Lat.: 62.7922182415 Long.: -148.535493304 Datum: WGS84 Soil Map Unit Name: NWI classification: PSS1B	Investi			Land	dform (hills	side, terrac	
Submoregion Interior Alaska Mountains	Local r						
NWI classification: PSS1B			l at	— · · 62.7	 02218241		
Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation Soil On Hydrology Significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation Soil On Hydrology In aturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No Suttand Hydrology Present? Yes No Suttand Hydrol			Lut	02.7	322 1024 1	<u> </u>	
Are Vegetation					V /	● Na ○	
Hydric Soil Present? Yes ● No	Are V	regetation , Soil , or Hydrology egetation , Soil , or Hydrology . MARY OF FINDINGS - Attach site map sho	significal naturally owing sa	ntly dist	urbed? matic?	Are "N (If nee	lormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.)
Wetland Hydrology Present? Yes No Within a Wetland? Yes No Vetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Within a Wetland? Yes No Vetland? Yes No Within a Wetland? Yes No Within a Wetland? Yes No Within a Wetland? Yes No Vetland? Yes No		(a)			Is	the Sam	pled Area
Remarks: Fnwbs, boderline to open black spruce forest, could argue >=25% cover of Picmar maybe		· · · · · · · · · · · · · · · · · · ·			wi	thin a W	etland? Yes ● No ○
Absolute Modern		Wetland Hydrology Present? Yes No	<i></i>				
Tree Stratum % Cover Species? Status Number of Dominant Species That are OBL, FACW, or FAC: 4 (A) 1. Picea mariana 20 ✓ FACW Total Number of Dominant Species Across All Strata: 4 (B) 3.			ist all s	pecies	s in the	plot.	
1. Picea mariana 20	Tre	e Stratum					
2.	1.	Picea mariana	2	0	✓	FACW	
3.	2.)			
4	3.)			
Total Cover: 20 Prevalence Index worksheet: Total Cover: 20 Prevalence Index worksheet: Total % Cover of: Multiply by: OBL Species 0 x 1 = 0 Salix pulchra 5 FACW FACW Species 45 x 2 = 90 2. Betula nana 10 FAC FAC Species 88 x 3 = 264 3. Vaccinium uliginosum 40 ✓ FAC FACU Species 0 x 4 = 0 4. Vaccinium vitis-idaea 8 FAC UPL Species 0 x 5 = 0 5. Ledum groenlandicum 3 FAC Column Totals: 133 (A) 354 (C) 6. Ledum decumbens 10 FACW Prevalence Index = B/A = 2 662	4.		C)			
Total Cover:	5.)			Prevalence Index worksheet:
1. Salix pulchra 5		Total Cove	r: <u>20</u>	_			
2. Betula nana 10	Sap	ling/Shrub Stratum 50% of Total Cover:	10 2	0% of To	otal Cover:	4	OBL Species0 x 1 =0
2. Betula nana 10 FAC FAC Species 88 x 3 = 264 3. Vaccinium uliginosum 40 ✓ FAC FAC USpecies 0 x 4 = 0 4. Vaccinium vitis-idaea 8 FAC UPL Species 0 x 5 = 0 5. Ledum groenlandicum 3 FAC Column Totals: 133 (A) 354 (6. Ledum decumbens 10 FACW Prevalence Index = B/A = 2 662	1.	Salix pulchra	5	;		FACW	FACW Species 45 x 2 = 90
4. Vaccinium vitis-idaea 8		· · ·		_		FAC	FAC Species <u>88</u> x 3 = <u>264</u>
5. Ledum groenlandicum 3 FAC Column Totals: 133 (A) 354 (6. Ledum decumbens 10 FACW	3.	Vaccinium uliginosum	4	0	✓	FAC	FACU Species0 x 4 =0
6. Ledum decumbens 10 FACW Prevalence Index = B/A = 2.662	4.	Vaccinium vitis-idaea	8	3		FAC	UPL Species <u>0</u> x 5 = <u>0</u>
6. Ledum decumbens 10 FACW Prevalence Index = B/A = 2.662	5.	Ledum groenlandicum	3	3		FAC	Column Totals: 133 (A) 354 (B)
Prevalence index = B/A = 2.662	6.	Ledum decumbens	1	0		FACW	
7. Empetrum nigrum 1 FAC FAC ZEOZ	7.	Empetrum nigrum	1			FAC	Prevalence Index = B/A =
8 O Hydrophytic Vegetation Indicators:	8.)			
9 0	9.)			
10 0	10.)			✓ Prevalence Index is ≤3.0
<u>Herb Stratum</u> 50% of Total Cover: 38.5 20% of Total Cover: 15.4 Remarks or on a separate sheet)	Her					15.4	
1. Rubus chamaemorus 10 FACW Problematic Hydrophytic Vegetation (Explain)	1.	Rubus chamaemorus	1	0		FACW	
2. Equisetum sylvaticum 20 FAC 1 Indicators of hydric soil and wetland hydrology must		_ · _ ·		_			
3. Carex bigelowii 6 FAC be present, unless disturbed or problematic.	٠.					FAC	be present, unless disturbed or problematic.
4 Plot size (radius, or length x width)							Plot size (radius, or length x width)
5 % Cover of Wetland Bryophytes 80				_			% Cover of Wetland Bryophytes 80
o				_			
7							
Total cover of Bryophiyes 80				·)			lotal Cover of Bryophytes 80
9				<u> </u>			Hydronbydia
Total Cover: 36 Vegetation	10.		- <u> </u>	_	_		Vegetation
50% of Total Cover: 18 20% of Total Cover: 7.2 Present? Yes No					otal Cover:	7.2	

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW12_T52_03

Out of the content o	Depth (inches)	C-1 (0/	0-1	-1-43	0/	- 1	2	Texture	Remarks
4-7		Color (mo	oist)	<u>%</u> _	Color (m	oist)	_%_	Type ¹	<u>Loc</u> ²		Remarks
7-9 SY 4/1 95 10YR 3/6 5 C PL Sandy Learn 9-12 56Y 5/1 70 10YR 3/6 30 C PL Sandy Learn 12-15 SY 4/2 70 10YR 4/6 30 C M Smrdy Learn 12-15 SY 4/2 70 10YR 4/6 30 C M Smrdy Learn Type: C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining, RC=Root Channel. M=Matrix Verific Soil Indicators: Indicators for Problematic Hydric Soils? History Lippedion (A2) History Exploration (A2) History Exploration (A2) History Explexion (A2) History Exploration (A3) Alaska Redox (A14) Alaska Alpine svaries (TA5) History Explain in Remarks) 3 One indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, and an appropriate landscape position must be present 4 Give details of color change in Remarks **Sistrictive Layer (if present): Type: Depth (inches): **PPROLOGY** **Vestar Salization (A3) Hydric Soil Present? Yes • No Depth (inches): **Hydric Soil Present? Yes • No Depth (inches): **Diff Deposits (83) Again Mat or Chust (R4) Diff Deposits (85) Diff Deposits (85) Diff Deposits (85) Diff Deposits (85) Diff Depos		10YR	3/2		10YR	3/6			DI DI		5% semirounded gravel
9-12 SGY 5/1 70 10/R 3/6 30 C PL Sandy Loam podets of gley in pere lining and alors 12-15 SY 4/2 70 10/R 4/6 30 C M Sandy Loam podets of gley in pere lining and alors Type: C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining. RC=Root Channel. M=Matrix Pristics of Indicators: Indicators for Problematic Hydric Solis? Alaska Gleyed Without Hue 5Y or Redder Underlying Layer Alaska Gleyed Without Hue 5Y or Redder Underlying Layer Alaska Gleyed Without Hue 5Y or Redder Underlying Layer Alaska Gleyed Without Hue 5Y or Redder Underlying Layer Alaska Gleyed Without Hue 5Y or Redder Underlying Layer Alaska Gleyed Without Hue 5Y or Redder Underlying Layer Alaska Gleyed Without Hue 5Y or Redder Underlying Layer Alaska Gleyed Without Hue 5Y or Redder Underlying Layer Alaska Gleyed Without Hue 5Y or Redder Underlying Layer Alaska Gleyed Without Hue 5Y or Redder Underlying Layer Alaska Gleyed Without Hue 5Y or Redder Underlying Layer Alaska Gleyed Without Hue 5Y or Redder Underlying Layer Alaska Gleyed Without Hue 5Y or Redder Underlying Layer Alaska Gleyed Without Hue 5Y or Redder Underlying Layer Alaska Gleyed Without Hue 5Y or Redder Underlying Layer Alaska Gleyed Without Hue 5Y or Redder Underlying Layer Alaska Gleyed Without Hue 5Y or Redder Underlying Layer Alaska Gleyed Without Hue 5Y or Redder Underlying Layer Alaska Alpine swales (TAS) Other (Explain in Remarks Alaska Alpine swales (TAS) Alaska Alpine sw										-	
Type: C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining, RC=Root Channel, M=Matrix Marker Soil Indicators: Indicators for Problematic Hydric Soils Alaska Coley Change (TA4) Alaska Gleyed Without Hue 5Y or Redder Underlying Layer Underlying Layer Underlying Layer Alaska Coley Change (TA4) Alaska Redox With 2.5Y Hue Other (Explain in Remarks) Alaska Redox (A14) Alaska Redox With 2.5Y Hue Other (Explain in Remarks) Alaska Redox (A14) Alaska Redox (A14) Alaska Redox (A14) Alaska Redox (A14) Alaska Redox (A15) Alaska Redox (A16) Alaska Redox (A17) Alaska Redox (A18) Alaska Redox (A18) Alaska Redox (A19) Alas											-
Type: C-Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining, RC=Root Channel. M=Matrix Histosol or Histel (A1)											
Histosol or Histel (A1)	12-15	51	4/2		TUTK	4/6	30			Sality Loani	pockets or giey in pore lining and along
Histosol or Histel (A1)						21			Charles		
Histosol or Histel (A1) Histic Epipedom (A2) Histic Bask a Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed Pores (A15) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed (A15) Alaska Gleyed (Alas) Alaska Gleyed (Alasa Alaska Gleyed (Alasa Alaska Gleyed (Alasa Alaska Gleyed (Alas	Type: C=Concent	ration. D	=Depletion	. RM=Reduc						annel. M=Matrix	
Histic Epipedon (A2) Hydrogen Sulfide (A4) Hydrogen Sulfide (A4) Alaska Redox With 1.2.5Y Hue Other (Explain in Remarks) Alaska Redox (A14) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed Pores (A15) **Give details of color change in Remarks **Give details of color change in Remarks **Buffic Carlos (A14) **Alaska Gleyed Pores (A15) **Buffic Carlos (A15) **Buffic Carlos (A14) **Alaska Gleyed Pores (A15) **Buffic Carlos (A15) **Buffic Carlos (A14) **Alaska Gleyed Pores (A15) **Buffic Carlos (A14) **Alaska Gleyed Pores (A15) **Buffic Carlos (A15) **Buffic Carlos (A14) **Buffic Carlos (A15) **Buffic Carlos (A14) **Buffic Carlos (A14) **Buffic Carlos (A15) **Buffic Carlos (A15)	<u>-</u>							4	oils:	1	
Product Supplement (Pay)	_	. ,						-			Hue 5Y or Redder
Thick Dark Surface (A12) Alaska Gleyed (A13) Alaska Gleyed Pores (A15) Setrictive Layer (if present): Type: Depth (inches): Primary Indicators (invo or more are required) Surface Water (A1) High Water Table (A2) Setrictive Layer (B15) Setrictive Layer (If present): Type: Depth (inches): Water Marks (B1) Setrictive Layer (B15) Setrictive Layer (B15) Water Marks (B1) Setrictive Layer (B15) Setrictive Layer (B15) Setrictive Layer (B15) Setrictive Layer (B15) Water Marks (B1) Setrictive Layer (B15) Water Marks (B1) Setrictive Layer (B15) Setrictive Layer (B15) Water Marks (B1) Setrictive Layer (B15) Setrictive Layer (B15) Water Marks (B1) Setrictive Layer (B15) Setrictive Layer (B15) Water Marks (B1) Setrictive Layer (B15) Setrictive La	=	` '				•	•	•		, , ,	·ks)
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Alaska Redox (A14) Alaska Gleyed Pores (A15) Alaska Gleyed Pores (No one or a previous inspection) if available: Alaska Gleyed Pores (A15) Alaska Gleyed Pores (No one or a previous inspection) if available: Alaska Gleyed Pores (No one or a previous inspection) if available: Alaska Gleyed Pores (No one or a previous inspection) if available: Alaska Gleyed Pores (No one or a previous inspection) if available:	_	•	.)				, , ,		, ,	,	hydrology,
### Hydric Soil Present? Yes No Depth (inches): #### Hydric Soil Present? Yes No Depth (inches): ###################################	¬ ' `				and an	appropriate	e ianascap	e position r	nust be pre	esent	
Type: Depth (inches): ### Write Soil Present? Yes No Depth (inches): ### Write Soil Present? Yes No Depth (inches): #### No Depth (inches): ### Write Soil Present? Yes No Depth (inches): #### Write Soil Present? Yes No Depth (inches): #### Write Soil Present? Yes No Depth (inches): ##### Write Soil Present? Yes No Depth (inches): ###################################	Alaska Gleyed F	Pores (A1	5)		4 Give d	etails of co	lor change	e in Remark	S		
POROLOGY Vettand Hydrology Indicators: Secondary Indicators (two or more are required) Water Stained Leaves (B9) Surface Water (A1) High Water Table (A2) Sparsely Vegetated Concave Surface (B8) Water Marks (B1) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Drift Deposits (B2) Drift Deposits (B2) Drift Deposits (B3) Other (Explain in Remarks) Weter Agliow Aquitard (D3) I ron Deposits (B5) Surface Water Present? Yes No Depth (inches): Water Table (C2) Water Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No No No Depth (inches): Wetland Hydrology Present? Yes No No No Depth (inches): Wetland Hydrology Present? Yes No No No No No Depth (inches): Wetland Hydrology Present? Yes No No No No No No No No No N	estrictive Layer (if	present):									
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YDROLOGY Vettand Hydrology Indicators: Secondary Indicators (two or more are required)	. / F										
Retiand Hydrology Indicators: Secondary Indicators (two or more are required) Primary Indicators (any one is sufficient) Inundation Visible on Aerial Imagery (B7) Water Stained Leaves (B9) Surface Water (A1) Inundation Visible on Aerial Imagery (B7) Drainage Patterns (B10) High Water Table (A2) Sparsely Vegetated Concave Surface (B8) Oxidized Rhizospheres along Living Roots (C3 Saturation (A3) Marl Deposits (B15) Presence of Reduced Iron (C4) 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) Iron Deposits (B5) Microtopographic Relief (D4) Surface Soil Cracks (B6) FAC-neutral Test (D5) ield Observations: Wetland Hydrology Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Depth (inches): 4 Water Table Present? Yes No Depth (inches): 4 Wetland Hydrology Present? Yes No Depth (inches): 4	Depth (inches):									•	
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Surface Water (A1)	Depth (inches): emarks:									,	
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Saturation (A3)	Depth (inches): emarks: YDROLOGY //etland Hydrolog	any one								Secondary Inc	nined Leaves (B9)
Water Marks (B1)	Depth (inches): emarks: YDROLOGY //etland Hydrolog /rimary Indicators (Surface Water	(any one		t)						Secondary Inc	ained Leaves (B9) Patterns (B10)
Sediment Deposits (B2)	Depth (inches): emarks: YDROLOGY //etland Hydrolog /rimary Indicators (Surface Water High Water Tal	(any one (A1) ble (A2)		t)	Sp	arsely Vege	etated Cor			Secondary Inc Secondary Inc Water Sta Drainage Oxidized	nined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3
□ Drift Deposits (B3) □ Other (Explain in Remarks) □ Geomorphic Position (D2) □ Algal Mat or Crust (B4) □ Shallow Aquitard (D3) □ Iron Deposits (B5) □ Microtopographic Relief (D4) □ Surface Soil Cracks (B6) □ FAC-neutral Test (D5) □ Idld Observations: Surface Water Present? Yes □ No ● Depth (inches): Water Table Present? Yes □ No ● Depth (inches): Saturation Present? Yes □ No □ Depth (inches): 4 Wetland Hydrology Present? Yes □ No □ Depth (inches): 4 Wetland Hydrology Present? Yes □ No □ Depth (inches): 4 Wetland Hydrology Present? Yes □ No □ Depth (inches): 4 Wetland Hydrology Present? Yes □ No □ Depth (inches): 4	Depth (inches): emarks: YDROLOGY /etland Hydrolog /rimary Indicators (Surface Water High Water Tal Saturation (A3)	(A1) ble (A2)		t)	☐ Sp. ☐ Ma	arsely Vege Irl Deposits	etated Cor (B15)	ncave Surfac		Secondary Inc Water Sta Drainage Oxidized Presence	nined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3 of Reduced Iron (C4)
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□ Iron Deposits (B5) □ Microtopographic Relief (D4) □ Surface Soil Cracks (B6) □ FAC-neutral Test (D5) □ FAC-neutral Test (D5	Pepth (inches): emarks: YDROLOGY /etland Hydrolog rimary Indicators (Surface Water High Water Tal Saturation (A3) Water Marks (E Sediment Depo	(A1) ble (A2)) 31) psits (B2)	is sufficien	t)	Sp. Ma	arsely Vege rl Deposits drogen Suli y-Season W	etated Cor (B15) fide Odor /ater Tabl	ncave Surfac (C1) e (C2)		Secondary Inc Water Sta Drainage Oxidized Presence Salt Depo	nined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3 of Reduced Iron (C4) sits (C5) or Stressed Plants (D1)
Surface Soil Cracks (B6) FAC-neutral Test (D5) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? (includes capillary fringe) Pescribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: Setting Surface Soil Cracks (B6) Wetland Hydrology Present? Yes No Solution No	Pepth (inches): emarks: YDROLOGY Vetland Hydrolog Primary Indicators (Surface Water High Water Tal Saturation (A3) Water Marks (E Sediment Depo Drift Deposits ((any one (A1) ble (A2)) (B1) psits (B2) (B3)	is sufficien	t)	Sp. Ma	arsely Vege rl Deposits drogen Suli y-Season W	etated Cor (B15) fide Odor /ater Tabl	ncave Surfac (C1) e (C2)		Secondary Inc Water Sta Drainage Oxidized Presence Salt Depo	nined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3 of Reduced Iron (C4) sits (C5) or Stressed Plants (D1) hic Position (D2)
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