## WETLAND DETERMINATION DATA FORM - Alaska Region

Applica	t/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 25-Jun-12
	ant/Owner: Alaska Energy Authority				Sampling Point: SW12_T21_04
nvesti	igator(s): SLI, LMF		Landform (hil	lside, terrac	e, hummocks etc.): Hillside
	relief (concave, convex, none): hummocky		Slope:	% / 6.0	R-
	gion : Interior Alaska Mountains	l at ·	- · <u></u> 62.78608815		Long.: -148.607225739 Datum: NAD83
		Lut	02.70000013	7-4	
	ap Unit Name:		0 V	No ○	NWI classification: Upland
Are \	matic/hydrologic conditions on the site typical for thi /egetation  , Soil  , or Hydrology   /egetation  , Soil  , or Hydrology    MARY OF FINDINGS - Attach site map sh	significant	tly disturbed? problematic?	Are "N (If nee	(If no, explain in Remarks.)  Iormal Circumstances" present? Yes ● No ○  Ided, explain any answers in Remarks.)  Iormal Circumstances" present? Yes ● No ○  Ided, explain any answers in Remarks.)
	Hydric Soil Present? Yes ○ No	, <b>⊙</b>			pled Area etland? Yes ◯ No ◉
	Wetland Hydrology Present? Yes O No	•	W	ithin a W	etiand? Tes © No ©
/EGI	ETATION - Use scientific names of plants.	. List all sp		•	Dominance Test worksheet:
Tre	ee Stratum	% Cove	r Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 5 (A)
	Picea glauca		_	FACU	Total Number of Dominant
2.		0	_		Species Across All Strata: 7 (B)
3.			-		Percent of dominant Species
4.			- =		That Are OBL, FACW, or FAC: 71.4% (A/B)
5.	Total Cov pling/Shrub Stratum 50% of Total Cover:		_	: 1	Prevalence Index worksheet:  Total % Cover of: Multiply by:  OBL Species 1 x 1 = 1
Jul	Jing, Jin ab Jiratani				OBL Species x 1 =1
					FACW Species 12 v 2 = 24
1.	Picea glauca			FACU	FAC Species 12 x 2 = 24
2.	Vaccinium uliginosum	10		FAC	FAC Species 65 x 3 = 195
2. 3.	Vaccinium uliginosum Vaccinium vitis-idaea	10 5		FAC FAC	FAC Species 65 x 3 = 195 FACU Species 16 x 4 = 64
2. 3. 4.	Vaccinium uliginosum Vaccinium vitis-idaea Arctous ruber	10 5 10		FAC FAC	FAC Species 65 x 3 = 195  FACU Species 16 x 4 = 64  UPL Species 0 x 5 = 0
2. 3. 4. 5.	Vaccinium uliginosum Vaccinium vitis-idaea Arctous ruber Empetrum nigrum	10 5 10 30		FAC FAC FAC	FAC Species 65 x 3 = 195 FACU Species 16 x 4 = 64
2. 3. 4. 5.	Vaccinium uliginosum Vaccinium vitis-idaea Arctous ruber Empetrum nigrum Rhododendron tomentosum	10 5 10 30 10		FAC FAC FAC FAC	FAC Species 65 x 3 = 195  FACU Species 16 x 4 = 64  UPL Species 0 x 5 = 0
2. 3. 4. 5.	Vaccinium uliginosum Vaccinium vitis-idaea Arctous ruber Empetrum nigrum Rhododendron tomentosum Betula nana	10 5 10 30 10		FAC FAC FAC FAC FAC	FAC Species 65 x 3 = 195  FACU Species 16 x 4 = 64  UPL Species 0 x 5 = 0  Column Totals: 94 (A) 284 (B  Prevalence Index = B/A = 3.021
2. 3. 4. 5. 6. 7.	Vaccinium uliginosum Vaccinium vitis-idaea Arctous ruber Empetrum nigrum Rhododendron tomentosum Betula nana Rosa acicularis	10 5 10 30 10 10		FAC FAC FAC FAC FACW FAC FACU	FAC Species 65 x 3 = 195  FACU Species 16 x 4 = 64  UPL Species 0 x 5 = 0  Column Totals: 94 (A) 284 (B  Prevalence Index = B/A = 3.021  Hydrophytic Vegetation Indicators:
2. 3. 4. 5. 6. 7. 8. 9.	Vaccinium uliginosum Vaccinium vitis-idaea Arctous ruber Empetrum nigrum Rhododendron tomentosum Betula nana Rosa acicularis Andromeda polifolia (IAM)	10 5 10 30 10 10 10		FAC FAC FAC FAC FAC OBL	FAC Species 65 x 3 = 195  FACU Species 16 x 4 = 64  UPL Species 0 x 5 = 0  Column Totals: 94 (A) 284 (B  Prevalence Index = B/A = 3.021  Hydrophytic Vegetation Indicators:  ✓ Dominance Test is > 50%
2. 3. 4. 5. 6. 7. 8. 9.	Vaccinium uliginosum Vaccinium vitis-idaea Arctous ruber Empetrum nigrum Rhododendron tomentosum Betula nana Rosa acicularis Andromeda polifolia (IAM) Salix pulchra	10 5 10 30 10 10 1 1 1		FAC FAC FAC FAC FACW FAC FACU	FAC Species $65$ $\times 3 = 195$ FACU Species $16$ $\times 4 = 64$ UPL Species $0$ $\times 5 = 0$ Column Totals: $94$ (A) $284$ (B Prevalence Index = B/A = $3.021$ Hydrophytic Vegetation Indicators:  V Dominance Test is > 50%  Prevalence Index is $\leq 3.0$
2. 3. 4. 5. 6. 7. 8. 9. 10.	Vaccinium uliginosum Vaccinium vitis-idaea Arctous ruber Empetrum nigrum Rhododendron tomentosum Betula nana Rosa acicularis Andromeda polifolia (IAM) Salix pulchra  Total Coverb Stratum	10 5 10 30 10 10 1 1 2 ver: 89		FAC FAC FACW FAC FACW FAC FACW FACU OBL	FAC Species $65$ $\times 3 = 195$ FACU Species $16$ $\times 4 = 64$ UPL Species $0$ $\times 5 = 0$ Column Totals: $94$ (A) $284$ (B  Prevalence Index = B/A = $3.021$ Hydrophytic Vegetation Indicators:  Dominance Test is > 50%  Prevalence Index is $\leq 3.0$ Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
2. 3. 4. 5. 6. 7. 8. 9. 10.	Vaccinium uliginosum Vaccinium vitis-idaea Arctous ruber Empetrum nigrum Rhododendron tomentosum Betula nana Rosa acicularis Andromeda polifolia (IAM) Salix pulchra  Total Coverib Stratum	10 5 10 30 10 10 1 1 2 ver: 89 44.5 20	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	FAC FAC FACW FAC FACW FAC FACW FACU OBL	FAC Species $65$ $\times 3 = 195$ FACU Species $16$ $\times 4 = 64$ UPL Species $0$ $\times 5 = 0$ Column Totals: $94$ (A) $284$ (B  Prevalence Index = B/A = $3.021$ Hydrophytic Vegetation Indicators:  Dominance Test is > 50%  Prevalence Index is $\leq 3.0$ Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation (Explain)
2. 3. 4. 5. 6. 7. 8. 9. 10. Her 1. 2. 3.	Vaccinium uliginosum Vaccinium vitis-idaea Arctous ruber Empetrum nigrum Rhododendron tomentosum Betula nana Rosa acicularis Andromeda polifolia (IAM) Salix pulchra  Total Cores 50% of Total Cover:	10 5 10 30 10 10 1 1 1 2 ver: 89 44.5 20 0 0	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	FAC FAC FACW FAC FACW FAC FACW FACU OBL	FAC Species $65$ $\times 3 = 195$ FACU Species $16$ $\times 4 = 64$ UPL Species $0$ $\times 5 = 0$ Column Totals: $94$ (A) $284$ (B  Prevalence Index = B/A = $3.021$ Hydrophytic Vegetation Indicators:  Dominance Test is > 50%  Prevalence Index is $\leq 3.0$ Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
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2. 3. 4. 5. 6. 7. 8. 9. 10. Heat 1. 2. 3. 4. 5.	Vaccinium uliginosum Vaccinium vitis-idaea Arctous ruber Empetrum nigrum Rhododendron tomentosum Betula nana Rosa acicularis Andromeda polifolia (IAM) Salix pulchra  Total Cores 50% of Total Cover:	10 5 10 30 10 10 1 1 2 ver: 89 44.5 20 0 0 0	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	FAC FAC FACW FAC FACW FAC FACW FACU OBL	FAC Species 65 x 3 = 195  FACU Species 16 x 4 = 64  UPL Species 0 x 5 = 0  Column Totals: 94 (A) 284 (B  Prevalence Index = B/A = 3.021  Hydrophytic Vegetation Indicators:  ✓ Dominance Test is > 50%  ☐ Prevalence Index is ≤ 3.0  ☐ Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet)  ☐ Problematic Hydrophytic Vegetation 1 (Explain)  1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
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2. 3. 4. 5. 6. 7. 8. 9. 10. Heal 1. 2. 3. 4. 5. 6. 7.	Vaccinium uliginosum Vaccinium vitis-idaea Arctous ruber Empetrum nigrum Rhododendron tomentosum Betula nana Rosa acicularis Andromeda polifolia (IAM) Salix pulchra  Total Cor	10 5 10 30 10 10 1 1 2 ver: 89 44.5 20 0 0 0 0	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	FAC FAC FACW FAC FACW FAC FACW FACU OBL	FAC Species 65 x 3 = 195  FACU Species 16 x 4 = 64  UPL Species 0 x 5 = 0  Column Totals: 94 (A) 284 (B  Prevalence Index = B/A = 3.021  Hydrophytic Vegetation Indicators:  ✓ Dominance Test is > 50%  Prevalence Index is ≤ 3.0  Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)  ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Plot size (radius, or length x width) 10m  % Cover of Wetland Bryophytes (Where applicable)
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2. 3. 4. 5. 6. 7. 8. 9. 10. Hear 1. 2. 3. 4. 5. 6. 7. 8. 9.	Vaccinium uliginosum Vaccinium vitis-idaea Arctous ruber Empetrum nigrum Rhododendron tomentosum Betula nana Rosa acicularis Andromeda polifolia (IAM) Salix pulchra  Total Cor	10 5 10 30 10 10 1 1 2 ver: 89 44.5 20 0 0 0 0 0	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	FAC FAC FAC FAC FACU OBL FACW FACW FACW FACW	FAC Species 65 x 3 = 195  FACU Species 16 x 4 = 64  UPL Species 0 x 5 = 0  Column Totals: 94 (A) 284 (B  Prevalence Index = B/A = 3.021  Hydrophytic Vegetation Indicators:  ✓ Dominance Test is > 50%  □ Prevalence Index is ≤ 3.0  □ Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet)  □ Problematic Hydrophytic Vegetation 1 (Explain)  1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Plot size (radius, or length x width) 10m  % Cover of Wetland Bryophytes (Where applicable)  % Bare Ground 10  Total Cover of Bryophytes
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US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW12\_T21\_04

Depth —	to the depth n <b>Matrix</b>	eeded to docume	ent the indicator or co	nfirm the abser		itors)		
(inches) Color (r	noist)	%	Color (moist)	%	Type <sup>1</sup>	Loc 2	Texture	Remarks
0-4		100					Fibric Organics	
4-9 5YR	2.5/1	80					Clay Loam	20% coarse-med gravels
9-18 2.5Y	3/3	100					Sandy Clay	med-coarse sand
							Su. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	med course sund
1- 200				~		2 :		
<sup>1</sup> Type: C=Concentration.	D=Depletion				_		annel. M=Matrix	
Hydric Soil Indicators:			Indicators for Pr	4	Hydric So	ils:	_	
Histosol or Histel (A1)		ļ	Alaska Color Cl				Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipedon (A2)		Į	∐ Alaska Alpine s				Underlying Layer	
Hydrogen Sulfide (A4)		I	Alaska Redox V	Vith 2.5Y Hu	e		Other (Explain in Remark	(S)
Thick Dark Surface (A1	.2)		3 One indicator of	hydrophytic	··ocetation	one prin	mary indicator of wetland h	n declary
Alaska Gleyed (A13)			and an appropriat	e landscape	position m	nust be pre	nary indicator or wedana r esent	iyarology,
Alaska Redox (A14)			<sup>4</sup> Give details of co	•	•			
Alaska Gleyed Pores (A	(15)		GIVE uetails of G	Olor Criange i	ПКетагк	5		
Restrictive Layer (if present	:):							
Type:							Hydric Soil Present	? Yes ○ No •
Depth (inches):								
HYDROLOGY								
HYDROLOGY Wetland Hydrology Indi	cators:						_Secondary Indi	cators (two or more are required)
1		t)						cators (two or more are required) ned Leaves (B9)
Wetland Hydrology Indi		t)	☐ Inundation V	isible on Aeri	ial Imager	y (B7)	Water Stai	ned Leaves (B9) Patterns (B10)
Wetland Hydrology Indi Primary Indicators (any on	e is sufficien	t)	☐ Inundation V		_		Water Stai	ned Leaves (B9)
Primary Indicators (any on Surface Water (A1) High Water Table (A2) Saturation (A3)	e is sufficien	t)		etated Conca	_		Water Stai Drainage F Oxidized R Presence of	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4)
Wetland Hydrology Indi Primary Indicators (any on Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	<u>e is sufficien</u>	t)	Sparsely Veg Marl Deposits Hydrogen Su	etated Conca s (B15) Ifide Odor (C	ave Surfac		Water Stai Drainage F Oxidized R Presence c Salt Depos	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4) hits (C5)
Wetland Hydrology Indi Primary Indicators (any on Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	<u>e is sufficien</u>	t)	Sparsely Veg Marl Deposits Hydrogen Su Dry-Season \	etated Conca s (B15) Ifide Odor (C Water Table (	ave Surfac		Water Stai Drainage F Oxidized R Presence c Salt Depos Stunted or	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4) hits (C5) Stressed Plants (D1)
Wetland Hydrology Indi Primary Indicators (any on Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Drift Deposits (B3)	e is sufficien	t)	Sparsely Veg Marl Deposits Hydrogen Su	etated Conca s (B15) Ifide Odor (C Water Table (	ave Surfac		Water Stai Drainage F Oxidized R Presence c Salt Depos Stunted or Geomorph	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4) hits (C5) Stressed Plants (D1) ic Position (D2)
Wetland Hydrology Indi Primary Indicators (any on Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Drift Deposits (B3) Algal Mat or Crust (B4)	e is sufficien	t)	Sparsely Veg Marl Deposits Hydrogen Su Dry-Season \	etated Conca s (B15) Ifide Odor (C Water Table (	ave Surfac		Water Stai Drainage F Oxidized R Presence of Salt Depos Stunted or Geomorph Shallow Ac	Patterns (B10) Patterns (B10) Phizospheres along Living Roots (C3) If Reduced Iron (C4) Positis (C5) Position (D1) Position (D2) Pulitard (D3)
Wetland Hydrology Indi Primary Indicators (any on Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	e is sufficien	t)	Sparsely Veg Marl Deposits Hydrogen Su Dry-Season \	etated Conca s (B15) Ifide Odor (C Water Table (	ave Surfac		Water Stai Drainage F Oxidized R Presence of Salt Depos Stunted or Geomorph Shallow Ac	Patterns (B10) Patterns (B10) Pratterns (B10)
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Wetland Hydrology Indi Primary Indicators (any on Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B Field Observations: Surface Water Present?	e is sufficien  2)  Yes  Yes	) No ⊚	Sparsely Veg Marl Deposits Hydrogen Su Dry-Season V Other (Explain	etated Conca s (B15) Iffide Odor (C Water Table ( in in Remarks ss):	ave Surfac	e (B8)	Water Stai Drainage F Oxidized R Presence of Salt Depos Stunted or Geomorph Shallow Ac Microtopog FAC-neutra	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4) hits (C5) Stressed Plants (D1) hic Position (D2) higuitard (D3) higraphic Relief (D4) hid Test (D5)
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