WETLAND DETERMINATION DATA FORM - Alaska Region

	ct/Site: Susitna-Watana Hydroelectric Project		Borough/0	City: Matanu	ska-Susitna Borough Sampling Date: 07-Aug-13
Applic	cant/Owner: Alaska Energy Authority				Sampling Point: SW13_T142_10
	tigator(s): WAD, RWM		Landfor	m (hillside, terra	ace, hummocks etc.): dune
	relief (concave, convex, none): convex		_	5.2 % / 3	P. Control of the Con
	egion : Interior Alaska Mountains	l at ·	_		Long.: -148.295344 Datum: WGS84
	lap Unit Name:	Lut	03.030		NWI classification: Upland
	imatic/hydrologic conditions on the site typical for this t	ima af va	~~?	Voc (No (
			สเ <i>ร</i> tly disturb		(If no, explain in Remarks.) "Normal Circumstances" present? Yes ● No ○
			problemat		eeded, explain any answers in Remarks.)
				·	
SUM	IMARY OF FINDINGS - Attach site map sho	wing sa	mpling p	point location	ns, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes No	\supset			
	Hydric Soil Present? Yes O No	•			mpled Area Watland? Yes ○ No ◉
	Wetland Hydrology Present? Yes O No			within a \	Wetland? Yes 🔾 No 😌
Ren	marks: graminoid meadow on inactive dune.				
	grammold meddow on mactive dune.				
VEG	ETATION - Use scientific names of plants. L	ist all sp.	ecies in	the plot.	
		Absolute	e Domir	nant Indicato	Dominance Test worksheet:
Tre	ee Stratum	% Cove			
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: 100.0% (A/E
5.		0			Prevalence Index worksheet:
	Total Cover		_		Total % Cover of: Multiply by:
Sa	pling/Shrub Stratum 50% of Total Cover:	0 20	% of Total	Cover: 0	OBL Species 0 x 1 = 0
1.	Vaccinium vitis-idaea	10		FAC	FACW Species 13 x 2 = 26
2.	Salix pulchra	8		FACW	FAC Species <u>60</u> x 3 = <u>180</u>
3.			_ [FACU Species 10 x 4 = 40
4.					
		_		╣	UPL Species0 x 5 =0
5.		0		_	UPL Species 0 x 5 = 0 Column Totals: 83 (A) 246 (
5. 6.		0			Column Totals: <u>83</u> (A) <u>246</u> (
		0 0			-
6. 7. 8.		0 0 0			Column Totals: 83 (A) 246 (Prevalence Index = B/A = 2.964 Hydrophytic Vegetation Indicators:
6. 7. 8. 9.		0 0 0 0 0			Column Totals: 83 (A) 246 (Prevalence Index = B/A = 2.964 Hydrophytic Vegetation Indicators: Dominance Test is > 50%
6. 7. 8.		0 0 0 0 0			Column Totals: 83 (A) 246 (Prevalence Index = B/A = 2.964 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0
6. 7. 8. 9.	Total Cover	0 0 0 0 0 0 0		Cover: 3.6	Column Totals: 83 (A) 246 (Prevalence Index = B/A = 2.964 Hydrophytic Vegetation Indicators: Dominance Test is > 50%
6. 7. 8. 9. 10.	Total Cover erb Stratum 50% of Total Cover:	0 0 0 0 0 0 0 0 0			Column Totals: 83 (A) 246 (Prevalence Index = B/A = 2.964 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)
6. 7. 8. 9. 10. He	Total Coveres Stratum 50% of Total Coveres Carex bigelowii	0 0 0 0 0 0 0		Cover: 3.6 FAC FACU	Column Totals: 83 (A) 246 (Prevalence Index = B/A = 2.964 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)
6. 7. 8. 9. 10. He 1. 2.	Total Coverberb Stratum 50% of Total Cover: Carex bigelowii Anthoxanthum monticola ssp. alpinum	0 0 0 0 0 0 0 0 18 9 20 25		FAC	Column Totals: 83 (A) 246 (Prevalence Index = B/A = 2.964 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)
6. 7. 8. 9. 10. He	Total Cover erb Stratum 50% of Total Cover: Carex bigelowii Anthoxanthum monticola ssp. alpinum Calamagrostis canadensis	0 0 0 0 0 0 0 0 18 9 20 25		FAC FACU	Column Totals: 83 (A) 246 (Prevalence Index = B/A = 2.964 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.
6. 7. 8. 9. 10. He 1. 2. 3.	Total Cover erb Stratum 50% of Total Cover: Carex bigelowii Anthoxanthum monticola ssp. alpinum Calamagrostis canadensis Stellaria longifolia	0 0 0 0 0 0 0 18 9 20 25 10 25 0.1		FACU FACU	Column Totals: 83 (A) 246 (Prevalence Index = B/A = 2.964 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
6. 7. 8. 9. 10. He 1. 2. 3. 4.	Total Cover 50% of Total Cover: Carex bigelowii Anthoxanthum monticola ssp. alpinum Calamagrostis canadensis Stellaria longifolia Rubus chamaemorus	0 0 0 0 0 0 0 0 18 9 20 25 10 25 0.1		FAC FACU	Column Totals: 83 (A) 246 (Prevalence Index = B/A = 2.964 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.
6. 7. 8. 9. 10. He 1. 2. 3. 4. 5.	Total Cover 50% of Total Cover: Carex bigelowii Anthoxanthum monticola ssp. alpinum Calamagrostis canadensis Stellaria longifolia Rubus chamaemorus	0 0 0 0 0 0 0 0 18 9 20 25 10 25 0.1		FAC FACU	Column Totals: 83 (A) 246 (Prevalence Index = B/A = 2.964 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
6. 7. 8. 9. 10. Hee 1. 2. 3. 4. 5. 6. 7.	Total Cover 50% of Total Cover: Carex bigelowii Anthoxanthum monticola ssp. alpinum Calamagrostis canadensis Stellaria longifolia Rubus chamaemorus	0 0 0 0 0 0 0 0 18 9 20 25 10 25 0.1 5 0		FAC FACU	Column Totals: 83 (A) 246 (Prevalence Index = B/A = 2.964 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) % Cover of Wetland Bryophytes (Where applicable)
6. 7. 8. 9. 10. Hee 1. 2. 3. 4. 5. 6. 7. 8.	Total Cover 50% of Total Cover:	9 20 18 9 25 10 25 0.1 5 0		FAC FACU	Column Totals: 83 (A) 246 (Prevalence Index = B/A = 2.964 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) % Cover of Wetland Bryophytes (Where applicable) % Bare Ground
6. 7. 8. 9. 10. Hee 1. 2. 3. 4. 5. 6. 7. 8. 9.	Total Cover berb Stratum Carex bigelowii Anthoxanthum monticola ssp. alpinum Calamagrostis canadensis Stellaria longifolia Rubus chamaemorus	9 20 18 9 25 10 25 0.1 5 0		FAC FACU	Column Totals: 83 (A) 246 (Prevalence Index = B/A = 2.964 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0
6. 7. 8. 9. 10. Hee 1. 2. 3. 4. 5. 6. 7. 8. 9.	Total Cover erb Stratum 50% of Total Cover: Carex bigelowii Anthoxanthum monticola ssp. alpinum Calamagrostis canadensis Stellaria longifolia Rubus chamaemorus	0 0 0 0 0 0 0 0 18 9 20 25 10 25 0.1 5 0 0 0		FAC FACU FAC FAC FAC	Column Totals: 83 (A) 246 (Prevalence Index = B/A = 2.964 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) % Cover of Wetland Bryophytes (Where applicable) % Bare Ground Total Cover of Bryophytes Hydrophytic Vegetation

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SOIL Sampling Point: SW13_T142_10

Depth	Matrix		Re				-	
(inches) Color (Color (moist)	_%_	Type ¹	<u>Loc</u> 2	Texture	Remarks
05		100					Fibric Organics	
.5-4		100					Hemic Organics	
4-14		100					Coarse Sand	
				_				
Type: C=Concentration.	D=Depletion. R	M=Reduced	Matrix ² Locatio	n: PL=Pore	Lining. RC	=Root Cha	nnel. M=Matrix	
Hydric Soil Indicators:		I	ndicators for P	roblematic	Hydric So	oils:		
Histosol or Histel (A1)			Alaska Color C	hange (TA4	4 })		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipedon (A2)			Alaska Alpine s	swales (TA5	5)		Underlying Layer	
Hydrogen Sulfide (A4))		Alaska Redox	With 2.5Y H	lue		Other (Explain in Remark	S)
Thick Dark Surface (A	12)							
Alaska Gleyed (A13)			one indicator of and an appropria				nary indicator of wetland h esent	yarology,
Alaska Redox (A14)				·	•	•		
Alaska Gleyed Pores (A15)		⁴ Give details of c	color change	e in Remark	S		
estrictive Layer (if presen	t):							
Type:							Hydric Soil Present	? Yes O No 🖲
* *								
Depth (inches): emarks: b hydric soil indicators								
Depth (inches): emarks:								
Depth (inches): emarks: o hydric soil indicators YDROLOGY								
Depth (inches): emarks: o hydric soil indicators YDROLOGY Vetland Hydrology Ind								cators (two or more are required)
Depth (inches): emarks: o hydric soil indicators YDROLOGY Vetland Hydrology Ind							Water Stair	ned Leaves (B9)
Depth (inches): emarks: o hydric soil indicators YDROLOGY Vetland Hydrology Ind Primary Indicators (any or Surface Water (A1)	ne is sufficient)		☐ Inundation \		_		Water Stai	ned Leaves (B9) atterns (B10)
Depth (inches): emarks: b hydric soil indicators YDROLOGY //etland Hydrology Ind rimary Indicators (any or Surface Water (A1) High Water Table (A2)	ne is sufficient)		Sparsely Veg	getated Con	_		Water Stain Drainage P Oxidized R	ned Leaves (B9) latterns (B10) hizospheres along Living Roots (C3
Depth (inches): emarks: o hydric soil indicators YDROLOGY Vetland Hydrology Ind Primary Indicators (any or Surface Water (A1) High Water Table (A2 Saturation (A3)	ne is sufficient)		Sparsely Veg Marl Deposit	getated Con s (B15)	cave Surfac		Water Stain Drainage F Oxidized R Presence o	ned Leaves (B9) latterns (B10) hizospheres along Living Roots (C3 f Reduced Iron (C4)
Depth (inches): emarks: b hydric soil indicators YDROLOGY Vetland Hydrology Ind Primary Indicators (any or Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1)	ne is sufficient)		Sparsely Veg Marl Deposit Hydrogen Su	getated Con s (B15) ulfide Odor	cave Surfac		Water Stail Drainage P Oxidized R Presence o Salt Depos	ned Leaves (B9) atterns (B10) hizospheres along Living Roots (C3 f Reduced Iron (C4) its (C5)
Depth (inches): emarks: o hydric soil indicators YDROLOGY Vetland Hydrology Ind Primary Indicators (any or Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B	ne is sufficient)		Sparsely Veg Marl Deposit Hydrogen St Dry-Season	getated Con ss (B15) ulfide Odor (Water Table	cave Surfac		Water Stail Drainage P Oxidized R Presence o Salt Depos Stunted or	ned Leaves (B9) atterns (B10) hizospheres along Living Roots (C3 f Reduced Iron (C4) its (C5) Stressed Plants (D1)
Depth (inches): emarks: o hydric soil indicators YDROLOGY Vetland Hydrology Ind Primary Indicators (any or Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3)	ne is sufficient) 2)		Sparsely Veg Marl Deposit Hydrogen Su	getated Con ss (B15) ulfide Odor (Water Table	cave Surfac		Water Stail Drainage P Oxidized R Presence o Salt Depos Stunted or Geomorphi	ned Leaves (B9) hatterns (B10) hizospheres along Living Roots (C3 f Reduced Iron (C4) hits (C5) Stressed Plants (D1) c Position (D2)
Depth (inches): emarks: o hydric soil indicators YDROLOGY Vetland Hydrology Ind Primary Indicators (any or Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B	ne is sufficient) 2)		Sparsely Veg Marl Deposit Hydrogen St Dry-Season	getated Con ss (B15) ulfide Odor (Water Table	cave Surfac		Water Stain Drainage P Oxidized R Presence of Salt Depos Stunted or Geomorphi Shallow Ag	ned Leaves (B9) hatterns (B10) hizospheres along Living Roots (C3 f Reduced Iron (C4) hits (C5) Stressed Plants (D1) c Position (D2) uitard (D3)
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