WETLAND DETERMINATION DATA FORM - Alaska Region

,	t/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Denali Bo	rough Sampling Date: 01-Aug-13			
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T145_06			
	igator(s): SLI, EAC		Landform (hill	side, terrac	e, hummocks etc.): Terrace			
	relief (concave, convex, none): flat		Slope:	% / 1.5				
Subre	gion : Interior Alaska Mountains	Lat.:	63.400536299	 93	Long.: -148.654102682 Datum: NAD83			
	ap Unit Name:		00.40000200		NWI classification: Upland			
	matic/hydrologic conditions on the site typical for this	time of voc	or? Ves	● No ○	(If no, explain in Remarks.)			
	/egetation □ , Soil □ , or Hydrology □	-	tly disturbed?		lormal Circumstances" present? Yes No			
	/egetation □ , Soil □ , or Hydrology □	•	problematic?		eded, explain any answers in Remarks.)			
	• •			•				
SUM	MARY OF FINDINGS - Attach site map sho		mpling point	locations	s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes No		le	tha Sam	pled Area			
	Hydric Soil Present? Yes No	_			/etland? Yes ○ No ●			
	Wetland Hydrology Present? Yes No		Ų.		Citation :			
Rem	arks: characterizing darrk green swath in aerial. comr content.	nunity ider	itical to similar p	ohotosignat	ture due west (hiked through) - upland stob w little lichen			
	content.							
VEGI	ETATION - Use scientific names of plants. I	List all sp	ecies in the	plot.	1			
		Absolut		Indicator	Dominance Test worksheet:			
	e Stratum	% Cove		Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)			
	Picea glauca		- 🗒	FACU	Total Number of Dominant			
2. 3.			-		Species Across All Strata:3(B)			
3. 4.		$- \frac{0}{0}$	-		Percent of dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)			
5.		0	-					
0.	Total Cove		_		Prevalence Index worksheet: Total % Cover of: Multiply by:			
San	oling/Shrub Stratum 50% of Total Cover:		_	1.4	001.0			
					OBL Species 0 x1 = 0 FACW Species 70.1 x2 = 140.2			
	Betula glandulosa			FAC FAC	FAC Species 95.1 x 3 = 285.3			
3.	Vaccinium uliginosum Rhododendron tomentosum	70		FACW	FACU Species			
	Vaccinium vitis idaga	_ 70 5	- 🖺	FAC	UPL Species 0 x 5 = 0			
5.	Empetrum nigrum		-	FAC				
6.		_						
7.		0	_		Prevalence Index = B/A = 2.634			
8.		0			Hydrophytic Vegetation Indicators:			
9.		_						
		_ 0	_		✓ Dominance Test is > 50%			
		0			✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0			
10.	Total Cove	0 er: <u>165</u>			Prevalence Index is ≤3.0 Morphological Adaptations (Provide supporting data in			
10.	Total Cove rb Stratum 50% of Total Cover:	0 er: 165 82.5 20			 ✓ Prevalence Index is ≤3.0 ☐ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) 			
10. He r	Total Cover rb Stratum 50% of Total Cover: Rubus chamaemorus	0 er: 165 82.5 20	of Total Cover	FACW	Prevalence Index is ≤3.0 Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)			
10. <u>Her</u> 1. 2.	Total Cove rb Stratum 50% of Total Cover: Rubus chamaemorus Carex bigelowii	0 82.5 20 0.1	of Total Cover		Prevalence Index is ≤3.0 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Indicators of hydric soil and wetland hydrology must			
10. Her 1. 2. 3.	Total Cover 50% of Total Cover: Rubus chamaemorus Carex bigelowii	0 82.5 20 0.1 0.1	of Total Cover	FACW	Prevalence Index is ≤3.0 Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)			
10. Her 1. 2. 3. 4.	Total Cove rb Stratum 50% of Total Cover: Rubus chamaemorus Carex bigelowii	0 82.5 20 0.1 0.1 0 0	of Total Cover	FACW	Prevalence Index is ≤3.0 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Indicators of hydric soil and wetland hydrology must			
10. Her 1. 2. 3. 4. 5.	Total Cove rb Stratum 50% of Total Cover: Rubus chamaemorus Carex bigelowii	0 82.5 20 0.1 0.1 0 0 0	of Total Cover	FACW	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) Cover of Wetland Bryophytes			
10. Her 1. 2. 3. 4. 5. 6.	Total Cover 50% of Total Cover: Rubus chamaemorus Carex bigelowii	0 82.5 20 0.1 0.1 0 0 0	of Total Cover	FACW	Prevalence Index is ≤3.0 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 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)			
10. Her 1. 2. 3. 4. 5. 6. 7.	Total Cover 50% of Total Cover: Rubus chamaemorus Carex bigelowii	0 82.5 20 0.1 0.1 0 0 0 0	of Total Cover	FACW	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) Cover of Wetland Bryophytes (Where applicable) Bare Ground 30			
10. Heil 1. 2. 3. 4. 5. 6. 7. 8.	Total Cove rb Stratum 50% of Total Cover: Rubus chamaemorus Carex bigelowii	0 82.5 20 0.1 0.1 0.1 0 0 0 0	of Total Cover	FACW	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) Cover of Wetland Bryophytes (Where applicable) Bare Ground 30			
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SOIL Sampling Point: SW13_T145_06

	on: (Describe to	the depth ne	eded to docur	ment the inc		firm the abs		cators)				
Depth (inches)	Color (mo	ist)	%	Color (n	noist)	%	Type ¹	Loc 2	Texture	Remarks		
0-4	5YR	3/3	100	COIOI (II	ioistj		Турс	LUC	Fibric Organics	primarily moss roots and stems		
4-5	10YR		100						Sapric Organics			
-		2/1										
5-20	7.5YR	3/2	<u>85</u> _	2.5YR	2.5/1	15			Silt Loam	Inclusions in matrix are from old burns		
						-		-				
						-			-			
¹Type: C=Con	 ncentration. D=	Depletion.	RM=Reduc						nnel. M=Matrix			
Hydric Soil In	ndicators:			Indicat	ors for Pro	blematio	Hydric So	oils: ³				
Histosol or	Histel (A1)			Alas	ka Color Cha	ange (TA4	4 1)		Alaska Gleyed Without Hue 5Y or Redder			
Histic Epip	edon (A2)			Alas	Alaska Alpine swales (TA5)				Underlying Layer			
	Sulfide (A4)			Alas	Alaska Redox With 2.5Y Hue				Other (Explain in Remarks)			
Thick Dark	Surface (A12)											
Alaska Gle	. ,			³ One i	ndicator of h	nydrophyt	ic vegetatio	n, one prir	nary indicator of wetland h	ydrology,		
Alaska Red				and an	appropriate	anascap	e position i	must be pro	esent			
	yed Pores (A15	5)		4 Give	details of col	lor change	e in Remark	(S				
Restrictive Laye	er (if present):											
Type:									Hydric Soil Present	? Yes O No 💿		
Depth (inch	nes):								-			
HYDROLO												
Wetland Hydr	rology Indica	tors:								cators (two or more are required)		
Primary Indicat		s sufficient)							ned Leaves (B9)		
Surface Water (A1)				Inundation Visible on Aerial Imagery (B7)				ry (B7)	Drainage Patterns (B10)			
High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)				ce (B8)	Oxidized R	hizospheres along Living Roots (C3)		
Saturation (A3)				Marl Deposits (B15)						f Reduced Iron (C4)		
Water Marks (B1)				Hydrogen Sulfide Odor (C1)					Salt Depos			
	Deposits (B2)			_	y-Season W					Stressed Plants (D1)		
Drift Depo				☐ Ot	her (Explain	in Remai	rks)			ic Position (D2)		
	or Crust (B4)									uitard (D3)		
Iron Depo	. ,									raphic Relief (D4)		
Surface So	oil Cracks (B6)								✓ FAC-neutra	l Test (D5)		
Field Observa												
Surface Water	Present?		No 💿	De	epth (inches	s):						
Water Table P	resent?	Yes C	No 💿	De	epth (inches	s):		Wetla	nd Hydrology Presen	t? Yes O No 🗨		
Saturation Pre (includes capil		Yes \bigcirc	No •	De	epth (inches	s):						
Describe Record	ded Data (stre	am gauge,	monitor we	ll, aerial p	hotos, previ	ious inspe	ction) if ava	ailable:				
Remarks:												
only one second	dary hydrology	indicator	observed									
July One Second	aary riyurulugy	maicator	SSSCI VCU									

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