WETLAND DETERMINATION DATA FORM - Alaska Region

Annlia	ct/Site: Susitna-Watana Hydroele	ctric Project	E	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 03-Jul-13
-phiic	cant/Owner: Alaska Energy Autho	rity				Sampling Point: SW13_T121_05
nvest	tigator(s): JGK			Landform (hills		e, hummocks etc.): Hillside
Local	relief (concave, convex, none): h	nummocky		Slope: 5.0	% / 2.9 	9 ° Elevation: 262
Subre	gion : Southcentral Alaska		Lat.:	62.805501342		Long.:149.578901887
Soil Ma	lap Unit Name:					NWI classification: Upland
Are \	Vegetation , Soil , or	Hydrology :	significantly naturally pr wing san	y disturbed? roblematic?	(If nee	(If no, explain in Remarks.) lormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.) s, transects, important features, etc.
Ren	Hydric Soil Present? Wetland Hydrology Present? marks: DUNN SITE 1375 SOIL 1376	Yes No •)		the Sam thin a W	pled Area etland? Yes ○ No ●
	ETATION - Use scientific nan			·		Dominance Test worksheet:
Tre	ee Stratum		Absolute % Cover		Indicator Status	Number of Dominant Species
1.	Betula neoalaskana		10	✓	FACU	That are OBL, FACW, or FAC: 2 (A)
2.	Dioca glaves		7	✓	FACU	Total Number of Dominant Species Across All Strata: 6 (B)
3.			0			Percent of dominant Species
4.			0			That Are OBL, FACW, or FAC: 33.3% (A/B)
5.		Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by:
Sap	pling/Shrub Stratum 50%	6 of Total Cover:	8.5 20%	of Total Cover:	3.4	OBL Species
1.	Viburnum edule		15	✓	FACU	FACW Species 0 x 2 = 0
2.	Alnus viridis		10	✓	FAC	FAC Species <u>62</u> x 3 = <u>186</u>
3.	Rosa acicularis		_1_		FACU	FACU Species x 4 =
4.	Sambucus racemosa		2		FACU	UPL Species 0 x 5 = 0
_						
5.			0			Column Totals: <u>139</u> (A) <u>494</u> (B)
5. 6.			0			
6. 7.			0			Column Totals: 139 (A) 494 (B) Prevalence Index = B/A = 3.554
6. 7. 8.			0 0			Prevalence Index = B/A = 3.554 Hydrophytic Vegetation Indicators:
6. 7. 8. 9.			0 0 0			Prevalence Index = B/A = 3.554 Hydrophytic Vegetation Indicators: Dominance Test is > 50%
6. 7. 8.			0 0 0 0			Prevalence Index = B/A = 3.554 Hydrophytic Vegetation Indicators: □ Dominance Test is > 50% □ Prevalence Index is ≤3.0
6. 7. 8. 9. 10.	erb Stratum 509		0 0 0 0 0 0 28 14 209	6 of Total Cover		Prevalence Index = B/A = 3.554 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	e <mark>rb Stratum</mark> 50% Calamagrostis canadensis	Total Cover	0 0 0 0 0 0 28 14 20%	G of Total Cover	FAC	Prevalence Index = B/A = 3.554 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	erb Stratum 50% Calamagrostis canadensis Equisetum sylvaticum	Total Cover	0 0 0 0 0 28 14 20%		FAC FAC	Prevalence Index = B/A = 3.554 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
6. 7. 8. 9. 10. He e 1. 2. 3.	Calamagrostis canadensis Equisetum sylvaticum Cornus suecica	Total Cover : % of Total Cover:	0 0 0 0 0 28 14 20% 35 10 5		FAC FAC	Prevalence Index = B/A = 3.554 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. 3. 4.	Calamagrostis canadensis Equisetum sylvaticum Cornus suecica Gymnocarpium dryopteris	Total Cover : % of Total Cover:	0 0 0 0 0 28 14 20% 35 10 5		FAC FAC FACU	Prevalence Index = B/A = 3.554 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
6. 7. 8. 9. 10. He 1. 2. 3. 4. 5.	Calamagrostis canadensis Equisetum sylvaticum Cornus suecica Gymnocarpium dryopteris Rubus arcticus	Total Cover % of Total Cover:	0 0 0 0 0 28 14 20% 35 10 5 15 2		FAC FAC	Prevalence Index = B/A = 3.554 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 □ 10m □ 0
6. 7. 8. 9. 10. He 3. 4. 5. 6.	Calamagrostis canadensis Equisetum sylvaticum Cornus suecica Gymnocarpium dryopteris Rubus arcticus Spinulum annotinum	Total Cover % of Total Cover:	0 0 0 0 0 28 14 209 35 10 5 15 2		FAC FAC FACU FACU	Prevalence Index = B/A =3.554 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) 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)
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SOIL Sampling Point: SW13_T121_05

									10 54415_1121_05	\neg
Profile Descripti		the depth nee Matrix	ded to docur	nent the indicator or co	nfirm the ab		ators)			
Depth (inches)	Color (mo			Color (moist)	w	Type ¹	_Loc_2	Texture	Remarks	
0-2			100					Fibric Organics		
2-6	2.5Y	3/2	100					Loamy Sand		
6-7.5	10YR	3/4							Bits of charcoal	
7.5-11	2.5Y	3/2	100						Site of Grandour	
11-20	10YR	3/6	100					Silty Clay Loam	-	
										—
										—
¹Type: C=Cor	 ncentration. D=		RM=Reduce	ed Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix		
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	c Hydric So	oils: ³			
	Histel (A1)			Alaska Color Cl		4		Alaska Gleyed Without H	ue 5Y or Redder	
Histic Epip	edon (A2)			Alaska Alpine s	swales (TA	5)		Underlying Layer		
Hydrogen	Sulfide (A4)			Alaska Redox With 2.5Y Hue				Other (Explain in Remarks)		
Thick Dark	Surface (A12))		3 One indicator of	hudrophu	tic vogotatio	n ono nrin	nary indicator of wetland h	udrology	
Alaska Gle				and an appropriat					yurology,	
Alaska Rec	` '	>		4 Give details of co	olor chang	e in Remark	.s			
☐ Alaska Gle	yed Pores (A1	5)		GIVE details of e	olor chang	e iii reman				
Restrictive Laye	er (if present):									
Type:								Hydric Soil Present	? Yes O No 💿	
Depth (inch	ies):									
Remarks:										
no hydric soil in	dicators									
HYDROLO	GY									
Wetland Hydi	rology Indica	tors:						_Secondary India	cators (two or more are required)	
Primary Indica	tors (any one i	s sufficient)						Water Staii	ned Leaves (B9)	
Surface W	` '			Inundation V		-			atterns (B10)	
	er Table (A2)			Sparsely Veg		ncave Surfac	ce (B8)		nizospheres along Living Roots (C3))
Saturation				Marl Deposit	. ,				f Reduced Iron (C4)	
Water Mai				☐ Hydrogen Su				☐ Salt Depos		
	Deposits (B2)			☐ Dry-Season \					Stressed Plants (D1)	
☐ Drift Depo				U Other (Expla	in in Rema	rks)			c Position (D2)	
	or Crust (B4)							☐ Shallow Aq		
Iron Depo									raphic Relief (D4)	
	oil Cracks (B6)							☐ FAC-neutra	l Test (D5)	
Field Observa Surface Water		Vec (No •	Depth (inche).					
			No •		•		Wohler	nd Usedvalags, Duagan	t? Yes O No 💿	
Water Table P				Depth (inche	es):		wetiai	nd Hydrology Presen	t? Yes UND S	
Saturation Pre (includes capil		Yes O	No 🕑	Depth (inche	es):					
Describe Record	ded Data (stre	am gauge,	monitor we	ll, aerial photos, pre	vious inspe	ection) if ava	ilable:			
Remarks:	C. C									
no wetland hyd	Irology indicato	ors								

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