WETLAND DETERMINATION DATA FORM - Alaska Region

Applica	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 22-Jun-12			
	ant/Owner: Alaska Energy Authority				Sampling Point: SW12_T18_10			
	gator(s): SLI, EKJ		Landform (hills	side, terrac	e, hummocks etc.): Levee			
Local r	relief (concave, convex, none): concave		Slope:	% / 3.0	° Elevation: 746			
Subreg	gion : Southcentral Alaska	Lat.:	62.848868265	 3	Long.: -149.22763569 Datum: NAD83			
	p Unit Name:	,			NWI classification: Upland			
	matic/hydrologic conditions on the site typical for this ti	me of vea	r? Yes (No ○	(If no, explain in Remarks.)			
		-	ly disturbed?		ormal Circumstances" present? Yes No			
		-	roblematic?		ded, explain any answers in Remarks.)			
STIME				·				
SUIVII	MARY OF FINDINGS - Attach site map show		ripiirig poirit	locations	s, transects, important leatures, etc.			
	Hydrophytic Vegetation Present? Yes No C		ls t	the Sam	pled Area			
	Hydric Soil Present? Yes O No •				/etland? Yes ○ No ●			
Doma	Wetland Hydrology Present? Yes No (a				unities sampled today: near surface active layer, thick			
IXCIII	organic mat, fewer lichens. otherwise, similar con				unities sampled today. Hear surface active layer, thick			
	3	,						
<u></u>	TATION							
VEGE	ETATION -Use scientific names of plants. Li	st all sp	ecies in the p	olot.	Dominance Test worksheet:			
Tro	e Stratum	Absolute % Cover		Indicator Status	Number of Dominant Species			
1.	e Stratum	0		Status	That are OBL, FACW, or FAC:1 (A)			
2.			. <u>Г</u>		Total Number of Dominant Species Across All Strata: 1 (B)			
3.		0			Species Across All Strata: (B) Percent of dominant Species			
4.		0	_		That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.		0			Prevalence Index worksheet:			
	Total Cover				Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	6 of Total Cover:	0	OBL Species x 1 =0			
	ling/Shrub Stratum 50% of Total Cover: Betula nana	0 20%	6 of Total Cover: ✓	0 FAC	001.0			
	Betula nana Vaccinium uliginosum				OBL Species x 1 =			
1.	Betula nana	40		FAC	OBL Species 0 x 1 = 0 FACW Species 7 x 2 = 14 FAC Species 66 x 3 = 198 FACU Species 0 x 4 = 0			
1. 2. 3.	Betula nana Vaccinium uliginosum	40		FAC FAC	OBL Species 0 x 1 = 0 FACW Species 7 x 2 = 14 FAC Species 66 x 3 = 198			
1. 2. 3.	Betula nana Vaccinium uliginosum Empetrum nigrum	40 10 10 7 5		FAC FAC	OBL Species 0 x 1 = 0 FACW Species 7 x 2 = 14 FAC Species 66 x 3 = 198 FACU Species 0 x 4 = 0			
1. 2. 3. 4. 5.	Betula nana Vaccinium uliginosum Empetrum nigrum Rhododendron tomentosum	40 10 10 7 5 0		FAC FAC FACW	OBL Species 0 x 1 = 0 FACW Species 7 x 2 = 14 FAC Species 66 x 3 = 198 FACU Species 0 x 4 = 0 UPL Species 1 x 5 = 5 Column Totals: 74 (A) 217 (B)			
1. 2. 3. 4. 5. 6. 7.	Betula nana Vaccinium uliginosum Empetrum nigrum Rhododendron tomentosum Vaccinium vitis-idaea	40 10 10 7 5		FAC FAC FACW	OBL Species 0 x 1 = 0 FACW Species 7 x 2 = 14 FAC Species 66 x 3 = 198 FACU Species 0 x 4 = 0 UPL Species 1 x 5 = 5 Column Totals: 74 (A) 217 (B) Prevalence Index = B/A = 2.932			
1. 2. 3. 4. 5. 6. 7. 8.	Betula nana Vaccinium uliginosum Empetrum nigrum Rhododendron tomentosum Vaccinium vitis-idaea	40 10 10 7 5 0 0		FAC FAC FACW	OBL Species 0 x 1 = 0 FACW Species 7 x 2 = 14 FAC Species 66 x 3 = 198 FACU Species 0 x 4 = 0 UPL Species 1 x 5 = 5 Column Totals: 74 (A) 217 (B) Prevalence Index = B/A = 2.932 Hydrophytic Vegetation Indicators:			
1. 2. 3. 4. 5. 6. 7. 8. 9.	Betula nana Vaccinium uliginosum Empetrum nigrum Rhododendron tomentosum Vaccinium vitis-idaea	40 10 10 7 5 0 0		FAC FAC FACW	OBL Species 0 x 1 = 0 FACW Species 7 x 2 = 14 FAC Species 66 x 3 = 198 FACU Species 0 x 4 = 0 UPL Species 1 x 5 = 5 Column Totals: 74 (A) 217 (B) Prevalence Index = B/A = 2.932 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%			
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1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	Betula nana Vaccinium uliginosum Empetrum nigrum Rhododendron tomentosum Vaccinium vitis-idaea	40 10 10 7 5 0 0 0 0		FAC FAC FACW FAC	OBL Species 0 x 1 = 0 FACW Species 7 x 2 = 14 FAC Species 66 x 3 = 198 FACU Species 0 x 4 = 0 UPL Species 1 x 5 = 5 Column Totals: 74 (A) 217 (B) Prevalence Index = B/A = 2.932 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%			
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. Her	Betula nana Vaccinium uliginosum Empetrum nigrum Rhododendron tomentosum Vaccinium vitis-idaea	40 10 10 7 5 0 0 0 0 0 0 7		FAC FAC FACW FAC	OBL Species 0 $x 1 = 0$ FACW Species 7 $x 2 = 14$ FAC Species 66 $x 3 = 198$ FACU Species 0 $x 4 = 0$ UPL Species 1 $x 5 = 5$ Column Totals: 74 (A) 217 (B) Prevalence Index = B/A = 2.932 Hydrophytic Vegetation Indicators: Dominance Test is > 50% Prevalence Index is ≤ 3.0 Morphological Adaptations (Provide supporting data in			
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. Her 1.	Betula nana Vaccinium uliginosum Empetrum nigrum Rhododendron tomentosum Vaccinium vitis-idaea Total Cover: 50% of Total Cover:	40 10 10 7 5 0 0 0 0 0 72 36 209		FAC FAC FACW FAC	OBL Species 0 $x 1 = 0$ FACW Species 7 $x 2 = 14$ FAC Species 66 $x 3 = 198$ FACU Species 0 $x 4 = 0$ UPL Species 1 $x 5 = 5$ Column Totals: 74 (A) 217 (B) Prevalence Index = B/A = 2.932 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			
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SOIL Sampling Point: SW12_T18_10

		the depth ne	eeded to docur	ment the indicator or co	nfirm the ab		cators)				
Depth (inches)	Color (mo			Color (moist)	%	Type ¹	_Loc_ ²	Texture	Remarks		
0-3		istj	100	Color (IIIolac)		Турс	LUC	Fibric Organics			
3-10			100 —					Hemic Organics			
	2 57										
10-11	2.5Y	5/2	100		- ——			Silt Loam			
11-12	5YR	2.5/1			- ——			Loam			
	-										
					-						
¹Type: C=Cor	ncentration. D=	-Depletion	. RM=Reduce	ed Matrix ² Location	n: PL=Por	e Lining. RC	C=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	c Hydric So	oils: ³				
Histosol or	r Histel (A1)			☐ Alaska Color Change (TA4) ☐ Alaska Gleyed Without Hue 5Y or Redder							
Histic Epip	edon (A2)			Alaska Alpine s	wales (TA	5)		Underlying Layer			
Hydrogen	Sulfide (A4)			Alaska Redox V	Nith 2.5Y H	lue		Other (Explain in Remark	s)		
Thick Dark	c Surface (A12))		3 One indicator of	' budronhul	···- ···- cotatic	and prin	indicator of wotland h	ر برم ا مالت		
Alaska Gle				and an appropriat				nary indicator of wetland h	/drology,		
Alaska Red				4 Give details of co	olor chang	≏ in Remark	/c				
	eyed Pores (A1				Joi Giang	C III ICIIIa	<u> </u>				
Restrictive Laye								Undria Sail Bracant	? Yes ○ No •		
Depth (inch	ve layer (frozer nes): 12	1)						Hydric Soil Present?	' tes ∪ Nu ⊖		
Remarks:	,						1				
HYDROLO	GY										
Wetland Hydi	rology Indica	tors:						Secondary Indic	cators (two or more are required)		
Primary Indica	itors (any one i	s sufficient	t)					Water Stair	ned Leaves (B9)		
Surface W				Inundation Visible on Aerial Imagery (B7)				_	atterns (B10)		
	er Table (A2)			Sparsely Vegetated Concave Surface (B8)					nizospheres along Living Roots (C3)		
Saturation	. ,			Marl Deposits (B15)					f Reduced Iron (C4)		
Water Marks (B1)				☐ Hydrogen Sulfide Odor (C1)				Salt Deposi			
Sediment Deposits (B2)				☐ Dry-Season Water Table (C2) ☐ Other (Explain in Remarks)					Stressed Plants (D1) c Position (D2)		
Drift Deposits (B3)				Uther (Explain in Remarks)				☐ Geomorphi	` '		
☐ Algal Mat or Crust (B4)☐ Iron Deposits (B5)									raphic Relief (D4)		
	oil Cracks (B6)							FAC-neutra			
Field Observa									1000 (20)		
Surface Water		Yes C	No 💿	Depth (inche	es):						
Water Table P		Yes C	No ●	Depth (inche	•		Wetla	nd Hydrology Present	t? Yes ○ No •		
Saturation Pre		_	_		,						
(includes capi		Yes ∪	No ●	Depth (inche	:s):						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											

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