WETLAND DETERMINATION DATA FORM - Alaska Region

Applic	ct/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	ca-Susitna Borough Sampling Date: 23-Aug-15			
	ant/Owner: Alaska Energy Authority				Sampling Point: SW15_T310_07			
	igator(s): BAB		Landform (hills	side, terrac	ee, hummocks etc.): Footslope			
Local	relief (concave, convex, none): hummocky		_		° Elevation:			
	gion : Interior Alaska Mountains	Lat.:			Long.: Datum: WGS84			
		Lut						
	ap Unit Name:			<u> </u>	NWI classification: PSS1E			
	imatic/hydrologic conditions on the site typical for this ti							
			tly disturbed?		ionnai oii oaniotanooo procont.			
Are \	√egetation ☐ , Soil ☐ , or Hydrology ☐	naturally _l	problematic?	(If nee	eded, explain any answers in Remarks.)			
SUM	MARY OF FINDINGS - Attach site map sho	wing sa	mpling point	locations	s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes No C)						
	Hydric Soil Present? Yes ● No C		Is	Is the Sampled Area				
	Wetland Hydrology Present? Yes ● No ○		within a Wetland? Yes ● No ○					
Dom	arks:		<u> </u>					
Keiii	airs.							
/FG	ETATION - Use scientific names of plants. L	ict all cn	ocios in tho	alot				
LG	LIATION - OSE SCIENTING Harries of plants. L	ist all sp	becies in the	JIOL.				
		Absolute			Dominance Test worksheet: Number of Dominant Species			
1.	ee Stratum	% Cove	r Species?	Status	That are OBL, FACW, or FAC:3(A)			
					Total Number of Dominant			
2.					Species Across All Strata:3 (B)			
3.			. 📙		Percent of dominant Species			
4.			-		That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.	Tatal Course		. Ц		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 31 x 1 = 31			
1.	Salix pulchra	40	✓	FACW	FACW Species <u>50</u> x 2 = <u>100</u>			
2.	Picea mariana	10	. 🖳	FACW	FAC Species 12 x 3 = 36			
3.	Salix commutata	5	. 🖳	FAC	FACU Species 0 x 4 = 0			
4.				FAC	UPL Species 0 x 5 = 0			
	Vaccinium uliginosum	2	- <u>-</u>	1710				
5.	Vaccinium uliginosum	2			Column Totals: 93 (A) 167 (B)			
5. 6.		0			Column Totals: 93 (A) 167 (B)			
		0 0						
6.		0 0			Column Totals: 93 (A) 167 (B)			
6. 7.		0 0 0			Column Totals: 93 (A) 167 (B) Prevalence Index = B/A = 1.796 Hydrophytic Vegetation Indicators: Dominance Test is > 50%			
6. 7. 8. 9.		0 0 0			Column Totals: 93 (A) 167 (B) Prevalence Index = B/A = 1.796 Hydrophytic Vegetation Indicators:			
6. 7. 8. 9.	Total Cover	2 0 0 0 0 0 0			Column Totals: 93 (A) 167 (B) Prevalence Index = B/A = 1.796 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0 Morphological Adaptations (Provide supporting data in			
6. 7. 8. 9. 10.	Total Cover rb Stratum 50% of Total Cover:	2 0 0 0 0 0 0 0 0 28.5 20	% of Total Cover	11.4	Column Totals: 93 (A) 167 (B) Prevalence Index = B/A = 1.796 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0 Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)			
6. 7. 8. 9. 10. He	Total Cover rb Stratum 50% of Total Cover: Comarum palustre	2 0 0 0 0 0 0 0 57 28.5 20	0% of Total Cover ✓	11.4 OBL	Column Totals: 93 (A) 167 (B) Prevalence Index = B/A = 1.796 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0 Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation (Explain)			
6. 7. 8. 9. 10. He 1. 2.	Total Cover rb Stratum 50% of Total Cover: _ Comarum palustre Arctophila fulva	2 0 0 0 0 0 0 57 28.5 20 8	% of Total Cover		Column Totals: 93 (A) 167 (B) Prevalence Index = B/A = 1.796 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤ 3.0 ☐ Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation (Explain) ¹ Indicators of hydric soil and wetland hydrology must			
6. 7. 8. 9. 10. He 1. 2. 3.	Total Cover rb Stratum 50% of Total Cover: Comarum palustre Arctophila fulva Calamagrostis canadensis	2 0 0 0 0 0 0 57 28.5 20 8 5	0% of Total Cover ✓	11.4 OBL OBL FAC	Column Totals: 93 (A) 167 (B) Prevalence Index = B/A = 1.796 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤ 3.0 ☐ Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation (Explain)			
6. 7. 8. 9. 10. He 1. 2. 3. 4.	Total Cover rb Stratum 50% of Total Cover: Comarum palustre Arctophila fulva Calamagrostis canadensis Equisetum fluviatile	2 0 0 0 0 0 0 0 28.5 20 8 5 3	0% of Total Cover ✓		Column Totals: 93 (A) 167 (B) Prevalence Index = B/A = 1.796 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤ 3.0 ☐ Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation (Explain) ¹ Indicators of hydric soil and wetland hydrology must			
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SOIL Sampling Point: SW15_T310_07

		e depth nee	ded to docume	ent the indicator or co	onfirm the ab		ators)				
Depth (inches)	Color (mois		%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-3.5		,				.,,,,		Peat	Oi		
3.5-7								Mucky Peat	Oe		
7-12								Muck	Oa		
								Truck			
					_						
						-					
	,										
¹Type: C=Cor	ncentration. D=I	Depletion. I	RM=Reduced	Matrix ² Locatio	n: PL=Pore	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:		1	Indicators for P	roblematio	Hydric So	oils: ³				
Histosol or	Histosol or Histel (A1)				hange (TA	1)4	Alaska Gleyed Without H Underlying Layer	ue 5Y or Redder			
✓ Histic Epip	edon (A2)			Alaska Alpine							
Hydrogen	Sulfide (A4)		[Alaska Redox	With 2.5Y H	lue		Other (Explain in Remarks)			
☐ Thick Dark	Surface (A12)			30							
Alaska Gle	yed (A13)			and an appropria				nary indicator of wetland hesent	nydrology,		
Alaska Red	, ,			⁴ Give details of o		•					
	eyed Pores (A15)			GIVE details of C	.olor change	e iii reman					
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	? Yes ● No O		
Depth (inch	nes):										
HYDROLO	GY										
Wetland Hyd	rology Indicat	ors:						Secondary Indi	cators (two or more are required)		
Primary Indica	tors (any one is	sufficient)						Water Stained Leaves (B9)			
✓ Surface W	/ater (A1)			☐ Inundation \	/isible on A	erial Imagei	ry (B7)	☐ Drainage F	Patterns (B10)		
✓ High Wate	er Table (A2)			Sparsely Veg	getated Cor	cave Surfac	ce (B8)	Oxidized Rhizospheres along Living Roots (C3)			
✓ Saturation (A3)				Marl Deposit	s (B15)			Presence of Reduced Iron (C4)			
☐ Water Ma	Water Marks (B1)				ılfide Odor	(C1)		Salt Deposits (C5)			
	Deposits (B2)			Dry-Season	Water Table	e (C2)			Stressed Plants (D1)		
Drift Depo				Uther (Expla	in in Rema	rks)			ic Position (D2)		
	or Crust (B4)						quitard (D3)				
☐ Iron Depo	• •							_	graphic Relief (D4)		
	oil Cracks (B6)							✓ FAC-neutra	al Test (D5)		
Field Observa		Yes •	Na O	5	` `						
Surface Water				Depth (inch	es): 2						
Water Table P		Yes	No \bigcirc	Depth (inch	es): 4		Wetla	nd Hydrology Presen	it? Yes • No ·		
Saturation Pre (includes capi		Yes	No \bigcirc	Depth (inch	es): 0						
Describe Recor	ded Data (strea	m gauge, r	nonitor well,	aerial photos, pre	vious inspe	ction) if ava	ilable:				
Dames !											
Remarks:			. 54				1.1.1.				
surface water p	present in scatte	red patche	s. D1stund	ted picmar. D4m	nounds with	trees 1.5m	nigh.				

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