WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	ka-Susitna Borough Sampling Date: 09-Jul-13		
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T107_03		
	gator(s): SLI. SCB	l	Landform (hillside, terrace, hummocks etc.): Lowland				
	elief (concave, convex, none): flat		Slope: 0.0				
_	jion : Interior Alaska Mountains	Lat.: _e	32.861885786	<u> </u>	Long.:148.106996417		
Soil Ma	p Unit Name:				NWI classification: PSS1/EM1E		
Are V		significantly	disturbed?	Are "N (If nee	(If no, explain in Remarks.) Normal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.		
	Hydrophytic Vegetation Present? Yes No C Hydric Soil Present? Yes No C Wetland Hydrology Present? Yes No C			the Sam thin a W	npled Area /etland? Yes ● No ○		
	NW, just before elevation gain to picmar forest.	. adjacent fo	orest is non-w	etland fnw	npled emergents in CIR imagery. narrow band of hgwsl to ws, 5-15ft higher in elevation than this wetland.		
/EGE	ETATION - Use scientific names of plants. Li	ist all spe	cies in the	piot.			
	e Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)		
1.					Total Number of Dominant		
2.		0			Species Across All Strata:3(B)		
3.		0			Percent of dominant Species		
4.		0			That Are OBL, FACW, or FAC: 100.0% (A/B)		
5.		0			Prevalence Index worksheet:		
	Total Cover	: <u> </u>			Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species 27 x 1 = 27		
1.	Betula nana	20	✓	FAC	FACW Species 12 x 2 = 24		
2.	Vocainium uliainasum	10	✓	FAC	FAC Species 31 x 3 = 93		
3.	Vaccinium uliginosum			FACW	FACU Species 0 x 4 = 0		
4.	Ledum decumbens Picea mariana			FACW	UPL Species 0 x 5 = 0		
5.		2		FACW			
	Salix fuscescens				Column Totals:		
6.	Empetrum nigrum	1		FAC	Prevalence Index = B/A =2.057_		
7.	Out a labor	0.1					
	Salix pulchra	0.1		FACW	Hydrophytic Vegetation Indicators:		
	Vaccinium oxycoccos	0.1		OBL	✓ Dominance Test is > 50%		
10.	Vaccinium vitis-idaea	0.1	Ш	FAC	✓ Prevalence Index is ≤3.0		
Her	Total Cover b Stratum 50% of Total Cover:			: 8.08	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
1.	Carex aquatilis		✓	OBL	Problematic Hydrophytic Vegetation (Explain)		
2.	Rubus chamaemorus			FACW	¹ Indicators of hydric soil and wetland hydrology must		
3.	Carex pluriflora			OBL	be present, unless disturbed or problematic.		
4.	Eriophorum russeolum			FACW	Plot size (radius, or length x width)		
5.	Carex magellanica			OBL	% Cover of Wetland Bryophytes		
6.	Pedicularis lapponica			FAC	(Where applicable)		
7.					% Bare Ground		
8.					Total Cover of Bryophytes		
9.							
10.		0			Hydrophytic		
	Total Cover		_		Vegetation		
	50% of Total Cover: <u>1</u>	.5.05 20%	of Total Cover:	6.02	Present? Yes © NO U		
4. 5. 6. 7. 8. 9.	Eriophorum russeolum Carex magellanica Pedicularis lapponica	1 1 0.1 0 0 0 0	of Total Cover:	FACW OBL FAC	Plot size (radius, or length x width)		

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SOIL Sampling Point: SW13_T107_03

		ne depth nee	ded to docum	ent the indicator or co	onfirm the ab		ators)				
Depth (inches)	Color (mois		%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-5	COIOI (IIIOI			Color (moist)		1700	LUC	Hemic Organic			
5-16								Fibric Organic			
-											
¹Type: C=Cor	ncentration. D=I	Depletion. F	RM=Reduce	d Matrix ² Locatio	n: PL=Pore	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for P	roblematio	: Hydric So	oils: ³				
✓ Histosol or Histel (A1) ☐ Alaska Color Change (TA4)							Alaska Gleyed Without H	ue 5Y or Redder			
Histic Epipedon (A2)				Alaska Alpine	swales (TA	5)	Underlying Layer				
Hydrogen	Hydrogen Sulfide (A4)				☐ Alaska Redox With 2.5Y Hue ☐ Other (Explain in Remarks)						
☐ Thick Dark	Surface (A12)										
Alaska Gle	eyed (A13)			One indicator of and an appropria				nary indicator of wetland hesent	ydrology,		
Alaska Red	dox (A14)					•	•	Some			
Alaska Gle	eyed Pores (A15))		⁴ Give details of o	color change	e in Remark	S				
Restrictive Laye	er (if present):										
Type: froz	en							Hydric Soil Present	? Yes • No O		
Depth (inch	nes): 16										
HYDROLO	GY										
Wetland Hydi	rology Indicat	ors:						Secondary Indi	cators (two or more are required)		
Primary Indica	tors (any one is	sufficient)						Water Stai	ned Leaves (B9)		
✓ Surface W	Vater (A1)			Inundation \	isible on A	erial Imager	ry (B7)	Drainage P	atterns (B10)		
High Water Table (A2)				Sparsely Veg	getated Cor	cave Surfac	ce (B8)		hizospheres along Living Roots (C3)		
Saturation (A3)				Marl Deposit	. ,				f Reduced Iron (C4)		
☐ Water Marks (B1)				Hydrogen Su				Salt Depos			
Sediment Deposits (B2) Dry-Season Water Table (C2)									Stressed Plants (D1)		
☐ Drift Depo	` ,			U Other (Expla	in in Rema	rks)			c Position (D2)		
☐ Algai Mat	or Crust (B4)							✓ Shallow Aq			
	oil Cracks (B6)							✓ FAC-neutra	raphic Relief (D4)		
Field Observa	` '							▼ FAC-fleutra	r rest (D3)		
Surface Water		Yes	No O	Depth (inch	es)· 4						
Water Table P		Yes •		, ,	,		Wotla	nd Hydrology Presen	t? Yes • No O		
Saturation Pre				Depth (inch	es): 0		wetiai	ia nyarology Presen	tr res (s) NO (C)		
(includes capi		Yes •	No O	Depth (inch	es): 0						
Describe Recor	ded Data (strea	m gauge, n	nonitor well,	aerial photos, pre	vious inspe	ction) if ava	ilable:				
Remarks:											
Remarks: standing water	through much	of site. Whe	ere there is	no standing water,	water table	e and satura	ation are at	surface.			
	through much	of site. Whe	ere there is	no standing water,	water tabl	e and satura	ation are at	surface.			
	through much	of site. Whe	ere there is	no standing water,	water tabl	e and satura	ation are at	surface.			

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