WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 27-Jun-12
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW12_T24_05
Investig	gator(s): SLI, LMF		Landform (hill	side, terrac	e, hummocks etc.): Plateau
	elief (concave, convex, none): hummocky		- Slope:		3 ° Elevation: 781
Subrea	ion : Copper River Basin	Lat ·	62.661657946		Long.: -147.400825847 Datum: NAD83
_	p Unit Name:		02.001007040		NWI classification: PSS1/EM1E
		ma af va	vas Vas	● No ○	
	natic/hydrologic conditions on the site typical for this ti egetation \square , Soil \square , or Hydrology \square :	•	tly disturbed?		(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○
		•	problematic?		ionnal oli cametanoco procent.
	, , , ,				eded, explain any answers in Remarks.)
SUMN	MARY OF FINDINGS - Attach site map show		mpling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes No No		le	the Sam	pled Area
	Hydric Soil Present? Yes No			thin a W	
	Wetland Hydrology Present? Yes No		ļ		Chana:
Rema	•	ks and flo	oded sedge int	erhummock	ss. hummocks pronounced (up to 1m tall), and frozen at
	12in bgs.				
VEGE	TATION - Use scientific names of plants. Li	ist all sp	ecies in the	plot.	
		Absolut			Dominance Test worksheet:
Tree	e Stratum	% Cove		Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)
1.		0			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		_		Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cover:	0	OBL Species <u>50</u> x 1 = <u>50</u>
1.	Picea glauca	3		FACU	FACW Species 24 x 2 = 48
2.	Betula nana	20	\checkmark	FAC	FAC Species 33 x 3 = 99
3.	Myrica gale			OBL	FACU Species 3.1 x 4 = 12.4
4.	Rhododendron groenlandicum	_ 7		FAC	UPL Species <u>0</u> x 5 = <u>0</u>
5.	Andromeda polifolia (CRB)	3	_	OBL	Column Totals: <u>110.1</u> (A) <u>209.4</u> (B)
6.	Salix polaris	3	_	FACW	Prevalence Index = B/A = 1.902
	Salix reticulata	3	_	FAC	1 Tevalence much = B/A = 1.902
	Salix pulchra	10		FACW	Hydrophytic Vegetation Indicators:
	Picea mariana	5	- =	FACW	✓ Dominance Test is > 50%
10.		0	_		Prevalence Index is ≤3.0
Hor	Total Cover b Stratum 50% of Total Cover:			: 11.8	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
	Distants while are			FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
1.	0 (11)	40		OBL	Indicators of hydric soil and wetland hydrology must
3.	On an amount of the contract o			OBL	be present, unless disturbed or problematic.
4.			-	FACW	
5.	Tofieldia coccinea		- 🗆	FAC	Plot size (radius, or length x width) <u>10m</u>
6.	Rubus chamaemorus	1		FACW	% Cover of Wetland Bryophytes (Where applicable)
7.	Moehringia lateriflora	0.1		FACU	% Bare Ground50
8.					Total Cover of Bryophytes 45
		0			Hydrophytic
	Total Cover				Vegetation
	50% of Total Cover:2	5.55 20	% of Total Cover:	10.22	Present? Yes No
Rem	arks:				

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SOIL Sampling Point: SW12_T24_05

	Matrix	iccucu to docum	ent the indicator or co	dox Featu		ators)			
Depth (inches)						2	Texture	Remarks	
	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²		Remarks	
0-12							Fibric Organics		
							P-		
¹Type: C=Concentr	ation. D=Depletion	n. RM=Reduce	d Matrix ² Locatio	n: PL=Pore	Lining. RC	C=Root Cha	nnel. M=Matrix		
Hydric Soil Indica	tors:		Indicators for P	roblematio	Hydric So	oils: ³			
Histosol or Histe	el (A1)		Alaska Color C	hange (TA4	4		Alaska Gleyed Without H	ue 5Y or Redder	
✓ Histic Epipedon	` ,		Alaska Alpine	swales (TA5	5)		Underlying Layer		
Hydrogen Sulfid			☐ Alaska Redox With 2.5Y Hue ☐ Other (Explain in Remarks)						
Thick Dark Surfa	` ,								
Alaska Gleyed (A							nary indicator of wetland h	ydrology,	
Alaska Redox (A			and an appropria	ite landscap	e position r	must be pre	esent		
Alaska Gleyed P	•		⁴ Give details of o	color change	in Remark	s			
Restrictive Layer (if p	present):								
Type: active layer	-						Hydric Soil Present	? Yes • No O	
Depth (inches): 1							Hydric 30ii Fresche	: 165 - 140 -	
Remarks:									
HYDROLOGY									
HYDROLOGY Wetland Hydrolog	y Indicators:						Secondary Indi	cators (two or more are required)	
	=	nt)						cators (two or more are required) ned Leaves (B9)	
Wetland Hydrolog	any one is sufficier	nt)	☐ Inundation \	/isible on A	erial Imagei	ry (B7)	Water Stai		
Wetland Hydrolog	any one is sufficier	nt)	☐ Inundation \		_		Water Stai Drainage F	ned Leaves (B9)	
Wetland Hydrolog Primary Indicators (a	any one is sufficier (A1) ble (A2)	nt)		getated Con	_		Water Stai Drainage F Oxidized R	ned Leaves (B9) Patterns (B10)	
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