WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Вс	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 08-Jul-13
Applica	ant/Owner: Alaska Energy Authority					Sampling Point: SW13_T101_04
Investi	gator(s): WAD, BAB		L	andform (hills	ide, terrac	e, hummocks etc.): Bench
Local r	elief (concave, convex, none): hummocky		_ ;	Slope:	% / 1.8	B ° Elevation: 843
Subreo	jion : Copper River Basin	Lat.	— .: 6	2.669466495	- — 6	Long.: -147.474216819 Datum: NAD83
_	p Unit Name:		_			NWI classification: PSS1B
	natic/hydrologic conditions on the site typical for th	ic time of w	02r2	Vec (● No ○	(If no, explain in Remarks.)
	regetation \square , Soil \square , or Hydrology \square	,		disturbed?		lormal Circumstances" present? Yes No No
	egetation □ , Soil □ , or Hydrology □	,	-	blematic?		eded, explain any answers in Remarks.)
					·	
SUMI	MARY OF FINDINGS - Attach site map s		amı	pling point	locations	s, transects, important features, etc.
	,	\circ		le f	ha Sam	pled Area
	,	0			thin a W	
		\circ		Wil	liiii a vv	etialiu ? 100 o 110 o
Rema	arks:					
VEGE	TATION - Use scientific names of plants	. List all s	spec	cies in the p	olot.	
		Absolu		Dominant		Dominance Test worksheet:
	e Stratum	% Cov		Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)
1.			0			Total Number of Dominant
2.			0			Species Across All Strata: 4 (B)
3.			0			Percent of dominant Species That Are OBL, FACW, or FAC: 100,0% (A/B)
4. 5.			0			That Are OBL, FACW, or FAC: 100.0% (A/B)
5.	Total Co		<u> </u>			Prevalence Index worksheet:
San	ling/Shrub Stratum 50% of Total Cover:			of Total Cover:	0	Total % Cover of: Multiply by:
Зар	mig/siirub stratum 50% of Total cover.		-070 (OBL Species 0.2 x 1 = 0.2
	Betula nana		75	V	FAC	FAC Species 33 x 2 = 66
	Rhododendron tomentosum		25		FACW	FAC Species 103.1 x 3 = 309.3 FACU Species 0 x 4 = 0
3.	Vaccinium uliginosum		L5 -		FAC	FACU Species 0 x 4 = 0 UPL Species 0 x 5 = 0
4. 5.	Salix pulchra Empetrum nigrum		5 5		FACW	
6.	<u>_</u>		0		TAC	Column Totals: <u>136.3</u> (A) <u>375.5</u> (B)
7.			0			Prevalence Index = B/A = 2.755
8.			0			Hydrophytic Vegetation Indicators:
			0			Dominance Test is > 50%
10.			0			✓ Prevalence Index is ≤3.0
	Total Co	ver:	5			Morphological Adaptations 1 (Provide supporting data in
Her	b Stratum 50% of Total Cover:			of Total Cover:	25	Remarks or on a separate sheet)
1.	Equisetum sylvaticum	8	8	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Rubus chamaemorus		3	✓	FACW	¹ Indicators of hydric soil and wetland hydrology must
3.	Eriophorum angustifolium	0	.1_		OBL	be present, unless disturbed or problematic.
4.	Carex aquatilis	0	.1_		OBL	Plot size (radius, or length x width)
-	Equisetum arvense		.1		FAC	% Cover of Wetland Bryophytes
			0			(Where applicable)
			0			% Bare Ground
			<u> </u>			Total Cover of Bryophytes
			<u></u>			
10.			_			
				of Total Cover:	2.26	Present? Yes • No O
D						ı
9.	Total Co 50% of Total Cover: arks:	ver: <u>11.</u>		of Total Cover:		Hydrophytic Vegetation

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SOIL Sampling Point: SW13_T101_04

	Matrix	ded to documen	nt the indicator or co	dox Featur		.ators)		
Depth (inches) Color (m	oist)	% (Color (moist)	%	Type ¹	_Loc_2	Texture	Remarks
0-4							Fibric Organics	
4-6							Hemic Organics	
								-
								-
								p-
¹Type: C=Concentration. D	=Depletion.	RM=Reduced	Matrix ² Locatio	n: PL=Pore	Lining. RC	=Root Cha	nnel. M=Matrix	
Hydric Soil Indicators:		I	ndicators for P	roblematic	Hydric So	oils: ³		
Histosol or Histel (A1)			Alaska Color C	hange (TA4	4)		Alaska Gleyed Without H	ue 5Y or Redder
✓ Histic Epipedon (A2)			Alaska Alpine	swales (TA5)		Underlying Layer	
Hydrogen Sulfide (A4)			Alaska Redox	With 2.5Y H	ue		Other (Explain in Remarl	(S)
☐ Thick Dark Surface (A1	2)							
Alaska Gleyed (A13)			One indicator of and an appropria				nary indicator of wetland hesent	nydrology,
Alaska Redox (A14)				·	•	•	cocine	
Alaska Gleyed Pores (A	15)		⁴ Give details of o	color change	in Remark	(S		
Restrictive Layer (if present)								
Type: active layer (froz	en)						Hydric Soil Present	? Yes 🏵 No 🔾
Depth (inches): 6								
HYDROLOGY								
HYDROLOGY Wetland Hydrology Indic	ators:						_Secondary Indi	cators (two or more are required)
							Water Stai	ned Leaves (B9)
Primary Indicators (any one Surface Water (A1)			Inundation \		-		Water Stai	ned Leaves (B9) Patterns (B10)
Primary Indicators (any one Surface Water (A1) High Water Table (A2)			Sparsely Veg	getated Cond	-		Water Stai Drainage F Oxidized R	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3)
Primary Indicators (any one Surface Water (A1) High Water Table (A2) Saturation (A3)			Sparsely Veg Marl Deposit	getated Cond ts (B15)	cave Surfac		Water Stai Drainage F Oxidized R Presence of	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4)
Wetland Hydrology Indic Primary Indicators (any one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	: is sufficient)		Sparsely Veg Marl Deposit Hydrogen St	getated Cond ts (B15) ulfide Odor (cave Surfac		Water Stai Drainage F Oxidized R Presence c Salt Depos	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4) hits (C5)
Primary Indicators (any one ☐ Surface Water (A1) ☐ High Water Table (A2) ☑ Saturation (A3) ☐ Water Marks (B1) ☐ Sediment Deposits (B2)	: is sufficient)		Sparsely Vec Marl Deposit Hydrogen St Dry-Season	getated Cond ts (B15) ulfide Odor (Water Table	cave Surface (C1) (C2)		Water Stai Drainage F Oxidized R Presence c Salt Depos	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4) hits (C5) Stressed Plants (D1)
Primary Indicators (any one ☐ Surface Water (A1) ☐ High Water Table (A2) ✓ Saturation (A3) ☐ Water Marks (B1) ☐ Sediment Deposits (B2) ☐ Drift Deposits (B3)	e is sufficient)		Sparsely Veg Marl Deposit Hydrogen St	getated Cond ts (B15) ulfide Odor (Water Table	cave Surface (C1) (C2)		Water Stail Drainage F Oxidized R Presence o Salt Depos Stunted or Geomorph	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4) hits (C5) Stressed Plants (D1) hizospheres along Living Roots (C3) hizospheres (C3)
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