WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydro	electric Project		Borougl	h/City:	Matanusk	ka-Susitna Borough Sampling Date:	28-Aug-15			
Applica	ant/Owner: Alaska Energy Au	thority					Sampling Point: SV	V15_T333_01			
nvestic	gator(s): AFW	<u> </u>		Landfo	Landform (hillside, terrace, hummocks etc.): Mountainslope						
_	elief (concave, convex, none):	hummocky		_	•	% / 15.0	,				
	,		1 -4.					WCS94			
_	ion: Interior Alaska Mountains	<u>; </u>	_ Lat.:					atum: WGS84			
oil Ma	p Unit Name:						NWI classification: Upland				
Are V	egetation . Soil .	or Hydrology, or Hydrology, or Hydrology	significar naturally showing sa	ntly distu	rbed? atic?	(If nee	(If no, explain in Remarks.) Jormal Circumstances" present? Yes open ded, explain any answers in Remarks.) S, transects, important features, open descriptions.				
Hydrophytic Vegetation Present? Yes O No 💿											
	Hydric Soil Present?	Yes O N	lo 💿		Is the Sampled Area						
	Wetland Hydrology Present?	Yes O N	1o		within a Wetland? Yes ○ No •						
	arks: dusting of snow on ground										
/EGE	ETATION - Use scientific r	ames of plant	s. List all sp		in the	•	Dominance Test worksheet:				
Tree	e Stratum		% Cove		ecies?	Status	Number of Dominant Species	_			
1.							That are OBL, FACW, or FAC:	(A)			
2.				-			Total Number of Dominant Species Across All Strata:	5 (B)			
3.				-			Percent of dominant Species				
4.				-				40.0% (A/B)			
5.				_							
		Total C	over:0	_			Prevalence Index worksheet: Total % Cover of: Multiply I	by:			
Sanl	ling/Shrub Stratum	50% of Total Cover:		—)% of Tota	al Cover:	0		•			
Зарі	mig/Sirub Stratum	70,700. 1014. 0014.1		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			OBL Species 0 x 1 =	0			
1.	Dryas integrifolia		25	_	✓	FACU	FACW Species 2 x 2 =	4			
2.	Empetrum nigrum		18	_	✓	FAC	FAC Species 40 x 3 =	120			
3.	Cassiope tetragona		15	_	✓	FACU	FACU Species 66 x 4 =	264			
4.	Vaccinium uliginosum			_		FAC	UPL Species 0 x 5 =	0			
5.	Salix arctica			_		FACU	Column Totals: <u>108</u> (A)	388 (B			
6.	Arctous alpinus			_		FACU	Prevalence Index = B/A =	3.593_			
7.	Loiseleuria procumbens		3	_		FACU	Frevalence index – B/A –	3.393			
8.	Vaccinium vitis-idaea		3	_		FAC	Hydrophytic Vegetation Indicators:				
9.	Rhododendron tomentosum		2	_		FACW	☐ Dominance Test is > 50%				
10.			0	_			Prevalence Index is ≤3.0				
Herl	b Stratum_	Total C 50% of Total Cover	: 18	Morphological Adaptations (Provide s Remarks or on a separate sheet)	supporting data in						
1.	Anthoxanthum monticola ssp.	alpinum	10	_	✓	UPL	Problematic Hydrophytic Vegetation	,			
2.	Carex bigelowii		5	_	✓	FAC	¹ Indicators of hydric soil and wetland hydro	logy must			
3.				_		FACU	be present, unless disturbed or problemation	1.			
4.				_		FACU	Plot size (radius, or length x width)	10m			
5.				_			% Cover of Wetland Bryophytes	_10m			
_			^	_			(Where applicable)				
7.			0	_			% Bare Ground	60			
				_			Total Cover of Bryophytes	35			
			_	_			-				
			_	_			Hydrophytic				
		Total C		_			Vegetation				
	!	50% of Total Cover:	9 20	of Tota	al Cover:	3.6	Present? Yes O No •				
Rema	arks: collected lycopodium				al Cover:	3.6					

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SOIL Sampling Point: SW15_T333_01

Profile Descripti	on: (Describe to	the denth no	eded to docu	ment the indicator or co	nfirm the at	nsence of indic	rators)		110mm: 01115_1055_01		
Depth		Matrix	eucu to docu		dox Featu		duisj				
(inches)	Color (mo	oist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-6			100					Sapric Organics			
6-8	10YR	3/3	100					Silt Loam	ang to semiangular gravel and cobbles		
8-18	10YR	3/4	100		-			Sandy Loam	ang to semiangular gravel and cobbles		
								,			
								P			
					- ——						
¹ Type: C=Cor	centration. D=	=Depletion	. RM=Reduc	ced Matrix ² Location	n: PL=Por	re Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	ic Hydric So	oils:				
Histosol or	Histel (A1)			Alaska Color Cl	hange (TA	.4) 4		Alaska Gleyed Without Hue 5Y or Redder			
Histic Epip	edon (A2)			Alaska Alpine s	Alaska Alpine swales (TA5)				Underlying Layer		
Hydrogen	Sulfide (A4)			Alaska Redox V	With 2.5Y	Hue		Other (Explain in Remark	(S)		
Thick Dark	Surface (A12))		30							
Alaska Gle	yed (A13)			 One indicator of and an approprial 				nary indicator of wetland hesent	nydrology,		
Alaska Red	lox (A14)										
Alaska Gle	yed Pores (A1	5)		⁴ Give details of co	olor chang	e in Remark	(S				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	? Yes O No 💿		
Depth (inch	nes):										
Remarks:											
no hydric soil in	dicators										
HYDROLO	C.A.										
Wetland Hydi		itors;						Secondary Indi	cators (two or more are required)		
Primary Indica			t)						ned Leaves (B9)		
Surface W				☐ Inundation V	/isible on A	Aerial Image	rv (B7)				
High Water Table (A2)				Sparsely Veg		_		Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4)			
Saturation (A3)				☐ Marl Deposits			(-)				
☐ Water Mai	rks (B1)			Hydrogen Su	ılfide Odor	· (C1)		☐ Salt Depos	sits (C5)		
Sediment	Deposits (B2)			Dry-Season \				Stunted or	Stressed Plants (D1)		
☐ Drift Depo	osits (B3)			Other (Expla	in in Rema	arks)		Geomorph	ic Position (D2)		
Algal Mat	or Crust (B4)							Shallow Ac	quitard (D3)		
☐ Iron Depo	sits (B5)							Microtopog	graphic Relief (D4)		
Surface So	oil Cracks (B6)							FAC-neutra	al Test (D5)		
Field Observa	itions:		`								
Surface Water	Present?		No 💿	Depth (inche	es):						
Water Table P	resent?	Yes C	No 💿	Depth (inche	es):		Wetla	nd Hydrology Presen	t? Yes O No 💿		
Saturation Pre		Yes C	No •	Depth (inche	e).						
(includes capil	llary fringe)			— Берит (піспе							
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											
no wetland hyd	Irology indicate	ors									

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