WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	ka-Susitna Borough Sampling Date: 30-Jul-13
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW13_T172_07
	gator(s): WAD, RWM		Landform (hill	side, terrac	ce, hummocks etc.): ridge
-	elief (concave, convex, none): convex		Slope: 1.7		D ° Elevation: 905
	ion: Interior Alaska Mountains	l at ·	63.274575591	_	Long.: -148.255924702 Datum: WGS84
	p Unit Name:	-	03.21431333		NWI classification: Upland
	natic/hydrologic conditions on the site typical for this tir		-0 Voo	No ○	(If no, explain in Remarks.)
Are V Are V	egetation , Soil , or Hydrology segetation , Soil , or Hydrology regetation , Soil . , or Hydrology regetation regetation . , Soil . , or Hydrology regetation regetation regetation strength soil . , or Hydrology regetation regetati	ignificantl laturally priving san	y disturbed? roblematic?	Are "N (If nee	Normal Circumstances" present? Yes No Oeded, explain any answers in Remarks.)
	Hydrophytic Vegetation Present? Yes No		le	the Sam	ipled Area
	Hydric Soil Present? Yes No			thin a W	
	Wetland Hydrology Present? Yes ○ No ●		VVI	uiiii a vv	etialia: 135 - No -
VEGE	arks: TATION -Use scientific names of plants. Lis	st all spe			Dominance Test worksheet:
Tree	Stratum	% Cover		Status	Number of Dominant Species
1.		0			That are OBL, FACW, or FAC:3(A)
2.		0			Total Number of Dominant 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
1.	Betula glandulosa	65	✓	FAC	FACW Species 9 x 2 = 18
2.	Vaccinium uliginosum	15		FAC	FAC Species <u>95</u> x 3 = <u>285</u>
3.	Empetrum nigrum	5		FAC	FACU Species 2 x 4 = 8
4.	Ledum decumbens	5		FACW	UPL Species
5.	Salix pulchra	3		FACW	Column Totals: <u>106</u> (A) <u>311</u> (B)
6.	Vaccinium vitis-idaea	2		FAC	Prevalence Index = B/A = 2.934
7.	Salix arbusculoides	_1_		FACW	Prevalence Index = B/A =2.934
8.	Spiraea stevenii	_1_		FACU	Hydrophytic Vegetation Indicators:
9.		0			✓ Dominance Test is > 50%
10.		0			✓ Prevalence Index is ≤3.0
Her	Total Cover: 50% of Total Cover:			:19.4	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1.	Cornus suecica		~	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Equisetum sylvaticum	2	✓	FAC	¹ Indicators of hydric soil and wetland hydrology must
3.	Anthoxanthum monticola ssp. alpinum			FACU	be present, unless disturbed or problematic.
	Carex bigelowii			FAC	Plot size (radius, or length x width)
					% Cover of Wetland Bryophytes
					(Where applicable)
					% Bare Ground5
					Total Cover of Bryophytes
10.	Total Cover:	9			Hydrophytic Vegetation
			of Total Cover:	1.8	Present? Yes • No O
Dom					<u>·</u>
Rem	arks: lichen 10%				<u>'</u>

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SOIL Sampling Point: SW13_T172_07

(inches)	Color (m	oist)	%	Color (m	nist)	%	Type ¹	_Loc_2	Texture	Remarks
0-2		oist)	100	Color (III	oisty	_/0_	Турс	LUC	Fibric Organics	
2-3			100						Hemic Organics	_
3-5		2/2	80	10YR	2/1				Sandy Loam	mixed matrix buried organics
5-16	2.5Y	4/2	90	7.5YR	3/4	10			Silt Loam	- Trinca matrix barica organics
J-10				7.31K					Sit Louin	
										_
										_
Type: C=Cor	ncentration. D	=Depletior		ced Matrix	2 Location	: PL=Pore	Lining. RC	=Root Cha	annel. M=Matrix	-
ydric Soil I	ndicators:			Indicate	ors for Pro	blematic	: Hydric S	oils: ³		
-	r Histel (A1)				ka Color Ch		4		Alaska Gleyed Without	Hue 5Y or Redder
Histic Epip	, ,				ka Alpine sv		•		Underlying Layer	The ST ST Reducti
= ''	Sulfide (A4)			Alask	ka Redox W	ith 2.5Y H	lue		Other (Explain in Rema	rks)
Thick Dark	Surface (A12	<u>2</u>)		•						
Alaska Gle	yed (A13)				idicator of I appropriate				mary indicator of wetland esent	hydrology,
Alaska Red	. ,				etails of co		•			
Alaska Gle	yed Pores (A1	.5)		*Give u	etalis of co	ior change	e iii Keiiiark			
estrictive Laye	er (if present)	:								
Type: seas	sonal frost								Hydric Soil Presen	t? Yes O No 💿
Depth (inch	nes): 28									
Depth (inchemarks: hydric soil in										
emarks:										
emarks:	ndicators									
emarks: hydric soil ir	ndicators	ators:							_Secondary Inc	dicators (two or more are required)
emarks: hydric soil ir YDROLO etland Hydrimary Indica	GY rology Indic		t)						Water Sta	ained Leaves (B9)
YDROLO YDROLO	GY rology Indic tors (any one /ater (A1)		t)		undation Vis				Water Sta	ained Leaves (B9) Patterns (B10)
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