WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	xa-Susitna Borough Sampling Date: 10-Jul-13
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T132_09
	gator(s): WAD, BAB	ı	Landform (hill	lside, terrac	ce, hummocks etc.): dune
Local	relief (concave, convex, none): convex		Slope: 57.7	% / 30.	0 ° Elevation: 896
	gion : Interior Alaska Mountains		· 62.949092269		Long.: -148.367691159 Datum: WGS84
			02.94909220	<u> </u>	
	ap Unit Name:			○ N- ○	NWI classification: Upland
	matic/hydrologic conditions on the site typical for this til	-		● No ○	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○
			disturbed?		tormar or our occurred procent.
Are \	/egetation ☐ , Soil ☐ , or Hydrology ☐ r	naturally pro	obiematic?	(If nee	eded, explain any answers in Remarks.)
SUM	MARY OF FINDINGS - Attach site map show	wing sam	pling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes No C)			
	Hydric Soil Present? Yes ○ No ●)			pled Area
	Wetland Hydrology Present? Yes ○ No ●)	wi	ithin a W	/etland? Yes ○ No ●
Don					
Ren	narks: photo num 1277, 1278 photo time 1601. dune feature near creek, tonned with slob, unla	ınd			
VEGI	ETATION -Use scientific names of plants. Li	st all sne	cies in the	nlot	
	- Coo Colemana names of plants. El				Dominance Test worksheet:
Tro	e Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species
1.	e Stratum_	0		<u> </u>	That are OBL, FACW, or FAC:3(A)
2.		0			Total Number of Dominant
3.			\Box		Species Across All Strata: 3 (B)
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
5.		0			
	Total Cover:				Prevalence Index worksheet: Total % Cover of: Multiply by:
Sar	oling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	: 0	OBL Species $0 \times 1 = 0$
-					FACW Species 2 x 2 = 4
	Vaccinium uliginosum		✓	FAC FAC	FAC Species x 3 = 165
2. 3.	Empetrum nigrum Betula nana			FAC	FACU Species 7 x 4 = 28
4.		_		TAC	UPL Species $0 \times 5 = 0$
5.		_			
6.			\Box		Column Totals: <u>64</u> (A) <u>197</u> (B)
7.		0			Prevalence Index = B/A = 3.078
8.		0			Hydrophytic Vegetation Indicators:
9.		0			Dominance Test is > 50%
10.		0			☐ Prevalence Index is ≤3.0
	Total Cover:	29			Morphological Adaptations ¹ (Provide supporting data in
Hei	b Stratum 50% of Total Cover:		of Total Cover	r: 5.8	Remarks or on a separate sheet)
1.	Festuca altaica	_25_	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Chamerion angustifolium	5		FACU	¹ Indicators of hydric soil and wetland hydrology must
3.	Rubus chamaemorus	2		FACW	be present, unless disturbed or problematic.
4.	Artemisia norvegica			FACU	Plot size (radius, or length x width)
5.	Diphasiastrum complanatum			FACU	% Cover of Wetland Bryophytes
6.	Poa arctica	1		FAC	(Where applicable)
7.	Anthoxanthum monticola ssp. alpinum			FACU	% Bare Ground
8.					Total Cover of Bryophytes
					Hydrophytic
10.					Managarian
10.	Total Cover: 50% of Total Cover: 1		of Total Cover	: 7.02	Vegetation Present? Yes No No

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SOIL Sampling Point: SW13_T132_09

(inches)	Color (me	nist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
05	COIOI (III))ist)	100	color (moist)		Турс	LUC	Fibric Organics	
.5-1	10YR	6/2	100					Loamy Sand	ash?
1-2			100					Fibric Organics	
			100					Sapric Organics	_
3-10	7.5YR	4/4	100					Loamy Sand	bands of organics throughout
3 10	7.511								Danias of organics throughout
					-				_
									_
Type: C=Concer	ntration. D	=Depletion	RM=Reduced	Matrix ² Locatio	n: PL=Pore	Lining. RC	=Root Cha	nnel. M=Matrix	_
lydric Soil Indi	cators:			ndicators for P	oblematic	Hvdric Sc	oils: ³		
Histosol or His			[Alaska Color C		4		Alaska Gleyed Without	Hue 5Y or Redder
Histic Epipedo	. ,		[Alaska Alpine s		-		Underlying Layer	
Hydrogen Sulf	fide (A4)		[Alaska Redox	With 2.5Y H	ue		Other (Explain in Rema	arks)
Thick Dark Su	ırface (A12)		3 0					
Alaska Gleyed	i (A13)			One indicator of and an appropria	hydrophyti te landscape	c vegetatio e position n	n, one prim nust be pre	nary indicator of wetland esent	hydrology,
Alaska Redox	. ,			Give details of c	•	•	•		
	l Pores (A1	5)		- Give details of C	olor change	: III Keillaik	5		
estrictive Layer (i	if present):								
Type:								Hydric Soil Preser	nt? Yes O No 💿
7.7	١:								
Depth (inches)		rved							
Depth (inches)		rved							
Depth (inches) emarks: b hydric soil indic	ators obse	rved							
Depth (inches) emarks: b hydric soil indica	ators obse							_Secondary In	dicators (two or more are required)
Depth (inches) emarks: b hydric soil indicators YDROLOGY //etland Hydrology //etimary Indicators	Y ogy Indicas (any one	ators:	t)					Water St	dicators (two or more are required) ained Leaves (B9)
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