WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 28-Aug-15		
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW15_T333_02		
	gator(s): AFW		Landform (hill	side, terrac	e, hummocks etc.): Mountainslope		
-	elief (concave, convex, none): undulating		Slope: 8.7) ° Elevation:		
	ion: Interior Alaska Mountains	Lat.:	·	_	Long.: Datum: WGS84		
_	p Unit Name:				NWI classification: PEM1/SS1B		
	natic/hydrologic conditions on the site typical for this ti		-2 Voc	● No ○	(If no, explain in Remarks.)		
		-	y disturbed?		lormal Circumstances" present? Yes No		
		-	roblematic?		eded, explain any answers in Remarks.)		
SUMN	MARY OF FINDINGS - Attach site map show	wing san	npling point	locations	s, transects, important features, etc.		
	Hydrophytic Vegetation Present? Yes ● No C)	_				
	Hydric Soil Present? Yes ● No C)			npled Area		
	Wetland Hydrology Present? Yes No)	Wi	ithin a W	/etland? Yes ● No ○		
Rema	irks: dusting of snow on plot						
VEGE	TATION - Use scientific names of plants. Li	st all spe	ecies in the	plot.			
		Absolute	Dominant	Indicator	Dominance Test worksheet:		
	Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)		
1.					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.					Prevalence Index worksheet:		
	Total Covers				Total % Cover of: Multiply by:		
Sapl	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species <u>0.1</u> x 1 = <u>0.1</u>		
1.	Salix reticulata	12	✓	FAC	FACW Species 1 x 2 = 2		
2.	Vaccinium vitis-idaea	8	✓	FAC	FAC Species 72 x 3 = 216		
3.	Vaccinium uliginosum	7		FAC	FACU Species 6 x 4 = 24		
4.	Empetrum nigrum			FAC	UPL Species <u>3</u> x 5 = <u>15</u>		
	Cassiope tetragona	3		FACU	Column Totals: <u>82.1</u> (A) <u>257.1</u> (B)		
	Salix arctica			FACU	Prevalence Index = B/A =3.132_		
_ '	Salix pulchra			FACW			
					Hydrophytic Vegetation Indicators:		
					✓ Dominance Test is > 50% Prevalence Index is ≤ 3.0		
10.	Total Cover:						
Herl	b Stratum 50% of Total Cover:		% of Total Cover	7.8	Morphological Adaptations (Plovide supporting data in Remarks or on a separate sheet)		
1.	Carex bigelowii	35	✓	FAC	Problematic Hydrophytic Vegetation (Explain)		
	Poa arctica			FAC	¹ Indicators of hydric soil and wetland hydrology must		
	Artemisia norvegica ssp. saxatilis			FACU	be present, unless disturbed or problematic.		
4.	Eriophorum angustifolium			OBL	Plot size (radius, or length x width) 10m		
5.					Plot size (radius, or length x width) 10m % Cover of Wetland Bryophytes		
6.					(Where applicable)		
					% Bare Ground		
					Total Cover of Bryophytes		
10.					Hydrophytic		
	Total Cover: 50% of Total Cover: 2		of Total Cover	0.63	Vegetation Present? Yes ● No ○		
	50% 01 10tal Cover:	1.33 20%	or rotal cover:	8.62			
Rema	arks: eriang in wet microlows						

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SOIL Sampling Point: SW15_T333_02

	ion: (Describe to	the depth ne Matrix	eded to doc	ument the ind		nfirm the ab		ators)		
Depth (inches)	Color (mo	ist)	%	Color (m	oist)	%	Type ¹	Loc ²	Texture	Remarks
0-6			100						Mucky Peat	
6-8			100						Muck	-
8-17		4/2	90	10YR	4/4	10		PL	Sandy Loam	fine to coarse gravel and cobbles
									,	
									-	
¹Type: C=Cor	ncentration. D=	Depletion.	RM=Redu				_		annel. M=Matrix	
Hydric Soil I	ndicators:			Indicate	ors for Pro	oblemati	Hydric So	oils: ³		
Histosol or	r Histel (A1)			Alask	a Color Ch	ange (TA	1)		Alaska Gleyed Without H	ue 5Y or Redder
✓ Histic Epip	pedon (A2)				a Alpine sv		-		Underlying Layer	
Hydrogen	Sulfide (A4)			Alask	a Redox W	Vith 2.5Y H	lue		Other (Explain in Remark	(S)
_	k Surface (A12))		3 ∩no ir	dicator of	hydrophyt	ic vegetatio	n one prir	mary indicator of wetland h	wdrology
Alaska Gle							e position r			iydi ology,
✓ Alaska Red	. ,			4 Give d	etails of co	olor chang	e in Remark	c		
☐ Alaska Gle	eyed Pores (A15	5)		OIVC G	ctalls of co	nor criarig	e iii Reman			
Restrictive Laye	er (if present):									
Type:									Hydric Soil Present	? Yes ◉ No O
Depth (inch	nes):									
HYDROLO	GY									
HYDROLO Wetland Hyd		tors:							_Secondary Indi	cators (two or more are required)
Wetland Hyd			:)							cators (two or more are required) ned Leaves (B9)
Wetland Hyd	rology Indica ators (any one i		:)	Inc	ındation Vi	sible on A	erial Image	ry (B7)	Water Stai	
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