## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	t/Site: Susitna-Watana Hydroe	electric Project		Borough/City	/: Matanusk	a-Susitna Borough Sampling Date: 25-Jun-12
Applica	ant/Owner: Alaska Energy Auth	nority				Sampling Point: SW12_T28_04
nvesti	gator(s): JGK			Landform (	hillside, terrac	e, hummocks etc.): Flat
Local r	relief (concave, convex, none):	convex		Slope:	% / 1.2	e Elevation: 719
Subrec	gion: Interior Alaska Mountains		Lat	.: 62.8686181	 1223	Long.: -148.369515675 Datum: NAD83
_	ap Unit Name:			02.0000101	1220	NWI classification: PSS3/EM1B
	matic/hydrologic conditions on the	s site typical for this ti	mo of v		es   No	(If no, explain in Remarks.)
Are V	/egetation ☐ , Soil ☐ , /egetation ☐ , Soil ☐ ,	or Hydrology	significa naturall	antly disturbed? y problematic?	? Are "N (If nee	ormal Circumstances" present? Yes No No oded, explain any answers in Remarks.)
	Hydrophytic Vegetation Present				ls the Sam	nlad Araa
	Hydric Soil Present?	Yes   ● No C	)		within a W	_
	Wetland Hydrology Present?	Yes ⊙ No C	)	,	within a w	etiand? Tes o No o
Rema	ETATION -Use scientific na	ames of plants. Li	st all s	species in th	ne plot.	
_			Absolu		t Indicator	Dominance Test worksheet:  Number of Dominant Species
1.	e Stratum		% Co	ver Species?	? Status	That are OBL, FACW, or FAC: 4 (A)
2.			_			Total Number of Dominant
3.			_	$\frac{0}{0}$		Species Across All Strata: 4 (B)
4.			_	0		Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
5.				0		Prevalence Index worksheet:
		Total Cover:	0			Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50	0% of Total Cover:	02	20% of Total Cov	ver:0	OBL Species47 x 1 =47
1.	Rhododendron tomentosum		:	10	FACW	FACW Species 10 x 2 = 20
2.	Vaccinium uliginosum			10	FAC	FAC Species <u>19</u> x 3 = <u>57</u>
3.	Empetrum nigrum			2	FAC	FACU Species 0 x 4 = 0
4.	Andromeda polifolia (IAM)			10	OBL	UPL Species <u>0</u> x 5 = <u>0</u>
5.	Betula nana			5	FAC	Column Totals: <u>76</u> (A) <u>124</u> (B)
6.	Vaccinium vitis-idaea		_	2	FAC	Prevalence Index = B/A =1.632_
7.			_	0		
8.			_	0		Hydrophytic Vegetation Indicators:
			_	0		✓ Dominance Test is > 50%
10.			_	0		✓ Prevalence Index is ≤3.0
Her	b Stratum 5	Total Cover:		9 20% of Total Co	ver: 7.8	<ul> <li>Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)</li> </ul>
1.	Trichophorum caespitosum		_3	35	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2.	Eriophorum angustifolium		_	2	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3.			_	0		be present, unless disturbed or problematic.
			_	0		Plot size (radius, or length x width) 10m
_			_	<u>0</u>		% Cover of Wetland Bryophytes
			_			(Where applicable)
			_			
			_			i otal Cover of Bryophytes
				0		Hydrophytic
10.		Total Cover:	_			Vegetation
	50	0% of Total Cover:1			ver:7.4	Present? Yes   No
7. 8. 9. 10.		<b>Total Cover:</b> 0% of Total Cover:1	3:	720% of Total Cov		% Bare Ground5

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SOIL Sampling Point: SW12\_T28\_04

Depth ——	Matrix	———	Re			2	<u>-</u> .		
	olor (moist)		Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
<u> </u>		90					Fibric Organics	10% roots	
2-15							Hemic Organics	-	
								<u> </u>	
¹Type: C=Concentra	tion. D=Depletion	. RM=Reduced	I Matrix <sup>2</sup> Location	n: PL=Pore I	Lining. RC=l	Root Cha	nnel. M=Matrix		
Hydric Soil Indicat	ors:	Ī	Indicators for Pr	roblematic I	Hydric Soil	ls: <sup>3</sup>			
Histosol or Histel	(A1)	[	Alaska Color C	hange (TA4)	4		Alaska Gleyed Without H	lue 5Y or Redder	
✓ Histic Epipedon (	42)	[	Alaska Alpine s	swales (TA5)			Underlying Layer		
Hydrogen Sulfide	(A4)	[	Alaska Redox \	With 2.5Y Hu	ie		Other (Explain in Remar	ks)	
Thick Dark Surfa	e (A12)		3 0 · · · · diantam at	منفيط ما ما الا	· · · · hakkara			1 1	
Alaska Gleyed (A	13)		and an appropria				nary indicator of wetland esent	nydrology,	
Alaska Redox (A:	•		4 Give details of o	•	•	-			
☐ Alaska Gleyed Po	res (A15)		· Give details or e	Oloi Cilarige i	III Nemano				
Restrictive Layer (if p	esent):								
Type: ice							Hydric Soil Present	:? Yes 💿 No 🔾	
Depth (inches): 1	) 								
Depth (inches): 19 Remarks:									
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, , ,	)								
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, , ,									
Remarks:							_Secondary Ind	icators (two or more are requ	uired)
Remarks:  HYDROLOGY	Indicators:	)						icators (two or more are requined Leaves (B9)	uired)
Remarks:  HYDROLOGY  Wetland Hydrology  Primary Indicators (a	Indicators: ny one is sufficient	)	Inundation V				Water Sta	ined Leaves (B9) Patterns (B10)	
Remarks:  HYDROLOGY  Wetland Hydrology  Primary Indicators (a  Surface Water (A)  High Water Tabl	Indicators: ny one is sufficient	:)	Sparsely Veg	getated Conca			Water Sta Drainage Oxidized F	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roo	
Remarks:  HYDROLOGY  Wetland Hydrology  Primary Indicators (a  Surface Water (i)  High Water Tabl  Saturation (A3)	Indicators: ny one is sufficient (1) e (A2)	:)	Sparsely Veg Marl Deposit	getated Conca s (B15)	ave Surface		Water Sta Drainage Oxidized F	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roo of Reduced Iron (C4)	
Remarks:  HYDROLOGY  Wetland Hydrology  Primary Indicators (a  Surface Water (a  High Water Tabl  Saturation (A3)  Water Marks (B1)	Indicators: ny one is sufficient (1) e (A2)	:)	Sparsely Veg Marl Deposit Hydrogen Su	getated Conca s (B15) ulfide Odor (C	ave Surface		Water Sta	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roo of Reduced Iron (C4) sits (C5)	
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