WETLAND DETERMINATION DATA FORM - Alaska Region

roject	/Site: Susitna-Watana Hydro	electric Project	E	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 26-Aug-15
pplica	ant/Owner: Alaska Energy Aut	thority				Sampling Point: SW15_T347_09
··· ivestic	gator(s): AFW			Landform (hil	lside, terrac	e, hummocks etc.): Toeslope
	elief (concave, convex, none):	hummocky		Slope: 5.2	,	,
-	ion: Interior Alaska Mountains	<u> </u>	Lat.:			Long.: Datum: WGS84
oil Ma	p Unit Name:					NWI classification: Upland
Are V Are V UMN	regetation , Soil , Soil	or Hydrology, or Hydrology, or Hydrology, or Hydrology, cach site map sho	significantl naturally p wing san	y disturbed? roblematic?	(If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.) s, transects, important features, etc.
	Hydrophytic Vegetation Present		_	la la	the Com	mlad Araa
	Hydric Soil Present?	Yes O No	•)			pled Area fetland? Yes ◯ No ◉
	Wetland Hydrology Present?	Yes O No	•	W	ithin a W	etland? res UNO 9
Rema	arks:					
	ETATION - Use scientific n	ames of plants. L	Absolute % Cover	Dominant	plot. Indicator Status	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: (A) Total Number of Dominant
2.						Species Across All Strata: 6 (B)
3.						Percent of dominant Species
4.						That Are OBL, FACW, or FAC: 33.3% (A/B)
5.						Prevalence Index worksheet:
		Total Cove	r: <u>0</u>			Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum	50% of Total Cover:	0 20%	6 of Total Cover	:0	OBL Species 0 x1 = 0
	Calinandahan		40	✓	FACIAL	FACW Species 45 x 2 = 90
	Salix pulchra				FACU	FAC Species 38 x 3 = 114
2. 3.					FACU	FACU Species 54 x 4 = 216
			_			UPL Species 0 x 5 = 0
4. -						
5.						Column Totals: <u>137</u> (A) <u>420</u> (B
6.			_			Prevalence Index = B/A = 3.066
7.						
8.						Hydrophytic Vegetation Indicators:
						☐ Dominance Test is > 50%
10.						☐ Prevalence Index is ≤3.0
⊔ or	b Stratum_	Total Cove 50% of Total Cover: _		% of Total Cove	r: 8.6	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
-	Calamagrostis canadensis	_	35	✓	FAC	Problematic Hydrophytic Vegetation (Explain)
1. 2.	Mertensia paniculata			✓	FACU	
	Chamaenerion angustifolium			✓	FACU	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	Poa pratensis ssp. alpigena			✓	FACU	
4. 5.	Dubus cretions/IAM)			✓	FACU	Plot size (radius, or length x width) <u>10m</u>
5. 6.	Autominio tilonii			Ī	FACU	% Cover of Wetland Bryophytes
	Caran hisalandi				FAC	(Where applicable)
7. 8.	Detectes frieder				FACW	% Bare Ground 80
9.	Oversia discona				FACU	Total Cover of Bryophytes <u>15</u>
	Sanguisorba officinalis				FACW	
10.	Canguisorba officilialis	Total Cove			17.000	Hydrophytic Vegetation
				6 of Total Cover	: 18.8	Present? Yes O No •
		50% of Total Cover:		o ul Tutal Cuvel		

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SOIL Sampling Point: SW15_T347_09

							_		
Profile Description: (L		the depth ne Matrix	eded to docur	ment the indicator or co	onfirm the abso		ators)		
Depth (inches)							. 2	Texture	Remarks
	Color (mo	ist)		Color (moist)	<u>%</u>	Type ¹	<u>Loc</u> ²		
0-3			100					Hemic Organics	w buried ash layer?
3-11 —	10YR	3/2	100					Silt Loam	w fine to coarse gravel
11-17	10YR	3/2	100					Sandy Loam	barely any matrix, well compacted gravel
¹ Type: C=Concent	ration. D=	Depletion.	RM=Reduce	ed Matrix ² Location	n: PL=Pore	Lining. RC	=Root Cha	nnel. M=Matrix	
Hydric Soil Indica	ators:			Indicators for Pr	roblematic	Hydric So	oils: ³		
Histosol or Histo	el (A1)			Alaska Color Cl		4		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipedon	. ,			Alaska Alpine s	swales (TA5)		Underlying Layer	
Hydrogen Sulfic				Alaska Redox V	With 2.5Y H	ue		Other (Explain in Remarl	(S)
Thick Dark Surf	. ,	ı							
Alaska Gleyed (³ One indicator of and an appropriat				nary indicator of wetland h	nydrology,
Alaska Redox (A	A14)			ани ан арргорна	te iaiiuscapi	e position n	nust be pre	esent	
Alaska Gleyed F	Pores (A1	5)		⁴ Give details of o	olor change	in Remark	S		
Restrictive Layer (if	nresent):								
Type:	presenty.							Hydric Soil Present	? Yes ○ No •
Depth (inches):								riyane son Fresent	: 165 0 110 0
, , ,									
Remarks:									
no hydric soil indicat	cors								
HYDROLOGY									
HYDROLOGY Wetland Hydrolog	ıv Indica	tors:						Secondary Indi	cators (two or more are required)
Wetland Hydrolog	-)						cators (two or more are required)
Wetland Hydrolog Primary Indicators	(any one i)	Injundation V	/isible on Ae	rial Imager	ov (B7)	Water Stai	ned Leaves (B9)
Wetland Hydrolog Primary Indicators (Surface Water	(any one i)	☐ Inundation V		-	, , ,	Water Stai	ned Leaves (B9) Patterns (B10)
Wetland Hydrolog Primary Indicators (Surface Water High Water Tal	(any one i (A1) ble (A2))	Sparsely Veg	jetated Cond	-	, , ,	Water Stai Drainage F Oxidized R	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3)
Primary Indicators (Surface Water High Water Tal Saturation (A3)	(any one i (A1) ble (A2))	Sparsely Veg Marl Deposits	getated Cond s (B15)	cave Surfac	, , ,	Water Stai Drainage F Oxidized R Presence of	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4)
Wetland Hydrolog Primary Indicators (Surface Water High Water Tal	(any one in (A1)) ble (A2)) 31))	Sparsely Veg Marl Deposite Hydrogen Su	getated Cond s (B15) ulfide Odor (cave Surfac	, , ,	Water Stai Drainage F Oxidized R Presence C Salt Depos	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4)
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