WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	xa-Susitna Borough Sampling Date: 27-Aug-15
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW15_T340_01
	igator(s): JGK		Landform (hill:	side, terrac	ce, hummocks etc.): Shoulder slope
Local	relief (concave, convex, none): hummocky		Slope:	% /	° Elevation:
	gion : Interior Alaska Mountains	Lat.:			Long.: Datum: WGS84
	ap Unit Name:				NWI classification: PEM1/SS1E
	matic/hydrologic conditions on the site typical for this ti	me of vea	r? Yes	No ○	(If no, explain in Remarks.)
			ly disturbed?		Normal Circumstances" present? Yes No No
		-	problematic?		eded, explain any answers in Remarks.)
	•			•	
SUM	MARY OF FINDINGS - Attach site map show		npling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes No			41	
	Hydric Soil Present? Yes No C)			npled Area /etland? Yes ◉ No ◯
	Wetland Hydrology Present? Yes No)	Wi	thin a W	etland? Tes S No C
Rem	arks:				
VEGI	ETATION -Use scientific names of plants. Li	st all spe	ecies in the	plot.	
		Absolute	Dominant	Indicator	Dominance Test worksheet:
	ee Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)
1.					Total Number of Dominant
2.					Species Across All Strata: 4 (B)
3.					Percent of dominant Species
4.					That Are OBL, FACW, or FAC: 100.0% (A/B)
5.					Prevalence Index worksheet:
	Total Cover		_		Total % Cover of: Multiply by:
Sap	pling/Shrub Stratum 50% of Total Cover:	0 20%	% of Total Cover:	0	OBL Species <u>25</u> x 1 = <u>25</u>
1.	Salix reticulata	15	\checkmark	FAC	FACW Species 33 x 2 = 66
2.	Vaccinium uliginosum	10	\checkmark	FAC	FAC Species 32 x 3 = 96
3.	Salix richardsonii	_ 7		FACW	FACU Species <u>0</u> x 4 = <u>0</u>
4.	Salix pulchra	5		FACW	UPL Species <u>0</u> x 5 = <u>0</u>
5.	Dasiphora fruticosa	1		FAC	Column Totals: <u>90</u> (A) <u>187</u> (B)
6.		0			Prevalence Index = B/A =2.078_
7.					
8.					Hydrophytic Vegetation Indicators:
9.					✓ Dominance Test is > 50%
10.					✓ Prevalence Index is ≤3.0
Не	Total Cover : rb Stratum_ 50% of Total Cover:		_ % of Total Cover:	: 7.6	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
	Occasion and addition	25	✓	OBL	Problematic Hydrophytic Vegetation (Explain)
2.	0 1		✓	FACW	Indicators of hydric soil and wetland hydrology must
3.	lungue caetanous			FACW	be present, unless disturbed or problematic.
4.	Carex bigelowii			FAC	
5.	Parnassia kotzebuei	-		FACW	Plot size (radius, or length x width) 10m
6.	Rumex arcticus	-		FAC	% Cover of Wetland Bryophytes (Where applicable)
					% Bare Ground
7.					Total Cover of Bryophytes
8.					, , , ,
8. 9.					Hydrophytic
8. 9.	Total Covers	0 0 52	☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐		

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SOIL Sampling Point: SW15_T340_01

Profile Description: (Describe to	the depth ne Matrix	eded to docum		onfirm the abse		itors)		
Depth (inches) Color (m	oist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6							Mucky Peat	
6-8							Mucky Peat	with mineral content and gravel
8-14 2.5Y	3/2	100					Loam	with gravel and cobbles throughout
							Louin	With graver and connect anoughout
								-
¹ Type: C=Concentration. D	=Depletion.	RM=Reduce			_		nnel. M=Matrix	
Hydric Soil Indicators:			Indicators for P		4	ils:	1	
Histosol or Histel (A1)			☐ Alaska Color C				Alaska Gleyed Without H Underlying Layer	ue 5Y or Redder
✓ Histic Epipedon (A2)			Alaska Alpine	` '			Other (Explain in Remark	ve)
☐ Hydrogen Sulfide (A4)	2)		☐ Alaska Redox	WITH 2.5Y HU	ie		Other (Explain in Kemari	G)
Thick Dark Surface (A12)	2)		³ One indicator of	f hydrophytic	vegetation	n, one prin	nary indicator of wetland h	nydrology,
☐ Alaska Gleyed (A13) ☐ Alaska Redox (A14)			and an appropria					
Alaska Gleyed Pores (A	15)		4 Give details of o	color change	in Remarks	5		
Restrictive Layer (if present)	:							
Type: Bedrock							Hydric Soil Present	? Yes ◉ No ◯
Depth (inches): 14								
HYDROLOGY								
HYDROLOGY Wetland Hydrology Indic	ators:						_Secondary Indi	cators (two or more are required)
		:)						cators (two or more are required) ned Leaves (B9)
Wetland Hydrology Indic Primary Indicators (any one Surface Water (A1)		:)	Inundation \	/isible on Aei	rial Imager	y (B7)	Water Stai	
Primary Indicators (any one ✓ Surface Water (A1) ✓ High Water Table (A2)		r)	Sparsely Veg	getated Conc	_		Water Stai Drainage F Oxidized R	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3)
Primary Indicators (any one ✓ Surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3)		:)		getated Conc	_		Water Stai Drainage F Oxidized R Presence of	ned Leaves (B9) Patterns (B10) chizospheres along Living Roots (C3) of Reduced Iron (C4)
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