WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 05-Aug-12
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW12_T35_03
	gator(s): CTS, EKJ		Landform (hill	side, terrac	e, hummocks etc.): Toeslope
	relief (concave, convex, none): hummocky		Slope:		B ° Elevation: 106
	gion : Southcentral Alaska	l at :	62.899388174		Long.: -148.671385648 Datum: NAD83
		Lat	02.099300174	+9	
	ap Unit Name:		- \	<u> </u>	NWI classification: Upland
	matic/hydrologic conditions on the site typical for this ti	•		● No ○	(If no, explain in Remarks.)
		•	y disturbed?		omai on cametanece procent.
Are \	/egetation ☐ , Soil ☐ , or Hydrology ☐	naturally p	roblematic?	(If nee	eded, explain any answers in Remarks.)
SUM	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 ④		Is	the Sam	pled Area
	Wetland Hydrology Present? Yes No (wi	ithin a W	etland? Yes ○ No •
Rem	arks: Sdec, dwarf crowberry tundra, less likely is Sdet	/	'		
VEGI	ETATION - Use scientific names of plants. Li	ist all spe		•	Dominance Test worksheet:
Tre	e Stratum	% Cover		Status	Number of Dominant Species
1.		0			That are OBL, FACW, or FAC: 2 (A)
2.		0			Total Number of Dominant Species Across All Strata: 2 (B)
3.		0			Percent of dominant Species
4.		0			That Are OBL, FACW, or FAC: 100.0% (A/B)
5.		0			Prevalence Index worksheet:
	Total Cover	:			Total % Cover of: Multiply by:
Sap	oling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species 0 x 1 = 0
1.	Empetrum nigrum	65	✓	FAC	FACW Species 3 x 2 = 6
2.	Vaccinium uliginosum	45	~	FAC	FAC Species 114.2 x 3 = 342.6
3.	Spiraea stevenii	3		FACU	FACU Species 6.2 x 4 = 24.8
4.	Salix pulchra	3		FACW	UPL Species 0.2 x 5 = 1.000
5.	Cassiope tetragona	2		FACU	Column Totals: 123.6 (A) 374.4 (B)
6.	Vaccinium vitis-idaea	1		FAC	
7.	Linnaea borealis	0.1		FACU	Prevalence Index = B/A = 3.029
8.		0			Hydrophytic Vegetation Indicators:
9.		0			✓ Dominance Test is > 50%
10.		0			Prevalence Index is ≤3.0
Hei	Total Cover b Stratum 50% of Total Cover:		% of Total Cover	23.82	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1.	Festuca rubra	3		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Artemisia norvegica			FACU	¹ Indicators of hydric soil and wetland hydrology must
3.	Huperzia selago	0.1		UPL	be present, unless disturbed or problematic.
4.	Anemone narcissiflora	0.1		FACU	Plot size (radius, or length x width)
5.	Gentiana glauca	0.1		FAC	% Cover of Wetland Bryophytes
6.	Carex microchaeta	0.1		FAC	(Where applicable)
7.	Anthoxanthum monticola ssp. alpinum			UPL	% Bare Ground
8.					Total Cover of Bryophytes
		0			Hydrophytic
9.					
	Total Cover 50% of Total Cover:	4.5	of Total Cover	0.9	Vegetation Present? Yes No

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SOIL Sampling Point: SW12_T35_03

	Matrix	eded to docume	nt the indicator or co	onfirm the abse		ators)		
Depth (inches) Color (n	oist)	%	Color (moist)	%	Type ¹	_Loc_ ²	Texture	Remarks
0-1		100			1,75		Fibric Organics	
1-7 5YR	2.5/2	90					Sandy Loam	10% roots
7-11 2.5YR	2.5/2	100					Loamy Sand	few roots
11-15 10YR	3/3	100					Loamy Sand	few rounded gravel
15-202.5Y	3/3	95					Loamy Sand	rounded gravel and coarse sand
¹ Type: C=Concentration. [D=Depletion		Matrix ² Location				nnel. M=Matrix	-
Hydric Soil Indicators:		· [Alaska Color C		4	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Marka Clayed Without H	uo EV or Roddor
Histosol or Histel (A1) Histic Epipedon (A2)		[Alaska Color C				Alaska Gleyed Without H Underlying Layer	ue 51 or Redder
Hydrogen Sulfide (A4)		[Alaska Redox	` '			Other (Explain in Remark	rs)
Thick Dark Surface (A1)	2)	_		***************************************				,
Alaska Gleyed (A13)	2)						nary indicator of wetland h	ydrology,
Alaska Redox (A14)			and an appropria	ite landscape	e position n	nust be pre	esent	
Alaska Gleyed Pores (A	15)		4 Give details of o	color change	in Remark	5		
Restrictive Layer (if present):							0 0
Type: Depth (inches):							Hydric Soil Present	? Yes ○ No •
Deput (inches).								
HYDROLOGY								
HYDROLOGY Wetland Hydrology India	cators:						Secondary Indi	cators (two or more are required)
Wetland Hydrology Indicators (any one		·)					Water Stai	ned Leaves (B9)
Wetland Hydrology Indice Primary Indicators (any one Surface Water (A1)		:)	Inundation \		-		Water Stai Drainage F	ned Leaves (B9) Patterns (B10)
Primary Indicators (any one Surface Water (A1) High Water Table (A2)		:)	Sparsely Ve	getated Cond	-		☐ Water Stai☐ Drainage F☐ Oxidized R	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3)
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Primary Indicators (any one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	e is sufficient	:)	Sparsely Vec Marl Deposit Hydrogen St Dry-Season	getated Cond ts (B15) ulfide Odor (Water Table	cave Surfac C1) (C2)		Water Stai Drainage F Oxidized R Presence c Salt Depos	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4) its (C5) Stressed Plants (D1)
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