WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	В	Borough/City:	Matanusk	ka-Susitna Borough Sampling Date: 04-Aug-13
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW13_T119_08
	gator(s): BAB		Landform (hill	side, terrac	ce, hummocks etc.): Hillside
-	elief (concave, convex, none): rolling		Slope: 17.6	% / 10.	
	ion : Interior Alaska Mountains	Lat ·	62.824837351		Long.: -147.785523171 Datum: WGS84
	p Unit Name:		02.02403733		NWI classification: Upland
	natic/hydrologic conditions on the site typical for this tir		-0 Voo	No ○	(If no, explain in Remarks.)
Are V Are V	egetation 🗌 , Soil 🔲 , or Hydrology 🔲 s	ignificantly aturally pr ving san	y disturbed? roblematic?	Are "N (If nee	Normal Circumstances" present? Yes No Oeded, explain any answers in Remarks.)
	· · · · · · · · · · · · · · · · · · ·		Is	the Sam	pled Area
	· · · · · · · · · · · · · · · · · · ·			thin a W	
	Wetland Hydrology Present? Yes ○ No ●				
	TATION - Use scientific names of plants. Lis	st all spe Absolute % Cover	Dominant		Dominance Test worksheet: Number of Dominant Species That are ORL FACW or FAC
1.		0			That are OBL, FACW, or FAC:5(A)
2.		0_			Total Number of Dominant Species Across All Strata: 6 (B)
3.		0			Percent of dominant Species
4.		0			That Are OBL, FACW, or FAC: 83.3% (A/B)
5.		0			Prevalence Index worksheet:
	Total Cover:				Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species
1.	Picea mariana	20	✓	FACW	FACW Species 28 x 2 = 56
2.	Picea glauca	5		FACU	FAC Species <u>61.1</u> x 3 = <u>183.3</u>
3.	Salix pulchra	5		FACW	FACU Species 9 x 4 = 36
4.	Vaccinium uliginosum	25	✓	FAC	UPL Species <u>0.1</u> x 5 = <u>0.500</u>
5.	Vaccinium vitis-idaea	6		FAC	Column Totals: <u>98.2</u> (A) <u>275.8</u> (B)
6.	Empetrum nigrum		✓	FAC	Prevalence Index = B/A = 2.809
7.	Ledum decumbens			FACW	
8.					Hydrophytic Vegetation Indicators: Dominance Test is > 50%
9.					✓ Dominance Test is > 50%✓ Prevalence Index is ≤3.0
10.	Total Cover:				
Her	b Stratum 50% of Total Cover:		% of Total Cover	: 16.8	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
	Equisetum arvense	4	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
	Saussurea angustifolia			FAC	¹ Indicators of hydric soil and wetland hydrology must
3.	Carex bigelowii	4	✓	FAC	be present, unless disturbed or problematic.
4.	Saxifraga odontoloma	0.1		UPL	Plot size (radius, or length x width) 10m
5.	Calamagrostis canadensis	0.1		FAC	Plot size (radius, or length x width) 10m % Cover of Wetland Bryophytes
0.	Cornus canadensis	4	<u>~</u>	FACU	(Where applicable)
					% Bare Ground
					Total Cover of Bryophytes 45
10.	Total Covers	14.2			Hydrophytic
	Total Cover: 50% of Total Cover:		of Total Cover	2.84	Vegetation Present? Yes No
_					<u> </u>
Rem	arks:	7.1 20%	or rotal cover.		Trescit.

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SOIL Sampling Point: SW13_T119_08

Profile Description Depth	on. (Describe to	Matrix			edox Featu	res			
(inches)	Color (m	oist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4								Fibric Organics	
4-6								Hemic Organics	
6-12	7.5YR	3/1	100					Silt Loam	rounded to angular gravel
12-18	2.5Y	4/2	100					Sandy Loam	rounded to angular gravel
	2.31	1/2						Sundy Essent	Tourided to drigdidi gravei
									-
								-	
¹Type: C=Con	ncentration. D	=Depletion	ı. RM=Reduc	ed Matrix ² Location	on: PL=Pore	e Lining. RC	C=Root Cha	nnel. M=Matrix	-
Hydric Soil Ir	ndicators:			Indicators for P	roblematio	c Hydric So	oils: ³		
Histosol or	Histel (A1)			Alaska Color (Change (TA4	4 1)		Alaska Gleyed Without H	lue 5Y or Redder
Histic Epipe	edon (A2)			Alaska Alpine	swales (TA5	5)		Underlying Layer	
Hydrogen :	Sulfide (A4)			Alaska Redox	With 2.5Y F	lue		Other (Explain in Remar	ks)
Thick Dark	Surface (A12	2)		30					
Alaska Gle	yed (A13)			and an appropria				nary indicator of wetland l esent	nydrology,
Alaska Red	dox (A14)					•	•		
Alaska Gle	yed Pores (A	L5)		⁴ Give details of	color change	e in Kemark	S		
Restrictive Laye	er (if present)	:							
Type:								Hydric Soil Present	:? Yes O No 💿
Depth (inch Remarks: no hydric soil in		erved							
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