WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 20-Aug-15
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW15_T305_10
Investigator(s): GVF	I	Landform (hil	lside, terrac	e, hummocks etc.): Hillside
Local relief (concave, convex, none): hummocky		Slope: 7.0	% / 4.0	° Elevation:
Subregion : Interior Alaska Mountains	Lat.:			Long.: Datum: WGS84
Soil Map Unit Name:				NWI classification: Upland
Are climatic/hydrologic conditions on the site typical for this t	·	You.	● No ○	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology	significantly naturally pro	disturbed?	Are "N (If nee	ormal Circumstances" present? Yes No Oded, explain any answers in Remarks.)
Hydrophytic Vegetation Present? Yes No				
Hydric Soil Present? Yes No		Is	the Sam	pled Area
Wetland Hydrology Present? Yes No		w	ithin a W	etland? Yes ○ No ⊙
Remarks: upper edge of south facing bluff.		l l		
VEGETATION - Use scientific names of plants. L	ist all spe	cies in the	plot.	Dominance Test worksheet:
Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species
1. Picea glauca	8	<u>Species:</u> ✓	FACU	That are OBL, FACW, or FAC:5 (A)
2 Disco mariana	5	✓	FACW	Total Number of Dominant
3			TACW	Species Across All Strata:
	- 0			Percent of dominant Species That Are OBL, FACW, or FAC: 83.3% (A/B)
5.	0			Burnelou or Tudou condebrato
Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	6.5 20%	of Total Cover	:2.6	OBL Species 0 x1= 0
	20	~		FACW Species 18 x 2 = 36
Vaccinium uliginosum Rhododendron groenlandicum	30	V	FAC	FAC Species 93.3 x 3 = 279.9
2 Potulo popo		V	FAC FAC	FACU Species 13 x 4 = 52
4 Empetrum nigrum	15	✓	FAC	UPL Species 0 x 5 = 0
E Manadadous vitta idana	10		FAC	
vaccinium vitis-idaea Picea mariana	5		FACW	Column Totals: <u>124.3</u> (A) <u>367.9</u> (B)
7. Rhododendron tomentosum	5		FACW	Prevalence Index = B/A = 2.960
8. Picea glauca	5		FACU	Hydrophytic Vegetation Indicators:
9. Salix pulchra	3		FACW	✓ Dominance Test is > 50%
10. Betula glandulosa	3		FAC	✓ Prevalence Index is ≤3.0
Total Cover Herb Stratum 50% of Total Cover:		of Total Cove	r: 22.2	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
Equisetum arvense	0.1		FAC	Problematic Hydrophytic Vegetation (Explain)
Carex bigelowii	0.1		FAC	¹ Indicators of hydric soil and wetland hydrology must
3. Bistorta plumosa	0.1		FACU	be present, unless disturbed or problematic.
4	0			Plot size (radius, or length x width)
5				% Cover of Wetland Bryophytes
6				(Where applicable)
7				% Bare Ground5
8.	_			Total Cover of Bryophytes90
10.				Hydrophytic
		of Total Cover	. 0.06	vegetation Present? Yes No No
9	0 0.3 0.15 20%			Vegetation Present? Yes • No ·

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SOIL Sampling Point: SW15_T305_10

Profile Descripti										
			eded to docun	nent the indicator or co						
Depth (inches)		Matrix			dox Features				Damanka	
(inches)	Color (mo	ist)	<u>%</u>	Color (moist)	<u>%</u>	Type 1 Loc		exture	Remarks	
0-4							Hemic Org	anics	-	
4-5	10YR		100				Silt Loam			
5-10	10YR	2/2	100				Silt Loam		w/ organic inclusions and cobbles	
10-17	7.5YR	3/3	100				Loamy Sar	nd	much semiangular gravel	
1T.may C. Car		Donlation	DM_Doduce	ed Matrix ² Location	n. Di Dovo li	ining DC-Doot	Channal M-M	atuis.	-	
1 1		=Depletion.	RM=Reduce			_	Channel. M=M	атлх		
Hydric Soil I	ndicators:			Indicators for Pi	4	lydric Soils:				
Histosol or	Histel (A1)			Alaska Color C			☐ Alaska Gle Underlyin		ue 5Y or Redder	
Histic Epip	edon (A2)			Alaska Alpine s	, ,		_ ′	• ,	1	
	Sulfide (A4)			☐ Alaska Redox \	With 2.5Y Hue	2	☐ Other (Ex	plain in Remark	(S)	
	Surface (A12))		³ One indicator of	hydrophytic y	vegetation one	nrimary indicat	or of wetland h	wdrology	
Alaska Gle	yed (A13)			and an appropria				or or wedand in	iyurology,	
Alaska Red	. ,						•			
☐ Alaska Gle	yed Pores (A1	5)		⁴ Give details of c	Olor Change ii	1 Kemarks				
Restrictive Laye	er (if present):									ļ
Type:							Hydric	Soil Present	? Yes ○ No •	ļ
Depth (inch	nes):									
Remarks:										
No hydric soil ir	ndicators.									ļ
,										
										ı
LIVEROLO	OV									
HYDROLO										
Wetland Hydi	rology Indica								cators (two or more are required)	
Wetland Hydi Primary Indica	rology Indicators (any one)	T. defice	·- · · · · · · · · · · · · · · · · ·	(pg)		Water Stai	ned Leaves (B9)	<u> </u>
Wetland Hydromary Indica Surface W	rology Indicators (any one later (A1))			al Imagery (B7)	-	Water Stai Drainage F	ned Leaves (B9) Patterns (B10)	
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