WETLAND DETERMINATION DATA FORM - Alaska Region

roject/Site: Susitna-Watana Hydroelectric Project	Bo	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 23-Aug-15
pplicant/Owner: Alaska Energy Authority				Sampling Point: SW15_T308_08
nvestigator(s): GVF	I	Landform (hil	lside, terrac	e, hummocks etc.): Ridgetop
ocal relief (concave, convex, none): hummocky		Slope: 7.0	% / 4.0	
ubregion : Interior Alaska Mountains	Lat.:			Long.: Datum: WGS84
bil Map Unit Name:				NWI classification: Upland
re climatic/hydrologic conditions on the site typical for this ti	ima af vaar) Voc	● No ○	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology	significantly naturally pro	disturbed?	Are "N (If nee	lormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.)
Hydrophytic Vegetation Present? Yes ● No C				
Hydric Soil Present? Yes ○ No ④		Is	the Sam	pled Area
Wetland Hydrology Present? Yes O No 🗨		W	ithin a W	/etland? Yes ○ No •
Remarks: plot at crest of low, gently sloping ridge.large hu	mmocks wit	h wide open	interhummo	ock areas
EGETATION -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	1		FACU	That are OBL, FACW, or FAC:3 (A)
2	0	П		Total Number of Dominant Species Across All Strata: 3 (B)
3.	0			Species Across All Strata:3 (B) Percent of dominant Species
4.	0			That Are OBL, FACW, or FAC: 100.0% (A/B)
5.	0			Prevalence Index worksheet:
Total Cover	: _1_			Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	0.5 20%	of Total Cover	:0.2	OBL Species $0 \times 1 = 0$
Vaccinium uliginosum	35	✓	FAC	FACW Species 20.1 x 2 = 40.20
Betula glandulosa	22	<u> </u>	FAC	FAC Species 76 x 3 = 228
Rhododendron tomentosum	20	✓	FACW	FACU Species 1.3 x 4 = 5.200
4. Betula nana	10		FAC	UPL Species 0 x 5 = 0
5. Vaccinium vitis-idaea	5		FAC	Column Totals: 97.4 (A) 273.4 (B)
6. Empetrum nigrum	3		FAC	
7. Spiraea stevenii	0.1		FACU	Prevalence Index = B/A = 2.807
8. Picea mariana	0.1		FACW	Hydrophytic Vegetation Indicators:
9. Picea glauca	0.1		FACU	✓ Dominance Test is > 50%
10	0			Prevalence Index is ≤3.0
Total Cover Herb Stratum 50% of Total Cover:		of Total Cove	r: <u>19.06</u>	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
Carex bigelowii			FAC	Problematic Hydrophytic Vegetation (Explain)
Lycopodium clavatum			FACU	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.				be present, unless disturbed of problematic.
4.			-	Plot size (radius, or length x width) <u>10m</u>
5.				% Cover of Wetland Bryophytes
6				(Where applicable)
7. 8.				% Bare Ground55 Total Cover of Bryophytes 40
9.	_			Total Cover of Bryophytes 40
	•			Hydrophytic
10.				
10Total Cover	1.1_			Vegetation Present? Yes ● No ○

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SOIL Sampling Point: SW15_T308_08

Depth (inches)					Red	•	_ 1	. 2	Texture	Remarks
0-4	Color (m	oist)	<u></u>	Color (m	ioist)	_%_	Type ¹	<u>Loc</u> ²	Fibric Organics	Remarks
4-6									Hemic Organics	P
	7 FVD	2/2	100						Silt Loam	hish sussels soukent
6-8	7.5YR	3/2		2.57.0	2.5/2					high organic content.
8-14	7.5YR	3/3		2.5YR	2.5/2	10	C		Sandy Loam	w/ gravel.thin layer mottles near 8 in.
	5YR	3/2								second matrix color.
14-20	10YR	3/4						-	Loamy Sand	some coarse sand.
Type: C=Cor	ncentration. D	=Depletion	າ. RM=Redu						nnel. M=Matrix	
lydric Soil Iı ¬					ors for Pro		4	oils:	1	
_	Histel (A1)				ka Color Cha		-		Alaska Gleyed Without Underlying Layer	t Hue 5Y or Redder
☐ Histic Epip ☐	` '				ka Alpine sw ka Redox W	•	•	Г	Other (Explain in Rem	arks)
¬ ' -	Sulfide (A4)	.,		∟ Alasi	ka Redox W	Itn 2.51 F	iue		J Outer (Explain in Rem	al No)
_	Surface (A12)	<u>(1)</u>		³ One ir	ndicator of h	nydrophyt	ic vegetatio	n, one prin	nary indicator of wetlan	d hydrology,
 Alaska Gle Alaska Rec				and an	appropriate	landscap	e position i	must be pre	esent	
_	yed Pores (A1	.5)		4 Give d	letails of col	or change	e in Remark	(S		
	, ,	,								
•	er (if present)	i							Hydric Soil Prese	nt? Yes ○ No •
Type:									nyaric Soil Prese	nt? Yes UNO @
Depth (inch	ies):									
Depth (inchemarks: hydric soil in										
emarks:										
emarks: hydric soil in	ndicators GY									
emarks: hydric soil in YDROLO Vetland Hydric	GY rology Indic									ndicators (two or more are required)
YDROLO Tetland Hydrical	GY rology Indictors (any one		nt)					(07)	Water S	Stained Leaves (B9)
YDROLO YEtland Hydrimary Indica Surface W	GY rology Indicators (any one /ater (A1)		nt)		undation Vis				Water S Drainag	Stained Leaves (B9) e Patterns (B10)
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