WETLAND DETERMINATION DATA FORM - Alaska Region

	atana Hydroelectric Project	-	Borough/City:	Malanusk	a-Susitna Borough Sampling Date: 05-Aug-12
Applicant/Owner: Alaska	Energy Authority			-	Sampling Point: SW12_T34_02
Investigator(s): SLI, KM			Landform (hills	side. terrac	e, hummocks etc.): Mountainslope
Local relief (concave, conv			Slope:	% / 5.9	
·		L of :	· · —		
Subregion : Southcentral	Alaska	Lal	62.897146514	-8	
Soil Map Unit Name:					NWI classification: Upland
Are Vegetation, S		ignificantl	ly disturbed?		(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○
Are Vegetation, S	Soil 🗌 , or Hydrology 🔲 r	aturally p	roblematic?	(If nee	ded, explain any answers in Remarks.)
SUMMARY OF FINDI	NGS - Attach site map shov	ving san	npling point	locations	s, transects, important features, etc.
Hydrophytic Vegeta	tion Present? Yes No				
Hydric Soil Present			Is	the Sam	pled Area
Wetland Hydrology			wi	thin a W	etland? Yes O No 💿
Remarks:	Tresent:				
VEGETATION -Use s	cientific names of plants. Lis	et all co	osios in tha	nlot	
VEOLITION -036 3	cientine names of plants. Lis				Dominance Test worksheet:
Tree Stratum		Absolute % Cover		Indicator Status	Number of Dominant Species
1.	•	0		<u> </u>	That are OBL, FACW, or FAC: (A)
2.		0	. 🗀		Total Number of Dominant
2		0			Species Across All Strata: 3 (B)
4		0			Percent of dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)
5.		0			
	Total Cover:	0			Prevalence Index worksheet: Total % Cover of: Multiply by:
Sapling/Shrub Stratum	50% of Total Cover:	0 20%	6 of Total Cover:	0	OBL Species 0 x1 = 0
		15	✓	FAC	FACW Species 0 x 2 = 0
 Salix rotundifolia Cassiope tetragona 	<u> </u>	15 1	. 🔻	FACU	FAC Species 34 x 3 = 102
Cassiope tetragoria Empetrum nigrum		2		FAC	FACU Species 15 x 4 = 60
Vaccinium vitis-idae		3		FAC	UPL Species 3 x 5 = 15
F		0	·	1710	
		0	. П		Column Totals: <u>52</u> (A) <u>177</u> (B)
_		0			Prevalence Index = B/A = 3.404
•		0			Hydrophytic Vegetation Indicators:
		0			✓ Dominance Test is > 50%
10.		0			☐ Prevalence Index is ≤3.0
	Total Cover:				Morphological Adaptations ¹ (Provide supporting data in
Herb Stratum	50% of Total Cover:	10.5 20%	% of Total Cover	4.2	Remarks or on a separate sheet)
Luzula arcuata		2	. 🔲	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
Gentiana glauca		2	. 📙	FAC	¹ Indicators of hydric soil and wetland hydrology must
3. Campanula lasioca	rpa	1	. \Box	UPL	be present, unless disturbed or problematic.
4. Antennaria monoce	•	2		UPL	Plot size (radius, or length x width)
5. Rhodiola integrifolia				FAC	% Cover of Wetland Bryophytes
6. Artemisia norvegica	3		. 📙	FACU	(Where applicable)
7. Pyrola minor	diada ana alsis ss			FAC	% Bare Ground5
8. Anthoxanthum mor	nticola ssp. alpinum	3	· V	UPL	Total Cover of Bryophytes 40
9. Poa alpina				FACU FAC	
10. Carex microchaeta	Total Cover:			1 AC	Hydrophytic Vegetation
					- (-)
	50% of Total Cover: 1	5.5 20%	6 of Total Cover:	6.2	Present? Yes ♥ No ∪

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SOIL Sampling Point: SW12_T34_02

D41-		ne depth nee latrix	ded to docume	cument the indicator or confirm the absence of indicators) Redox Features				ators)		
Depth (inches)	Color (moi	st)	%	Color (m	oist)	%	Type ¹	Loc ²	Texture	Remarks
0-1									Fibric Organics	
1-2									Hemic Organics	-
2-18	7.5YR	3/3	50	7.5YR	2+/2	30			Silt Loam	lenses of buried organics (20%)
										3
						-				
									-	
¹Type: C=Con	centration. D=	Depletion. F	RM=Reduce	d Matrix	² Location	: PL=Pore	Lining. RC	C=Root Cha	nnel. M=Matrix	
Hydric Soil Ir	ndicators:			Indicato	ors for Pro	blematio	Hydric S	oils: ³		
Histosol or	Histel (A1)			Alask	a Color Ch	ange (TA4)4		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipe	edon (A2)			Alask	a Alpine sv	vales (TA5)		Underlying Layer	
Hydrogen :	Sulfide (A4)			Alask	a Redox W	ith 2.5Y H	ue		Other (Explain in Remark	(S)
Thick Dark	Surface (A12)			3 One in	dicator of l	audrophut	s voqetatio	n one prin	nany indicator of wotland b	yydrology
Alaska Gley	yed (A13)				appropriate				nary indicator of wetland hesent	iyarology,
Alaska Red	` '			4 Give d	etails of co	lor change	in Domark	rc ·		
☐ Alaska Gle	yed Pores (A15)		GIVE U	etalis or co	ior change	. III Kemar			
Restrictive Laye	er (if present):									
Type:	_								Hydric Soil Present	? Yes ○ No •
Depth (inch	ies):									
HYDROLO	GY									
HYDROLO Wetland Hydr		tors:							_Secondary Indi	cators (two or more are required)
	ology Indicat									cators (two or more are required) ned Leaves (B9)
Wetland Hydr	rology Indicat tors (any one is			Inu	ındation Vis	sible on A	erial Image	ry (B7)	Water Stai	ned Leaves (B9) Patterns (B10)
Primary Indicat Surface W High Wate	rology Indicat tors (any one is ater (A1) er Table (A2)			☐ Spa	arsely Vege	tated Con	_		Water Stai Drainage I Oxidized R	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3)
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Wetland Hydr Primary Indicat Surface W High Wate Saturation Water Mar Sediment	rology Indicat tors (any one is later (A1) er Table (A2) In (A3) rks (B1) Deposits (B2)			Spa	arsely Vege rl Deposits drogen Sulf v-Season W	etated Con (B15) fide Odor /ater Table	cave Surfac		Water Stail Drainage I Oxidized R Presence o Salt Depos	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) Stressed Plants (D1)
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