WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-V	/atana Hydroelectric Project	Matanuska-Susitna Borough Sampling Date: 29-Aug-15							
Applicant/Owner: Alas	a Energy Authority	Sampling Point: SW15_T341_07							
nvestigator(s): AFW		lside, terrac	race, hummocks etc.): Hillside						
ocal relief (concave, cor	vex, none): hummocky		Slope: 7.0	% / 4.0) ° Elevation:				
ubregion : Interior Alas		Lat.:			Long.: Datum: WGS84				
oil Map Unit Name:	na Mountains								
· —			o V	● No ○	NWI classification: PSS1B				
Are Vegetation Are Vegetation		significantl naturally proowing san	y disturbed? roblematic?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.) Iormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.)				
Hydrophytic Vege		the Com	valed Aves						
Hydric Soil Presei	t? Yes • No	0	Is the Sampled Area within a Wetland? Yes No No						
Wetland Hydrolog	y Present? Yes No	\circ							
Remarks:									
EGETATION -Use	scientific names of plants.	List all spe	ecies in the	plot.	Dominance Test worksheet:				
Tree Stratum		% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 5 (A)				
1					Total Number of Dominant				
					Species Across All Strata:5(B)				
3.					Percent of dominant Species				
4.					That Are OBL, FACW, or FAC: 100.0% (A/B)				
5	Takal Care		Ш		Prevalence Index worksheet:				
	Total Cover		of Total Cover		Total % Cover of: Multiply by:				
Sapling/Shrub Stratur	1 50% of Total Cover:	0 20%	of Total Cover	:0	OBL Species 20 x 1 = 20				
Salix reticulata		40	✓	FAC	FACW Species 45 x 2 = 90				
Salix pseudomon	ticola	35	V	FAC	FAC Species 101.1 x 3 = 303.3				
Salix pulchra			~	FACW	FACU Species 2.1 x 4 = 8.4				
4. Vaccinium uligino	sum			FAC	UPL Species0 x 5 =0				
5. Arctous ruber				FAC	Column Totals: <u>168.2</u> (A) <u>421.7</u> (B)				
6. Betula glandulosa		3		FAC	Prevalence Index = B/A =2.507_				
7. Empetrum nigrun	2		FAC						
8		$ \frac{0}{0}$			Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%				
		$ \frac{0}{0}$			✓ Prevalence Index is ≤ 3.0				
Herb Stratum	Total Cov er:	r: 25.4	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)						
Carex aquatilis		20	✓	OBL	Problematic Hydrophytic Vegetation (Explain)				
Rubus chamaem	orus		<u> </u>	FACW	Indicators of hydric soil and wetland hydrology must				
3. Carex bigelowii	5140			FAC	be present, unless disturbed or problematic.				
4. Chamaenerion a				FACU					
5. Polemonium acu				FAC	Plot size (radius, or length x width)				
6. Equisetum scirpo		1		FACU	% Cover of Wetland Bryophytes (Where applicable)				
7. Poa pratensis ss	o. alpigena	0.1		FACU	% Bare Ground45				
8. Equisetum arven	se	0.1		FAC	Total Cover of Bryophytes 50				
9									
10					Hydrophytic				
	Total Cove		· - · · · ·	: 8.24	Vegetation Present? Yes No				
	50% of Total Cover:								

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SOIL Sampling Point: SW15_T341_07

		the depth nee	eded to docume	ent the indicator or co	onfirm the ab		ators)				
Depth (inches)	Color (mo	oist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-2			100					Peat			
2-6			100					Mucky Peat			
6-18	2.5Y	3/2	100					Silty Clay Loam	5yr 3/4 thin layer at top. grvl & cbl		
								,,	27. 37. a.m. laye. at top: g. n. a to.		
¹Type: C=Cor	ncentration. D=	=Depletion.		d Matrix ² Locatio				nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for P	roblemati	c Hydric So	oils: ³				
Histosol or	Histel (A1)			Alaska Color C	hange (TA	4)4		Alaska Gleyed Without Hue 5Y or Redder			
Histic Epip	edon (A2)			Alaska Alpine s	swales (TA	5)		Underlying Layer			
Hydrogen	Sulfide (A4)			Alaska Redox	With 2.5Y H	Hue	✓	Other (Explain in Remark	s)		
☐ Thick Dark	Surface (A12))		30							
Alaska Gle	yed (A13)			and an appropria				nary indicator of wetland h esent	nydrology,		
Alaska Red	dox (A14)					•					
	yed Pores (A1			⁴ Give details of c	olor chang	е ін кешагк	.5				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	? Yes • No O		
Depth (inch	nes):										
HYDROLO	GY										
Wetland Hydi	rology Indica	itors:						Secondary Indi	cators (two or more are required)		
Primary Indica	tors (any one i	is sufficient)						Water Stai	ned Leaves (B9)		
Surface W	/ater (A1)			☐ Inundation \	isible on A	erial Image	ry (B7)	Drainage F	Patterns (B10)		
✓ High Wate	,			Sparsely Veg	jetated Cor	ncave Surfac	ce (B8)		hizospheres along Living Roots (C3)		
✓ Saturation	. ,			Marl Deposit	s (B15)			_	of Reduced Iron (C4)		
Water Mai				Hydrogen Su				☐ Salt Depos			
	Deposits (B2)			Dry-Season		. ,			Stressed Plants (D1)		
☐ Drift Depo				Uther (Expla	in in Rema	rks)			ic Position (D2)		
	or Crust (B4)								quitard (D3)		
☐ Iron Depo	. ,								graphic Relief (D4)		
	oil Cracks (B6)						T	✓ FAC-neutra	ii Test (D5)		
Field Observa Surface Water		Vec (No ●	Depth (inche	ac):						
			No O		,		\\/_+l		t? Yes • No O		
Water Table P				Depth (inche	es): 9		wetiai	nd Hydrology Presen	t? Yes S NO C		
Saturation Pre (includes capil		Yes •	No O	Depth (inche	es): 4						
Describe Record	ded Data (stre	am gauge,	monitor well,	aerial photos, pre	vious inspe	ection) if ava	ailable:				
Remarks:											
positive reaction	n to alnha aln	ha dinvrido									
positive reaction	w aipiia, aip	ma uipyriuu									

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