WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	В	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 03-Aug-12			
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW12_T38_07			
	igator(s): SLI, KMK		Landform (hill	side, terrac	ee, hummocks etc.): Hillside			
	relief (concave, convex, none): flat		Slope:	% / 14.4				
	gion : Southcentral Alaska	l at ·	62.833919980		Long.: -149.506137373 Datum: NAD83			
		Lat	02.033919900)9				
	ap Unit Name:		-)/	<u> </u>	NWI classification: Upland			
Are \		significantly	? Yes y disturbed? roblematic?		(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.)			
SUM	MARY OF FINDINGS - Attach site map show	wing san	npling point	locations	s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes No)		41	J. I.A.			
	Hydric Soil Present? Yes No •)	Is the Sampled Area within a Wetland? Yes ○ No ●					
	Wetland Hydrology Present? Yes O No 🖲		Wi	thin a W	etland? Yes Uno 🖲			
Rem	arks: dense alders - determine community slope using	GIS.						
/EGI	ETATION -Use scientific names of plants. Li	st all spe	ecies in the	plot.	Dominous Tarkonadakark			
_		Absolute	Dominant		Dominance Test worksheet: Number of Dominant Species			
1.	ee Stratum	% Cover	Species?	Status	That are OBL, FACW, or FAC:			
2.					Total Number of Dominant			
3.					Species Across All Strata: 2 (B)			
4.					Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.		0						
0.	Total Cover				Prevalence Index worksheet:			
Sar	oling/Shrub Stratum 50% of Total Cover:		of Total Cover	0	Total % Cover of: Multiply by:			
Sal	Jing/ Sin ab Stratum		_		OBL Species 0 x 1 = 0			
	Alnus viridis		✓	FAC	FAC Species 0 x 2 = 0			
	Ribes triste	5		FAC	FAC Species <u>164</u> x 3 = <u>492</u> FACU Species 2 x 4 = 8			
	Sorbus scopulina			FACU				
4.								
5.		^			Column Totals: <u>166</u> (A) <u>500</u> (B)			
6.					Prevalence Index = B/A = 3.012			
7.					II. danahadia Vanahalian Tadia-kama			
9.					Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%			
10.					Prevalence Index is ≤3.0			
10.	Total Cover				Morphological Adaptations (Provide supporting data in			
He	rb Stratum 50% of Total Cover:		6 of Total Cover	: 18.2	Remarks or on a separate sheet)			
1.	Athyrium cyclosorum	60	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Calamagrostis canadensis			FAC	¹ Indicators of hydric soil and wetland hydrology must			
3.	Cystopteris montana	10		FAC	be present, unless disturbed or problematic.			
4.	Trientalis europaea	1		FACU	Plot size (radius, or length x width) 5m			
5.	Veratrum viride	1		FAC	Plot size (radius, or length x width)			
6.	Equisetum sylvaticum			FAC	(Where applicable)			
1					% Bare Ground <u>85</u>			
		0			Total Cover of Bryophytes			
8.								
8. 9.								
8. 9.		0			Hydrophytic			
8. 9.		0 0 75	of Total Cov		Hydrophytic Vegetation Present? Yes No			

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SOIL Sampling Point: SW12_T38_07

	the depth ne Matrix	eded to docum	ent the indicator or co	nfirm the abse		ators)				
Depth						2	Texture	Remarks		
(inches) Color (mo	oist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	_Loc_ ²	Fibric Organics	Relifance		
4-5.5		100					Hemic Organics			
5.5-6		100					Sapric Organics			
6-12 7.5YR	3/1	70					Silt Loam	30% subrounded gravel-cobbles		
12-14 10YR	4/3	50					Sandy Loam	50% subrounded gravel-cobbles		
¹Type: C=Concentration. D	=Depletion.	RM=Reduce	d Matrix ² Location	n: PL=Pore	Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil Indicators:			Indicators for Pr	oblematic	Hydric So	oils: ³				
Histosol or Histel (A1)			☐ Alaska Color Change (TA4) ☐ Alaska Gleyed Without Hue 5Y or Redder							
Histic Epipedon (A2)			Alaska Alpine s	wales (TA5))	_	Underlying Layer			
Hydrogen Sulfide (A4)			Alaska Redox V	Vith 2.5Y Hu	ıe		Other (Explain in Remark	rs)		
☐ Thick Dark Surface (A12)		, _A							
Alaska Gleyed (A13)			One indicator of and an appropriat	hydrophytic e landscape	vegetation r	n, one prin	nary indicator of wetland hesent	ydrology,		
Alaska Redox (A14)					•		ESCIT			
Alaska Gleyed Pores (A1	5)		⁴ Give details of co	olor change	in Remark	S				
Restrictive Layer (if present):							_			
Type:							Hydric Soil Present	? Yes ○ No •		
Depth (inches):										
HYDROLOGY										
HYDROLOGY Wetland Hydrology Indica	ntors:						Secondary Indi	cators (two or more are required)_		
)						cators (two or more are required) ned Leaves (B9)		
Wetland Hydrology Indica)	☐ Inundation V	isible on Ae	rial Image	ry (B7)	Water Stair			
Wetland Hydrology Indicators (any one)	☐ Inundation V		_		Water Stain Drainage P	ned Leaves (B9)		
Wetland Hydrology Indica Primary Indicators (any one Surface Water (A1) High Water Table (A2) Saturation (A3))		etated Conc	_		Water Stain Drainage F Oxidized R Presence o	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) f Reduced Iron (C4)		
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