WETLAND DETERMINATION DATA FORM - Alaska Region

Project	Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date:27-Jun-12								
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW12_T24_02								
	pator(s): SLI, LMF	e, hummocks etc.): Plateau											
Local relief (concave, convex, none): flat Slope: % / 1.8 ° Elevation: 808													
Subrea	ion : Copper River Basin	Lat ·	62.655547944	 12	Long.: -147.383645853 Datum: NAD83								
_	p Unit Name:		02.00004704	-	NWI classification: Upland								
	Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)												
Are Vegetation , Soil , or Hydrology a significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.													
	Hydrophytic Vegetation Present? Yes ● No ○												
	Hydric Soil Present?		Is	the Sam	pled Area								
	Wetland Hydrology Present? Yes No		within a Wetland? Yes ○ No •										
Rema			<u>. </u>										
	TATION -Use scientific names of plants. L	ist all sp. Absolut	e Dominant	plot. Indicator Status	Dominance Test worksheet: Number of Dominant Species								
	Stratum_ Picea glauca	_ 		FACU	That are OBL, FACW, or FAC: 3 (A)								
2.	r icca giadea	- <u>-</u>	_ =	TACO	Total Number of Dominant								
3.		0			Species Across All Strata: 4 (B)								
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B)								
5.		0											
	Total Cove	r: <u>5</u>	_		Prevalence Index worksheet: Total % Cover of: Multiply by:								
Sap	ing/Shrub Stratum 50% of Total Cover:	1	OBL Species $0 \times 1 = 0$										
	<u> </u>			FACU	FACW Species 30 x 2 = 60								
1. 2.	Picea glauca Betula glandulosa	_ <u>5</u> 50		FACU FAC	FAC Species 100 x 3 = 300								
	Vaccinium vitis-idaea			FAC	FACU Species 12 x 4 = 48								
4.	Vaccinium uliginosum	30		FAC	UPL Species 0 x 5 = 0								
5.	Rhododendron tomentosum	30		FACW	Column Totals: <u>142</u> (A) <u>408</u> (B)								
6.	Rosa acicularis			FACU	Columni rotals. 142 (A) 400 (B)								
7.	Empetrum nigrum	10	<u> </u>	FAC	Prevalence Index = B/A = 2.873								
8.		0			Hydrophytic Vegetation Indicators:								
9.		0			✓ Dominance Test is > 50%								
		0			✓ Prevalence Index is ≤3.0								
Her	Total Cove 50% of Total Cover: _		 0% of Total Cover	: 27.2	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)								
1.	Cornus canadensis	1	_ 🖳	FACU	Problematic Hydrophytic Vegetation (Explain)								
2.			_ =		¹ Indicators of hydric soil and wetland hydrology must								
			_ =		be present, unless disturbed or problematic.								
			_		Plot size (radius, or length x width)								
		_			% Cover of Wetland Bryophytes								
					(Where applicable)								
			_ =		% Bare Ground _5								
			-		Total Cover of Bryophytes								
					Hydrophytic								
10.	Total Cove	- <u> </u>			Hydrophytic Vegetation								
	50% of Total Cover:		—)% of Total Cover:	0.2	Present? Yes No								
Rem	arks: 1% unidentified grass, trace salix glauca, abu												

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SOIL Sampling Point: SW12_T24_02

		the depth nee	eded to docum	nent the indicator or co	onfirm the ab		ators)				
Depth (inches)	Color (me		%	Color (moist)	%	Type ¹	Loc ²	- Texture	Remarks		
0-4		Jist)	100%	Color (Illoist)	70	Туре	LUC	Fibric Organics			
4-18	10YR	3/4	95%					Sandy Clay Loam	E0/c coarco gravel		
4-16			9570		_			Sandy Clay Loan	5% coarse gravel		
				<u> </u>							
¹Type: C=Cor	ncentration. D	=Depletion.	RM=Reduce	ed Matrix ² Location				nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pi		4	oils:	_			
Histosol or Histel (A1) Alaska Color Change (TA4)							Alaska Gleyed Without Hue 5Y or Redder				
Histic Epip	edon (A2)				Alaska Alpine swales (TA5) Underlying Layer						
Hydrogen	Sulfide (A4)			Alaska Redox \	With 2.5Y H	Hue		Other (Explain in Remark	s)		
☐ Thick Dark	Surface (A12)		3.0					at at a		
Alaska Gle	yed (A13)			and an appropria				nary indicator of wetland hesent	nydrology,		
Alaska Red	dox (A14)					•	•				
Alaska Gle	yed Pores (A1	5)		⁴ Give details of c	olor chang	e in Remark	S				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	? Yes ○ No •		
Depth (inch	nes):										
no hydric soil in	ndicators										
HYDROLO	GY										
Wetland Hydi		ators:						Secondary Indi	cators (two or more are required)		
Primary Indica	tors (any one	is sufficient						Water Stained Leaves (B9)			
☐ Surface W	/ater (A1)			☐ Inundation V	/isible on A	erial Imagei	ry (B7)	(B7) Drainage Patterns (B10)			
High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)				Oxidized R	hizospheres along Living Roots (C3)		
Saturation (A3)				☐ Marl Deposit	s (B15)			Presence of	of Reduced Iron (C4)		
☐ Water Marks (B1)				Hydrogen Su	ılfide Odor	(C1)		☐ Salt Depos	its (C5)		
Sediment Deposits (B2) Dry-Season Water Table (C2)						e (C2)		Stunted or	Stressed Plants (D1)		
☐ Drift Depo	osits (B3)			Other (Expla	in in Rema	rks)		Geomorph	ic Position (D2)		
Algal Mat	or Crust (B4)							Shallow Ad	quitard (D3)		
☐ Iron Deposits (B5)								Microtopog	graphic Relief (D4)		
Surface So	oil Cracks (B6)	1						FAC-neutra	al Test (D5)		
Field Observa	ations:										
Surface Water	Present?	Yes 🔾	No 💿	Depth (inche	es):						
Water Table P	resent?	Yes \bigcirc	No 💿	Depth (inche	es):		Wetla	nd Hydrology Presen	t? Yes O No 💿		
Saturation Pre	esent?	Voc (No 💿	Danth (inch	, \.						
Saturation Present? (includes capillary fringe) Yes No Depth (inches):											
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											
no wetland hydrology indicators											
no notation in proceeding interesting in the control of the contro											

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