## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydro	oelectric Project	Во	orough/City:	Matanusk	a-Susitna Borough Sampling Date:	: 25-Jun-12					
Applicant/Owner: Alaska Energy Authority Sampling Point: SW12_T21_02												
	gator(s): SLI, LMF	e, hummocks etc.): Lowland										
	elief (concave, convex, none):	hummocky		Slope: 5.2	% / 3.0	° Elevation: 767						
	·						Datum: WGS84					
_	ion : Interior Alaska Mountain	<u>S</u>	Latc	2.781669908	32							
Soil Map Unit Name: NWI classification: PSS1B												
Are V Are V	natic/hydrologic conditions on t egetation  , Soil egetation  , Soil mary of findings - At	, or Hydrology	significantly naturally pro wing sam	disturbed?	(If nee	(If no, explain in Remarks.)  Iormal Circumstances" present? Ye  eded, explain any answers in Remarks  s, transects, important features						
Hydrophytic Vegetation Present? Yes No Signature No Signa												
	Hydric Soil Present?	Yes  No C		within a Wetland? Yes   No								
	Wetland Hydrology Present?	Yes ● No C	)	VV 1	umi a vv	etiana:						
	arks: E <b>TATION -</b> Use scientific r	names of plants. Li	st all spec	cies in the	plot.	Dominance Test worksheet:						
<b>T</b>	- Church		Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species						
	e <b>Stratum</b> Picea mariana		10	speciesr	FACW	That are OBL, FACW, or FAC:	8(A)					
2.			0		TACV	Total Number of Dominant	O (D)					
3.			0			Species Across All Strata:	8 (B)					
4.						Percent of dominant Species That Are OBL, FACW, or FAC:	100.0% (A/B)					
5.							1001070 (**=7					
0.		Total Cover				Prevalence Index worksheet:						
San	ling/Shrub Stratum	50% of Total Cover:		of Total Cover:	2	Total % Cover of: Multipl						
Зар	inig/Siliub Stratum	John of Total Cover.				OBL Species 6 x 1 =						
	Picea mariana				FACW	FACW Species 67 x 2 =						
2.	Vaccinium vitis-idaea		10	<b>✓</b>	FAC	FAC Species 34 x 3 =	102					
3.	Vaccinium uliginosum		5		FAC	FACU Species 1 x 4 =						
4.	Empetrum nigrum		10	<b>✓</b>	FAC	UPL Species 0 x 5 =	0					
5.	Salix pulchra		30	<b>✓</b>	FACW	Column Totals: <u>108</u> (A)	<u>246</u> (B)					
6.	Salix reticulata		3		FAC	Prevalence Index = B/A =	2.278					
7.	Picea glauca		1		FACU							
8.						Hydrophytic Vegetation Indicators:						
9.						✓ Dominance Test is > 50%						
10.						Prevalence Index is ≤3.0						
Her	b Stratum_	<b>Total Cover:</b> 50% of Total Cover:		of Total Cover	: 13.2	Morphological Adaptations <sup>1</sup> (Provid Remarks or on a separate sheet)						
1.	Cornus suecica		3		FAC	Problematic Hydrophytic Vegetation						
2.	Rubus chamaemorus				FACW	<sup>1</sup> Indicators of hydric soil and wetland hyd						
3.	Equisetum sylvaticum				FAC	be present, unless disturbed or problema	atic.					
4.	Ranunculus lapponicus			<b>\</b>	OBL	Plot size (radius, or length x width)	_10m					
5.				<b>~</b>	FACW	% Cover of Wetland Bryophytes	20					
6.					FAC	(Where applicable)						
7.					FAC	% Bare Ground	_5					
8.	Chrysosplenium tetrandrum				OBL	Total Cover of Bryophytes	90					
9.	Equisetum palustre			<b>✓</b>	FACW							
10.	Arctagrostis latifolia			✓	FACW	Hydrophytic						
		Total Cover:		of Tot-I C		Vegetation Present? Yes  No C	)					
		50% of Total Cover:	16 20% (	of Total Cover:	6.4	riesciit: ies 🤝 140 C	•					
Rem	arks: 2% viola sp (no inflores	scence). ranunculus coll	ected.									

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SOIL Sampling Point: SW12\_T21\_02

						6: 1:		· · -	10 50012_121_02	
		the depth ne <b>Matrix</b>	eded to docume	nt the indicator or con <b>Red</b>	nfirm the ab lox Featu		ators)			
Depth (inches)	Color (mo		%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-4	COIOI (IIIC	iist)		Color (Illoist)		Туре	LUC	Fibric Organics	- Tolliano	
4-10								Hemic Organics		
				<del></del>						
10-12								Sapric Organics		
12-15	5Y	3/1						Sandy Clay	sand fine to coarse	
¹Type: C=Cor	ncentration. D	=Depletion.	RM=Reduced	Matrix <sup>2</sup> Location	: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix		
Hydric Soil I	ndicators:		j	Indicators for Pro	oblemati	c Hydric So	oils: <sup>3</sup>			
	r Histel (A1)		[	Alaska Color Ch		4		Alaska Gleyed Without Hu	ue 5Y or Redder	
✓ Histic Epip	. ,		[	Alaska Alpine swales (TA5)				Underlying Layer		
Hydrogen	Sulfide (A4)		[	Alaska Redox W	/ith 2.5Y H	lue		Other (Explain in Remarks)		
☐ Thick Dark	Surface (A12	)								
Alaska Gle	eyed (A13)			<ul> <li>One indicator of and an appropriate</li> </ul>				nary indicator of wetland h	ydrology,	
Alaska Red	dox (A14)					·				
Alaska Gle	eyed Pores (A1	5)		<sup>4</sup> Give details of co	lor chang	e in Remark	S			
Restrictive Laye	er (if present):									
Type:								Hydric Soil Present	? Yes • No O	
Depth (inch	nes):									
Remarks:										
	CV									
HYDROLO Wetland Hyd		tora						Canadan Indi		
Primary Indica			1						cators (two or more are required) ned Leaves (B9)	
		is sumeiene		Inundation Vi	cible on A	orial Imager	n (B7)		atterns (B10)	
✓ Surface Water (A1) ✓ High Water Table (A2)				☐ Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8)				_	nizospheres along Living Roots (C3)	
Saturation (A3)				Marl Deposits (B15)					f Reduced Iron (C4)	
Water Marks (B1)				Hydrogen Sulfide Odor (C1)				Salt Deposi	` '	
	Sediment Deposits (B2)				Dry-Season Water Table (C2)				Stressed Plants (D1)	
☐ Drift Depo	, ,			Other (Explain in Remarks)					c Position (D2)	
	or Crust (B4)					,		Shallow Aq		
☐ Iron Depo									raphic Relief (D4)	
	oil Cracks (B6)							<b>✓</b> FAC-neutra		
Field Observa	ations:									
Surface Water	r Present?	Yes 💿	No $\bigcirc$	Depth (inches	s): 1					
Water Table P	Present?	Yes 💿	No $\bigcirc$	Depth (inches	s): 10		Wetlar	nd Hydrology Presen	t? Yes • No O	
Saturation Pre	esent?	V (a)	No O		,					
(includes capi	llary fringe)	res 🍛	NO C	Depth (inches	3): 3					
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:										
Remarks:										
surface water a	adjacent to and	d around pit								

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