## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 07-Aug-13						
Applica	int/Owner: Alaska Energy Authority				Sampling Point: SW13_T196_02						
	gator(s): SLI, EAC	ı	Landform (hillside, terrace, hummocks etc.): Hillside								
	elief (concave, convex, none): hummocky		Slope:	% / 3.7							
	ion: Interior Alaska Mountains		· —		100						
		Lat <u>(</u>									
	p Unit Name:		,	No ○	NWI classification: PSS1B						
Are V	egetation  , Soil  , or Hydrology	significantly naturally pro wing sam	disturbed?	Are "N (If nee	(If no, explain in Remarks.)  Iormal Circumstances" present? Yes No No eded, explain any answers in Remarks.)  Iormal Circumstances" present? Yes No No Control of the cont						
Hydrophytic Vegetation Present? Yes No Signature No Signa											
	Hydric Soil Present? Yes ● No C	)	within a Wetland? Yes   No								
	Wetland Hydrology Present? Yes  No Carks: fnwws w slob understory. understory shifts to slo		ļ	uiiii a vv	etianur 165 e 160 e						
VEGI	ETATION -Use scientific names of plants. L	ist all spe	cies in the	•	Dominance Test worksheet:						
Tre	e Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)						
1.	Picea glauca	10	<b>✓</b>	FACU	Total Number of Dominant						
2.		0			Species Across All Strata: 5 (B)						
3.		0			Percent of dominant Species						
4.					That Are OBL, FACW, or FAC: 80.0% (A/B)						
5.					Prevalence Index worksheet:						
	Total Cover				Total % Cover of: Multiply by:						
Sap	ling/Shrub Stratum 50% of Total Cover:	5 20%	of Total Cover		OBL Species						
1.	Betula glandulosa	25	<b>✓</b>	FAC	FACW Species <u>15.1</u> x 2 = <u>30.20</u>						
2.	Betula nana	10		FAC	FAC Species <u>120.1</u> x 3 = <u>360.3</u>						
3.	Salix pulchra	5		FACW	FACU Species 13 x 4 = 52						
4.	Salix barclayi	5		FAC	UPL Species0 x 5 =0						
5.	Vaccinium uliginosum	25	<b>✓</b>	FAC	Column Totals: <u>148.2</u> (A) <u>442.5</u> (B)						
6.	Empetrum nigrum	20	<b>✓</b>	FAC							
7.	Rhododendron tomentosum	10		FACW	Prevalence Index = B/A =						
8.	Vaccinium vitis-idaea	5		FAC	Hydrophytic Vegetation Indicators:						
9.	Picea glauca	3		FACU	✓ Dominance Test is > 50%						
10.		0			Prevalence Index is ≤3.0						
Her	Total Cover b Stratum 50% of Total Cover:		of Total Cover	: 21.6	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)						
1.	Cornus suecica	0.1		FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)						
2.	Carex bigelowii		<u> </u>	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must						
3.	Rubus chamaemorus			FACW	be present, unless disturbed or problematic.						
4.		-			Plot size (radius, or length x width)						
		•			% Cover of Wetland Bryophytes						
		_			(Where applicable)						
					% Bare Ground 3						
					Total Cover of Bryophytes90						
		0									
10.	Total Cover				Hydrophytic Vegetation						
	i utai Cuvei	·									
	50% of Total Cover:	15.1 20%	of Total Cover	6.04	Present? Yes ● No ○						

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SOIL Sampling Point: SW13\_T196\_02

JOIL								Samping	Point: 3W13_1196_02			
Profile Descripti			eeded to doci	ument the indicator or co			ators)					
Depth (inches)	Matrix			Redox Fe			. 2		Dawl			
(inches)	Color (me		<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	_Loc_ <sup>2</sup>	Texture Fibric Organics	Remarks			
0-5	5YR	2.5/2	100						. ———			
5-9	2.5Y	2.5/1						Hemic Organics				
9-16	10YR	3/2	100					Sapric Organics	5% subrounded cobbles, 15% subrounded			
16-17	10YR	2/2	100					Clay Loam				
	-							-				
					-			-				
¹Type: C=Cor	ncentration. D	=Depletior	RM=Redu	ced Matrix <sup>2</sup> Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix				
Hydric Soil I	ndicators			Indicators for Pr	oblemati	c Hydric Sc	oils: <sup>3</sup>					
✓ Histosol or				Alaska Color Ch		4		Alaska Gleyed Without H	ue 5Y or Redder			
Histic Epip				Alaska Alpine s		-		Underlying Layer	de 31 of Redder			
	Sulfide (A4)			Alaska Redox V				Other (Explain in Remarl	ks)			
	Surface (A12	2)										
Alaska Gle	-	,		<sup>3</sup> One indicator of and an appropriat				nary indicator of wetland h	nydrology,			
Alaska Red				ани ан арргорна	e iaiiuscaļ	be position i	nust be pre	esent				
Alaska Gle	yed Pores (A1	.5)		4 Give details of co	olor chang	e in Remark	S					
Restrictive Laye	er (if present):											
Type: activ								Hydric Soil Present	? Yes • No O			
Depth (inch	•							,				
Remarks:												
Remarks.												
HYDROLO	GY											
Wetland Hydi		ators:						Secondary Indi	cators (two or more are required)			
Primary Indica			it)						ined Leaves (B9)			
☐ Surface W	/ater (A1)			☐ Inundation V	isible on A	erial Image	ry (B7)	☐ Drainage F	Patterns (B10)			
✓ High Wate	er Table (A2)			Sparsely Veg	etated Cor	ncave Surfac	ce (B8)	8) Oxidized Rhizospheres along Living Roots (C3)				
✓ Saturation	n (A3)			☐ Marl Deposits	s (B15)			Presence of Reduced Iron (C4)				
Water Ma	rks (B1)			Hydrogen Su		. ,		Salt Deposits (C5)				
	Deposits (B2)	)		Dry-Season \	Water Tabl	e (C2)		Stunted or Stressed Plants (D1)				
	☐ Drift Deposits (B3) ☐ Other (Explain in Remarks)								Geomorphic Position (D2)			
	or Crust (B4)							✓ Shallow Ac				
☐ Iron Depo									graphic Relief (D4)			
	oil Cracks (B6)	)						FAC-neutra	al Test (D5)			
Field Observa Surface Water		Vac	No ●	Depth (inche	·c/1							
			No O		,		147 - 11		it? Yes • No O			
Water Table P				Depth (inche	s): 11		wetiai	nd Hydrology Presen	it? Yes ● No ○			
Saturation Pre (includes capi		Yes 🤄	No O	Depth (inche	s): 8							
Describe Recor	ded Data (stre	eam gauge	, monitor w	ell, aerial photos, pre	vious inspe	ection) if ava	ailable:					
_												
Remarks:												

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