## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 31-Jul-12						
Applica	ant/Owner: Alaska Energy Authority				-	Sampling Point: SW12_T40_01						
	gator(s): CTS, EKJ			Landform (hills	side, terrac	e, hummocks etc.): Mountainslope						
Local relief (concave, convex, none): convex Slope: % / 13.3 ° Elevation: 996												
	ion : Interior Alaska Mountains		at : (	· 62.716027960		Long.: -147.462695803 Datum: NAD83						
_		_	.at (	32.7 10027 900	· /							
	p Unit Name:			. V	No ○	NWI classification: Upland						
Are V	natic/hydrologic conditions on the site typical for regetation , Soil , or Hydrology regetation , Soil , or Hydrology	signif	icantly	disturbed? oblematic?	Are "N	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.)						
SUMN	MARY OF FINDINGS - Attach site map	showing	sam	pling point	locations	, transects, important features, etc.						
	Hydrophytic Vegetation Present? Yes	No O										
	Hydric Soil Present? Yes	No 💿				pled Area						
	-	No 💿		wi	thin a W	etland? Yes O No 💿						
Rema												
/EGE	TATION - Use scientific names of plan	ts. List a	I spe	cies in the I	plot.							
_			olute	Dominant		Dominance Test worksheet:  Number of Dominant Species						
1.	e Stratum	_%(	Over 0	Species?	Status	That are OBL, FACW, or FAC:						
2.						Total Number of Dominant						
3.			0			Species Across All Strata: (B)						
4.			0			Percent of dominant Species That Are OBL, FACW, or FAC:100.0% (A/B)						
5.			0			Prevalence Index worksheet:						
	Total	Cover:	0			Total % Cover of: Multiply by:						
Sap	ling/Shrub Stratum 50% of Total Cove	r: <u>0</u>	20%	of Total Cover:	0	OBL Species 0 x 1 = 0						
1	Betula nana		60	<b>✓</b>	FAC	FACW Species 30 x 2 = 60						
	Vaccinium uliginosum		40	<b>✓</b>	FAC	FAC Species 125.1 x 3 = 375.3						
3.	Rhododendron tomentosum		30		FACW	FACU Species 3 x 4 = 12						
4.	Empetrum nigrum		15		FAC	UPL Species 0 x 5 = 0						
5.	Vaccinium vitis-idaea		10		FAC	Column Totals: <u>158.1</u> (A) <u>447.3</u> (B)						
6.	Rosa acicularis		1		FACU							
7.			0			Prevalence Index = B/A = 2.829						
8.			0			Hydrophytic Vegetation Indicators:						
						✓ Dominance Test is > 50%						
10.						✓ Prevalence Index is ≤3.0						
	<b>b Stratum</b> 50% of Total Cove		156 20%	of Total Cover		Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)						
	· · · · · · · · · · · · · · · · · · ·				FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.						
				П								
			0			Plot size (radius, or length x width) 10m						
			0									
			0									
			0			Total Cover of Bryophytes						
			0									
10.			0			Hydrophytic						
			2.1	(		Vegetation Proceed: Ves No No						
	50% of Total Cove	r: <u>1.05</u>	20%	от Total Cover:	0.42	Frescrit! IES C NO C						
2. 3. 4. 5. 6. 7. 8. 9.		Cover:	0.1 0 0 0 0 0 0 0 0 0 0 2.1 20%			Plot size (radius, or length x width)  % Cover of Wetland Bryophytes (Where applicable)  % Bare Ground  Total Cover of Bryophytes  Hydrophytic						

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SOIL Sampling Point: SW12\_T40\_01

Profile Description		the depth ne	eeded to docu	ment the indicator or co	nfirm the ab		ators)					
Depth							_Loc_2	Texture	Remarks			
0-4	Color (mo	ist)	<u>%</u> _	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc	Fibric Organics	15% roots			
								Fibric Organics				
4-5									5% roots			
5-7	10YR	5/3	100					Fine Sandy Loam				
7-14	7.5YR	3/3	75					Sandy Loam	fine sand to rounded and sub ang cobbles			
14-20	7.5YR	2.5/2	70					Coarse Sand	coarse sand to rounded and semiangular co			
Type: C=Concentration. D=Depletion. RM=Reduced Matrix    Location: PL=Pore Lining. RC=Root Channel. M=Matrix												
Hydric Soil Ir	ndicators:			Indicators for Pr	oblemati	c Hydric So	oils: <sup>3</sup>					
Histosol or	Histel (A1)			Alaska Color Ch	nange (TA	4 4)		Alaska Gleyed Without H	ue 5Y or Redder			
Histic Epipe	` '			Alaska Alpine s	wales (TA!	Underlying Layer						
Hydrogen :	Sulfide (A4)			Alaska Redox V	Vith 2.5Y H	Hue		Other (Explain in Remark	ss)			
☐ Thick Dark	Surface (A12)	ı										
Alaska Gle	yed (A13)			One indicator of and an appropriat				mary indicator of wetland h	ydrology,			
Alaska Red	lox (A14)					·	•	cocine				
Alaska Gley	yed Pores (A15	5)		<sup>4</sup> Give details of co	olor chang	e in Remark	S					
Restrictive Laye	r (if present):											
Type:								Hydric Soil Present	? Yes ○ No •			
Depth (inch	es):											
HYDROLO	GY											
Wetland Hydr	ology Indica	tors:						Secondary Indi	cators (two or more are required)			
Primary Indicat	tors (any one i	s sufficient	t)					Water Stained Leaves (B9)				
Surface W	ater (A1)			Inundation V	isible on A	erial Image	ry (B7)	☐ Drainage Patterns (B10)				
High Water Table (A2)				Sparsely Veg		ncave Surfac	ce (B8)		hizospheres along Living Roots (C3)			
Saturation	. ,			Marl Deposits	(B15)				f Reduced Iron (C4)			
Water Mar				☐ Hydrogen Su				Salt Depos				
	Deposits (B2)			☐ Dry-Season V		. ,			Stressed Plants (D1)			
☐ Drift Depo	or Crust (B4)			Other (Explai	n in Rema	rks)			ic Position (D2)			
☐ Iron Depo	. ,								juitard (D3) graphic Relief (D4)			
	oil Cracks (B6)							FAC-neutra				
Field Observa									1 (23)			
Surface Water		Yes C	No ●	Depth (inche	s):							
Water Table P	resent?		No •	Depth (inche	•		Wetla	nd Hydrology Presen	t? Yes ○ No •			
				рерит (тиспе	5):		, vi Ccia	na rryarology r resen	t. 165 © 116 ©			
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 hyd	rology indicate	ors										

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