WETLAND DETERMINATION DATA FORM - Alaska Region

t/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Denali Bo	rough Sampling Date: 30-Jul-13								
ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T147_03								
		Landform (hills	side, terrac									
		Slope:	% / 0.5									
,	l at ·	 63_376047969		Long.: -148.943872453 Datum: NAD83								
	Lutii	03.370047909		NWI classification: PEM1F								
		2 You	● No ○									
, , , , , , , , , , , , , , , , , , , ,												
• • • • • • • • • • • • • • • • • • • •												
MARY OF FINDINGS - Attach site map sho	wing sa	mpling point	locations	s, transects, important features, etc.								
Hydrophytic Vegetation Present? Yes No C		_										
Hydric Soil Present? Yes No C				-								
)	wi	thin a W	etland? Yes ● No ○								
ETATION - Use scientific names of plants. Li	ist all sr	pecies in the i	plot.									
				Dominance Test worksheet:								
e Stratum			Status	Number of Dominant Species								
	0			That are OBL, FACW, or FAC: 3 (A)								
	0			Total Number of Dominant Species Across All Strata: 3 (B)								
	0			Percent of dominant Species								
				That Are OBL, FACW, or FAC: 100.0% (A/B)								
	0			Prevalence Index worksheet:								
Total Cover	:	_		Total % Cover of: Multiply by:								
oling/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cover:	0	OBL Species <u>15.1</u> x 1 = <u>15.1</u>								
Empetrum nigrum	1		FAC	FACW Species 6.3 x 2 = 12.6								
Vaccinium uliginosum	5	✓	FAC	FAC Species <u>9.1</u> x 3 = <u>27.30</u>								
Vaccinium vitic idaca	0.1		FAC	FACU Species <u>0</u> x 4 = <u>0</u>								
Rhododendron tomentosum	2		FACW	UPL Species <u>0</u> x 5 = <u>0</u>								
Betula nana	. 3	_	FAC	Column Totals: <u>30.5</u> (A) <u>55.00</u> (B)								
Andromeda polifolia (IAM)	0.1		OBL									
	0	_ 📙		Prevalence Index = B/A = 1.803								
	0	_		Hydrophytic Vegetation Indicators:								
				✓ Dominance Test is > 50%								
		_		✓ Prevalence Index is ≤3.0								
=00/ C= . I O			: 224	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)								
				Problematic Hydrophytic Vegetation ¹ (Explain)								
On the state	- 45	_		Indicators of hydric soil and wetland hydrology must								
				be present, unless disturbed or problematic.								
-												
· ·			FACW	Plot size (radius, or length x width) <u>10m</u>								
Pedicularis labradorica	0.1		FACW	% Cover of Wetland Bryophytes (Where applicable)								
	0			% Bare Ground								
				Total Cover of Bryophytes 60								
				, , ,								
	. 0	_		Hydrophytic								
	19.3	_		Hydrophytic Vegetation Present? Yes No								
	ant/Owner: Alaska Energy Authority igator(s): CTS, AMD relief (concave, convex, none): concave gion: Interior Alaska Mountains ap Unit Name: imatic/hydrologic conditions on the site typical for this tivegetation , Soil , or Hydrology , or Hydrology , or Hydrology , Soil , or Hydrology , or Hydrology , Soil , or Hydrology , or Hydrology , Soil , or Hydrology , No , Hydrology , Yes No , No , No , No , Hydrology Present?	ant/Owner: Alaska Energy Authority igator(s): CTS, AMD relief (concave, convex, none): concave gion: Interior Alaska Mountains ap Unit Name: matic/hydrologic conditions on the site typical for this time of yea, wegetation	ant/Owner: Alaska Energy Authority igator(s): CTS, AMD	anti/Owner: Alaska Energy Authority igator(s): CTS, AMD								

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SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)

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Depth (inches)	Color (moi	et)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-16	Color (IIIo	st)	100	Color (Illoist)	_70	Турс	LUC	Fibric Organcis			
									-		
					-						
¹Type: C=Cor	ncentration. D=	Depletion. F	RM=Reduce	ed Matrix ² Location				nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pro		4	oils:				
✓ Histosol o	. ,			Alaska Color Ch		-		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip	edon (A2)			Alaska Alpine s	•	,		Underlying Layer			
Hydrogen	Sulfide (A4)			☐ Alaska Redox V	Vith 2.5Y F	lue		Other (Explain in Remark	(S)		
	c Surface (A12)			3 One indicator of	hudrophut	ic voqetatio	n one prim	nary indicator of wetland h	vdralogy		
Alaska Gle	eyed (A13)			and an appropriat					ydrology,		
Alaska Red	,					•	•				
Alaska Gle	eyed Pores (A15)		⁴ Give details of co	nor change	e III Kelliark	5				
Restrictive Laye	er (if present):										
Type: Acti	•							Hydric Soil Present	? Yes • No O		
Depth (inch	nes): 23										
Remarks:											
HYDROLO	GY										
Wetland Hyd	rology Indicat	ors:						Secondary India	cators (two or more are required)		
Primary Indica	tors (any one is	sufficient)						Water Staii	ned Leaves (B9)		
✓ Surface W	Vater (A1)			✓ Inundation Vi	isible on A	erial Imager	y (B7)	✓ Drainage P	atterns (B10)		
High Wate	er Table (A2)			✓ Sparsely Vege	etated Cor	cave Surfac	e (B8)	Oxidized R	hizospheres along Living Roots (C3)		
Saturation	n (A3)			☐ Marl Deposits	(B15)			Presence o	f Reduced Iron (C4)		
☐ Water Ma	rks (B1)			Hydrogen Sul	fide Odor	(C1)		Salt Depos	its (C5)		
Sediment	Deposits (B2)			☐ Dry-Season V	Vater Table	e (C2)		Stunted or	Stressed Plants (D1)		
Drift Depo	osits (B3)			Other (Explai	n in Rema	rks)		✓ Geomorphi	ic Position (D2)		
Algal Mat	or Crust (B4)							Shallow Aq	uitard (D3)		
Iron Depo	osits (B5)							Microtopog	raphic Relief (D4)		
☐ Surface S	oil Cracks (B6)							✓ FAC-neutra	l Test (D5)		
Field Observa	ations:										
Surface Water	r Present?	Yes 💿		Depth (inche	s): 3						
Water Table F	Present?	Yes 🔾	No 💿	Depth (inche	s):		Wetlar	nd Hydrology Presen	t? Yes 💿 No 🔾		
Saturation Pre		Yes \bigcirc	No 💿	Depth (inche	c).						
(includes capi	llary fringe)	103 0	110 0	Берит (піспе	5).						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											
ACHIGINS.											

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