## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/	Site: Susitna-Watana Hyd	droelectric Project		Borough/C	City: Der	nali Bor	rough Sampling Date: 06-Aug-13			
Applica	nt/Owner: Alaska Energy	Authority					Sampling Point: SW13_T174_03			
nvestiç	pator(s): WAD, RWM	·		Landforn	n (hillside,	terrace	e, hummocks etc.): Hillside			
Local re	elief (concave, convex, none	): planar		Slope:	Slope: 17.6 % / 10.0 ° Elevation: 1034					
Subreg	ion: Interior Alaska Mounta	ins	Lat.:	- 63.36634	45644		Long.: -148.550197363 Datum: WGS84			
_	p Unit Name:						NWI classification: Upland			
Are Vo		, or Hydrology ☐ ; , or Hydrology ☐ ;  Attach site map show	significan naturally   wing sa	tly disturbe	c?	Are "No	(If no, explain in Remarks.)  primal Circumstances" present? Yes  No  ded, explain any answers in Remarks.)  , transects, important features, etc.			
	Hydrophytic Vegetation Pres Hydric Soil Present? Wetland Hydrology Present? arks: lower hillside graminoi	Yes O No G				-	pled Area etland? Yes ○ No ●			
/EGE	TATION - Use scientific	names of plants. Li	st all sp	ecies in	the plot	i.				
		<u> </u>	Absolut	e Domin	ant Indi	icator	Dominance Test worksheet:			
Tree	Stratum		% Cove			atus	Number of Dominant Species			
1.	<u> </u>		0		]		That are OBL, FACW, or FAC: 3 (A)			
2.			0	_ [			Total Number of Dominant Species Across All Strata: 4 (B)			
3.			0				Percent of dominant Species			
4.			0	_	] _		That Are OBL, FACW, or FAC: 75.0% (A/B)			
5.		Total Cover	. <u>0</u>		_		Prevalence Index worksheet: Total % Cover of: Multiply by:			
Sapl	ing/Shrub Stratum	50% of Total Cover:	0 20	% of Total C	Cover:	0	OBL Species0 x 1 =0			
1.	Vaccinium uliginosum		40	v	<b>/</b> FA	IC .	FACW Species 20 x 2 = 40			
	Vaccinium vitis-idaea		20	_	FA	IC .	FAC Species <u>75</u> x 3 = <u>225</u>			
3.	Salix pulchra		10		FA	CW	FACU Species6 x 4 =24			
4.	Ledum decumbens		_10	_ [	FA	CW_	UPL Species0 x 5 =0			
5.	Betula nana		5		FA	VC	Column Totals: <u>101</u> (A) <u>289</u> (B)			
6.	Spiraea stevenii				FA	ICU_	Prevalence Index = B/A = 2.861			
7.			0	_	╣ —					
_					╣ —		Hydrophytic Vegetation Indicators:			
				-	┪ —		Dominance Test is > 50%			
10.		Total Cover	0		_		✓ Prevalence Index is ≤3.0			
Heri	Stratum	50% of Total Cover:		0% of Total	_	17.6	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
							Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
	Bistorta plumosa			_ [	FA FA	ACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
			_				Plot size (radius, or length x width) 10m			
				_			Plot size (radius, or length x width)			
6.			0	-	╣ —		(Where applicable)			
					_		% Bare Ground			
				-	╣ —		Total Cover of Bryophytes5			
			0	-		—				
10		Total Cover			_		Hydrophytic Vegetation			
.5.		50% of Total Cover:			Cover:	2.6	Present? Yes • No O			

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SOIL Sampling Point: SW13\_T174\_03

Depth (inches)  0-5  5-12	Color (mois	10		moist)	_%_	Type <sup>1</sup>	<u>Loc</u> 2	Texture	Remarks			
	10YR		0									
	10YR							Fibric Organics				
		3/4						Loamy Sand	with 90 percent angular coarse fragments			
									•			
					-							
Type: C=Conce	ntration D=C	enletion RM=	Reduced Matri	2 Location	o: PI =Pore	Lining RC	=Root Chai	nnel M=Matrix	-			
		еріецоп. км-				_		illei. M=Mauix				
Hydric Soil Indi				Indicators for Problematic Hydric Soils:								
Histosol or Histel (A1) Histic Epipedon (A2)				☐ Alaska Color Change (TA4) ☐ Alaska Gleyed Without Hue 5Y or Redder ☐ Alaska Alpine swales (TA5) ☐ Underlying Layer								
_				ska Redox V	•	•		Other (Explain in Remark	s)			
<ul><li>Hydrogen Sul</li><li>Thick Dark Su</li></ul>	. ,		Ald	Ska readx v	VIGIT 2.31 T	iuc		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-,			
Alaska Gleyed	, ,							ary indicator of wetland h	ydrology,			
Alaska Redox	-		and a	n appropriat	e landscap	e position r	nust be pre	sent				
Alaska Gleyed	. ,		4 Give	details of co	olor change	e in Remark	S					
Restrictive Layer (	if present):											
Type:								Hydric Soil Present	? Yes○ No •			
Depth (inches)	):											
IYDROLOG'												
Wetland Hydrol									cators (two or more are required)			
Primary Indicator		sufficient)					(07)		ned Leaves (B9)			
☐ Surface Water 1	. ,			nundation V		_			atterns (B10) nizospheres along Living Roots (C3)			
Saturation (A	` ,			parsely Veg Iarl Deposits		cave Surrac	ce (B8)		f Reduced Iron (C4)			
Water Marks	•			lydrogen Su	` '	(C1)		Salt Depos	• •			
Sediment De				)ry-Season \					Stressed Plants (D1)			
☐ Drift Deposits	,			Other (Explai					c Position (D2)			
Algal Mat or	. ,			(		,			uitard (D3)			
☐ Iron Deposits	s (B5)							Microtopog	raphic Relief (D4)			
Surface Soil	Cracks (B6)							FAC-neutra	l Test (D5)			
Field Observation	ons:	_										
Surface Water Pr	resent?	Yes O N	o 💿	Depth (inche	s):							
Water Table Pres	sent?	Yes O N	o 💿 o	Depth (inche	s):		Wetlar	d Hydrology Presen	t? Yes ○ No •			
Saturation Preser		Yes O N		epth (inche	•							
includes capillar) Describe Recorded		n gauge, mon		. `		ction) if ava	ailable:					
yesenbe recorded	a Data (Stream	ii gaage, iiioii	itor wen, deriar	priotos, pre	rious irispe	cuony ii ave	and Dici					
Remarks:												
Remarks: no hydrology indic	cators observe	ed										

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