## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project		Borough/0	City:	Denali Bo	rough Sampling Date: 06-Aug-13			
Applic	ant/Owner: Alaska Energy Authority			-		Sampling Point: SW13_T174_07			
	gator(s): WAD, RWM		Landforr	m (hills	ide, terrac	e, hummocks etc.): Gulch or Gully			
	relief (concave, convex, none): concave		Slope:			euton			
	gion : Interior Alaska Mountains	l at	63.3659			Long.: -148.560902119 Datum: WGS84			
		Lat	03.3039	03263					
	ap Unit Name:			(i	N	NWI classification: PSS1/EM1E			
	matic/hydrologic conditions on the site typical for this til					(If no, explain in Remarks.)			
			tly disturbe			official official octor present:			
Are \	/egetation ☐ , Soil ☐ , or Hydrology ☐ r	naturally p	problemati	IC'?	(If nee	ded, explain any answers in Remarks.)			
SUM	MARY OF FINDINGS - Attach site map show	wing sa	mpling p	ooint I	ocations	s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes   No C	)							
	Hydric Soil Present? Yes ● No ○	)				npled Area			
	Wetland Hydrology Present? Yes ● No □	)		wit	hin a W	etland? Yes   No			
Don									
Ren	narks: surface water connection along gully to the lake	e is discor	ntinuous.						
/EG	ETATION - Use scientific names of plants. Li	st all sp	ecies in	the p	lot.				
	<u>'</u>					Dominance Test worksheet:			
Tre	e Stratum	Absolute % Cove			Indicator Status	Number of Dominant Species			
1.		0				That are OBL, FACW, or FAC: 4 (A)			
2.		0	_ [			Total Number of Dominant Species Across All Strata: 4 (B)			
3.		_				Percent of dominant Species			
4.		0	_ [			That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.		0				Prevalence Index worksheet:			
	Total Cover:		_			Total % Cover of: Multiply by:			
Sa	oling/Shrub Stratum 50% of Total Cover:	0 20	% of Total (	Cover:	0	OBL Species 2 x 1 = 2			
1	Salix reticulata	35		/	FAC	FACW Species 38 x 2 = 76			
	Saliv pulchra	- 25		<u> </u>	FACW	FAC Species 63 x 3 = 189			
3.	Sailx pulcilla		_			FACU Species 0 x 4 = 0			
4.		^	_ [			UPL Species <u>1</u> x 5 = <u>5</u>			
5.						Column Totals:104(A)272(B)			
6.									
7.		0				Prevalence Index = B/A = 2.615			
8.		0				Hydrophytic Vegetation Indicators:			
9.		0	_ [			✓ Dominance Test is > 50%			
10.		0	_			✓ Prevalence Index is ≤3.0			
	Total Cover:			_		☐ Morphological Adaptations <sup>1</sup> (Provide supporting data in			
He	rb Stratum 50% of Total Cover:		of Total %		12	Remarks or on a separate sheet)			
1.	Rumex arcticus				FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
2.	Arctagrostis latifolia			<b>∠</b>   ¬	FACW	Indicators of hydric soil and wetland hydrology must			
3.	Chamerion latifolium	5	- <u> </u>		FAC	be present, unless disturbed or problematic.			
4.	Festuca altaica	2	-	_	FAC	Plot size (radius, or length x width) 10m			
5.	Carex mombranacea	3	-	_	FACW	% Cover of Wetland Bryophytes			
6.	Carex membranacea  Friendorum angustifolium	3 7		_	OBL	(Where applicable)			
7.	Eriophorum angustifolium  Equisetum arvense	1		_	FAC	% Bare Ground			
	Equisetum arvense	1	-	_	UPL	Total Cover of Bryophytes5			
8.	Antennaria monocenhala								
8. 9.	Antennaria monocephala		Γ			Hardwards 42 -			
8.		0	_			Hydrophytic Vegetation			
8. 9.	Total Cover:	0 44	_	 Cover:	8.8	Hydrophytic Vegetation Present? Yes  No			

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SOIL Sampling Point: SW13\_T174\_07

Depth (inches)	Matrix		ent the indicator or co	dox Feature	ators)				
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
								-	
				·					
	-tti D. Dawleti		- Mahii. 21	DI Dave	Lining DC	Doot Char	and M. Mahiir	-	
	ntration. D=Depletion				_		ппеі. М=Матлх		
lydric Soil Indi ¬			Indicators for P						
Histosol or Histel (A1)			Alaska Color C						
Histic Epipedon (A2)			☐ Alaska Alpine ☐ Alaska Redox			<b>~</b>	Other (Explain in Remark	(c)	
☐ Hydrogen Sul ☐ Thirt Book 6	` ,		Alaska Redux	Wiui 2.51 Hu	le	•	Other (Explain in Remain	<b>G</b> )	
☐ Thick Dark Su	` ,		<sup>3</sup> One indicator o	f hydrophytic	vegetatio	n, one prim	nary indicator of wetland h	nydrology,	
<ul><li>✓ Alaska Gleyed</li><li>✓ Alaska Redox</li></ul>			and an appropria	te landscape	position n	nust be pre	esent		
Alaska Redox Alaska Gleyed	` '		4 Give details of o	color change	in Remark	s			
	. ,								
estrictive Layer (	if present):						Under Call Burner	? Yes ● No ○	
Type: Depth (inches)	۸.						Hydric Soil Present	? Yes ♥ No ∪	
emarks:	,								
YDROLOG	Y								
etland Hydrolo	ogy Indicators:						_Secondary Indi	cators (two or more are required)	
	s (any one is sufficie	ent)						ned Leaves (B9)	
✓ Surface Wate	` ,			/isible on Aer	-	, , ,	✓ Drainage F		
✓ High Water T				getated Conc	ave Surfac	ce (B8)		hizospheres along Living Roots (C3)	
✓ Saturation (A	•		Marl Deposi	` '				of Reduced Iron (C4)	
Water Marks			Hydrogen S				Salt Depos		
<ul><li>Sediment De</li><li>Drift Deposits</li></ul>				Water Table in in Remark				Stressed Plants (D1) ic Position (D2)	
Algal Mat or	. ,		☐ Other (Expla	ıın ın kemark	.S)			quitard (D3)	
Iron Deposits								graphic Relief (D4)	
Surface Soil (	` '						✓ FAC-neutra		
ield Observatio	. ,								
		● No ○	Depth (inch	es): 1					
		No ○	Depth (inch	,		Wetlan	nd Hydrology Presen	it? Yes 💿 No 🔾	
Surface Water Pr		• No O		,			,	100 - 110 -	
Surface Water Pr Water Table Pres		• INO U	Depth (inch	es): 0					
Surface Water Pr	y fringe)								
Surface Water Pr Water Table Pres Saturation Preser (includes capillar	y fringe)  I Data (stream gaug	je, monitor well	, aerial photos, pre	evious inspect	tion) if ava	ilable:			
Surface Water Pr Water Table Pres Saturation Preser (includes capillar	y minge)	ge, monitor well	, aerial photos, pre	evious inspect	tion) if ava	ilable:			
Surface Water Pr Water Table Pres Saturation Preser (includes capillar escribe Recordec emarks:	y minge)		, aerial photos, pre	evious inspect	tion) if ava	ilable:			

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