WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: D	enali Borough	Sampling Date:	08-Aug-13
Applicant/Owner: Alaska Energy Authority		Samplir	ng Point: SW	13_T203_02
Investigator(s): CTS, AMD	Landform (hillsid	e, terrace, hummocks etc.):	Lowland	
Local relief (concave, convex, none):concave	Slope: %	673 [°] Elevation:		
Subregion : Interior Alaska Mountains Lat.	63.4002584219	Long.: -148.596075	653 Da	tum: NAD83
Soil Map Unit Name:		NWI classi	fication: Upland	
	ar? Yes Yes	No O (If no, explain in Are "Normal Circumstances" (If needed, explain any answ	present? Yes	• No ()

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🖲	No O	Is the Sampled Area	
Hydric Soil Present? Wetland Hydrology Present?	Yes ○ Yes ●	No 💿 No 〇	within a Wetland?	Yes \bigcirc No \textcircled{ullet}
Remarks:				

VEGETATION - Use scientific names of plants. List all species in the plot.

			۵hc	olute	Dominant	Indicator	Dominance Test worksheet:
Tre	e Stratum			over	Species?	Status	Number of Dominant Species
1.				0			That are OBL, FACW, or FAC:3 (A)
2.				0			Total Number of Dominant Species Across All Strata: 3 (B)
3.				0			
4.				0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
5.				0			
		Total Cover		0			Prevalence Index worksheet: Total % Cover of: Multiply by:
San	ling/Shrub Stratum 50%		0		of Total Cover:	0	
Jap			0	20/03			OBL Species $0 \times 1 = 0$
1.	Dasiphora fruticosa			10		FAC	FACW Species $5 \times 2 = 10$
2.	Picea glauca			1		FACU	FAC Species _55.2 x 3 = _165.6
3.	Salix fuscescens			5	\checkmark	FACW	FACU Species <u>18</u> x 4 = <u>72</u>
4.	Vaccinium uliginosum			2		FAC	UPL Species x 5 =
5.	Betula nana			1		FAC	Column Totals: <u>78.2</u> (A) <u>247.6</u> (B)
6.	Vaccinium vitis-idaea			0.1		FAC	
7.				0			Prevalence Index = B/A = <u>3.166</u>
				0			Hydrophytic Vegetation Indicators:
				0			✓ Dominance Test is > 50%
				0			Prevalence Index is ≤ 3.0
		Total Cover		9.1			Morphological Adaptations ¹ (Provide supporting data in
Her	b Stratum 50%	6 of Total Cover:	9.55	20%	of Total Cover:	3.82	Remarks or on a separate sheet)
1.	Festuca altaica			35	\checkmark	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Chamaenerion angustifolium			3		FACU	¹ Indicators of hydric soil and wetland hydrology must
3.	Aconitum delphiniifolium			5		FAC	be present, unless disturbed or problematic.
4.	Mortoneia papieulata			2		FACU	
5.	Bubus protious (IAM)			1		FACU	Plot size (radius, or length x width) <u>10m</u>
6.	Polemonium acutiflorum			1		FAC	% Cover of Wetland Bryophytes (Where applicable)
7.	Calidada multiradiata			10		FACU	% Bare Ground
8.	A			0.1		FAC	Total Cover of Bryophytes 20
9.	Triontalis ouronada			1		FACU	
10.	Calamagrostis canadensis			1		FAC	Hydrophytic
		Total Cover	: 5	59.1			Vegetation
	50%	of Total Cover:			of Total Cover:	11.82	Present? Yes \bullet No \bigcirc
Dom	arks: Lichan - 20						

Remarks: Lichen = 20

Depth –	n: (Describe to the depth needed to doo Matrix				dox Featu		at015)		
(inches)	Color (mo	oist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-2			100					Organic hemic	
2-5	10YR	2/1	100					Silt Loam	
5-20	2.5Y	3/3	100		-			Silt Loam	
¹ Type: C=Conce	entration. D	=Depletior	n. RM=Redu	ced Matrix ² Locatio	n: PL=Por	e Lining. RC	=Root Cha	annel. M=Matrix	
Hydric Soil Ind	icators:			Indicators for P	roblemati	c Hydric So	oils: ³		
Histosol or H				Alaska Color C		4	Γ	Alaska Gleyed Without H	ue 5Y or Redder
Histic Epiped	. ,			Alaska Alpine				Underlying Layer	
Hydrogen Su				Alaska Redox	-			Other (Explain in Remark	s)
Thick Dark S)							
Alaska Gleye	•	,						nary indicator of wetland h	ydrology,
Alaska Redox				and an appropria	te landscap	be position r	nust be pro	esent	
🗌 Alaska Gleye		5)		⁴ Give details of c	olor chang	e in Remark	S		
Restrictive Layer	(if present):								
Type:	х г <i>-</i> у							Hydric Soil Present	? Yes 🔿 No 🖲
Depth (inches	5):								
Remarks:									
HYDROLOG	Y								
Wetland Hydrol	ogy Indica	ators:						Secondary India	cators (two or more are required)
Primary Indicator	rs (any one	is sufficier	nt)					Water Stain	ned Leaves (B9)
Surface Wat	. ,			Inundation \	/isible on A	erial Imager	ту (В7)	🔄 Drainage P	atterns (B10)
High Water				Sparsely Veg	getated Cor	ncave Surfac	e (B8)	_	hizospheres along Living Roots (C3)
Saturation (,			Marl Deposit	· · ·				f Reduced Iron (C4)
Water Marks				Hydrogen Su		• •		Salt Depos	
Sediment De				Dry-Season		• •			Stressed Plants (D1)
Drift Deposit				Other (Expla	iin in Rema	rks)		Geomorphi	
Algal Mat or								Shallow Aq	
Iron Deposit	. ,							FAC-neutra	raphic Relief (D4)
Surface Soil								IV FAC-neutra	Tlest (DS)
Field Observation		Vec) No 🖲	Dopth (inch					
Surface Water P				Depth (inch	es):				
Water Table Pre) No 🖲	Depth (inch	es):		Wetla	nd Hydrology Presen	t? Yes 🖲 No 🔾
Saturation Prese (includes capilla		Yes) No 🖲	Depth (inch	es):				
Describe Recorde	d Data (stre	eam gauge	e, monitor we	ell, aerial photos, pre	vious inspe	ection) if ava	ilable:		
Remarks:									