## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Denali Borough	Sampling Date:	02-Aug-13
Applicant/Owner: Alaska Energy Authority		Sampli	ng Point:	W13_T149_01
Investigator(s): SLI, EAC	Landform (hills	side, terrace, hummocks etc.):	Valley bottom	
Local relief (concave, convex, none): flat	Slope: 0.0	% / 0.0 ° Elevation: 666	5	
Subregion : Interior Alaska Mountains Lat.:	63.384766221	Long.: -148.491259	217 C	Datum: WGS84
Soil Map Unit Name:		NWI classi	fication: PSS1E	3
	ar? Yes <sup>(</sup> itly disturbed? problematic?	<ul> <li>No (If no, explain in Are "Normal Circumstances" (If needed, explain any answ</li> </ul>	present? Yes	
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point	locations, transects, impor	tant features,	etc.

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Remarks: fnwws. Sandy soils (fluvaquents) in level terrain. Denali Hwy seperates community from Nenana River, but sediment deposits indicate community still floods. Flooding here may be snowmelt, rather than riverine, source? Believe Hwy is enough of a barrier that this is not a riverine wetland

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

		Abso	luto	Dominant	Indicator	Dominance Test worksheet:
Tre	e Stratum	<u>% Co</u>		Species?	Status	Number of Dominant Species
1.	Picea glauca		15	$\checkmark$	FACU	That are OBL, FACW, or FAC:(A)
2.			0			Total Number of Dominant Species Across All Strata: 5 (B)
3.			0			Percent of dominant Species
4.			0			That Are OBL, FACW, or FAC:(A/B)
5.			0			Prevalence Index worksheet:
	Total Cover	· _1	5			Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	7.5	20% c	of Total Cover:	3	OBL Species $0 \times 1 = 0$
1.	Salix pulchra		30	$\checkmark$	FACW	FACW Species <u>36</u> x 2 = <u>72</u>
2.	Vaccinium uliginosum		60	$\checkmark$	FAC	FAC Species <u>115</u> x 3 = <u>345</u>
3.	Rosa acicularis		1		FACU	FACU Species <u>16.2</u> x 4 = <u>64.80</u>
4.	Vaccinium vitis-idaea		3		FAC	UPL Species x 5 =
5.	Betula glandulosa		20		FAC	Column Totals: 167.2 (A) 481.8 (B)
6.	Spiraea stevenii		0.1		FACU	
7.	Linnaea borealis		0.1		FACU	Prevalence Index = B/A =2.882_
8.	Ledum groenlandicum		1		FAC	Hydrophytic Vegetation Indicators:
9.	Rubus arcticus ssp. acaulis		1		FAC	✓ Dominance Test is > 50%
10.	Salix barclayi		10		FAC	✓ Prevalence Index is $\leq$ 3.0
	Total Cover	: _1	26			Morphological Adaptations <sup>1</sup> (Provide supporting data in
Her	b Stratum 50% of Total Cover:	63.1	20%	of Total Cover:	25.24	Remarks or on a separate sheet)
1.	Arctagrostis latifolia		5		FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2.	Cornus suecica		10	$\checkmark$	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3.	Equisetum arvense		10	$\checkmark$	FAC	be present, unless disturbed or problematic.
4.	Rubus chamaemorus		1		FACW	Plot size (radius, or length x width) <u>10m</u>
5.	Mertensia paniculata		0.1		FACU	% Cover of Wetland Bryophytes
6.			0			(Where applicable)
7.			0			% Bare Ground
8.			0			Total Cover of Bryophytes
9.			0			
10.			0			Hydrophytic
	Total Cover		5.1			Vegetation
	50% of Total Cover:	13.05	20% c	of Total Cover:	5.22	Present? Yes  No
Rem	arks: 5% lichen cover trace rumex 5% collected w	illow				

lichen cover. trace rumex. 5% collected willow.

## SOIL

Depth		Matrix			Red	ox Featu	res		_	
(inches)	Color (m	noist)	%	Color (m	oist)	%	Type <sup>1</sup>	<u>Loc</u> <sup>2</sup>	Texture	Remarks
0-3	5YR	2.5/1	100						fibric organics	-
3-4	7.5YR	2.5/1	50	2.5YR	3/4	50		PL	Very Fine Sandy Loam	_
4-9	10BG	4/1	40	2.5YR	4/8	15	С	PL	Silty Clay	40% pockets fresh sand, 10YR5/4. ox rh
+mottle				5YR	4/1	5	С	PL		
9-20	5PB	5/1	70	2.5YR	5/6	30	C	PL	Very Fine Loamy Sand	
Type: C=Con	ncentration. D	)=Depletion	. RM=Redu	uced Matrix	<sup>2</sup> Location	: PL=Pore	e Lining. RC	=Root Cha	annel. M=Matrix	
ydric Soil Ir	ndicators:			Indicat	ors for Pro	oblematio	Hydric So	oils: <sup>3</sup>		
Histic Epipe Hydrogen S Thick Dark Alaska Gley	Sulfide (A4) Surface (A1 yed (A13)	2)		Alasi Alasi Alasi Alasi Alasi		vales (TAS /ith 2.5Y F hydrophyt	5) lue	n, one prir	<ul> <li>Alaska Gleyed Without H Underlying Layer</li> <li>Other (Explain in Remar</li> <li>mary indicator of wetland lesent</li> </ul>	ks)
Alaska Red	lox (A14) yed Pores (A	15)		<sup>4</sup> Give o	letails of co	lor change	e in Remark	S		
estrictive Laye Type: Depth (inch		):							Hydric Soil Present	? Yes 🖲 No 🔾
Type: Depth (inch		):							Hydric Soil Present	? Yes • No O
Type: Depth (inch emarks: YDROLO	nes):								Hydric Soil Present	? Yes • No O
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Remarks:

see main remarks on sediment deposits.