## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampling Date: 30-Jul-12
Applicant/Owner: Alaska Energy Authority		Sampling Point: SW12_T05_06
Investigator(s): CTS, EKJ	Landform (hills	side, terrace, hummocks etc.): Flat
Local relief (concave, convex, none): flat	Slope:	% / 6.1 ° Elevation: 518
Subregion : Interior Alaska Mountains Lat.:	62.780228038	1 Long.: -147.903055749 Datum: NAD83
Soil Map Unit Name:		NWI classification: PSS1C
	ar? Yes <sup>(</sup> itly disturbed? problematic?	<ul> <li>No (If no, explain in Remarks.)</li> <li>Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.)</li> </ul>
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point	locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes () Yes () Yes ()	No () No () No ()	Is the Sampled Area within a Wetland?	Yes 🖲 No 🔾	
Remarks:					

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

		Abso	duto	Dominant	Indicator	Dominance Test worksheet:
Tre	e Stratum	_% C		Species?	Status	Number of Dominant Species
1.			0			That are OBL, FACW, or FAC: <u>3</u> (A)
2.			0			Total Number of Dominant Species Across All Strata: 3 (B)
3.			0			Percent of dominant Species
4.			0			That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
5.		-	0			Prevalence Index worksheet:
	Total Cover	_	0			Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	0	20% (	of Total Cover:	0	OBL Species $15 \times 1 = 15$
4	Salix barclayi		20	$\checkmark$	FAC	FACW Species $0.4 \times 2 = 0.800$
ı. 2.	Desinhere frutionen	-	15		FAC	FAC Species x 3 =14.9
2. 3.	Musice colo		15		OBL	FACU Species 7.4 x 4 = 29.6
۵. ۵	Detula neo electrone		5		FACU	UPL Species $0 \times 5 = 0$
 5.	Potulo glandulogo		2		FAC	
6			1		FAC	Column Totals: <u>61.1</u> (A) <u>160.3</u> (B)
0. 7	Dhadadandran araanlandiaum		0.1		FAC	Prevalence Index = B/A = 2.624
7. 8			0.1		FACU	Hydrophytic Vegetation Indicators:
9.		-	0.1		TACO	$\checkmark$ Dominance Test is > 50%
10.		-	0		FACU	Prevalence Index is $\leq 3.0$
10.	Total Cover:	- 5	8.2		17100	
Her	b Stratum 50% of Total Cover:			of Total Cover:	11.64	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
1	Hedysarum alpinum		2		FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2.	Arctagrostis latifolia		0.1		FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3.	Eurybia sibirica	-	0.1		FAC	be present, unless disturbed or problematic.
4.	Galium boreale	-	0.1		FACU	
5.	Artemisia tilesii	-	0.1		FACU	Plot size (radius, or length x width) <u>10m</u>
6.	Equisetum pratense	-	0.1		FACW	% Cover of Wetland Bryophytes (Where applicable)
7.	Mertensia paniculata		0.1		FACU	% Bare Ground
8.	Valeriana capitata		0.1		FAC	Total Cover of Bryophytes
9.	Sanguisorba canadensis		0.1		FACW	
10.	Parnassia palustris		0.1		FACW	Hydrophytic
	Total Cover:		2.9			Vegetation
	50% of Total Cover:	1.45	20% (	of Total Cover:	0.58	Present? Yes  No
_						

Remarks: total herb cover <5%, thus no herbs considered dominant.

Depth —	. (Describe t	to the depth ne <b>Matrix</b>				lox Featu		(1013)	_	
(inches)	Color (m	noist)	%	Color (m	oist)	%	Type <sup>1</sup>	<b>Loc</b> <sup>2</sup>	Texture	Remarks
0-2									Fibric Organics	w mineral sand
2-3	2.5Y	5/1	50	10YR	5/8	50	С	PL	Loamy Sand	
3-4		·			1-				Fibric Organics	w mineral sand
4-14	5Y	4/1	30	10YR	4/6	70	C	PL	Loamy Sand	depletion along roots
		·								
			,						<u> </u>	
			,							
<sup>1</sup> Type: C=Conce	entration. D	D=Depletion	. RM=Redu	ced Matrix	<sup>2</sup> Location	: PL=Por	e Lining. R	C=Root Cha	annel. M=Matrix	
Hydric Soil Indi	icators:			Indicate	ors for Pro	oblemati	c Hydric S	oils: <sup>3</sup>		
Histosol or Hi	listel (A1)			Alask	a Color Ch	ange (TA	4 1)		] Alaska Gleyed Without H	lue 5Y or Redder
Histic Epiped	lon (A2)			Alask	a Alpine s	wales (TAS	5)	_	Underlying Layer	
Hydrogen Su	ılfide (A4)			Alask	a Redox W	/ith 2.5Y H	lue		Other (Explain in Remar	ks)
Thick Dark Su	urface (A1	2)		3 One ir	dicator of	budrophut	ic voqotati	n ono priv	mary indicator of wetland	hydrology
Alaska Gleyed	d (A13)						be position			nyurology,
🖌 Alaska Redox	. ,			4 Cive d	etails of co	lor chang	e in Remar			
Alaska Gleyed	d Pores (A	15)		Give u				~S		
Restrictive Layer (	(if present)	):								
Type:									Hydric Soil Present	t? Yes 🖲 No 🔿
Type: Depth (inches	5):								Hydric Soil Present	t? Yes 🖲 No 🔾
Depth (inches	5):								Hydric Soil Present	t? Yes ● No ○
Depth (inches) Remarks:		ed rhizosphe	res around	living roots					Hydric Soil Present	t? Yes ● No ○
		ed rhizosphe	res around	living roots					Hydric Soil Present	t? Yes ● No ○
Depth (inches) Remarks:		ed rhizosphe	res around	living roots					Hydric Soil Present	t? Yes • No O
Depth (inches) Remarks:		ed rhizosphe	res around	living roots					Hydric Soil Present	t? Yes ● No ○
Depth (inches Remarks: 14in: including 2	2% oxidize	ed rhizosphe	res around	living roots					Hydric Soil Present	t? Yes ● No ○
Depth (inches temarks: -14in: including 2	2% oxidize		res around	living roots						t? Yes ● No ○
Depth (inches) temarks: -14in: including 2 IYDROLOG Wetland Hydrol	2% oxidize Y logy Indic	cators:		living roots					Secondary Ind	
Depth (inches) temarks: -14in: including 2 IYDROLOG Wetland Hydrol	2% oxidize Y logy India	cators:				sible on A	erial Image	ery (B7)		icators (two or more are required)
Depth (inches) Remarks: -14in: including 2 IVDROLOG Wetland Hydrol Primary Indicator	2% oxidize Y logy India rs (any one rer (A1)	cators: e is sufficien		Inc	indation Vi		erial Image	, , ,		icators (two or more are required) ined Leaves (B9)
Depth (inches) Remarks: -14in: including 2 IYDROLOG Vetland Hydrol Primary Indicator Surface Wate	2% oxidize Y logy India rs (any one rer (A1) Table (A2)	cators: e is sufficien		Int Sp	indation Vi	etated Cor	-	, , ,	Secondary Ind	icators (two or more are required) ined Leaves (B9) Patterns (B10)
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