WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: Matanuska-Susitna Borough Sampling Date: 27-Jun-12
Applicant/Owner: Alaska Energy Authority	Sampling Point: SW12_T22_09
Investigator(s): JGK	Landform (hillside, terrace, hummocks etc.): Footslope
Local relief (concave, convex, none): hummocky	Slope: % / 10.0 ° Elevation: 569
Subregion : Interior Alaska Mountains Lat.:	62.756404673 Long.: -147.720299101 Datum: NAD83
Soil Map Unit Name:	NWI classification: Upland
	ar? Yes No (If no, explain in Remarks.) tly disturbed? Are "Normal Circumstances" present? Yes No problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area

Hydric Soil Present? Wetland Hydrology Present?	$\frac{Yes}{Yes}$	No 🖲 No 🖲	Is the Sampled Area within a Wetland? Yes \bigcirc No \odot
Remarks:			

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

1			۸he	bsolute Dominant I		Indicator	Dominance Test worksheet:
			Cover	Species?	Status	Number of Dominant Species	
1.	Picea mariana		_	25	\checkmark	FACW	That are OBL, FACW, or FAC: <u>7</u> (A)
2.	Picea glauca			5		FACU	Total Number of Dominant Species Across All Strata: 7 (B)
3.			_	0			Percent of dominant Species
4.			_	0			That Are OBL, FACW, or FAC: (A/B)
5.			_	0			Prevalence Index worksheet:
		Total Cove	r: _	30			Total % Cover of: Multiply by:
Sap	bling/Shrub Stratum 50% of the stratum stratus stratum strat	of Total Cover:	15	20%	of Total Cover:	6	OBL Species x 1 =
1.	Vaccinium uliginosum			10	\checkmark	FAC	FACW Species <u>35</u> x 2 = <u>70</u>
2.	Manadali wa ultin dala na			15	\checkmark	FAC	FAC Species x 3 =270
3.	Alpue viridie			10	\checkmark	FAC	FACU Species <u>7</u> x 4 = <u>28</u>
4.	Beag agioularia			2		FACU	UPL Species x 5 =
5.	Rhododendron groenlandicum			15	\checkmark	FAC	Column Totals: <u>132</u> (A) <u>368</u> (B)
6.	Picea mariana			10	\checkmark	FACW	
7.			_	0			Prevalence Index = B/A = <u>2.788</u>
				0			Hydrophytic Vegetation Indicators:
				0			✓ Dominance Test is > 50%
				0			✓ Prevalence Index is ≤ 3.0
Total Cover:							Morphological Adaptations ¹ (Provide supporting data in
Her	Herb Stratum 50% of Total Cover: 31					12.4	Remarks or on a separate sheet)
1.	Equisetum sylvaticum		_	40		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	2			0			¹ Indicators of hydric soil and wetland hydrology must
				0			be present, unless disturbed or problematic.
4.			_	0			Plot size (radius, or length x width)
				0			% Cover of Wetland Bryophytes _5
6.			_	0			(Where applicable)
7.			_	0			% Bare Ground
8.			_	0			Total Cover of Bryophytes
				0			
			_	0			Hydrophytic
Total Cover:4							Vegetation
	50% d	of Total Cover:	20	20%	of Total Cover:	8	Present? Yes \bigcirc No \bigcirc
Ren	narks: tr rubcha salix (2 spp collecte	ed)					

SOI	L

		he depth neo latrix	eded to doci	ument the indicator or con Red	firm the ab		ators)			
Depth (inches)	Color (moi		%	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks	
0-2		51)	80			Туре	LUC	Fibric Organics	20% roots	
2-7		3/2	100					Silt Loam		
7-9			100					Sapric Organics	patchy in profile	
		2/2						Silt Loam		
9-15	10YR	3/2	100						cobbles and boulder-size rocks at base of p	
					-			·		
							-	·		
¹ Type: C=Con	centration. D=	Depletion.	RM=Redu	ced Matrix ² Location	: PL=Por	e Lining. RC	C=Root Cha	annel. M=Matrix		
Hydric Soil Ir	dicators:			Indicators for Pro	oblemati	c Hydric So	oils: ³			
Histosol or	Histel (A1)			Alaska Color Ch	ange (TA	4) ⁴] Alaska Gleyed Without H	ue 5Y or Redder	
Histic Epipe	edon (A2)			Alaska Alpine swales (TA5)				Underlying Layer		
Hydrogen S	Sulfide (A4)			Alaska Redox W	/ith 2.5Y I	Hue		Other (Explain in Remarks)		
Thick Dark	Surface (A12)			3 One indicator of	hudronhud	tic voqotatic	n ono prir	nany indicator of wotland h	wdrology	
Alaska Gley				and an appropriate				nary indicator of wetland h esent	yu ology,	
Alaska Red	. ,			⁴ Give details of co	lor chang	e in Remark	(S			
Alaska Gley	ed Pores (A15)			nor chang		5			
Restrictive Laye	r (if present):									
Type:								Hydric Soil Present	? Yes 🔾 No 🖲	
Depth (inch	es):									
Remarks:										
HYDROLO	GY									
Wetland Hydr	ology Indicat	ors:						Secondary Indi	cators (two or more are required)	
Primary Indicat	ors (any one is	sufficient						Water Stai	ned Leaves (B9)	
Surface W	ater (A1)			Inundation Vi	sible on A	erial Image	ry (B7)	🗌 Drainage F	atterns (B10)	
High Wate	r Table (A2)			Sparsely Vege		ncave Surfa	ce (B8)	_	hizospheres along Living Roots (C3)	
Saturation	. ,			Marl Deposits					f Reduced Iron (C4)	
Water Mar				Hydrogen Sul				Salt Depos		
Sediment				Dry-Season W		. ,		Stunted or Stressed Plants (D1) Geomorphic Position (D2)		
Drift Depo	or Crust (B4)			Other (Explain	n in Rema	irks)			uitard (D3)	
Iron Depo									graphic Relief (D4)	
	oil Cracks (B6)							FAC-neutra		
Field Observa	. ,									
Surface Water		$_{\sf Yes}$ \bigcirc	No 🖲	Depth (inches	s):					
Water Table P	resent?	Yes \bigcirc	No 🖲	Depth (inches	5).		Wetla	nd Hydrology Presen	t? Yes 🔿 No 🖲	
Saturation Pre			No 🖲					, ,,		
(includes capil				Depth (inches	5):					
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:										
Pemarke:										
Remarks:										