WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: Matanusk	a-Susitna Borough Sampling Date: 31-Jul-12					
Applicant/Owner: Alaska Energy Authority		Sampling Point: SW12_T46_03					
Investigator(s): SLI, KMK	Landform (hillside, terrace, hummocks etc.): Swale						
Local relief (concave, convex, none): hummocky	Slope: % / 10.	6 ° Elevation: 930					
Subregion : Interior Alaska Mountains Lat.	62.6846013262 Long.: -147.648347499 Datum: NA						
Soil Map Unit Name:		NWI classification: Upland					
	ntly disturbed? Are "N problematic? (If nee	(If no, explain in Remarks.) lormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes ○ No ● Hydric Soil Present? Yes ○ No ● Wetland Hydrology Present? Yes ○ No ● Remarks:	Is the Sam within a W						
VEGETATION - Use scientific names of plants. List all s	pecies in the plot.						
Absolu Tree Stratum % Cov		Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)					
1. Alnus viridis	FAC	Total Number of Dominant					
2. 0							
		Species Across All Strata: <u>4</u> (B)					
3 (0							

з.			_				Percent of dominant Species
4.			_	0			That Are OBL, FACW, or FAC:(A/B)
5.			_	0			Prevalence Index worksheet:
		Total Cove	r: _	10			Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum	50% of Total Cover:	5	20%	of Total Cover:	2	OBL Species $0 \times 1 = 0$
1.	Alnus viridis			75	\checkmark	FAC	FACW Species 8 x 2 = 16
2.	0.1		-	5		FACU	FAC Species 88 x 3 = 264
3.				0			FACU Species 23 x 4 = 92
4.				0			UPL Species $0 \times 5 = 0$
5.				0			Column Totals: 119 (A) 372 (B)
				0			
				0			Prevalence Index = B/A = <u>3.126</u>
				0			Hydrophytic Vegetation Indicators:
9.				0			Dominance Test is > 50%
10.				0			Prevalence Index is ≤ 3.0
		Total Cove		80			Morphological Adaptations ¹ (Provide supporting data in
Her	b Stratum	50% of Total Cover:	40	_ 20%	of Total Cover:	16	Remarks or on a separate sheet)
1.	Cornus canadensis		_	10	\checkmark	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Arctagrostis latifolia		_	5		FACW	¹ Indicators of hydric soil and wetland hydrology must
3.	A second construction of the second sec		_	1		FAC	be present, unless disturbed or problematic.
4.	Lucanadium alauatum			7	\checkmark	FACU	Plot size (radius, or length x width) 10m
5.			_	1		FACW	Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes
6.	Petasites frigidus			2		FACW	(Where applicable)
7.	Description of the second s			2		FAC	% Bare Ground 90
8.				1		FACU	Total Cover of Bryophytes 5
9.				0			
10.				0			Hydrophytic
		Total Cove		29			Vegetation
		50% of Total Cover:	14.5		of Total Cover:	5.8	Present? Yes No 🖲
Rem	arks: scattered alous trunk	s over 3in dbb bright or	anao i	olly fu		alnus tra	a nolacy and valeriana on grasses collected and pressed

Remarks: scattered alnus trunks over 3in dbh. bright orange jelly fungus on some alnus. trace polacu and valeriana sp. grasses collected and pressed.

SOI	L

Profile Description	on: (Describe to	the depth nee Matrix	ded to docu	iment the inc		firm the ab ox Featu		ators)			
Depth (inches)	Color (mo		%	Color (m		%	_Type ¹	Loc 2	Texture	Remarks	
0-1							.,,,,,		Fibric Organics		
1-4									Hemic Organics		
4-13	7.5YR	3/2	90	5YR	3/2	10	С	M	Fine Loamy Silt	many subang cobbles-boulders	
13-18	10YR	4/1	100						Coarse Sand		
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix											
Hydric Soil Ir	ndicators:						Hydric So	oils: ³	_		
Histosol or	Histel (A1)				aska Color Change (TA4)				Alaska Gleyed Without Hue 5Y or Redder		
Histic Epipe					ka Alpine sv	•			Underlying Layer		
	Sulfide (A4)				ka Redox W	/ith 2.5Y F	lue		Other (Explain in Remarl	(5)	
	Surface (A12))		³ One ir	ndicator of	hvdrophyt	ic vegetatio	n, one prij	mary indicator of wetland h	vdroloav.	
Alaska Gley	,			and an	appropriate	e landscap	e position r	nust be pr	esent	,	
Alaska Red	. ,	-		⁴ Give o	letails of co	lor change	e in Remark	S			
	yed Pores (A1	5)				J		-			
Restrictive Laye	r (if present):										
Type:	,								Hydric Soil Present	? Yes 🔾 No 🖲	
Depth (inch	es):										
Remarks:											
no hydric soil in	dicators										
HYDROLO	GY										
Wetland Hydr	ology Indica	itors:							Secondary Indi	cators (two or more are required)	
Primary Indicat	tors (any one i	is sufficient)								ned Leaves (B9)	
Surface W	. ,			🛄 Ini	undation Vi	sible on A	erial Image	ry (B7)	_	Patterns (B10)	
	er Table (A2)			Sp	arsely Vege	tated Cor	cave Surfac	ce (B8)		hizospheres along Living Roots (C3)	
Saturation	. ,				arl Deposits	• •				of Reduced Iron (C4)	
Water Marks (B1) Hydrogen Sulfide Odor (C1) Salt Deposits (C5)								its (C5)			
Sediment Deposits (B2)								Stunted or Stressed Plants (D1)			
Drift Depo	Drift Deposits (B3)								Geomorphic Position (D2)		
Algal Mat	Algal Mat or Crust (B4)								Shallow Aquitard (D3)		
Iron Deposits (B5)								Microtopog	graphic Relief (D4)		
Surface Sc	oil Cracks (B6)								FAC-neutra	al Test (D5)	
Field Observa	tions:	\sim	\sim								
Surface Water	Present?	Yes O		De	epth (inches	s):					
Water Table P		Yes \bigcirc	No 🖲	De	epth (inches	5):		Wetla	nd Hydrology Presen	t? Yes 🔾 No 🖲	
Saturation Pre (includes capil		$_{\rm Yes} \bigcirc$	No 🖲	De	epth (inches	5):					

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:

Remarks:

no wetland hydrology indicators