WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/	City:	Matanusk	a-Susitna Borough Sampling Date: 31-Jul-12			
Applica	nt/Owner: Alaska Energy Authority					Sampling Point: SW12_T40_02			
Investig	pator(s): CTS, EKJ		Landfor	m (hill	side, terrac	e, hummocks etc.): Gulch or Gully			
	elief (concave, convex, none): convex		Slope:		%/ 13.1				
		Lat	_ ·	5700					
-	ion : Interior Alaska Mountains	Lai.	62.7161	5790					
	p Unit Name:					NWI classification: Upland			
Are V Are V SUMN	egetation , Soil , or Hydrology r	aturally	ntly disturb v problema	ed? tic?	(If nee	 (If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.) s, transects, important features, etc. 			
	Hydrophytic Vegetation Present? Yes • No C			ls	the Sam	pled Area			
	Hydric Soil Present? Yes O No 🖲					/etland? Yes \bigcirc No \bigcirc			
	Wetland Hydrology Present? Yes No 💽 Irks: Mudslide gully revegetating, lower gully more rec								
VEGE	TATION - Use scientific names of plants. Li		•		•	Dominance Test worksheet:			
Tree	eStratum	Absolu % Cov			Indicator Status	Number of Dominant Species			
1.	ordital		<u>. </u>	7		That are OBL, FACW, or FAC:4_ (A)			
2.)			Total Number of Dominant			
3.			<u> </u>			Species Across All Strata: (B)			
4.			<u>)</u>	_		Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.			<u> </u>						
	Total Cover:					Prevalence Index worksheet: Total % Cover of: Multiply by:			
San	ling/Shrub Stratum 50% of Total Cover:		— 0% of Total	Cover:	0				
			ſ	_					
	Alnus viridis				FAC				
	Salix pulchra				FACW	FAC Species 38.3 $\times 3 = 114.9$			
	Spiraea stevenii				FACU	FACU Species $4 \times 4 = 16$			
	Salix glauca				FAC	UPL Species x 5 =			
5.		-				Column Totals: <u>63.3</u> (A) <u>172.9</u> (B)			
6.		_				Prevalence Index = B/A = 2.731			
7.		_							
8.						Hydrophytic Vegetation Indicators:			
						✓ Dominance Test is > 50%			
10.		_)			✓ Prevalence Index is ≤3.0			
Her	Total Cover: <u>50% of Total Cover:</u>		20% of Tota		0.62	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
1.	Equisetum sylvaticum	_2		✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Arctagrostis latifolia	1		✓	FACW	¹ Indicators of hydric soil and wetland hydrology must			
3.	Petasites frigidus	1		✓	FACW	be present, unless disturbed or problematic.			
4.	Agrostis scabra	1	0	 ✓ 	FAC	Plot size (radius, or length x width) <u>10m</u>			
5.	Chamaenerion angustifolium		2		FACU	% Cover of Wetland Bryophytes			
6.	Cornus canadensis				FACU	(Where applicable)			
7.	Equisetum arvense				FAC	% Bare Ground			
8.	Geum macrophyllum	_			FAC	Total Cover of Bryophytes			
-	Erigeron acris	0			FAC				
10.	Trisetum spicatum	0			FAC	Hydrophytic			
	Total Cover:	-		Course	40.00	Vegetation Present? Yes • No O			
	50% of Total Cover:3	<u>U.1</u> 2	u% of Total	cover:	12.04				
Rem	arks: Bare ground from sloughing in gully. total shru	b cover	<5%, thus	s no de	ominant shr	ub species.			

Profile Description	n: (Describe to the depth needed to doc Matrix		cument the indicator or confirm the absence of indicators) Redox Features			cators)			
(inches)	Color (moi	st)	%	Color (moist)	%	Type 1	Loc ²	Texture	Remarks
0-16	2.5Y	3/2	80					Sandy Loam	Angular to well rounded sand to cobbles
									8
	,		,					-	
¹ Type: C=Conce	entration. D=	Depletion.	RM=Redu	ced Matrix ² Location	n: PL=Por	e Lining. R	C=Root Cha	nnel. M=Matrix	
Hydric Soil Ind	icators:			Indicators for P	oblemati	c Hydric S	oils: ³		
Histosol or Histel (A1) Alaska Color Change (TA4						4] Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipedon (A2)			Alaska Alpine swales (TA5) Underlying Layer						
Hydrogen Su				Alaska Redox	With 2.5Y I	Hue		Other (Explain in Remark	s)
Thick Dark S	urface (A12)			2					
🗌 Alaska Gleye	d (A13)			³ One indicator of and an appropria				nary indicator of wetland h esent	ydrology,
Alaska Redo	x (A14)					-			
Alaska Gleye	d Pores (A15	5)		⁴ Give details of c	olor chang	e in Remari	(S		
Restrictive Layer	(if present):								
Туре:								Hydric Soil Present	? Yes 🔾 No 🖲
Depth (inches	5):								
no hydric soil indi	Calors								
HYDROLOG	Y								
Wetland Hydrol		tors:						Secondary Indi	cators (two or more are required)
Primary Indicator	rs (any one is	s sufficient)					Water Stai	ned Leaves (B9)
Surface Water (A1)					ry (B7)	🗌 Drainage F	atterns (B10)		
High Water	High Water Table (A2) Sparsely Vegetated Concave Surface (B8)						ce (B8)	Oxidized R	hizospheres along Living Roots (C3)
Saturation (,			Marl Deposit	()				f Reduced Iron (C4)
Water Marks (B1)							Salt Deposits (C5)		
Sediment De				Dry-Season				_	Stressed Plants (D1)
Drift Deposits (B3) Other (Explain in Remarks) Geomorphic Position (D2)									
Algal Mat or								_	uitard (D3)
□ Iron Deposits (B5) □ Microtopographic Relief (D4) □ Surface Soil Cracks (B6) ☑ FAC-neutral Test (D5)									
	. ,							▼ FAC-neutra	i Test (DS)
Field Observation		Yes O	No 🖲	Depth (inche	s):				
Water Table Pre			No 🖲				Wetla	nd Hydrology Presen	t?Yes 🔾 No 🖲
Saturation Prese				Depth (inche			eua		
(includes capilla		res \cup	No 🖲	Depth (inche	es):				
Describe Recorde	d Data (strea	am gauge,	monitor w	ell, aerial photos, pre	vious inspe	ection) if av	ailable:		
Remarks:									

no wetland hydrology indicators