WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: Matanuska-Susitna Borough Sampling Date: 22-Jun-12
Applicant/Owner: Alaska Energy Authority	Sampling Point: SW12_T25_03
Investigator(s): JGK	Landform (hillside, terrace, hummocks etc.): Gulch or Gully
Local relief (concave, convex, none): undulating	Slope: 26.7 % / 15.0 ° Elevation: 531
Subregion : Southcentral Alaska Lat.	: 62.8035399085 Long.: -149.269189968 Datum: WGS84
Soil Map Unit Name:	NWI classification: Upland
	ear? Yes No (If no, explain in Remarks.) intly disturbed? Are "Normal Circumstances" present? Yes No / problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sa	ampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes \bigcirc No $oldsymbol{igodol}$	
Hydric Soil Present? Yes No Kyc No No Kyc No	
Wetland Hydrology Present? Yes \bigcirc No $oldsymbol{igodol}$	within a Wetland? Yes \cup No $ullet$

Remarks:
r tornanto.

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

		Absolu	ute Dominant	Indicator	Dominance Test worksheet:		
Tree	e Stratum	% Co		Status	Number of Dominant Species		
1.	Betula neoalaskana		15 🗸	FACU	That are OBL, FACW, or FAC: <u>2</u> (A)		
2.	Picea glauca		10	FACU	Total Number of Dominant Species Across All Strata: 5		
3.			0		Percent of dominant Species		
4.			0		That Are OBL, FACW, or FAC: <u>40.0%</u> (A/B)		
5.			0		Prevalence Index worksheet:		
	Total Cover		5		Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum 50% of Total Cover:	12.5	20% of Total Cove	r: <u>5</u>	OBL Species 0 x 1 = 0		
1.	Alnus viridis ssp. sinuata	2	25	FAC	FACW Species 0 x 2 = 0		
2.	Viburnum edule		10	FACU	FAC Species 80 x 3 = 240		
3.	Linnaea borealis		5	FACU	FACU Species <u>52</u> x 4 = <u>208</u>		
4.			0		UPL Species x 5 =		
5.			0		Column Totals: <u>132</u> (A) <u>448</u> (B)		
6.		_	0				
			0		Prevalence Index = B/A = <u>3.394</u>		
			0		Hydrophytic Vegetation Indicators:		
			0		Dominance Test is > 50%		
			0		Prevalence Index is ≤ 3.0		
	Total Cover		0		Morphological Adaptations ¹ (Provide supporting data in		
Herb Stratum 50% of Total Cover: 20 20% of Total Cover:				er: 8	Remarks or on a separate sheet)		
1.	Spinulum annotinum		10	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Calamagrostis canadensis		50	FAC	¹ Indicators of hydric soil and wetland hydrology must		
3.	Equisetum sylvaticum		2	FAC	be present, unless disturbed or problematic.		
4.	Sanguisorba menziesii		1	FAC	Plot size (radius, or length x width) 10m		
5.	Cornus canadensis	_	2	FACU	Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes		
6.	Rubus arcticus	_	2	FAC	(Where applicable)		
7.		_	0		% Bare Ground		
			0		Total Cover of Bryophytes		
			0				
			0		Hydrophytic		
	Total Cover:	6	7		Vegetation		
	50% of Total Cover:	33.5	20% of Total Cove	r: <u>13.4</u>	Present? Yes \bigcirc No \bigcirc		
Rem	arks: tr spibea dryfil (2%) forest almost woodland tr	stram)				

SOIL

Profile Description: (Describe	to the depth ne Matrix	eeded to docu		nfirm the ab		cators)			
(inches) Color (i	moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-2							Fibric Organics		
2-3							Hemic Organics		
3-12 7.5YR	3/1	50					Silt Loam	50% large cobbles what prevented further e	
							·		
¹ Type: C=Concentration.	D=Depletion	I. RM=Reduc			-		annel. M=Matrix		
Hydric Soil Indicators:			Indicators for Pro		4	ioils: ³	_		
Histosol or Histel (A1)			Alaska Color Ch			L	Alaska Gleyed Without H	ue 5Y or Redder	
Histic Epipedon (A2)			Alaska Alpine s	•	,	Г	Underlying Layer	I\	
Hydrogen Sulfide (A4)			Alaska Redox W	√ith 2.5Y I	Hue	L	Other (Explain in Remarl	(S)	
Image: Thick Dark Surface (A) Image: Alaska Gleyed (A13)	12)		³ One indicator of and an appropriate				mary indicator of wetland h resent	ıydrology,	
Alaska Redox (A14)						-			
Alaska Gleyed Pores (A	A15)		⁴ Give details of co			KS			
Restrictive Layer (if present Type:	t):						Hydric Soil Present	:? Yes 🔿 No 🖲	
Depth (inches):							- -		
Remarks:									
HYDROLOGY									
Wetland Hydrology Indi		- 13						icators (two or more are required)	
Primary Indicators (any on	IE IS SUTTICIEN	<u>.t)</u>				(57)	Water Stained Leaves (B9)		
Surface Water (A1)	i)		Inundation Vi		-		 Drainage Patterns (B10) Oxidized Rhizospheres along Living Roots (C3) 		
Saturation (A3))		Sparsely Vege		Acave Surra	ICE (BO)	$\square \text{ Distribution of Reduced Iron (C4)}$		
Water Marks (B1)			Hydrogen Sul		((1)		Salt Deposits (C5)		
Sediment Deposits (B	.2)		Dry-Season W				Stunted or Stressed Plants (D1)		
Drift Deposits (B3)	2)		Other (Explain				_	ic Position (D2)	
Algal Mat or Crust (B4	4)			I III NGING	11 15 /			quitard (D3)	
Iron Deposits (B5)	')						_	graphic Relief (D4)	
Surface Soil Cracks (B	36)							al Test (D5)	
Field Observations:	-,								
Surface Water Present?	Yes 🤇	No 💿	Depth (inches	:s):					
Water Table Present?) No 🖲	Depth (inches	s):		Wetla	nd Hydrology Presen	nt? Yes 🔿 No 🖲	
Saturation Present? (includes capillary fringe)	Yes C) No 🖲	Depth (inches						
Describe Recorded Data (st	tream gauge	, monitor we	ell, aerial photos, prev	vious inspe	ection) if av	/ailable:			
Remarks:									