WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampling Da	te: 10-Jul-13
Applicant/Owner: Alaska Energy Authority		Sampling Point:	SW13_T184_02
Investigator(s): JGK	Landform (hills	side, terrace, hummocks etc.): Hillside	
Local relief (concave, convex, none): hummocky	Slope: 40.4	% / 22.0 ° Elevation: 662	
Subregion : Interior Alaska Mountains	at.: 62.847263932	Long.:148.576712489	Datum: WGS84
Soil Map Unit Name:		NWI classification: Up	land
Are Vegetation , Soil , or Hydrology atura	cantly disturbed?	(If needed, explain any answers in Remark	,
SUMMARY OF FINDINGS - Attach site map showing	sampling point	locations, transects, important feature	es, etc.
Hydrophytic Vegetation Present? Yes ● No ○ Hydric Soil Present? Yes ○ No ●		the Sampled Area	

within a Wetland?

Yes 🔾 No 🖲

Wetland Hydrology Present? Remarks: DUNN SITE 1490 SOIL 1492

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

Yes 🔿 No 🖲

		۸hc	Absolute Dominant		Indicator	Dominance Test worksheet:		
Tre	e Stratum		Cover	Species?	Status	Number of Dominant Species		
1.	Picea glauca		5		FACU	That are OBL, FACW, or FAC: (A)		
2.	Betula neoalaskana	-	35		FACU	Total Number of Dominant Species Across All Strata: 6 (B)		
3.	Alnus viridis		2		FAC	Percent of dominant Species		
4.			0			That Are OBL, FACW, or FAC: <u>66.7%</u> (A/B)		
5.		-	0			Prevalence Index worksheet:		
	Total Cover:		42			Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum 50% of Total Cover:	21	20%	of Total Cover:	8.4	OBL Species $0 \times 1 = 0$		
1.	Rosa acicularis		10		FACU	FACW Species 0 x 2 = 0		
2.	Alnus viridis		20		FAC	FAC Species <u>117</u> x 3 = <u>351</u>		
3.	Ribes triste		10		FAC	FACU Species <u>67</u> x 4 = <u>268</u>		
4.	Vaccinium vitis-idaea	-	20		FAC	UPL Species 0 x 5 = 0		
5.	Linnaea borealis		15	\checkmark	FACU	Column Totals: 184 (A) 619 (B)		
6.			0					
			0			Prevalence Index = B/A =3.364		
			0			Hydrophytic Vegetation Indicators:		
			0			✓ Dominance Test is > 50%		
			0			Prevalence Index is ≤ 3.0		
	Total Cover	Morphological Adaptations ¹ (Provide supporting data in						
Total Cover: 75 Herb Stratum 50% of Total Cover: 37.5 20% of Total Cover: 15						Remarks or on a separate sheet)		
1.	Cornus suecica	_	35	\checkmark	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Equisetum sylvaticum		20	\checkmark	FAC	¹ Indicators of hydric soil and wetland hydrology must		
3.	Mertensia paniculata		2		FACU	be present, unless disturbed or problematic.		
4.	Calamagrostis canadensis	_	10		FAC	Plot size (radius, or length x width) 10m		
5.		_	0					
			0			% Cover of Wetland Bryophytes (Where applicable)		
			0			% Bare Ground		
8.		_	0			Total Cover of Bryophytes50		
			0					
		_	0			Hydrophytic		
Total Cover: <u>67</u>						Vegetation		
	50% of Total Cover:	33.5	20%	of Total Cover:	13.4	Present? Yes No		
Remarks:								

Profile Description: (Describe to the depth needed to do Depth Matrix			eded to docu		firm the abs		itors)	_	
(inches)	Color (mo	ist)	%	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks
0-5			100					Fibric Organics	
5-10	2.5Y	3/3	100					Coarse Sandy Silt	
10-11	10YR	3/2			-			Sapric Organics	With some coarse sand
11-14	2.5Y	3/3						Gravelly Silt	
	·					· ·			
						· ·			
¹ Type: C=Con	centration. D=	Depletion.	 RM=Reduc	ed Matrix ² Location	: PL=Pore	e Lining. RC:	=Root Cha	annel. M=Matrix	
Hydric Soil Ir				Indicators for Pro					
Histosol or				Alaska Color Ch		4		Alaska Gleyed Without H	ue 5Y or Bedder
Histic Epipe	. ,			Alaska Alpine sv	• •	<i>,</i>		Underlying Layer	
	Sulfide (A4)			Alaska Redox W	, /ith 2.5Y ⊦	lue		Other (Explain in Remarl	(s)
	Surface (A12)	1							
Alaska Gley	/ed (A13)			³ One indicator of and an appropriate				mary indicator of wetland hesent	nydrology,
🗌 Alaska Red	ox (A14)				-	-		cocht	
Alaska Gley	ed Pores (A1	5)		⁴ Give details of co	olor change	e in Remarks	5		
Restrictive Laye	r (if present):								
Type:								Hydric Soil Present	? Yes 🔾 No 🖲
Depth (inch	es):								
Remarks:									
HYDROLO	GY								
Wetland Hydr	ology Indica	tors:						Secondary Indi	cators (two or more are required)
Primary Indicat	ors (any one i	s sufficient)					Water Stai	ned Leaves (B9)
Surface W	. ,			Inundation Vi		-		_	Patterns (B10)
	r Table (A2)			Sparsely Vege		cave Surfac	e (B8)	_	hizospheres along Living Roots (C3)
Saturation	. ,			Marl Deposits	• •	(01)			of Reduced Iron (C4)
Water Mar	Deposits (B2)			Hydrogen Sul				Salt Depos	Stressed Plants (D1)
				Other (Explain		• •		_	ic Position (D2)
·	or Crust (B4)					(3)			quitard (D3)
Iron Depo	. ,								graphic Relief (D4)
	il Cracks (B6)								al Test (D5)
Field Observa	tions:								
Surface Water	Present?	Yes \bigcirc	No 🖲	Depth (inches	s):				
Water Table P	resent?	Yes \bigcirc	No 🖲	Depth (inches	s):		Wetla	nd Hydrology Presen	it? Yes 🔾 No 🖲
Saturation Pre (includes capil		Yes \bigcirc	No 🖲	Depth (inches	s):				
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:									
Demode									
Remarks:									
no wetland hydrology indicators									