WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampling Date: 02-Ju		
Applicant/Owner: Alaska Energy Authority		Sampling Point:	SW13_T138_04	
Investigator(s): JER	Landform (hill	side, terrace, hummocks etc.): Hillside		
Local relief (concave, convex, none): convex	Slope: 14.0	% / 8.0 ° Elevation: 883		
Subregion : Southcentral Alaska La	t.: 62.888172388	Long.: -149.117088199	Datum: WGS84	
Soil Map Unit Name:		NWI classification: Up	bland	
Are Vegetation , Soil , or Hydrology natural	antly disturbed? ly problematic?	Are "Normal Circumstances" present? (If needed, explain any answers in Remai	,	
SUMMARY OF FINDINGS - Attach site map showing s	sampling point	locations, transects, important featur	es, etc.	
Hydrophytic Vegetation Present? Yes ● No ○ Hydric Soil Present? Yes ○ No ●	Is	the Sampled Area		

within a Wetland?

Yes 🔾 No 🖲

Wetland Hydrology Present?	$Yes \bigcirc$	No 🖲
Remarks: small creek adjacent to plot		

Hydric Soil Present?

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

			Ahsr	olute	Dominant	Indicator	Dominance Test worksheet:		
Tre	e Stratum		% C		Species?	Status	Number of Dominant Species		
1.				0			That are OBL, FACW, or FAC:5_ (A)		
2.			,	0			Total Number of Dominant Species Across All Strata: 6 (B)		
3.				0			Percent of dominant Species		
4.				0			That Are OBL, FACW, or FAC: <u>83.3%</u> (A/B)		
5.				0					
		Total Cover		0			Prevalence Index worksheet: Total % Cover of: Multiply by:		
Sapling/Shrub Stratum 50% of Total Cover:		50% of Total Cover:	0		of Total Cover:	0			
			-						
1.				30		FACW			
2.	Salix barclayi			20		FAC	FAC Species $92 \times 3 = 276$		
3.	Salix brachycarpa			5		FAC	FACU Species <u>35</u> x 4 = <u>140</u>		
4.	Salix pseudomonticola			30	\checkmark	FAC	UPL Species x 5 =		
5.	Betula nana			2		FAC	Column Totals: <u>157</u> (A) <u>476</u> (B)		
6.	Spiraea stevenii			3		FACU			
7.	Vaccinium uliginosum			5		FAC	Prevalence Index = B/A = <u>3.032</u>		
8.				0			Hydrophytic Vegetation Indicators:		
9.				0			✓ Dominance Test is > 50%		
10.				0			Prevalence Index is ≤3.0		
		Total Cover		95			Morphological Adaptations ¹ (Provide supporting data in		
Herb Stratum 50% of Total Cover:		50% of Total Cover:					Remarks or on a separate sheet)		
1.	Chamerion angustifolium		_	5		FACU	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Geranium erianthum			10	\checkmark	FACU	¹ Indicators of hydric soil and wetland hydrology must		
3.	Mertensia paniculata		-	8		FACU	be present, unless disturbed or problematic.		
4.	Sedum rosea			5		FAC			
5.	Valoriana conitata			10	\checkmark	FAC	Plot size (radius, or length x width) <u>10m</u>		
6.	Deleverenting entitlement			1		FAC	% Cover of Wetland Bryophytes (Where applicable)		
7.	Equisetum arvense			2		FAC	% Bare Ground		
8.	Cornus canadensis			7		FACU	Total Cover of Bryophytes 15		
9.	Galium boreale			2		FACU			
10.	Calamagrostis canadensis			12	\checkmark	FAC	Hydrophytic		
		Total Cover:		62			Vegetation		
		50% of Total Cover:			of Total Cover:	12.4	Present? Yes \bullet No \bigcirc		
Rem	arks' cancan 5 rubarc 10 h	ucann 2 vioadu 2 notfri	1 art	nor 3	achmil 1				

5, rubarc 10, lycann 2, vioadu 2, petfri 1, artnor 3, achmil 1

		the depth n Matrix	eeded to doo	ument the indicator or cor Red	nfirm the ab		ators)			
Depth (inches)	Color (mo		%	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks	
0-2			100			.,,,,		Fibric Organics		
2-4								Hemic Organics		
4-12		3/2	70					Sandy Loam	organc inclusion pockets and a lot of saprics	
12-18	2.5YR	3/2	100					Loamy Sand		
18-20		3/1	100					Sandy Loam		
20-26		4/2	100					Sandy Loam		
		7/2								
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 In	dicators:			Indicators for Pro	oblemati	c Hydric S	oils: ³			
Histosol or	Histel (A1)			🗌 Alaska Color Ch	nange (TA	4) ⁴		Alaska Gleyed Without Hue 5Y or Redder		
Histic Epipe	edon (A2)			Alaska Alpine swales (TA5)				Underlying Layer		
Hydrogen S	Sulfide (A4)			Alaska Redox V	Vith 2.5Y I	Hue		Other (Explain in Remar	ks)	
	Surface (A12))		³ One indicator of	hydrophy	tic vegetatic	n one prir	mary indicator of wetland I	bydrology	
Alaska Gley	. ,			and an appropriat	e landsca	pe position	nust be pr	esent	ryarology,	
Alaska Red	. ,	-)		⁴ Give details of co	olor chang	e in Remark	s			
Alaska Gley	ed Pores (A1	5)					-			
Restrictive Laye										
Type: frost Depth (inch								Hydric Soil Present	:? Yes 🔾 No 🖲	
no hydric soil ir										
HYDROLO										
Wetland Hydr									icators (two or more are required)	
Primary Indicat		is sufficien	t)				(22)	_	ined Leaves (B9)	
Surface Wate	r Table (A2)			Inundation Vi		-			Patterns (B10) Rhizospheres along Living Roots (C3)	
Saturation	• • •			Sparsely Vege		ICave Suria	се (во)	_	of Reduced Iron (C4)	
Water Mar	. ,			Hydrogen Sul	. ,	(C1)		Salt Depos		
	Deposits (B2)			Dry-Season V		. ,			r Stressed Plants (D1)	
Drift Depo	,			Other (Explai					hic Position (D2)	
	or Crust (B4)					-,			quitard (D3)	
Iron Depos								Microtopo	graphic Relief (D4)	
Surface So	il Cracks (B6)							FAC-neutr	al Test (D5)	
Field Observa	tions:									
Surface Water	Present?		🔾 No 🖲	1 1	s):					
Water Table Pi	resent?	Yes 🤇	No 🖲	Depth (inche	s):		Wetla	nd Hydrology Preser	nt? Yes 🔿 No 🖲	
Saturation Pres (includes capill		Yes C	No 🖲	Depth (inche	s):					
Describe Record	led Data (stre	am gauge	, monitor w	ell, aerial photos, prev	vious inspe	ection) if ava	ailable:			
Pemarke										
Remarks:										