WETLAND DETERMINATION DATA FORM - Alaska Region

	ct/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 20-Jun-12						
Applicant/Owner: Alaska Energy Authority Sampling Point: SW12_T27_04											
	igator(s): JGK		Landform (hill	andform (hillside, terrace, hummocks etc.): Gulch or Gully							
	relief (concave, convex, none): hummocky		Slope: % / 5.4 ° Elevation: 891								
	gion : Interior Alaska Mountains	l at ·	62.869548171 Long.: -148.662125673 Datum: NAD83								
		Lat									
	ap Unit Name:		0 V	No ○	NWI classification: Upland						
	imatic/hydrologic conditions on the site typical for this ti	•			(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○						
		•	y disturbed?		ionnai oii oaniotanooo procont.						
Are '	Vegetation ☐ , Soil ☐ , or Hydrology ☐ ।	naturally p	roblematic?	(If nee	eded, explain any answers in Remarks.)						
SUM	MARY OF FINDINGS - Attach site map show	wing sar	npling point	locations	s, transects, important features, etc.						
	Hydrophytic Vegetation Present? Yes No C)									
	Hydric Soil Present? Yes ○ No ●)	Is the Sampled Area								
	Wetland Hydrology Present? Yes No •		within a Wetland? Yes ○ No •								
Rem	earks:										
	ETATION -Use scientific names of plants. Li	Absolute	Dominant	Indicator	Dominance Test worksheet:						
1.	ee Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC:3(A)						
			. 📙		Total Number of Dominant						
2.					Species Across All Strata:5 (B)						
3.			. 📙		Percent of dominant Species						
4. 5.		0			That Are OBL, FACW, or FAC: 60.0% (A/B)						
5.	Total Cover	- <u>0</u>			Prevalence Index worksheet:						
6			6 of Total Cover:		Total % Cover of: Multiply by:						
Sa	pling/Shrub Stratum 50% of Total Cover:	0 207		0	OBL Species 0 x 1 = 0						
1.	Salix pulchra		. <u>V</u>	FACW	FACW Species 70 x 2 = 140						
	Vaccinium uliginosum	15	. 💆	FAC	FAC Species 42 x 3 = 126						
		2		FAC	FACU Species 37 x 4 = 148						
4.					UPL Species <u>0</u> x 5 = <u>0</u>						
5.			. 📙		Column Totals: <u>149</u> (A) <u>414</u> (B)						
6.					Prevalence Index = B/A = 2,779						
7.		0									
8.			. 📙		Hydrophytic Vegetation Indicators:						
9.		0			✓ Dominance Test is > 50%						
10.	Total Cover		. \square		✓ Prevalence Index is ≤3.0						
He	rb Stratum_ 50% of Total Cover:		% of Total Cover	: 11.4	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)						
			✓	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)						
	Cornus canadensis	15		FACO							
1.		15 10									
1. 2.	Cornus canadensis Dodecatheon frigidum Rhodiola integrifolia			FACW FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.						
1.	Dodecatheon frigidum Rhodiola integrifolia	5		FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.						
1. 2. 3.	Dodecatheon frigidum Rhodiola integrifolia Sanguisorba menziesii	10 5 5		FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width)						
1. 2. 3. 4.	Dodecatheon frigidum Rhodiola integrifolia Sanguisorba menziesii	10 5 5		FACW FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.						
1. 2. 3. 4. 5.	Dodecatheon frigidum Rhodiola integrifolia Sanguisorba menziesii Geranium erianthum	10 5 5 20 10		FACW FAC FACU	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) Cover of Wetland Bryophytes 0						
1. 2. 3. 4. 5.	Dodecatheon frigidum Rhodiola integrifolia Sanguisorba menziesii Geranium erianthum Calamagrostis canadensis	10 5 5 20 10 5		FACW FAC FAC FACU FAC	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) Cover of Wetland Bryophytes (Where applicable) Bare Ground O						
1. 2. 3. 4. 5. 6. 7.	Dodecatheon frigidum Rhodiola integrifolia Sanguisorba menziesii Geranium erianthum Calamagrostis canadensis Carex bigelowii	10 5 5 20 10 5		FACW FAC FACU FAC FAC	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) Cover of Wetland Bryophytes (Where applicable) Bare Ground 0						
1. 2. 3. 4. 5. 6. 7. 8.	Dodecatheon frigidum Rhodiola integrifolia Sanguisorba menziesii Geranium erianthum Calamagrostis canadensis Carex bigelowii Equisetum pratense Chamaenerion angustifolium	10 5 5 20 10 5 20		FACW FAC FACU FAC FAC FAC FAC	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) 10m 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						
1. 2. 3. 4. 5. 6. 7. 8. 9.	Dodecatheon frigidum Rhodiola integrifolia Sanguisorba menziesii Geranium erianthum Calamagrostis canadensis Carex bigelowii Equisetum pratense Chamaenerion angustifolium	10 5 5 20 10 5 20 2 0 92	G of Total Cover:	FACW FAC FACU FAC FAC FAC FAC FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) Cover of Wetland Bryophytes (Where applicable) Bare Ground Total Cover of Bryophytes 20						

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW12_T27_04

									10 54412_127_04	
Profile Description		the depth ne	eded to docun	nent the indicator or co	nfirm the at		ators)			
Depth (inches)					w	Type ¹	_Loc_2		Remarks	
0-2	Color (mo	oist)	<u> </u>	Color (moist)		Туре	LOC	Fibric Organics	Remarks	
2-3	7.5YR	3/2	95					Loamy Sand	5% roots	
3-12	7.5YR	3/2						Sandy Clay Loam	5% roots 5% fine grit 10% ls inclusions	
12-18	10YR	3/3						Sandy Clay Loam	30% large rounded cobbles 3 6 in 10% fin	
				-			-			
-	-						-			
¹Type: C=Con	centration. D	=Depletion	RM=Reduce	ed Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	annel. M=Matrix		
Hydric Soil In	dicators:			Indicators for Pi	oblemati	c Hydric So	oils: ³			
Histosol or				Alaska Color C		4		Alaska Gleyed Without H	ue 5Y or Redder	
Histic Epipe	` ,			Alaska Alpine s		-		Underlying Layer		
	Sulfide (A4)			Alaska Redox \	Nith 2.5Y	Hue		Other (Explain in Remarks)		
	Surface (A12)								
Alaska Gley	-			³ One indicator of and an appropria				mary indicator of wetland h	nydrology,	
Alaska Red	ox (A14)					•		esent		
Alaska Gley	ed Pores (A1	5)		⁴ Give details of c	olor chang	e in Remark	is .			
Restrictive Laye	r (if present):									
Type:								Hydric Soil Present	? Yes ○ No •	
Depth (inch	es):									
Remarks:							,			
no hydric soil in	dicators									
,										
HYDROLO	3Y									
Wetland Hydr		itors:						Secondary Indi	cators (two or more are required)	
Primary Indicat			:)						ned Leaves (B9)	
Surface W	ater (A1)			☐ Inundation V	isible on A	Aerial Image	rv (B7)		Patterns (B10)	
	High Water Table (A2)					ncave Surfac	, , ,		hizospheres along Living Roots (C3)	
Saturation (A3)				Marl Deposit			,	Presence of	of Reduced Iron (C4)	
Water Marks (B1)				Hydrogen Su	ılfide Odor	(C1)		☐ Salt Depos	its (C5)	
Sediment Deposits (B2)				Dry-Season	Water Tab	le (C2)		Stunted or	Stressed Plants (D1)	
Drift Depo	☐ Drift Deposits (B3)				in in Rema	arks)		Geomorph	ic Position (D2)	
Algal Mat	☐ Algal Mat or Crust (B4)								quitard (D3)	
☐ Iron Deposits (B5)								Microtopog	graphic Relief (D4)	
Surface Sc	il Cracks (B6)						1	☐ FAC-neutra	al Test (D5)	
Field Observa										
Surface Water	Present?		No 💿	Depth (inche	es): 0					
Water Table P	resent?	Yes 🥑	No 🔾	Depth (inche	es): 15		Wetla	nd Hydrology Presen	t? Yes O No 💿	
Saturation Pre-		Yes 🖲	No O	Depth (inche	es): 13					
		am daude	monitor wel	l, aerial photos, pre	vious insn	ection) if ava	ilable:			
Describe record	ica Data (Stre	am gaage,	moment we	i, acriai priotos, pre	vious irispi	cedony ii dve	madic.			
Remarks:										
Pockets of standing water										

U.S. Army Corps of Engineers Alaska Version 2.0