WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project		Borough/Cit	y: Matanusk	ka-Susitna Borough Sampling Date: 20-Jun-12				
Applic	ant/Owner: Alaska Energy Authority	Sampling Point: SW12_T27_04							
Invest	gator(s): JGK		Landform	Landform (hillside, terrace, hummocks etc.): Gulch or Gully					
Local	relief (concave, convex, none): hummocky		Slope: 17.6 % / 10.0 ° Elevation: 900						
	gion : Interior Alaska Mountains	l at ·	· 62.869549		Long.: -148.66214997 Datum: WGS84				
	ap Unit Name:	Lut	02.003343	300					
				es No	NWI classification: Upland				
Are \	matic/hydrologic conditions on the site typical for this /egetation , Soil , or Hydrology , or Hydrology , or Hydrology , Soil , or Hydrology , or Hydr	significal naturally nowing sa	ntly disturbed problematic?	? Are "N	Normal Circumstances" present? Yes No eded, explain any answers in Remarks.)				
	Hydrophytic Vegetation Present? Yes ● No Hydric Soil Present? Yes ○ No	•			the Sampled Area thin a Wetland? Yes ◯ No ◉				
	Wetland Hydrology Present? Yes O No	•		within a vi	Charles.				
VEGI	ETATION -Use scientific names of plants.	Absolu	te Dominaı	nt Indicator					
1.	e Stratum	% Cov		? Status	Number of Dominant Species That are OBL, FACW, or FAC:3 (A)				
		0			Total Number of Dominant				
2.					Species Across All Strata:5(B)				
3. 4.		$- \frac{0}{0}$			Percent of dominant Species That Are OBL, FACW, or FAC: 60,0% (A/B)				
5.			_ =		That Ale Obl., I AOW, OI I AC				
J.	Total Cov				Prevalence Index worksheet:				
60.	oling/Shrub Stratum 50% of Total Cover:		— 0% of Total Co	ver: 0	Total % Cover of: Multiply by:				
Sal	Som of Total Cover.		_	vei	OBL Species 0 x1 = 0				
	Salix pulchra	40		FACW	FACW Species 70 x 2 = 140				
	Vaccinium uliginosum			FAC	FACUS pecies 42 x 3 = 126				
	Dasiphora fruticosa	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.									
8.		$- \frac{0}{0}$	_		Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%				
9.		$ -\frac{0}{0}$			✓ Prevalence Index is ≤ 3.0				
10.	Total Cov								
-	b Stratum 50% of Total Cover:	28.5 2	57		 ☐ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation ¹ (Explain) 				
1.	Cornus canadensis Dodecatheon frigidum			FACU FACW	Indicators of hydric soil and wetland hydrology must				
3.	Sedum rosea			FAC	be present, unless disturbed or problematic.				
3. 4.	Sanguisorba menziesii			FAC					
5.	Geranium erianthum			FACU	Plot size (radius, or length x width)				
6.	Calamagrostis canadensis			FAC	% Cover of Wetland Bryophytes 0 (Where applicable)				
7.	Carex bigelowii			FAC	% Bare Ground 0				
8.	Equisetum pratense			FACW	Total Cover of Bryophytes 20				
9.	Chamerion angustifolium	2		FACU					
		0			Hydrophytic				
10.					Vegetation				
	Total Cov	er: 92	_		Vegetation Present? Yes ● No ○				

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SOIL Sampling Point: SW12_T27_04

JOIL								Samping	g Point: 3VV12_12/_04		
Profile Descripti	on: (Describe to	the depth n	eeded to docur	ment the indicator or co			cators)				
Depth		Matrix		Re	dox Featı			_			
(inches)	Color (mo	ist)	<u>%</u>	Color (moist)	_%_	Type ¹	<u>Loc</u> 2	Texture	Remarks		
0-2								Fibric Organics	_		
2-3	7.5YR	3/2	95					Loamy Sand	5% roots		
3-12	7.5YR	3/2	80					Sandy Clay Loam	5% roots 5% fine grit 10% ls inclusions		
12-18	10YR	3/3	60					Sandy Clay Loam	30% large rounded cobbles 3 6 in 10% fin		
-								-			
-											
¹Type: C=Cor	ncentration. D=	-Depletion	. RM=Reduc	ed Matrix ² Locatio	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for P	roblemati	c Hydric S	oils: ³		-		
	Histel (A1)			Alaska Color C		4	-	Alaska Gleyed Without H	due 5Y or Redder		
Histic Epip	` '			Alaska Alpine			_	Underlying Layer	ide 51 of Reddel		
	Sulfide (A4)			Alaska Redox				Other (Explain in Remar	ks)		
	Surface (A12))									
Alaska Gle	yed (A13)			³ One indicator of and an appropria				mary indicator of wetland	hydrology,		
Alaska Red	dox (A14)					•		COCIT			
Alaska Gle	yed Pores (A15	5)		⁴ Give details of o	color chang	e in Remark	(S				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	t? Yes O No 💿		
Depth (inch	nes):										
Remarks:											
no hydric soil ir	ndicators										
HYDROLO	GY										
Wetland Hydi	rology Indica	tors:						_Secondary Ind	icators (two or more are required)		
Primary Indica	tors (any one i	s sufficien	t)					Water Sta	ined Leaves (B9)		
Surface W	/ater (A1)			Inundation \	/isible on A	erial Image	ry (B7)	Drainage	Patterns (B10)		
High Wate	☐ High Water Table (A2) ☐ Sparsely Vegetated Concave Surface (B8)						ce (B8)	·			
Saturation (A3)			Marl Deposit	s (B15)				of Reduced Iron (C4)			
Water Marks (B1)			Hydrogen Sı				☐ Salt Depo				
☐ Sediment Deposits (B2) ☐ Dry-Season Water Table (C2)						Stunted or Stressed Plants (D1)					
	☐ Drift Deposits (B3) ☐ Other (Explain in Remarks)							☐ Geomorphic Position (D2) ☐ Shallow Aquitard (D3)			
☐ Iron Deposits (B5)								Microtopographic Relief (D4)			
	oil Cracks (B6)								al Test (D5)		
Field Observa								i AC-ileuti	ai rest (D3)		
Surface Water		Yes (No ●	Depth (inch	es). U						
Water Table P			No O	. ,	,		Wotla	nd Hydrology Presei	nt? Yes ○ No •		
				Depth (inch	es): 15		Wellai	ila nyarology Presei	itr fes O NO O		
Saturation Pre (includes capi		Yes •	No O	Depth (inch	es): 13						
Describe Recor	ded Data (stre	am gauge	, monitor we	ll, aerial photos, pre	vious inspe	ection) if ava	ailable:				
Remarks:	diam t										
Pockets of stan	ding water										
ı											

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