WETLAND DETERMINATION DATA FORM - Alaska Region

Proje	ct/Site: Susitna-Watana Hydroelectric Project	ct	Во	orough/City:	Matanusk	xa-Susitna Borough Sampling Date: 09-Jul-13						
Applic	cant/Owner: Alaska Energy Authority					Sampling Point: SW13_T120_03						
	tigator(s): JGK		L	_andform (hill	side, terrac	ce, hummocks etc.): Lowland						
	relief (concave, convex, none): hummocky			Slope:		2 ° Elevation: 981						
	egion : Southcentral Alaska					Long.: -149.714923859 Datum: NAD83						
			02.70104020									
	lap Unit Name:				<u> </u>	NWI classification: PEM1E						
Are Are	limatic/hydrologic conditions on the site typical Vegetation , Soil , or Hydrology Vegetation , Soil , or Hydrology Vegetation , Soil , or Hydrology	sigi nat ap showir	nificantly urally pro	disturbed?	(If nee	Iormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.)						
Hydrophytic Vegetation Present? Yes No Signature No Signa												
	Hydric Soil Present? Yes ●	No O		within a Wetland? Yes No No								
	Wetland Hydrology Present? Yes ●	No O		WI	tnin a vv	etiand? Tes C No C						
	narks: ETATION - Use scientific names of pl				•	Dominance Test worksheet:						
т	ee Stratum		bsolute Cover	Dominant Species?	Indicator Status	Number of Dominant Species						
1.		-	0			That are OBL, FACW, or FAC: 3 (A)						
2.			0			Total Number of Dominant						
3.			0			Species Across All Strata: 3 (B)						
4.						Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)						
5.			0									
		al Cover:	0			Prevalence Index worksheet:						
Sa	pling/Shrub Stratum 50% of Total Co		of Total Cover:	0	Total % Cover of: Multiply by: OBL Species 5 x 1 = 5							
	pinig/ Sir ub Stratum											
	Salix reticulata			✓	FAC							
	Empetrum nigrum				FAC	FACUS paging 2 x 3 = 231						
3.						FACU Species 0 x 4 = 0						
4.						UPL Species <u>0</u> x 5 = <u>0</u>						
5.						Column Totals: <u>97.1</u> (A) <u>266.2</u> (B)						
6.						Prevalence Index = B/A = 2.742						
7.												
8.			0			Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%						
9.			0									
10.		al Cover:										
Не	erb Stratum 50% of Total Co		<u>22</u> 20%	of Total Cover	: 4.4	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)						
1.			5		OBL	Problematic Hydrophytic Vegetation (Explain)						
2.					FAC	Indicators of hydric soil and wetland hydrology must						
3.			5		FACW	be present, unless disturbed or problematic.						
4.					FAC	Plot size (radius, or length x width)						
5.	Valeriana capitata				FAC	% Cover of Wetland Bryophytes						
6.	Caray nadagarna				FAC FAC	(Where applicable)						
7.	Dada satha an faisid		10		FACW	% Bare Ground						
0	Dodecatneon frigidum		7		FAC	Total Cover of Bryophytes						
8.	•				. ,							
9.	Anemone richardsonii				FACW	Undrankskia						
	Anemone richardsonii Carex saxatilis	al Cover:	0.1		FACW	Hydrophytic Vegetation						
9.	Anemone richardsonii Carex saxatilis	al Cover: ver:37.5	75.1	of Total Cover:		Hydrophytic Vegetation Present? Yes No						

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SOIL Sampling Point: SW13_T120_03

Profile Descripti	ion: (Describe to	the depth ne	eded to docur	nent the in	dicator or con	firm the ab	sence of indic	nators)	· -	10mc. 5W15_1125_05		
Depth		Matrix				ox Featu						
(inches)	Color (m	oist)	%	Color (n	noist)	%	Type ¹	Loc ²	Texture	Remarks		
0-6			100						Fibric Organics			
6-11	7.5YR	2.5/1	100						Silt Loam	Positive alpha alpha dypiridyl rxn		
11-14	10YR	3/3	70	5YR	3/4	30			Silty Clay			
	-											
-	-											
1					2							
*Type: C=Cor	ncentration. D	=Depletion	. RM=Reduc				_		nnel. M=Matrix			
Hydric Soil I	ndicators:				ors for Pro		4	oils:	1			
Histosol or	r Histel (A1)				ka Color Ch		-		 Alaska Gleyed Without Hue 5Y or Redder Underlying Layer 			
Histic Epip					ka Alpine sv	•	•	v	Officerlying Layer Other (Explain in Remark			
	Sulfide (A4)			Alas	ka Redox W	ith 2.5Y F	lue	V	Other (Explain in Remark	3)		
l —	Surface (A12)	2)		³ One i	ndicator of I	nydrophyt	tic vegetatio	on, one prin	nary indicator of wetland h	ydrology,		
Alaska Gle					appropriate							
	eyed Pores (A1	15)		4 Give	details of co	lor chang	e in Remarl	ks				
Restrictive Laye		:							Hadria Cail Breand	? Yes • No O		
Type: _{rock} Depth (inch									Hydric Soil Present	r tes © No C		
, ,	105)											
Remarks:												
Positive alpha a	alpha dypiridyl	I rxn										
HYDROLO	GY											
Wetland Hyd	rology Indic	ators:							Secondary India	cators (two or more are required)		
Primary Indica	itors (any one	is sufficient	t)						Water Stained Leaves (B9)			
	Surface Water (A1)						erial Image	ery (B7)		atterns (B10)		
High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)						hizospheres along Living Roots (C3)		
✓ Saturation (A3)				Marl Deposits (B15)						f Reduced Iron (C4)		
☐ Water Ma					drogen Sulf				☐ Salt Depos			
	Deposits (B2))			y-Season W					Stressed Plants (D1)		
☐ Drift Depo				∐ Ot	her (Explair	in Rema	rks)			ic Position (D2)		
	or Crust (B4)									juitard (D3)		
☐ Iron Depo		`								raphic Relief (D4)		
Field Observa	oil Cracks (B6)							☐ FAC-neutra	ir rest (D3)		
Surface Water		Yes 🖲	No O	D	epth (inches	.). 4						
Water Table P			No O			•		Wotla	nd Hydrology Presen	t? Yes • No O		
Saturation Pre				D	epth (inches	5): 13		Wetiai	na nyarology Presen	ti les 🤄 NO 🔾		
(includes capi		Yes 🕑	No 🔾	D	epth (inches	s): 11						
Describe Recor	ded Data (str	eam gauge,	monitor we	l, aerial p	hotos, previ	ious inspe	ection) if av	ailable:				
Remarks:	Remarks:											
Surface water in rock-filled depressions approx. 20% of area. Positive alpha alpha dypiridyl rxn.												

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