WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough	/City: Matanusk	a-Susitna Borough	Sampling Date:	27-Aug-15
Applicant/Owner: Alaska Energy Authority			Samplin	ig Point: SW	/15_T330_04
Investigator(s): AFW	Landfo	rm (hillside, terrac	e, hummocks etc.):	Swale	
Local relief (concave, convex, none): flat	Slope:	0.0 %/ 0.0	• Elevation:		
Subregion : Interior Alaska Mountains	Lat.:		Long.:	Da	atum: WGS84
Soil Map Unit Name:				fication: PEM1F	
Are climatic/hydrologic conditions on the site typical for this time	of year?	Yes No O	(If no, explain in	-	
	nificantly disturl		ormal Circumstances"		No O
	urally problema		ded, explain any answe	procenti	
SUMMARY OF FINDINGS - Attach site map showin	ng sampling	point locations	, transects, import	ant features, e	etc.
Hydrophytic Vegetation Present? Yes $ullet$ No $igodot$					
Hydric Soil Present? Yes 🔍 No 🔿		Is the Sam	-		
Wetland Hydrology Present? Yes $oldsymbol{igodol}$ No $igodol$		within a W	etland? Yes	s 🖲 No 🔾	
Remarks: recently thermokarsted basin, small remnant perma	frost near surfa	ce near plot			
VEGETATION - Use scientific names of plants. List	all species in	n the plot.			
Α	bsolute Dom	inant Indicator	Dominance Test work	ksheet:	
		cies? Status	Number of Dominant Sp That are OBL, FACW, o		2 (A)
1			Total Number of Domin		<u> </u>
2			Species Across All Stra		<u>2</u> (B)
3			Percent of dominant Sp		
4			That Are OBL, FACW, o	or FAC: <u>1(</u>	<u>00.0%</u> (A/B)
5.			Prevalence Index wor	r ksheet:	
Total Cover:	0		Total % Cover o	of: Multiply b	by:
Sapling/Shrub Stratum 50% of Total Cover: 0	20% of Tota	I Cover:0	OBL Species	<u>62</u> x 1 =	62
1			FACW Species	0 x 2 =	0
2			FAC Species	<u> </u>	9
3			FACU Species	<u>0</u> x 4 =	0
4			UPL Species	0 x 5 =	0
5.			Column Totals:	<u>65</u> (A)	<u>71</u> (B)
6.			Prevalence Index	x = B/A =	1.092
7					
9.			Hydrophytic Vegetation		
9			 Prevalence Index is 		
Total Cover:	0			ptations (Provide s	upporting data in
Herb Stratum_ 50% of Total Cover: 0		al Cover: 0	Remarks or on a se		upporting data in
1. Arctophila fulva	35	✓ OBL	Problematic Hydrop	phytic Vegetation ((Explain)
2. Eriophorum scheuchzeri	15	✓ OBL	¹ Indicators of hydric soil	I and wetland hydro	logy must
3. Carex aquatilis	5	OBL	be present, unless distu	rbed or problematic	
4. Hippuris vulgaris	5	OBL	Plot size (radius, or leng		5x10 m
5. Calamagrostis canadensis	3	FAC FAC	% Cover of Wetland Bry		0
6. Comarum palustre		OBL	(Where applicable)		<u> </u>
7. Epilobium palustre	1	OBL	% Bare Ground		20
8	0		Total Cover of Bryophyt	.es	80
9	0				
	0	L	Hydrophytic		
Total Cover: 50% of Total Cover: 32.	<u>65</u> 20% of Tota	l Cover: 13	Vegetation Present? Y	∕es ● No ◯	
		<u> </u>	•••••••••••••••••••••••••••••••••••••••		
Remarks:					

Depth (inches)		Matrix			licator or con Red	ox Featu				
	Color (mo	oist)	%	Color (m	ioist)	%	Type ¹	Loc 2	Texture	Remarks
0-6			100						Mucky Peat	
6-12			100						Muck	
12-18	5Y	3/1	90	10YR	2/2	10	С	PL	Silt Loam	
Type: C=Conc	centration. D:	=Depletion.	RM=Redu	uced Matrix	² Location	: PL=Por	e Lining. R	C=Root Cha	annel. M=Matrix	
lydric Soil In	dicators:			Indicat	ors for Pro	oblematio	- Hvdric S	oils:		
Histosol or I					ka Color Ch		4	онэ. Г	Alaska Gleved Wit	hout Hue 5Y or Redder
 Histosof of I Histic Epipe 	. ,				ka Alpine sv		,	_	Underlying Layer	nout flue of or Redue.
Hydrogen S					ka Redox W	-	-		Other (Explain in I	Remarks)
Thick Dark	Surface (A12))		3 On a in	listen of	الم الم			to disabase of suc	
Alaska Gley					appropriate				mary indicator of we resent	tland hydrology,
Alaska Redo	. ,			4 Give c	letails of co	lor chang	e in Remarl	/c		
Alaska Gley	ed Pores (A1	5)					e in Reme.			
Restrictive Layer	(if present):									
Type:									Hydric Soil Pre	esent? Yes 🖲 No 🔾
Type: Depth (inche Remarks: ositive reaction	-	ha dipyrido	1						Hydric Soil Pre	esent? Yes 🔍 No 🔾
Depth (inche Remarks: ositive reaction	GY ology Indica ors (any one ater (A1)	ators:			undation Vi	sible on A	erial Image	ry (B7)		esent? Yes (No) ry Indicators (two or more are required) er Stained Leaves (B9) inage Patterns (B10)
Depth (inche Remarks: ositive reaction	GY ology Indica ors (any one ater (A1) r Table (A2)	ators:		🗌 Sp	arsely Vege	etated Cor	-	, , ,	Seconda Wat Drai Oxic	ry Indicators (two or more are required) er Stained Leaves (B9) inage Patterns (B10) lized Rhizospheres along Living Roots (C3
Depth (inche Remarks: ositive reaction	GY ology Indica ors (any one ater (A1) r Table (A2) (A3)	ators:		Sp	arsely Vege arl Deposits	etated Cor (B15)	ncave Surfa	, , ,	Seconda Wat Drai OXic OXic Pres	ry Indicators (two or more are required) er Stained Leaves (B9) inage Patterns (B10) lized Rhizospheres along Living Roots (C3 sence of Reduced Iron (C4)
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Remarks:

C4--positive reaction to alpha, alpha dipyridol. D2--swale.