WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric	Project	_ Borough/	/City:	Matanusk	a-Susitna Borough Sampling Date:11-J	lul-13
Applicant/Owner: Alaska Energy Authority					Sampling Point: SW13_T1	L 26_17
nvestigator(s): SLI, SCB	ide, terrac	e, hummocks etc.): Flat				
ocal relief (concave, convex, none): tusso	cks	Slope:	3.5	% / 2.0	° Elevation: 740	
ubregion : Southcentral Alaska	l at	62.8883	357048	- — 7	Long.: -149.375363697 Datum: \(\)	WGS84
oil Map Unit Name:		02.0000	3070-0		NWI classification: PEM1F	
· -			Von	• No O		
re climatic/hydrologic conditions on the site ty Are Vegetation $\ \square$, Soil $\ \square$, or Hyd		ear? antly disturb			(If no, explain in Remarks.) ormal Circumstances" present? Yes ● N	o O
		y problema			ded, explain any answers in Remarks.)	
	••			`	, ,	
UMMARY OF FINDINGS - Attach si	e map showing s	ampling	point I	ocations	, transects, important features, etc.	
, , ,	es No		1-4	ha Cam	wlad Avaa	
Hydric Soil Present?	es 💿 No 🔾				pled Area etland? Yes ● No ○	
Wetland Hydrology Present? You	es No		Wit	hin a W	etland? fes @ No C	
Remarks: plot includes both saturated and	semi-nerm flooded co	mmunities	uncure	if can dict	inguish on aerial. photo time 1725, #s 1567-69	
resinance plot includes both saturated and	semi-perm nooded co	minumices.	. unsure	ii can uisi	inguish on dendi. photo time 1723, #3 1307-03	
EGETATION - Use scientific names	of plants. List all	species ir	n the p	olot.		
	Absol	ute Domi	inant	Indicator	Dominance Test worksheet:	
Tree Stratum_	% Co			Status	Number of Dominant Species	(4)
1		0			That are OBL, FACW, or FAC: 3	(A)
2		0			Total Number of Dominant Species Across All Strata: 3	(B)
3.		0			Percent of dominant Species	
4		0			That Are OBL, FACW, or FAC: 100.0%	(A/B)
5		0			Prevalence Index worksheet:	
	Total Cover:)			Total % Cover of: Multiply by:	
Sapling/Shrub Stratum 50% of To	otal Cover: 0	20% of Total	Cover:	0	OBL Species6 x 1 =6	
1		0			FACW Species 21 x 2 = 42	2
2.		0			FAC Species71 x 3 =21	3
3.		0			FACU Species 3 x 4 =12	<u> </u>
4.		0			UPL Species <u>0</u> x 5 = <u>0</u>	
5.		0			Column Totals: <u>101</u> (A) <u>27</u>	3 (B)
6.		0				. ,
7		0			Prevalence Index = B/A = 2.703	
8		0			Hydrophytic Vegetation Indicators:	
9		0			✓ Dominance Test is > 50%	
10		0			✓ Prevalence Index is ≤3.0	
F00/ of T	Total Cover:(l Caucan	0	Morphological Adaptations ¹ (Provide supporting	g data in
		20% of Tota			Remarks or on a separate sheet)	
Calamagrostis canadensis			✓	FAC	Problematic Hydrophytic Vegetation (Explain)	
01			✓	FAC	Indicators of hydric soil and wetland hydrology mu- be present, unless disturbed or problematic.	st
		1		FACU	be present, unless disturbed of problematic.	
- Frienkamma sakamakani		1		FAC	Plot size (radius, or length x width) <u>10m</u>	
		$\frac{1}{1}$		OBL FACW	% Cover of Wetland Bryophytes	
6. Senecio triangularis		2		FACU	(Where applicable)	
7. Heracleum maximum8. Carex aquatilis var. dives		5		OBL	% Bare Ground 30	
A ratagraptic latifolia			<u> </u>	FACW	Total Cover of Bryophytes	
•		0			Usalvanhadia	
1()			_		Hydrophytic	
10	Total Cover: 10)1			vegetation	
	Total Cover: 10		Cover:	20.2	Vegetation Present? Yes ● No ○	

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SOIL

Sampling Point: SW13_T126_17

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)

		he depth neede 1atrix	d to document	cument the indicator or confirm the absence of indicators) Redox Features					
Depth (inches)	Color (moi	ist) ⁰	% C	olor (moist)	%	Type ¹	Loc ²	Texture	Remarks
				(,		-77-			
				-					
-					-				
		Depletion. RN		Matrix ² Location				nnel. M=Matrix	
Hydric Soil I	ndicators:		Ir	ndicators for Pr		4	oils:		
	r Histel (A1)		L	Alaska Color C		•		Alaska Gleyed Without Hunderlying Layer	ue 5Y or Redder
Histic Epip				Alaska Alpine s	•	,		· - ·	
Hydrogen	Sulfide (A4)			Alaska Redox \	Nith 2.5Y F	lue	✓	Other (Explain in Remark	(S)
	c Surface (A12)		3	One indicator of	hydrophyt	ic voqetatio	n one nrim	nary indicator of wetland h	vdralogy
Alaska Gle	eyed (A13)			nd an appropria					ydi ology,
Alaska Red	,		4	Civa dataila af a	alau ahana	. in Domoule			
Alaska Gle	eyed Pores (A15	5)		Give details of o	olor change	e III Kelliark	5		
Restrictive Laye	er (if present):								
Type:								Hydric Soil Present	? Yes 🏵 No 🔾
Depth (inch	nes):								
HYDROLO	GY								
Wetland Hyd	rology Indica	tors:						Secondary Indi	cators (two or more are required)
Primary Indica	itors (any one is	s sufficient)						Water Stair	ned Leaves (B9)
✓ Surface W	Vater (A1)			Inundation V	isible on A	erial Imager	y (B7)	Drainage P	atterns (B10)
High Wate	er Table (A2)			Sparsely Veg	etated Con	cave Surfac	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)
Saturation	n (A3)			Marl Deposit	s (B15)			Presence o	f Reduced Iron (C4)
☐ Water Ma	rks (B1)			Hydrogen Su	Ifide Odor	(C1)		☐ Salt Depos	its (C5)
Sediment	Deposits (B2)			Dry-Season \	Water Table	e (C2)		Stunted or	Stressed Plants (D1)
Drift Depo	osits (B3)			Other (Expla	in in Rema	rks)		Geomorphi	ic Position (D2)
Algal Mat	or Crust (B4)							Shallow Aq	uitard (D3)
Iron Depo	osits (B5)							Microtopog	raphic Relief (D4)
Surface S	oil Cracks (B6)							✓ FAC-neutra	l Test (D5)
Field Observa	ations:								
Surface Water	r Present?	Yes 🕑	No \bigcirc	Depth (inche	es): 3				
Water Table F	Present?	Yes 🔾	No 💿	Depth (inche	es):		Wetlan	nd Hydrology Presen	t? Yes 💿 No 🔾
Saturation Pre		Yes \bigcirc	No •	Depth (inche	es):				
		am gauge, mo	onitor well, a	erial photos, pre	vious inspe	ction) if ava	ilable:		
Remarks:									

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