WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site:

roject/Site: Susitna-Watana Hydr	oelectric Project	E	Borough/City: Matanuska-Susitna Borough Sampling Date: 08-Aug-12				
oplicant/Owner: Alaska Energy A	uthority		Sampling Point: SW12_T44_51				
vestigator(s): SLI, KMK	· · · · · · · · · · · · · · · · · · ·	side, terrac	e, hummocks etc.): Terrace				
ocal relief (concave, convex, none):	flat		Slope: 0.0				
·		L of :					
bregion : Interior Alaska Mountair	19	∟al -	0∠.009304911	0			
il Map Unit Name:				● No ○	NWI classification: PSS1B		
	, or Hydrology	significantly naturally proving sam	y disturbed? roblematic?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes No eded, explain any answers in Remarks.) Iormal Circumstances" present? Yes No No Iormal Circumstances" present? Yes No Iormal Circumstances Iormal Circumstance Iorma		
Hydrophytic Vegetation Preser	nt? Yes • No C		Is the Sampled Area				
Hydric Soil Present?			wi	thin a W	etland? Yes ● No ○		
Wetland Hydrology Present?	Yes No) 					
	of ponds and emergent	ist all spe	with saturated	l soils and r	entative of shrubby signature in aerials. level shrubby near surface water table. Dominance Test worksheet:		
Tree Stratum		Absolute % Cover		Indicator Status	Number of Dominant Species		
1.		0			That are OBL, FACW, or FAC:4 (A)		
2.		0			Total Number of Dominant Species Across All Strata: 5 (B)		
3		0			Percent of dominant Species		
4.		0			That Are OBL, FACW, or FAC: 80.0% (A/B)		
5.		0			Prevalence Index worksheet:		
	Total Cover	r: <u>0</u>			Total % Cover of: Multiply by:		
Sapling/Shrub Stratum	50% of Total Cover:	0	OBL Species 0 x 1 = 0				
1. Betula nana		10		FAC	FACW Species 28 x 2 = 56		
Betula glandulosa			· •	FAC	FAC Species 83 x 3 = 249		
2 Vassinium uliainasum			. V	FAC	FACU Species 10 x 4 = 40		
4 Chirona atawanii		- 25 5		FACU	UPL Species 0 x 5 = 0		
		- <u>- 3</u> - 25	<u> </u>	FACW			
6. Picea glauca	3		FACU	Column Totals: <u>121</u> (A) <u>345</u> (B)			
7. Picea mariana	- 3		FACW	Prevalence Index = B/A = 2.851			
Empetrum nigrum		10		FAC	Hydrophytic Vegetation Indicators:		
0 Vaccinium vitis idaea		3		FAC	✓ Dominance Test is > 50%		
10.					✓ Prevalence Index is ≤3.0		
Herb Stratum	Total Cover 50% of Total Cover:			: 22.8	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
Carex bigelowii		5	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)		
O Corrus considerais			<u></u>	FACU	¹ Indicators of hydric soil and wetland hydrology must		
3.		0			be present, unless disturbed or problematic.		
4					Plot size (radius, or length x width)		
5		•			% Cover of Wetland Bryophytes		
6		0			(Where applicable)		
7.					% Bare Ground		
8.					Total Cover of Bryophytes 95		
9.							
10	Total Cover		Hydrophytic Vegetation				
		r: 7			veuetation		

US Army Corps of Engineers Alaska Version 2.0 SOIL Sampling Point: SW12_T44_51

	on: (Describe to t	the depth nee	eded to docume	nt the in		firm the abs		cators)				
Depth (inches)	Color (mo		%	Color (n		%	Type ¹	_Loc_2	Texture	Remarks		
0-3	00101 (10	ist,	70	COIC. (ioiacj	_/•	турс	200	Fibric Organics	-		
3-4									Hemic Organics			
4-7									Sand	well graded and w 200/ fine gravel and so		
	10)/5	4/0.5								well-graded sand w 20% fine gravel and co		
7-10	10YR	4/3.5							Sandy Loam			
10-16	2.5Y	4/3		10YR	4/6				Silt Loam	small pockets of 10YR6/3 silt, possibly teph		
¹Type: C=Con	centration. D=	Depletion.					_		nnel. M=Matrix			
Hydric Soil Ir	ndicators:		1	_	ors for Pro		4	oils:	_			
Histosol or	Histel (A1)			Alas	ka Color Cha	ange (TA4	1)	☐ Alaska Gleyed Without Hue 5Y or Redder Underlying Layer				
Histic Epipe	edon (A2)		Ĺ	Alaska Alpine swales (TA5)								
Hydrogen :	Sulfide (A4)		Ŀ	✓ Alas	ka Redox W	ith 2.5Y H	lue		Other (Explain in Remark	(S)		
Thick Dark	Surface (A12)			3 One :	ndiantau of h	o dean both	ia vaaatatia		nam, indicator of watland b	dvologu		
Alaska Gley					appropriate				nary indicator of wetland h esent	iyarology,		
Alaska Red	lox (A14)					·	•					
	yed Pores (A15	5)		*Give	details of col	or change	e in Kemark	· ·				
Restrictive Laye	r (if present):											
Type:									Hydric Soil Present	? Yes ● No O		
Depth (inch	es):											
HYDROLO	GY											
Wetland Hydr	ology Indica	tors:							Secondary Indi	cators (two or more are required)		
Primary Indicat	tors (any one i	s sufficient)							Water Stai	ned Leaves (B9)		
Surface W	` ,			In	undation Vis	sible on A	erial Image	ry (B7)	☐ Drainage F	Patterns (B10)		
✓ High Wate	` ,				arsely Vege		cave Surfa	ce (B8)		hizospheres along Living Roots (C3)		
✓ Saturation	` '			∐ Ма	arl Deposits	(B15)			_	of Reduced Iron (C4)		
Water Mar					drogen Sulf				☐ Salt Depos			
	Deposits (B2)			_	y-Season W					Stressed Plants (D1)		
☐ Drift Depo				☐ Ot	her (Explain	in Remar	rks)			ic Position (D2)		
	or Crust (B4)									quitard (D3)		
☐ Iron Depo	. ,									graphic Relief (D4)		
	oil Cracks (B6)								☐ FAC-neutra	al Test (D5)		
Field Observa		V ()	No •	_								
Surface Water				De	epth (inches):						
Water Table P	resent?	Yes 💿	No \bigcirc	De	epth (inches): 10		Wetla	nd Hydrology Presen	t? Yes • No O		
Saturation Pre (includes capil		Yes	No \bigcirc	De	epth (inches): 10						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												

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