WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydr	oelectric Project		Borough/City	/: Matanusk	a-Susitna Borough Sampling Date	e:30-Aug-15		
Applica	nt/Owner: Alaska Energy A	uthority				Sampling Point:	SW15_T342_11		
nvestic	gator(s): AFW	•		Landform (hillside, terrac	e, hummocks etc.): Flat			
- ∟ocal re	elief (concave, convex, none):	hummocky		Slope: 1	.7 % / 1.0	° Elevation:			
Subrea	ion: Interior Alaska Mountair		Lat.:			 Long.:	Datum: WGS84		
_	p Unit Name:	15							
	-			o V	es No	NWI classification: PSS	1/4B		
Are V	natic/hydrologic conditions on egetation , Soil egetation , Soil egetation , Soil	, or Hydrology , or Hydrology	signification	ntly disturbed?	? Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yeaded, explain any answers in Remarks s, transects, important features	,		
	Hydrophytic Vegetation Prese	nt? Yes •	No O						
	Hydric Soil Present?		No O		Is the Sampled Area				
	Wetland Hydrology Present?		No O	within a Wetland? Yes ● No ○					
Rema	, ,,	163 🕒	110 🔾						
/EGE	TATION -Use scientific	names of plan	ts. List all s		<u> </u>	Dominance Test worksheet:			
Tree	Stratum		% Cov			Number of Dominant Species	4 (A)		
1.	Picea glauca		10	✓	FACU	That are OBL, FACW, or FAC:	4(A)		
2.			0			Total Number of Dominant Species Across All Strata:	6 (B)		
3.			0			Percent of dominant Species			
4.			0			That Are OBL, FACW, or FAC:	66.7% (A/B)		
5.			0			Prevalence Index worksheet:			
		Total	Cover: <u>10</u>	_		Total % Cover of: Multip	ly by:		
Sapl	ling/Shrub Stratum	50% of Total Cove	r: <u>5</u> 20	0% of Total Cov	ver:2	OBL Species 0 x 1 =	= 0		
1.	Vaccinium uliginosum		20	✓	FAC	FACW Species 57 x 2 =	= 114		
	Picea glauca				FACU	FAC Species 85 x 3 =			
3.	Rhododendron tomentosum				FACW	FACU Species 25 x 4 =			
4.	Manadai				FAC	UPL Species 0 x 5 =			
	Calix autabra				FACW	Column Totals: 167 (A)			
					FAC	Column Totals: <u>167</u> (A)	<u>469</u> (B)		
	Picea mariana				FACW	Prevalence Index = B/A =	2.808		
8.	Salix pseudomonticola				FAC	Hydrophytic Vegetation Indicators:			
	Betula glandulosa		<u> </u>		FAC	✓ Dominance Test is > 50%			
	Arctous ruber				FAC	✓ Prevalence Index is ≤3.0			
Herl	b Stratum_	Total 50% of Total Cove	Cover: 95 er: 47.5 2		ver: 19	Morphological Adaptations (Provice Remarks or on a separate sheet)	le supporting data in		
1.	Carex bigelowii		35	✓	FAC	Problematic Hydrophytic Vegetation	າ (Explain)		
	Dubus shamesmania		10		FACW	¹ Indicators of hydric soil and wetland hy	drology must		
	A		7		FACW	be present, unless disturbed or problem	atic.		
	Data aita a faiscist				FACW	Plot size (radius, or length x width)	10		
5.					-	% Cover of Wetland Bryophytes	_10m		
_			0			(Where applicable)			
7.			0			% Bare Ground	_25		
8.			0			Total Cover of Bryophytes	70		
9.				_ =					
10.			0	_		Hydrophytic			
			Cover: <u>62</u>			Vegetation)		
		50% of Total Cove	r: <u>31</u> 20	0% of Total Cov	ver: <u>12.4</u>	Present? Yes • No	<i></i>		
Rema	arks: vaccinium oxycoccos 2 ^t	%							

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SOIL Sampling Point: SW15 T342 11

Profile Descript	ion: (Describe to	the depth nec	eded to docume	ent the ind	licator or con	firm the abs	sence of indic	rators)	· -	Tome: 51715_15-72_11		
Depth		Matrix				ox Featu						
(inches)	Color (mo	oist)	%	Color (m	oist)	%	Type ¹	_Loc_2	Texture	Remarks		
0-3			100						Peat			
3-12			100						Mucky Peat			
12-19	5GY	4/1	90	2.5Y	4/4	10	С	PL	Silty Clay Loam			
						-		-				
-			———			-		-	-			
Type: C=Co	ncentration. D	=Depletion.	RM=Reducer	 d Matrix	2 Location	: PL=Pore	E Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators			Indicat	ors for Pro	hlematic	- Hydric S	nils: ³				
	r Histel (A1)				ka Color Cha		4	J.1.3.	Alaska Gleyed Without Hu	ie 5V or Redder		
✓ Histic Epip	` ,			_	ka Alpine sv		-		Underlying Layer			
_	Sulfide (A4)		Ī		ka Redox W	•	•		Other (Explain in Remark	s)		
_ , ,	Surface (A12)										
✓ Alaska Gle	eyed (A13)	,			ndicator of happropriate				nary indicator of wetland h	ydrology,		
✓ Alaska Red	dox (A14)							•	ESCIT			
Alaska Gle	eyed Pores (A1	5)		4 Give d	letails of col	lor change	e in Remark	(S				
Restrictive Laye	er (if present):											
Type: silty	clay loam, fro	st							Hydric Soil Present?	? Yes 💿 No 🔾		
Depth (inch	nes): 12, 19								-			
Remarks:						·						
Permafrost enc	ountered at 19	inches										
HYDROLO	GΥ											
Wetland Hyd		tors:							Secondary Indic	cators (two or more are required)		
Primary Indica			,							ned Leaves (B9)		
Surface V	Vater (A1)			☐ Inເ	undation Vis	sible on A	erial Image	ry (B7)				
✓ High Water Table (A2) Sparsely Vegetate						_		Oxidized R	nizospheres along Living Roots (C3)			
✓ Saturation (A3)					arl Deposits				Presence of	f Reduced Iron (C4)		
☐ Water Ma		Hydrogen Sulfide Odor (C1)					Salt Deposi	ts (C5)				
Sediment	Deposits (B2)			Dr.	y-Season W	/ater Table	e (C2)		Stunted or	Stressed Plants (D1)		
Drift Depo	osits (B3)			Oth	Other (Explain in Remarks)				Geomorphi	c Position (D2)		
	or Crust (B4)								Shallow Aq	` '		
Iron Depo	osits (B5)								✓ Microtopog	raphic Relief (D4)		
	oil Cracks (B6)							- I	FAC-neutra	l Test (D5)		
Field Observa			(2)									
Surface Water	r Present?		No 💿	De	epth (inches	;):						
Water Table F		Yes 🕑	No O	De	epth (inches	s): 8		Wetla	nd Hydrology Present	t? Yes ● No O		
Saturation Pre (includes capi		Yes •	No O	De	epth (inches	s): 5						
Describe Recor	ded Data (stre	am gauge, i	monitor well,	aerial pl	notos, previ	ious inspe	ction) if ava	ailable:				
Remarks:												
D3silty clay lo	nam and frost	D4humme	ncks									
D3 Silty clay it	dili dila 1103t.	D+ Hullilli	CKS									
1												

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