WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydr	oelectric Project		Borough/City: Matanuska-Susitna Borough Sampling Date: 30-Jul-13 Sampling Point: SW13_T156_03						
Applica	nt/Owner: Alaska Energy A	uthority								
nvestig	gator(s): BAB			Landform (hi	lside, terrac	e, hummocks etc.): drainage				
_ocal r	elief (concave, convex, none):	concave		Slope: 17.6 % / 10.0 ° Elevation: 1087						
Subrea	ion : Interior Alaska Mountair	ne	l at ·	63.2941428758 Long.: -148.367274273 Datum: WGS84						
_	p Unit Name:	13	Latin	00.20414207						
	-			0 V	● No ○	NWI classification: Upland	1			
Are V	natic/hydrologic conditions on egetation , Soil egetation , Soil	, or Hydrology	significant naturally p	tly disturbed? problematic?	Are "N (If nee	(If no, explain in Remarks.) Normal Circumstances" present? Yes eded, explain any answers in Remarks.) s, transects, important features,				
	Hydrophytic Vegetation Prese	nt? Yes • No	C	_						
	Hydric Soil Present?	Yes O No	lacksquare	Is the Sampled Area						
	Wetland Hydrology Present?	Yes No	\supset	W	within a Wetland? Yes ○ No ●					
Rem										
/EGE	TATION -Use scientific	names of plants. I	ist all sp			Dominance Test worksheet:				
Tree	Stratum		% Cover	r Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC:	4 (A)			
1.			0			Total Number of Dominant				
2.			0	_		Species Across All Strata:	4 (B)			
3.			0			Percent of dominant Species				
4.			0	- 📙		That Are OBL, FACW, or FAC: 1	100.0% (A/B)			
5.			0	_		Prevalence Index worksheet:				
		Total Cove		_		Total % Cover of: Multiply	by:			
Sap	ling/Shrub Stratum	50% of Total Cover:	0 20%	% of Total Cover	0	OBL Species0 x 1 =	0			
1.	Salix pulchra		70	✓	FACW	FACW Species 86 x 2 =	172			
2.	Vaccinium uliginosum		20	✓	FAC	FAC Species <u>34</u> x 3 =	102			
3.	Salix barclayi		5		FAC	FACU Species 9 x 4 =	36			
4.	Spiraea stevenii		3	_	FACU	UPL Species 0 x 5 =	0			
5.	Ledum decumbens		1	_	FACW	Column Totals: 129 (A)	310 (B)			
6.				- 📙		Prevalence Index = B/A =	2.403			
7.				- 📙		Trevalence index = B/A =	2.403			
8.			0	- 📙		Hydrophytic Vegetation Indicators:				
				-		Dominance Test is > 50%				
10.			0	_		✓ Prevalence Index is ≤3.0				
Her	b Stratum_	Total Cove 50% of Total Cover:			r: <u>19.8</u>	Morphological Adaptations (Provide s Remarks or on a separate sheet)				
	Sanguisorba canadensis		15	_	FACW	Problematic Hydrophytic Vegetation ¹				
2.	Calamagrostis canadensis			-	FAC	¹ Indicators of hydric soil and wetland hydro	ology must			
3.	Geranium erianthum			- 📙	FACU	be present, unless disturbed or problematic	C.			
4.	Festuca altaica			-	FAC	Plot size (radius, or length x width)	_10m			
5.	Chamerion angustifolium		- 1	-	FACU	% Cover of Wetland Bryophytes				
6.	Mertensia paniculata		$-\frac{1}{1}$	- 📙	FACU FAC	(Where applicable)				
7.	Polemonium acutiflorum Swertia perennis			- 📙	FACW	% Bare Ground				
8.	Swertia perennis Stellaria longifolia		$-\frac{0.1}{0.1}$	- —	FAC	Total Cover of Bryophytes	_10			
9.	Carex bigelowii		$-\frac{0.1}{0.1}$		FAC	Hardward at				
10.	Caren Digelowii	Total Cove		-	.,,с	Hydrophytic Vegetation				
			Present? Yes No							
Rem	arks: acodel 0.1, rubarc 4	50% of Total Cover:			6.06	Present? Yes • No				

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SOIL Sampling Point: SW13_T156_03

									110 544 15_1 150_65		
Profile Descripti		the depth ne	eded to docu	ment the indicator or co	nfirm the ab		ators)				
Depth (inches)	Color (mo			Color (moist)	%	Type ¹	_Loc_2	Texture	Remarks		
0-3	COIOI (IIIC	ist)	100	Color (Illoist)		Туре	LUC	Fibric Organics	- Italiania		
3-4	10YR	 2/2	100					Silt Loam			
4-10	10YR	3/2	100					Loamy Sand	buried oi at 4. few subangular gravel and co		
10-13	10YR	3/3	100					Loamy Sand	-		
									buried oi at 10. subrounded gravel and cob		
13-20	10YR	3/2	100					Sandy Loam	buried oi at 13. subrounded gravel and cob		
-											
¹Type: C=Cor	ncentration. D=	=Depletion.	RM=Reduc	ced Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	c Hydric So	oils: ³				
Histosol or	Histel (A1)			Alaska Color Ch	nange (TA	4)	Alaska Gleyed Without Hue 5Y or Redder				
Histic Epip	edon (A2)			Alaska Alpine s	wales (TA	5)		Underlying Layer			
Hydrogen	Sulfide (A4)			☐ Alaska Redox V	Vith 2.5Y	Hue		Other (Explain in Remark	s)		
	Surface (A12))		³ One indicator of	hydronhy	tic vegetatio	n one prim	nary indicator of wetland h	nydrology		
Alaska Gle				and an appropriat					iyal ology,		
Alaska Red	` '	-\		4 Give details of co	olor chang	e in Remark	S				
	yed Pores (A1										
Restrictive Laye	er (if present):										
Type:	200):							Hydric Soil Present	? Yes○ No •		
Depth (inches):											
Remarks:											
no hydric soil indicators											
HYDROLO											
Wetland Hydi									cators (two or more are required)		
Primary Indica		is sufficient	<u> </u>	Inundation V	icible on A	orial Imago	a. (P7)	(B7) Water Stained Leaves (B9) Drainage Patterns (B10)			
☐ Surface Water (A1) ☐ High Water Table (A2)				☐ Inundation V☐ Sparsely Veg		_		Oxidized Rhizospheres along Living Roots (C3)			
Saturation (A3)				Marl Deposits		ncave Surrac	.e (bo)		of Reduced Iron (C4)		
☐ Water Ma				Hydrogen Sulfide Odor (C1)				Salt Deposits (C5)			
Sediment	Deposits (B2)			Dry-Season Water Table (C2)				Stunted or	Stressed Plants (D1)		
☐ Drift Depo	osits (B3)			Other (Explain in Remarks)				✓ Geomorph	ic Position (D2)		
Algal Mat	or Crust (B4)							Shallow Ac	quitard (D3)		
Iron Depo	` ,								graphic Relief (D4)		
	oil Cracks (B6)							✓ FAC-neutra	al Test (D5)		
Field Observa		Vac (No •	Death Code							
Surface Water				Depth (inche	:s):						
Water Table P			No 💿	Depth (inche	s):		Wetlar	nd Hydrology Presen	t? Yes • No O		
Saturation Pre (includes capil		Yes 🔾	No 💿	Depth (inche	s):						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											
no wetland hyd	Irology indicate	ors									

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