WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/C	City: N	/latanusk	a-Susitna Borough Sampling Date: 05-Aug-13		
Applica	int/Owner: Alaska Energy Authority					Sampling Point: SW13_T113_02		
Investig	gator(s): WAD, RWM		Landforn	n (hillsid	le, terrac	e, hummocks etc.): saddle		
•	elief (concave, convex, none): concave		Slope:		6/ 2.6	·		
	ion : Interior Alaska Mountains	l at ·	_ · . 62.77494	101020		Long.: -147.6493119 Datum: NAD83		
_		491929						
	p Unit Name:			Yes	No.	NWI classification: Upland		
	natic/hydrologic conditions on the site typical for this ti	•				(If no, explain in Remarks.) Ormal Circumstances" present? Yes ● No ○		
		-	tly disturbe			omar on cametanece procent:		
Are v	egetation 🔲 , Soil 🔲 , or Hydrology 🔲 ı	naturally	problemati	IC?	(If nee	eded, explain any answers in Remarks.)		
SUM	MARY OF FINDINGS - Attach site map show	wing sa	mpling p	oint lo	cations	s, transects, important features, etc.		
	Hydrophytic Vegetation Present? Yes ● No C)		1. 41		1.14		
	Hydric Soil Present? Yes O No •)				pled Area etland? Yes ○ No ●		
	Wetland Hydrology Present? Yes O No •			with	in a W	etland? Yes O No 🖲		
Rema	arks: forb rich moist meadow in saddle along ridgeline							
VEGE	TATION - Use scientific names of plants. Li	st all so	ecies in	the pl	ot.			
		Absolut		nant Ir		Dominance Test worksheet:		
Tree	e Stratum_	% Cove			Status	Number of Dominant Species		
1.		0				That are OBL, FACW, or FAC:3(A)		
2.		0				Total Number of Dominant Species Across All Strata: 4 (B)		
3.		_				Percent of dominant Species		
4.		0				That Are OBL, FACW, or FAC: 75.0% (A/B)		
5.		0				Prevalence Index worksheet:		
	Total Cover	: <u> </u>	_			Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20	% of Total C	Cover:	0	OBL Species 1 x 1 = 1		
1.	Empetrum nigrum	15	~	/	FAC	FACW Species 5 x 2 = 10		
2.	Vaccinium vitis-idaea	10		_	FAC	FAC Species 64 x 3 = 192		
3.	Cassiope tetragona	10	_	<u> </u>	FACU	FACU Species 19 x 4 = 76		
4.	Dryas ajanensis	5			UPL	UPL Species <u>6.1</u> x 5 = <u>30.5</u>		
5.	Loiseleuria procumbens	5			FACU	Column Totals:95.1 (A)309.5 (B)		
6.	Salix polaris	5			FACW			
7.	Salix reticulata	4			FAC	Prevalence Index = B/A = 3.254		
8.		0				Hydrophytic Vegetation Indicators:		
9.		0				✓ Dominance Test is > 50%		
10.		0	_	┚ .		Prevalence Index is ≤3.0		
	Total Cover			•		☐ Morphological Adaptations ¹ (Provide supporting data in		
Her	b Stratum 50% of Total Cover:) of Total –	_	10.8	Remarks or on a separate sheet)		
1.	Festuca altaica				FAC	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Carex bigelowii	5 3	_		FAC	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
3.	Carex microchaeta	- 3	-		FACU	be present, unless disturbed of problematic.		
4.	Artemisia norvegica Anthoxanthum monticola ssp. alpinum	2	-		FACU UPL	Plot size (radius, or length x width)		
5.	Juncus arcticus	1	-		OBL	% Cover of Wetland Bryophytes		
6. 7.	Outron of a control	1	-		FAC	(Where applicable)		
8.	A a a a it a man al a la la la in ii fa ii a ma	4	- F		FAC	% Bare Ground		
9.	Campanula lasiocarpa	1	- F		UPL	Total Cover of Bryophytes		
10.	Antennaria monocephala	0.1			UPL	Hydrophytic		
	Total Covers	_	_	-		Vegetation		
	50% of Total Cover:2			Cover:	8.22	Present? Yes No		
Rem	arks: sibpro 1, cascau .1, genpro .1, sedros 1. dodpo	ul1.						
		, =-						

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW13_T113_02

	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features						ators)					
Depth (inches)	Color (mo		%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks			
0-1	Color (IIIo	ist)	100	Color (Illoist)		Туре	LUC	Fibric Organics	Noa			
1-3			100					Hemic Organics				
3-12		2/2	100		-			Sand				
3-12		3/3						Janu				
			— –									
					- ——							
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix												
Hydric Soil I	ndicators:			Indicators for Pr	oblemation	c Hydric Sc	oils: ³					
Histosol or	r Histel (A1)			Alaska Color Cl	hange (TA	1)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	Nith 2.5Y F	lue		Other (Explain in Remark	s)			
Thick Dark	Surface (A12)	1		3 One indicator of	i buduan bud	ia vaaatatia		nary indicator of wetland h	udrologu.			
Alaska Gle	eyed (A13)			and an appropriat					ydrology,			
Alaska Red	. ,	->		⁴ Give details of co	olor chang	e in Remark	S					
	yed Pores (A15	·)										
Restrictive Laye	er (if present):											
Type:								Hydric Soil Present?	? Yes ○ No •			
Depth (inch	ies):											
no hydric soil indicators observed												
HYDROLO	GY											
Wetland Hydi	rology Indica	tors:						Secondary Indic	cators (two or more are required)			
Primary Indica	tors (any one i	s sufficient)						Water Stair	ned Leaves (B9)			
Surface Water (A1)				☐ Inundation V	isible on A	erial Imager	y (B7)	Drainage Patterns (B10)				
High Water Table (A2)				Sparsely Veg	etated Cor	ncave Surfac	ce (B8)	Oxidized R	nizospheres along Living Roots (C3)			
Saturation (A3)				Marl Deposits	, ,				f Reduced Iron (C4)			
Water Ma				Hydrogen Su				Salt Deposi				
	Sediment Deposits (B2) Dry-Season Water Table (C2)								Stressed Plants (D1)			
☐ Drift Depo	. ,			U Other (Explain	in in Rema	rks)			c Position (D2)			
	or Crust (B4)							Shallow Aq				
☐ Iron Depo	oil Cracks (B6)							FAC-neutra	raphic Relief (D4)			
Field Observa	• • • • • • • • • • • • • • • • • • • •							TAC-fledua	r rest (D3)			
Surface Water		Yes 〇	No •	Depth (inche	-c):							
Water Table P		Yes O	_	Depth (inche	,		Wetla	nd Hydrology Present	t? Yes ○ No •			
Saturation Pre				. ,	,		Weda	na myarology i resem	i. ics o no o			
(includes capi		Yes O	No •	Depth (inche	:s):							
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Domanica.												
Remarks: no hydrology indicators observed												
The triple stage in the state of the state o												

U.S. Army Corps of Engineers Alaska Version 2.0