WETLAND DETERMINATION DATA FORM - Alaska Region

roject	/Site: Susitna-Watana Hyd	Iroelectric Project		Bo	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 30-Aug-15		
pplica	ant/Owner: Alaska Energy A	Authority					Sampling Point: SW15_T342_06		
vesti	gator(s): AFW			L	andform (hills	side, terrac	e, hummocks etc.): Hillside		
ocal r	relief (concave, convex, none)	hummocky			Slope: 5.2	% / 3.0	° Elevation:		
ubreg	jion: Interior Alaska Mounta	ins	La	at.:			Long.: Datum: WGS84		
_	p Unit Name:			_	NWI classification: Upland				
	matic/hydrologic conditions or	the site typical for this	time of	vear?	Yes (No ○	(If no, explain in Remarks.)		
	regetation , Soil	, or Hydrology		-	disturbed?		lormal Circumstances" present? Yes No		
	regetation , Soil , Soil	, or Hydrology	·	•	blematic?		eded, explain any answers in Remarks.)		
	-			• •		•			
UMI	MARY OF FINDINGS - A	Attach site map sho	owing	sam	pling point	locations	s, transects, important features, etc.		
	Hydrophytic Vegetation Pres	ent? Yes 💿 No	\supset						
	Hydric Soil Present?	Yes O No	ullet		Is	the Sam	pled Area		
	Wetland Hydrology Present?	Yes O No	lacksquare		wi	thin a W	/etland? Yes ○ No ⑥		
Rema	, ,,			hanne	el. channel pre	sently dry	and appears to be inactive/abandoned (i.e., no flow for a		
-0-	number of years)								
EGE	TATION - Use scientific	names of plants.	List al	spe	cies in the p	olot.			
				lute		Indicator	Dominance Test worksheet:		
	e Stratum_		<u> % C</u>	over	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 5 (A)		
1.							Total Number of Dominant		
2.							Species Across All Strata:6(B)		
3.							Percent of dominant Species That Are OBL, FACW, or FAC: 83,3% (A/B)		
4. 5.							That Are OBL, FACW, or FAC: 83.3% (A/B)		
Э.		Total Cove		0			Prevalence Index worksheet:		
e	ling/Shrub Stratum	50% of Total Cover:			of Total Cover:	0	Total % Cover of: Multiply by:		
Зар	mig/Sinub Stratum	30% of Total Cover.		2070			OBL Species 0 x 1 = 0		
	Alnus viridis ssp. crispa			35	✓	FAC	FACW Species 30 x 2 = 60		
2.	Salix pseudomonticola			30	✓	FAC	FAC Species 84 x 3 = 252 FACU Species 25 x 4 = 100		
3.	Spiraea stevenii			5		FACU			
4. -				5		FACU			
5. c	Linnaea borealis			5		FACU	Column Totals: <u>144</u> (A) <u>437</u> (B)		
6. 7.	Ribes triste Dasiphora fruticosa			1		FAC FAC	Prevalence Index = B/A = 3.035		
7. 8.	Dasipriora iruticosa			0		TAC	Hydrophytic Vegetation Indicators:		
9.				0	ī		Dominance Test is > 50%		
10.				0			☐ Prevalence Index is ≤3.0		
	b Stratum_	Total Cove 50% of Total Cover:		83 20%	of Total Cover:	16.6	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)		
1.	Carex macrochaeta			15	✓	FACW	Problematic Hydrophytic Vegetation (Explain)		
2.	Calamagrostis canadensis			10	✓	FAC	¹ Indicators of hydric soil and wetland hydrology must		
3.	Arctagrostis latifolia			7	✓	FACW	be present, unless disturbed or problematic.		
4.	Cornus canadensis			7	✓	FACU	Plot size (radius, or length x width)5x10m		
5.	Mertensia paniculata			5		FACU	Plot size (radius, or length x width)		
6.	Boykinia richardsonii			5		UPL	(Where applicable)		
7.	Polemonium acutiflorum			3		FAC	% Bare Ground		
	Petasites frigidus			3		FACW	Total Cover of Bryophytes35		
8.				3		FAC			
	Equisetum arvense				1 1	FACU			
8.	Rubus arcticus(IAM)			3		TACO	Hydrophytic		
8. 9.	<u> </u>	Total Cove 50% of Total Cover:		61	of Total Cover:		Hydrophytic Vegetation Present? Yes No		

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SOIL Sampling Point: SW15_T342_06

Profile Descripti	on: (Describe to t	he depth ne	eeded to docu	iment the inc	licator or conf	irm the ab	sence of indic	ators)				
Depth —		latrix		Redox Features		. 2	- <u>-</u> .					
(inches)	Color (moi	st)	<u>%</u> _	Color (m	oist)	<u>%</u>	Type ¹	<u>Loc</u> ²	Texture Hemic Organics	Remarks		
0-4	2.51/		100	10)/D		10						
4-5		4/2	90	10YR	4/4	10	_ <u>C</u>	PL	Silt Loam			
5-9	10YR	4/2	100						Silt Loam	with several thin buried organic layers		
9-10	5YR	3/3	100						Loamy Sand			
10-18	2.5Y	4/2	85	10YR	4/4	15	С	PL	Silt Loam			
										-		
								-	· · · · · · · · · · · · · · · · · · ·			
¹Type: C=Cor		Depletion	. RM=Redu	ced Matrix	² Location:	PL=Por	e Lining. RC	=Root Cha	annel. M=Matrix			
Hydric Soil I	ndicators			Indicat	ors for Pro	blemati	c Hydric So	oils: ³		-		
	Histel (A1)				ka Color Cha		4	, 5.	Alaska Gleved Without H	ue 5V or Redder		
Histic Epip	. ,				ka edidi enk ka Alpine sw		-		☐ Alaska Gleyed Without Hue 5Y or Redder Underlying Layer			
	Sulfide (A4)				ka Redox W	•	•		Other (Explain in Remarks)			
_ ` `	Surface (A12)											
Alaska Gle									mary indicator of wetland h	nydrology,		
Alaska Red				and an	appropriate	landscap	oe position r	nust be pr	resent			
	yed Pores (A15)		4 Give o	letails of col	or chang	e in Remark	S				
Restrictive Laye	or (if precent):											
Type:	i (ii present).								Hydric Soil Present	? Yes ○ No •		
Depth (inch	nes):								nyunc son Present	.: 165 C NO C		
Remarks:												
HYDROLO	GY											
Wetland Hydi	rology Indicat	ors:							Secondary Indi	cators (two or more are required)		
Primary Indica	tors (any one is	sufficien	t)						Water Stai	ned Leaves (B9)		
Surface W	ater (A1)			In	undation Vis	ible on A	erial Image	y (B7)	·			
High Wate	er Table (A2)			☐ Sp	arsely Vege	tated Cor	ncave Surfac	ce (B8)	Oxidized R	thizospheres along Living Roots (C3)		
Saturation					rl Deposits	. ,				of Reduced Iron (C4)		
Water Ma	` '				drogen Sulf				☐ Salt Depos			
	Deposits (B2)				y-Season W					Stressed Plants (D1)		
☐ Drift Depo				∐ Ot	her (Explain	in Rema	rks)			ic Position (D2)		
l	or Crust (B4)									quitard (D3)		
Iron Depo	,									graphic Relief (D4)		
	oil Cracks (B6)							1	✓ FAC-neutra	ar rest (DS)		
Field Observa		Vec	No •	D	nth (inchos	١.						
Surface Water			No 💿		epth (inches	•						
Water Table P				De	epth (inches):		wetia	nd Hydrology Presen	it? Yes ○ No •		
Saturation Pre (includes capil		Yes C	No 💿	De	epth (inches):						
Describe Record	ded Data (strea	ım gauge,	monitor w	ell, aerial p	hotos, previ	ous inspe	ection) if ava	ilable:				
Remarks:												

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