WETLAND DETERMINATION DATA FORM - Alaska Region

t/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 22-Aug-15		
ant/Owner: Alaska Energy Authority				Sampling Point: SW15_T210_09		
		Landform (hills	side, terrac			
		•				
	Lat:			Long.: Datum: WGS84		
	Lat					
·		- 14	<u> </u>	NWI classification: Upland		
	-			(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○		
	-			omai on cametaness procent		
/egetation	aturally pi	roblematic?	(If nee	eded, explain any answers in Remarks.)		
MARY OF FINDINGS - Attach site map show	ving san	npling point	locations	s, transects, important features, etc.		
Hydrophytic Vegetation Present? Yes No O						
, , , , ₀		Is	the Sam	iled Area		
		wi	thin a W	Vetland? Yes ○ No •		
arks. Adandoned river terrace.						
FTATION - Use scientific names of plants Lie	st all sne	cies in the i	nlot			
2 3 Control of Plants. Li	oc an spe	.cics iii tiic	piot.	Dominance Test worksheet:		
o Stratum	Absolute			Number of Dominant Species		
				That are OBL, FACW, or FAC: 4 (A)		
				Total Number of Dominant		
				Species Across All Strata:6 (B)		
				Percent of dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)		
	0					
Total Cover:	35			Prevalence Index worksheet: Total % Cover of: Multiply by:		
oling/Shrub Stratum 50% of Total Cover: 1	7.5 20%	of Total Cover:	7	OBL Species $0 \times 1 = 0$		
			-	FACW Species 1.1 x 2 = 2.200		
Detule alandulese				FAC Species 61 x 3 = 183		
				FACU Species 40.1 x 4 = 160.4		
Vaccinium vitia idada				UPL Species 0.1 x 5 = 0.500		
				Column Totals: <u>102.3</u> (A) <u>346.1</u> (B)		
•		П		Prevalence Index = B/A = 3.383		
·				Hydrophytic Vegetation Indicators:		
	0			✓ Dominance Test is > 50%		
	0		UPL	☐ Prevalence Index is ≤3.0		
	35.2			Morphological Adaptations (Provide supporting data in		
rb Stratum 50% of Total Cover:		6 of Total Cover	7.04	Remarks or on a separate sheet)		
Calamagrostis canadensis	30	✓	FAC	Problematic Hydrophytic Vegetation (Explain)		
			FACW	¹ Indicators of hydric soil and wetland hydrology must		
Rubus chamaemorus	1		IACVV	indicators of flydric soil and wedand flydrology flust		
Dubus shames and	1		FAC	be present, unless disturbed or problematic.		
Rubus chamaemorus	1			be present, unless disturbed or problematic.		
Rubus chamaemorus Cornus suecica Chamaenorion angustifalium	0.1		FAC	be present, unless disturbed or problematic. Plot size (radius, or length x width)		
Rubus chamaemorus Cornus suecica Chamaenerion angustifolium	0.1		FAC	be present, unless disturbed or problematic.		
Rubus chamaemorus Cornus suecica Chamaenerion angustifolium	0.1 0 0 0		FAC	be present, unless disturbed or problematic. Plot size (radius, or length x width) % Cover of Wetland Bryophytes		
Rubus chamaemorus Cornus suecica Chamaenerion angustifolium	1 0.1 0 0 0		FAC	Plot size (radius, or length x width) % Cover of Wetland Bryophytes (Where applicable)		
Rubus chamaemorus Cornus suecica Chamaenerion angustifolium	0.1 0 0 0 0 0		FAC	be present, unless disturbed or problematic. Plot size (radius, or length x width)		
Rubus chamaemorus Cornus suecica Chamaenerion angustifolium	0.1 0 0 0 0 0 0		FAC	be present, unless disturbed or problematic. Plot size (radius, or length x width)		
Rubus chamaemorus Cornus suecica Chamaenerion angustifolium	0.1 0 0 0 0 0 0 0		FACU	be present, unless disturbed or problematic. Plot size (radius, or length x width) 10m		
	ant/Owner: Alaska Energy Authority gator(s): WAD, SCB relief (concave, convex, none): hummocky gion: Interior Alaska Mountains ap Unit Name: matic/hydrologic conditions on the site typical for this tir //egetation	ant/Owner: Alaska Energy Authority ggator(s): WAD, SCB relief (concave, convex, none): hummocky gion: Interior Alaska Mountains ap Unit Name: matic/hydrologic conditions on the site typical for this time of year //egetation	ant/Owner: Alaska Energy Authority gator(s): WAD, SCB	ant/Owner: Alaska Energy Authority gator(s): WAD, SCB		

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SOIL Sampling Point: SW15_T210_09

	on: (Describe to t	the depth ne	eded to docur	nent the inc		firm the abs		ators)				
(inches)	Depth (inches) Color (moist) %		%	Color (moist) %		%	Type ¹ Loc		Texture	Remarks		
0-4									Fibric Organics			
4-9	2.5Y	3/3	90	10YR	3/3	10	С	PL	Sandy Loam	organic inclusions		
9-16	2.5Y	3/2	80	10YR	3/4	20	C	М	Loamy Sand	organic inclusions		
		,								0.94		
¹Type: C=Con		Depletion.	RM=Reduce	ed Matrix	² Location	: PL=Pore	Lining. RC	=Root Cha	annel. M=Matrix			
Hydric Soil In	ndicators:			Indicat	ors for Pro	blematic	Hydric So	oils: ³				
Histosol or	Histel (A1)			Alas	ka Color Ch	ange (TA4	· · · · · · · · · · · · · · · · · · ·		Alaska Gleyed Without Hue 5Y or Redder			
Histic Epipe	edon (A2)			Alas	ka Alpine sv	vales (TA5	5)	_	Underlying Layer			
Hydrogen :	Sulfide (A4)			Alas	ka Redox W	ith 2.5Y H	lue	L	Other (Explain in Remark	cs)		
☐ Thick Dark	Surface (A12)			30						A. J.		
Alaska Gley	, , ,			and an	appropriate	nyaropnyt e landscap	ic vegetatio e position r	n, one prir nust be pr	mary indicator of wetland hesent	iyarology,		
Alaska Red					letails of co	-	-	-				
☐ Alaska Gley	yed Pores (A15)		- Give t	letails of co	ior change	e iii Kemark	.5				
Restrictive Laye	r (if present):											
Type:									Hydric Soil Present	? Yes ○ No •		
Depth (inch	es):											
HYDROLO	GY											
Wetland Hydr	ology Indica	tors:							Secondary Indi	cators (two or more are required)		
Primary Indicat	tors (any one is	s sufficient)						Water Stained Leaves (B9)			
Surface W	ater (A1)			In	undation Vis	sible on A	erial Imager	ry (B7)		Patterns (B10)		
	High Water Table (A2) Sparsely Vegetated Concave Surface (B8)								hizospheres along Living Roots (C3)			
Saturation	. ,			∐ Ma	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 (Explair	n in Remai	rks)			ic Position (D2)		
Iron Depos	or Crust (B4)									quitard (D3) graphic Relief (D4)		
	oil Cracks (B6)								_	al Test (D5)		
Field Observa									TAC fleduc	ir rest (D3)		
Surface Water		Yes 〇	No 💿	De	epth (inches	5):						
Water Table P			No 💿			•		Wetla	nd Hydrology Presen	t? Yes ○ No •		
Saturation Pre		_	_	De	epth (inches	s):		Weda	na rryarology r resen	103 0 110 0		
(includes capill		Yes \bigcirc	No 💿	De	epth (inches	s):						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												
no wetland hydrology indicators												

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