WETLAND DETERMINATION DATA FORM - Alaska Region

-rojec	t/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	ka-Susitna Borough Sampling Date: 22-Jun-12			
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW12_T25_02			
	gator(s): JGK	ce, hummocks etc.): Hillside						
	relief (concave, convex, none): convex		Slope:		2 ° Elevation: 528			
	gion : Southcentral Alaska	l at :	62.80432827					
		Lat	02.00432027					
	ap Unit Name:		- 1/	No ○	NWI classification: Upland			
Are V	regetation ☐ , Soil ☐ , or Hydrology ☐ MARY OF FINDINGS - Attach site map show	significant naturally p wing sar	ly disturbed? roblematic?	Are "N (If nee	(If no, explain in Remarks.) Normal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes No		la	the Com	valed Avec			
	Hydric Soil Present? Yes No (Is the Sampled Area within a Wetland? Yes ○ No ●					
	Wetland Hydrology Present? Yes O No @	itnin a w	nin a Wetland? Yes ○ No ●					
Rema	ETATION -Use scientific names of plants. Li	st all sp	ecies in the	plot.	Dawinana Tash wadahash			
_		Absolute			Dominance Test worksheet: Number of Dominant Species			
	e Stratum	_ % Cover 5		Status FACU	That are OBL, FACW, or FAC:			
	Picea glauca			-	Total Number of Dominant			
	Picea mariana			FACW	Species Across All Strata: 2 (B)			
3. 4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.					That Ale OBL, I AGW, OF I AC. 100.076 (A/B)			
5.	Total Cover	0_			Prevalence Index worksheet:			
C			- 6 of Total Cover	. 4.0	Total % Cover of: Multiply by:			
Sap	lling/Shrub Stratum 50% of Total Cover:	_4 20%	o or rotal cover	1.6	OBL Species 0 x 1 = 0			
1.	Betula glandulosa	15	. 📙	FAC	FACW Species 13 x 2 = 26			
2.	Vaccinium uliginosum	30	. 💆	FAC	FAC Species 70.1 x 3 = 210.3			
3.	Rhododendron tomentosum	10	. 📙	FACW	FACU Species <u>6.2</u> x 4 = <u>24.8</u>			
4.	Empetrum nigrum	25	. 💆	FAC	UPL Species 0 x 5 = 0			
5.					Column Totals: <u>89.3</u> (A) <u>261.1</u> (B)			
6.					Prevalence Index = B/A =2.924			
7.		0						
8.					Hydrophytic Vegetation Indicators:			
9.					✓ Dominance Test is > 50%			
10.		0	. \square		Prevalence Index is ≤3.0			
	b Stratum 50% of Total Cover:	40 20	_ % of Total Cove		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
	Galium boreale			FACU	Problematic Hydrophytic Vegetation (Explain)			
	Cornus canadensis			FACU	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
3.	Geocaulon lividum	_	. 📙	FACU	be present, unless disturbed of problematic.			
4.	Trientalis europaea ssp. arctica	0.1	. 📙	FAC	Plot size (radius, or length x width)			
			. 📙		% Cover of Wetland Bryophytes			
					(Where applicable)			
					% Bare Ground 0			
			·		Total Cover of Bryophytes 30			
		0			Hydrophytic			
10.	Total Cover	1.3	. —		Hydrophytic Vegetation			
1			6 of Total Cover	: 0.26	Present? Yes • No O			

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SOIL Sampling Point: SW12_T25_02

Profile Descripti		the depth n	eeded to docur	nent the indicator or co	nfirm the ab		cators)				
Depth (inches)							2		Remarks		
0-4	Color (mo	oist)	<u></u>	Color (moist)	<u>%</u>	Type ¹	<u>Loc</u> ²	Fibric Organics	Relliai KS		
4-10	2.5YR	2.5/3	90		_			Fine Loamy Sand	100/ make		
-		<u> </u>						-	10% roots		
10-14	10YR	3/6	90					Loamy Sand	10% fine to coarse gravel		
14-18	10YR	3/6	50					Sandy Loam	40% sub ang rocks up to 3in and 10% fine		
	-										
								-			
¹Type: C=Cor	ncentration. D	=Depletion	. RM=Reduc	ed Matrix ² Location	n: PL=Por	e Lining. RC	C=Root Cha	annel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pi	oblemati	c Hydric So	oils: ³				
Histosol or	Histel (A1)			Alaska Color C	hange (TA	4 4)		Alaska Gleyed Without Hue 5Y or Redder Underlying Layer			
Histic Epip	, ,			Alaska Alpine s							
Hydrogen	Sulfide (A4)			Alaska Redox \	With 2.5Y H	Hue		Other (Explain in Remark	(S)		
☐ Thick Dark	Surface (A12)		• • • • • •							
Alaska Gle	yed (A13)			³ One indicator of and an appropria				mary indicator of wetland hesent	nydrology,		
Alaska Red	dox (A14)					•		CSCITC			
Alaska Gle	yed Pores (A1	5)		⁴ Give details of c	olor chang	e in Remark	KS .				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	? Yes ○ No •		
Depth (inch	nes):										
HYDROLO	GY										
Wetland Hydi	rology Indica	ators:						Secondary Indi	cators (two or more are required)		
Primary Indica		is sufficien	t)					Water Stained Leaves (B9)			
Surface Water (A1)				Inundation V	isible on A	erial Image	ry (B7)		Patterns (B10)		
	er Table (A2)			Sparsely Veg		ncave Surfa	ce (B8)		hizospheres along Living Roots (C3)		
Saturation	` '			Marl Deposit	` ,				of Reduced Iron (C4)		
Water Mai				☐ Hydrogen Su				Salt Depos			
	Deposits (B2)			Dry-Season					Stressed Plants (D1)		
☐ Drift Depo	or Crust (B4)			U Other (Expla	in in Rema	rks)			ic Position (D2)		
Iron Depo	` ,								quitard (D3) graphic Relief (D4)		
	oil Cracks (B6)	1						_	al Test (D5)		
Field Observa		<u> </u>						TAC fledute	ir rest (D3)		
Surface Water		Yes C	No ●	Depth (inche	es):						
Water Table P			No ●		•		Wetla	nd Hydrology Presen	t? Yes ○ No ●		
Saturation Pre		_	_	Depth (inche	es):		Wetia	na riyarology Fresen	it: les C NO C		
(includes capil		Yes C	No ●	Depth (inche	es):						
Describe Record	ded Data (stre	eam gauge	, monitor we	ll, aerial photos, pre	vious inspe	ection) if ava	ailable:				
Remarks:											

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