WETLAND DETERMINATION DATA FORM - Alaska Region

	Site: Susitna-Watana Hydroelectric Project		В	rough/City:	Matanusk	a-Susitna Borough Sampling Date: 02-Jul-13			
Applica	nt/Owner: Alaska Energy Authority					Sampling Point: SW13_T138_04			
	ator(s): JER	side, terrac	e, hummocks etc.): Hillside						
_	elief (concave, convex, none): convex			Slope:	% / 8.2	,			
	on : Southcentral Alaska	La		2.888172388		Long.: -149.117088199 Datum: NAD83			
_		La	L <u>6</u>	2.000172300	52				
	o Unit Name:				<u> </u>	NWI classification: Upland			
Are Vo	patic/hydrologic conditions on the site typical for this egetation , Soil , or Hydrology egetation , Soil , or Hydrology ARY OF FINDINGS - Attach site map sho	signific natural	antly ly pro	disturbed? blematic?	(If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes No No eded, explain any answers in Remarks.) Iormal Circumstances" present? Yes No			
	Hydrophytic Vegetation Present? Yes No			le	the Sam	inlad Area			
	Hydric Soil Present? Yes No			Is the Sampled Area within a Wetland? Yes ○ No ●					
	Wetland Hydrology Present? Yes No (rks: small creek adjacent to plot	•		WI	uiiii a vv	etiality: 165 % No 9			
	TATION - Use scientific names of plants. I	ist all Absol	ute	cies in the	•	Dominance Test worksheet: Number of Dominant Species			
1.	Stratum	-76 CC	0	Species	Status	That are OBL, FACW, or FAC:5 (A)			
2.						Total Number of Dominant			
3.			0			Species Across All Strata: 6 (B)			
4.			0			Percent of dominant Species That Are OBL, FACW, or FAC: 83,3% (A/B)			
5.			0			That Are OBE, I AOW, OF I AC			
J	Total Cove		<u>U</u>			Prevalence Index worksheet:			
				of Total Cover:	0	Total % Cover of: Multiply by:			
Sapi	ing/Shrub Stratum 50% of Total Cover:	0	20% 0	n rotal cover:	0	OBL Species <u>0</u> x 1 = <u>0</u>			
1.	Salix pulchra		30	✓	FACW	FACW Species 30 x 2 = 60			
2.	Salix barclayi		20	✓	FAC	FAC Species <u>87</u> x 3 = <u>261</u>			
3.	Salix niphoclada		5		UPL	FACU Species 35 x 4 = 140			
4.	Salix pseudomonticola		30	✓	FAC	UPL Species <u>5</u> x 5 = <u>25</u>			
5.	Betula nana		2		FAC	Column Totals: <u>157</u> (A) <u>486</u> (B)			
6.	Spiraea stevenii		3 5		FACU	Prevalence Index = B/A = 3.096			
7.	Vaccinium uliginosum		5		FAC				
8.			0			Hydrophytic Vegetation Indicators:			
9.			0			✓ Dominance Test is > 50%			
10.			0			Prevalence Index is ≤3.0			
Herl	Total Cove Stratum 50% of Total Cover:		<u>5</u> 20% (of Total Cover	: 19	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
1.	Chamaenerion angustifolium		5		FACU	Problematic Hydrophytic Vegetation (Explain)			
2.	Geranium erianthum		10	~	FACU	¹ Indicators of hydric soil and wetland hydrology must			
3.	Mertensia paniculata		8		FACU	be present, unless disturbed or problematic.			
4.	Rhodiola integrifolia		5		FAC	Plot size (radius, or length x width) 10m			
5.	Valeriana capitata		10		FAC	% Cover of Wetland Bryophytes			
6.	Polemonium acutiflorum		1		FAC	(Where applicable)			
7.	Equisetum arvense		2		FACU	% Bare Ground			
8.	Cornus canadensis		7		FACU	Total Cover of Bryophytes			
9.	Galium boreale		12		FACU				
10.	Calamagrostis canadensis		12			Hydrophytic			
	Total Cove	r: <u>6</u>	2	of Total Cover:		Vegetation Present? Yes ● No ○			

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SOIL Sampling Point: SW13_T138_04

Profile Description		the depth ne	eeded to docu	ment the indicator or co	nfirm the ab		cators)					
Depth (inches)	Color (mo			Color (moist)	%	Type ¹	Loc ²	Texture	Remarks			
0-2	COIOI (IIIO	istj	100	Coloi (Illoist)	-70	Туре	LUC	Fibric Organics	100112			
2-4								Hemic Organics				
	10VD	2/2	70	-	-							
4-12	10YR	3/2	70					Sandy Loam	organc inclusion pockets and a lot of saprics			
12-18		3/2	100					Loamy Sand				
18-20	5Y	3/1	100					Sandy Loam				
20-26	2.5Y	4/2	100					Sandy Loam				
								-				
¹Type: C=Con	centration. D=	Depletion	. RM=Reduc	ed Matrix ² Location	n: PL=Por	e Lining. RO	C=Root Cha	nnel. M=Matrix				
Hydric Soil Ir	ndicators:			Indicators for Pi	oblemati	c Hydric S	oils: ³					
	Histel (A1)			☐ Alaska Color Change (TA4) ☐ Alaska Gleyed Without Hue 5Y or Redder								
Histic Epipe	` '			Alaska Alpine swales (TA5) Underlying Layer								
	Sulfide (A4)			Alaska Redox V	With 2.5Y H	lue		Other (Explain in Remarks)				
	Surface (A12)			_								
Alaska Gle	yed (A13)			³ One indicator of and an appropria	hydrophyt te landscar	ic vegetation	on, one prin	nary indicator of wetland h	ydrology,			
Alaska Red	ox (A14)				•	•	•	ESCIT				
Alaska Gle	yed Pores (A15	5)		⁴ Give details of c	olor chang	e in Remark	ks .					
Restrictive Laye	r (if present):											
Type: frost								Hydric Soil Present	? Yes ○ No •			
Depth (inch	es): 18											
HYDROLO	GY											
Wetland Hydr	ology Indica	tors:						Secondary Indi	cators (two or more are required)			
Primary Indicat	ors (any one i	s sufficient	t)					Water Stained Leaves (B9)				
Surface W	ater (A1)			☐ Inundation V	isible on A	erial Image	ery (B7)	Drainage Patterns (B10)				
High Water Table (A2)				Sparsely Veg	etated Cor	ncave Surfa	ce (B8)		hizospheres along Living Roots (C3)			
Saturation	. ,			Marl Deposit	s (B15)			_	f Reduced Iron (C4)			
Water Mar				∐ Hydrogen Տւ				☐ Salt Depos				
	Deposits (B2)			☐ Dry-Season				_	Stressed Plants (D1)			
☐ Drift Depo	or Crust (B4)			U Other (Expla	in in Rema	rks)		☐ Geomorph Shallow Ac	ic Position (D2)			
☐ Iron Depo	. ,								graphic Relief (D4)			
	oil Cracks (B6)								Il Test (D5)			
Field Observa									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):		Wetla	na riyarology Fresch	ti les 🔾 No 🔾			
(includes capil		Yes C	No 💿	Depth (inche	es):							
Describe Record	ded Data (stre	am gauge,	monitor we	ell, aerial photos, pre	vious inspe	ection) if ava	ailable:					
Remarks:												

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