WETLAND DETERMINATION DATA FORM - Alaska Region

Tojec	t/Site: Susitna-Watana Hydi	roelectric Project		Borough	/City:	Matanusk	a-Susitna Borough Sampling Date:	03-Aug-12
Applica	ant/Owner: Alaska Energy A	uthority					Sampling Point:S	W12_T38_08
rvesti	gator(s): SLI, KMK			Landfo	rm (hills	ide, terrac	e, hummocks etc.): Hillside	
.ocal	relief (concave, convex, none):	undulating		Slope:	17.6	% / 10.0	0 ° Elevation: 442	
ubred	gion: Southcentral Alaska		l at ·	- 62.8309	0682454	- —— 1	 Long.: -149.501494969 D	atum: WGS84
	ap Unit Name:			02.000	300243	<u>- </u>		
	-				V (● No ○	NWI classification: Upland	<u> </u>
Are \ Are \	matic/hydrologic conditions on /egetation , Soil /egetation	, or Hydrology , or Hydrology	significar naturally	ntly disturb problema	ped? ntic?	Are "N (If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes ded, explain any answers in Remarks.) s, transects, important features,	
	Hydrophytic Vegetation Prese	nt? Yes	No 💿					
	Hydric Soil Present?	Yes 〇	No •		ls t	he Sam	pled Area	
	Wetland Hydrology Present?	Yes O	No •		wit	hin a W	etland? Yes O No 🗨	
	narks:	103 🔾	110 🔾					
'EGI	ETATION - Use scientific	names of plar	nts. List all sp	oecies ir	n the p	olot.	Dominance Test worksheet:	
	e Charles		Absolut			Indicator	Number of Dominant Species	
	e Stratum Populus balsamifera		_ % Cove		cies?	Status FACU	That are OBL, FACW, or FAC:	(A)
	•			_	✓		Total Number of Dominant	
2. 3.				_		FACU	Species Across All Strata:	6 (B)
3. 4.	Picea glauca			_		FACU	Percent of dominant Species That Are OBL, FACW, or FAC:	33.3% (A/B)
5 .				_			That Ale OBE, I AOW, OF I AO.	<u>33.3%</u> (AB)
5.		Tatal		_			Prevalence Index worksheet:	_
_					l Caucani		Total % Cover of: Multiply	by:
Sap	oling/Shrub Stratum	50% of Total Cove	er: <u>25</u> 20	% of Total	Cover:	10	OBL Species 0 x 1 =	0
1.	Viburnum edule)		FACU	FACW Species 3 x 2 =	6
2.	Sambucus racemosa		5	_		FACU	FAC Species 12 x 3 =	36
3.	Oplopanax horridus			_	✓	FACU	FACU Species <u>152</u> x 4 =	608
4.	Ribes triste		2	_		FAC	UPL Species0 x 5 =	0
5.	Populus balsamifera		5	_		FACU	Column Totals: <u>167</u> (A)	650 (B
6.			0	_				2 002
7.			0	_			Prevalence index = B/A =	3.892
8.			0	_			Hydrophytic Vegetation Indicators:	
9.			0	_			☐ Dominance Test is > 50%	
10.			0	_			Prevalence Index is ≤3.0	
Hei	rb Stratum	Total 50% of Total Cov		0% of Tota		18.4	Morphological Adaptations (Provide Remarks or on a separate sheet)	-
1.	Calamagrostis canadensis			_	✓	FAC	Problematic Hydrophytic Vegetation ¹	
2.	Mertensia paniculata			_		FACU	¹ Indicators of hydric soil and wetland hydr	ology must
3.	Equisetum pratense			_		FACW	be present, unless disturbed or problemat	.C.
4.	Athyrium filix-femina			_	✓	FAC	Plot size (radius, or length x width)	_10m
5.	Gymnocarpium dryopteris			_	✓	FACU	% Cover of Wetland Bryophytes	
6.	Phegopteris connectilis		2	_		FACU	(Where applicable)	
7.				_		FACW	% Bare Ground	90
8.				_		FACU	Total Cover of Bryophytes	_5
9.	Streptopus amplexifolius			_		FACU		
10.			0	_	\Box		Hydrophytic	
		Total 50% of Total Cove	Cover: 25		l C-:	_	Vegetation Present? Yes No •	
		THE OF LOTAL COVIC		17/2 OT 1 OT 2	LOVer.	5	, r.esent: 163 \to 110 \to	

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SOIL Sampling Point: SW12_T38_08

Color (moist) O-2.5 Color (moist) So Color (m	<i>a</i> i ,	Matrix		dicator or cont Red	ox Featu		ators)	_	
4.5.6 4.5.6 5.50 Sapic Cogunics 5.50 Sandy Loam 105.14 7.57R 3/3 9 14-16 7.57R 3/3 9 5.50 Sandy Loam 105.14 7.57R 105.14 7.57R 105.14 7.57R 105.14 7.57R 105.14 7.57R 105.14 105.		ist) %	Color (r	noist)	%	Type ¹	<u>Loc</u> 2	Texture	Remarks
4.5-6	0-2.5							Fibric Organics	P
6-10.5 7.5YR 4/1 60 1UYR 2/1 40 C M A4h charcost two matrix colors 10.5-14 7.5YR 3/3 90 Sendy Loan 109% subangular gravet to cobb 14-16 7.5YR 3/2 60 Sendy Loan w 40% subangular gravet t	2.5-4.5							Hemic Organics	
10.5-14 7.5YR 3/3 90 Sendy Loom 10% subangular gravel to cobb 14-16 7.5YR 3/2 60 Sendy Loom w. 40% subangular gravels to cobb 15 ype: C=Concentration. D=Depletion. RM=Reduced Matrix 3 Location: PL=Pore Lining. RC=Root Channel. M=Matrix Hydric Soil Indicators: Histor. California Maska California Maska Gleyed Without Hue SY or Redder Underlying Layer Present? Yes No Underlying Layer Un	4.5-6				-			Sapric Organics	
14-16 7.57R 3/2 60 Sandy Loam w 40% subangular gravels to cobb	6-10.5 7.5YR	4/1 60	10YR	2/1	40	С	M	Ash	charcoal, two matrix colors
1 Type: C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining. RC=Root Channel. M=Matrix Hydric Soll Indicators:	10.5-14 7.5YR	3/3 90						Sandy Loam	10% subangular gravel
1 Type: C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining. RC=Root Channel. M=Matrix Hydric Soll Indicators:	14-16 7.5YR	3/2 60						Sandy Loam	w 40% subangular gravels to cobbles
Hydric Soll Indicators: Histosol or Histe (A1)								·	
Histosol or Histel (A1)	Type: C=Concentration. D=	=Depletion. RM=Re	educed Matrix	² Location:	: PL=Pore	Lining. RC	=Root Cha	annel. M=Matrix	-
Histic Epipedon (A2)	Hydric Soil Indicators:		Indicat	tors for Pro	blematic	Hydric S	oils: ³		
Institute Epipeuri (Net) Institute (Park Surface (A12) Alaska Redox With 2.57 Hue Other (Explain in Remarks)	Histosol or Histel (A1)		Alas	ska Color Cha	ange (TA4	4		Alaska Gleyed Without H	ue 5Y or Redder
Thick Dark Surface (A12) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed Pores (A15) Alaska Gleyed P	Histic Epipedon (A2)		Alas	ska Alpine sv	vales (TA5	5)		, , ,	
Alaska Gdeyed (A13) Alaska Redox (A14) Alaska Redox (A14) Alaska Redox (A14) Alaska Redox (A14) Alaska Redox (A15) Alaska Redox (A16) Alaska Redox (A16) Alaska Redox (A17) Alaska Redox (A17) Alaska Redox (A18) Alaska Redo	Hydrogen Sulfide (A4)		Alas	ska Redox W	ith 2.5Y H	lue		Other (Explain in Remark	rs)
Alaska Redox (AI4) Alaska Redox (AI4) Alaska Redox (AI4) Alaska Redox (AI5) Restrictive Layer (if present): Type: Depth (inches): Remarks: No hydric soil indicators, appears to have both burned and slumped. Pyprol	Thick Dark Surface (A12))	30					Calleria de alleral la	4.4.
Alaska Gleyed Pores (A15) Restrictive Layer (if present): Type: Depth (inches): Remarks: Rema	Alaska Gleyed (A13)								yarology,
Restrictive Layer (if present): Type: Depth (inches): Remarks: No hydric soil indicators. appears to have both burned and slumped. Remarks: No hydric soil indicators. appears to have both burned and slumped. Remarks: No hydric soil indicators. appears to have both burned and slumped. Remarks: No hydric soil indicators. appears to have both burned and slumped. Remarks: No hydric soil indicators. appears to have both burned and slumped. Remarks: No hydric soil indicators. appears to have both burned and slumped. Remarks: Remarks: Remarks: Remarks: Remarks: Hydric Soil Present? Yes No No Pesent? Yes No No Pesent Reduced Iron (C4) Saccondary Indicators (two or more are require Permary Indicators (appears to provide a part of the position (B1) Notice Remarks: Remarks: Hydric Soil Present? Yes No No Pesent Reduced Iron (C4) Saccondary Indicators (two or more are require Permary Indicators (two or more are require Permary Indicators (appears to part of the position (B1) Notice Remarks: Hydric Soil Present? Yes No No Pesent Reduced Iron (C4) Sactoration (A3) Hydrology Indicators (two or more are require Permary Indicators (two or more are require Permary Indicators (B2) Notice Remarks: Hydric Soil Present? Yes No No Saccondary Indicators (two or more are require Permary Indicators (B2) Notice Remarks: Hydric Soil Present? Yes No No Saccondary Indicators (two or more are require Permary Indicators (B2) Notice Remarks: Hydric Soil Present? Yes No No Saccondary Indicators (two or more are require Permary Indicators (B2) Notice Remarks: Hydric Soil Present? Yes No No Pepth (inches): Wetland Hydrology Present? Yes No Pepth (inches): Notice Remarks: Hydric Soil Present? Yes No Pepth (inches): Notice Remarks: Hydric Soil Present? Yes No Pepth (inches): Notice Remarks: Hydric Soil Present? Yes No Pepth (inches): Notice Remarks: Hydric Soil Present? Yes No Permarks: Hydric Soil Present? Yes No Permarks Notice Remarks: Hydric Soil Present? Yes No Perm			4 Give	details of col	lor change	in Domark	· ·c		
Type: Depth (inches): Mydric Soil Present? Yes	☐ Alaska Gleyed Pores (A15	5)	dive	details of co	ior change	: III Kemar			
Depth (inches): demarks: o hydric soil indicators, appears to have both burned and slumped. Part	Restrictive Layer (if present):								
Application Company	* *							Hydric Soil Present	? Yes ∪ No •
INDROLOGY Wetland Hydrology Indicators: Secondary Indicators (two or more are require water (A1) High Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Dry-Season Water Table (C2) Stufface Other (Explain in Remarks) Sufface Water (B4) Spansely Vegetated Concave Surface (B8) Oxidized Rhizospheres along Living Roots Saturation (A3) Marl Deposits (B15) Presence of Reduced Iron (C4) Salt Deposits (C5) Sediment Deposits (B2) Dry-Season Water Table (C2) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Tron Deposits (B5) Surface Vater Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: Remarks:	Depth (inches):								
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High Water Table (A2)									
Saturation (A3)	Primary Indicators (any one i							Water Stai	ned Leaves (B9)
Water Marks (B1)	Primary Indicators (any one i					_		Water Stai	ned Leaves (B9) Patterns (B10)
□ Sediment Deposits (B2) □ Dry-Season Water Table (C2) □ Stunted or Stressed Plants (D1) □ Drift Deposits (B3) □ Other (Explain in Remarks) □ Geomorphic Position (D2) □ Shallow Aquitard (D3) □ Shallow Aquitard (D3) □ Microtopographic Relief (D4) □ Surface Soil Cracks (B6) □ FAC-neutral Test (D5) □ Surface Water Present? Yes □ No ● Depth (inches): Water Table Present? Yes □ No ● Depth (inches): Saturation Present? Yes □ No ● Depth (inches): Secribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: Remarks:	Primary Indicators (any one i Surface Water (A1) High Water Table (A2)		☐ S _l	oarsely Vege	tated Con	_		Water Stai Drainage F Oxidized R	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3)
□ Drift Deposits (B3) □ Other (Explain in Remarks) □ Geomorphic Position (D2) □ Algal Mat or Crust (B4) □ Shallow Aquitard (D3) □ Shallow Aquitard (D3) □ Microtopographic Relief (D4) □ Surface Soil Cracks (B6) □ FAC-neutral Test (D5) □ Surface Water Present? Yes □ No ● Depth (inches): Water Table Present? Yes □ No ● Depth (inches): Saturation Present? Yes □ No ● Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	Primary Indicators (any one i Surface Water (A1) High Water Table (A2) Saturation (A3)		☐ S _I	oarsely Vege arl Deposits	etated Con (B15)	cave Surfa		☐ Water Stai ☐ Drainage F ☐ Oxidized R ☐ Presence o	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) f Reduced Iron (C4)
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