WETLAND DETERMINATION DATA FORM - Alaska Region

roject/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 24-Aug-15
pplicant/Owner: Alaska Energy Authority				Sampling Point: SW15_T317_06
vestigator(s): GVF		Landform (hil	lside, terrac	e, hummocks etc.): Knob
ocal relief (concave, convex, none): hummocky		Slope: 8.7	% / 5.0	° Elevation:
ubregion : Cook Inlet Mountains	Lat.:			Long.: Datum: WGS84
bil Map Unit Name:	-			NWI classification: Upland
re climatic/hydrologic conditions on the site typical for this tim	ne of vear	2 Yes	● No ○	(If no, explain in Remarks.)
Are Vegetation 🔲 , Soil 🔲 , or Hydrology 🔲 si	ignificantly aturally pr	y disturbed? oblematic?	Are "N (If nee	lormal Circumstances" present? Yes No dedd, explain any answers in Remarks.)
Hydrophytic Vegetation Present? Yes No				
Hydric Soil Present? Yes ○ No •		Is	the Sam	pled Area
Wetland Hydrology Present? Yes No		w	ithin a W	/etland? Yes ○ No ⊙
Remarks:		ļ.		
EGETATION - Use scientific names of plants. Lis	st all spe	ecies in the	plot.	Dominance Test worksheet:
	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species
Tree Stratum 1.	% Cover	Species?	Status	That are OBL, FACW, or FAC:3(A)
2				Total Number of Dominant
3.				Species Across All Strata:3(B)
4.				Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
5.				Paradana Tadan madahasi
Total Cover:				Prevalence Index worksheet: Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover	:0	OBL Species $0 \times 1 = 0$
Rhododendron tomentosum	28	✓	FACW	FACW Species 30 x 2 = 60
Betula nana	25	✓	FAC	FAC Species 56.2 x 3 = 168.6
3 Vaccinium uliginooum	18	✓	FAC	FACU Species 3.1 x 4 = 12.4
vaccinium diiginosum Empetrum nigrum	10		FAC	UPL Species 0 x 5 = 0
5. Vaccinium vitis-idaea	3		FAC	Column Totals: 89.3 (A) 241 (B)
6. Arctous alpinus	3		FACU	
7. Picea mariana	2		FACW	Prevalence Index = B/A = 2.699
8. Spiraea stevenii	0.1		FACU	Hydrophytic Vegetation Indicators:
9	0			✓ Dominance Test is > 50%
10	0			Prevalence Index is ≤3.0
Total Cover:4. Herb Stratum 50% of Total Cover:4.		6 of Total Cove	r: <u>17.82</u>	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
Equisetum sylvaticum	0.1		FAC	Problematic Hydrophytic Vegetation (Explain)
Carex bigelowii	0.1		FAC	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3				be present, unless disturbed of problematic.
4				Plot size (radius, or length x width) <u>5m</u>
5	0			% Cover of Wetland Bryophytes
6	0			(Where applicable)
7. 8.				% Bare Ground
9.				Total Cover of Bryophytes 80
10.	0			Hydrophytic
Total Cover:	Vegetation			
iotal Cover:	0.2			Present? Yes No

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW15_T317_06

Goder (moist) 96 Color (moist) 96 Type: Loc 2 Tenture Remarks 3-3-5 Fina: Corporate Sinary Corporate Sinar	Color (moist) 96 Color (moist) 96 Type Loc. Texture	Profile Description Depth		the depth no	eeded to docu	ment the indicator or c	onfirm the ab		icators)		
3-5 Hernic Organics With mineral content 5-6 Sapor Organics With mineral content 6-12 SYR 3/4 100 Loarn Subarquiar cobites throughout 12-19 7.5YR 3/3 100 Loarn Subarquiar cobites throughout 11-19 7.5YR 3/3 100 Loarn Sand Sapor 11-19 Syria Subarquiar cobites throughout 11-19 Syria Syria Syria Subarquiar cobites throughout 11-19 Syria Syria Syria Syria Syria 11-19 Syria Syria Syria Syria Syria 11-19 Syria Syria Syria Syria Syria 11-19 Syria Syria Syria Syria Syria Syria 11-19 Syria Syria Syria Syria Syria Syria Syria Syria 11-19 Syria	3-5 5-6 6-12 5YR 3/4 100 Loamy Sand sull Loam sull Loamy Sand Sand Sand Sand Sand Sand Sand Sand		Color (mo	oist)	%	Color (moist)	%	Type ¹	<u>Loc</u> 2	Texture	Remarks
Septe: Disparies with numeral content subang cobilets throughout 12-19	5-6 6-12 5YR 3/4 100 12-19 7.5YR 3/3 100 12-1	0-3								Fibric Organics	
Syra 100 Loam Subaray cobbles throughout Loam Subaray cobbles throughout Syrac Loam Syrac	1-19 7.5YR 3/4 100 Loamy sand sat 12-19 7.5YR 3/3 100 Loamy sand sat 12-19 7.5YR 3/4	3-5								Hemic Organics	
12-19 7.5VR 3/3 100 Loamy Sand subangular cobbles throughout	12-19 7.5YR 3/3 100 Loamy Sand sul 17ype: C=Concentration. D=Depletion. RM=Reduced Matrix 1 Location: PL=Pore Lining. RC=Root Channel. M=Matrix Hydric Soil Indicators:	5-6								Sapric Organics	with mineral content
12-19 7.57k 3/3 100 Loamy Sand subangular cobbles throughout	12-19 7.5YR 3/3 100 Loamy Sand sulful color of the color change (TA) Loamy Sand sulful color of the color of this	6-12	5YR	3/4	100					Loam	subang cobbles thruout w/ saprics,
**Indicators:	**Type: C=Concentration. D=Depletion. RM=Reduced Matrix **2 Location: PL=Pore Lining. RC=Root Channel. M=Matrix Hydric Soil Indicators:										possible ash
Hydric Soil Indicators: Histosol or Histel (A1) Alaska Color Change (TA) ⁴ Alaska Gleyed Without Hue 5Y or Redder Underlying Layer Underlying Layer Underlying Layer Underlying Layer Underlying Layer Underlying Layer Other (Explain in Remarks) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed Pores (A15) Alaska Gleyed Mithout Hue 5Y or Redder Underlying Layer Other (Explain in Remarks Alaska Gleyed Mithout Hue 5Y or Redder Underlying Layer Other (Explain in Remarks Alaska Gleyed Mithout Hue 5Y or Redder Underlying Layer Other (Explain in Remarks Alaska Gleyed Without Hue 5Y or Redder Underlying Layer Other (Explain in Remarks Alaska Gleyed Without Hue 5Y or Redder Underlying Layer Other (Explain in Remarks Alaska Alpine water Soil Present? Yes No	Hydric Soil Indicators: Histosol or Histel (A1)	12-19	7.5YR	3/3	100					Loamy Sand	subangular cobbles throughout
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Histic Epipedon (AZ)	Histic Epipedon (A2)	Hydric Soil In	ndicators:			Indicators for F	Problemati	c Hydric S	oils:		
Histic Epipedon (A2)	Histic Epipedon (A2)	Histosol or	Histel (A1)							Alaska Gleyed Without H	ue 5Y or Redder
Thick Dark Surface (A12)	Thick Dark Surface (A12) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed Pores (A15) Alaska Cleyed Pores (A15) Alaska		` '								
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Alaska Redox (A14) Alaska Redox (A14) Alaska Redox (A15) Restrictive Layer (if present): Type: Depth (inches): Remarks: No hydric soil indicators Hydric Soil Present? Yes	Alaska Redox (A14)	Thick Dark	Surface (A12)							
Alaska Redox (A14)	Alaska Redox (A14)	Alaska Gley	yed (A13)			³ One indicator of	of hydrophy ate landsca	tic vegetation	on, one prim	nary indicator of wetland h	nydrology,
Restrictive Layer (if present): Type: Depth (inches): Remarks: No hydric soil indicators Remarks: No	Restrictive Layer (if present): Type: Depth (inches): Remarks: No hydric soil indicators Hydric Soil Present?	Alaska Red	ox (A14)						•		
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Water Marks (B1)	Water Marks (B1)	☐ High Wate	r Table (A2)					_		Oxidized R	hizospheres along Living Roots (C3)
Water Marks (B1)	Water Marks (B1)	Saturation	(A3)				-		` ,	Presence of	of Reduced Iron (C4)
□ Drift Deposits (B3) □ Other (Explain in Remarks) □ Geomorphic Position (D2) □ Shallow Aquitard (D3) □ Iron Deposits (B5) □ Microtopographic Relief (D4) □ Surface Soil Cracks (B6) □ FAC-neutral Test (D5) Field Observations: Surface Water Present? Yes ○ No ○ Depth (inches): Water Table Present? Yes ○ No ○ Depth (inches): Saturation Present? Yes ○ No ○ Depth (inches): Observations Present? Yes ○ No ○ Depth (inches):	□ Drift Deposits (B3) □ Other (Explain in Remarks) □ Geomorphic Poly Shallow Aquita □ Iron Deposits (B5) □ Microtopograp □ Surface Soil Cracks (B6) □ PAC-neutral Teled Observations: Surface Water Present? Yes □ No ● Depth (inches): Water Table Present? Yes □ No ● Depth (inches): Saturation Present? Yes □ No ● Depth (inches): Observations Present? Yes □ No ● Depth (inches): Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	Water Mar	ks (B1)			_		(C1)		Salt Depos	sits (C5)
□ Drift Deposits (B3) □ Other (Explain in Remarks) □ Geomorphic Position (D2) □ Algal Mat or Crust (B4) □ Shallow Aquitard (D3) □ Iron Deposits (B5) □ Microtopographic Relief (D4) □ Surface Soil Cracks (B6) ▼ FAC-neutral Test (D5) Field Observations: Surface Water Present? Yes ○ No ○ Depth (inches): Water Table Present? Yes ○ No ○ Depth (inches): Saturation Present? Yes ○ No ○ Depth (inches): Obescribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	□ Drift Deposits (B3) □ Other (Explain in Remarks) □ Geomorphic Policy Algal Mat or Crust (B4) □ Shallow Aquitation Iron Deposits (B5) □ Microtopograp □ Surface Soil Cracks (B6) □ PAC-neutral Test	Sediment I	Deposits (B2)								
☐ Iron Deposits (B5) ☐ Microtopographic Relief (D4) ☐ Surface Soil Cracks (B6) ☐ FAC-neutral Test (D5) ☐ FAC-neutral Test (D5	☐ Iron Deposits (B5) ☐ Microtopograp ☐ Surface Soil Cracks (B6) ☐ FAC-neutral Te Field Observations: Surface Water Present? Yes ○ No ② Depth (inches): Water Table Present? Yes ○ No ③ Depth (inches): Saturation Present? Yes ○ No ③ Depth (inches): Conscribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	☐ Drift Depos	sits (B3)			_				Geomorph	ic Position (D2)
☐ Iron Deposits (B5) ☐ Microtopographic Relief (D4) ☐ Surface Soil Cracks (B6) ☐ FAC-neutral Test (D5) ☐ FAC-neutral Test (D5	☐ Iron Deposits (B5) ☐ Microtopograp ☐ Surface Soil Cracks (B6) ☐ FAC-neutral Te Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Concludes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	Algal Mat o	or Crust (B4)			_ 、.		,		Shallow Ac	quitard (D3)
Surface Soil Cracks (B6) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	Surface Soil Cracks (B6) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:										
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