WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 26-Aug-15	,
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW15_T347_0	38
nvestigator(s): AFW		Landform (hil	llside, terrac	e, hummocks etc.): Alluvial fan	
Local relief (concave, convex, none): convex		- ` Slope: 8.7		,	
· · · · · · · · · · · · · · · · · · ·	1 -4.				0.4
Subregion : Interior Alaska Mountains	Lat.:				24
Soil Map Unit Name:				NWI classification: Upland	
Are climatic/hydrologic conditions on the site typical for the Are Vegetation Are Vegetat	significan naturally particular showing sa	tly disturbed? problematic?	(If nee	(If no, explain in Remarks.) formal Circumstances" present? Yes ● No ○ ided, explain any answers in Remarks.) ided, transects, important features, etc.	
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Hydric Soil Present? Yes O	No 💿			pled Area	
Wetland Hydrology Present? Yes ○ N	No 💿	w	ithin a W	etland? Yes ○ No •	
Remarks:		<u> </u>			
VEGETATION - Use scientific names of plant	Absolute	e Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum	% Cove	r Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)	()
1.				Total Number of Dominant	
2.		. 📙		Species Across All Strata:5(B)	;)
3.		. 📙		Percent of dominant Species	
4.				That Are OBL, FACW, or FAC: 80.0% (A	VB)
5		. \square		Prevalence Index worksheet:	
Total C				Total % Cover of: Multiply by:	
Sapling/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cover	:0	OBL Species x 1 =0	
1. Betula glandulosa	55	✓	FAC	FACW Species <u>13</u> x 2 = <u>26</u>	
Vaccinium uliginosum		✓	FAC	FAC Species <u>112</u> x 3 = <u>336</u>	
Vaccinium vitis-idaea	12		FAC	FACU Species 12 x 4 = 48	
4. Salix glauca	10		FAC	UPL Species 0 x 5 = 0	
Empetrum nigrum			FAC	Column Totals:137(A)410	(B)
6. Salix pulchra			FACW		(D)
7. Rhododendron tomentosum			FACW	Prevalence Index = B/A = 2.993	
8. Rosa acicularis	2		FACU	Hydrophytic Vegetation Indicators:	
9. Linnaea borealis			FACU	✓ Dominance Test is > 50%	
10.			FACU	✓ Prevalence Index is ≤3.0	
Total C Herb Stratum 50% of Total Cover			r: 24.2	Morphological Adaptations (Provide supporting data Remarks or on a separate sheet)	ı in
Chamaenerion angustifolium	5	✓	FACU	Problematic Hydrophytic Vegetation (Explain)	
Festuca altaica		~	FAC	¹ Indicators of hydric soil and wetland hydrology must	
Polemonium acutiflorum		<u>✓</u>	FAC	be present, unless disturbed or problematic.	
4. Cornus canadensis			FACU		
5. Mertensia paniculata			FACU	Plot size (radius, or length x width) 10m	
6. Arctagrostis latifolia	4		FACW	% Cover of Wetland Bryophytes (Where applicable)	
7. Carex bigelowii	1		FAC	% Bare Ground5	
8.				Total Cover of Bryophytes 90	
9.	•				
10.				Hydrophytic	
Total C				Vegetation	
50% of Total Cover:		– % of Total Cover	: 3.2	Present? Yes No	
Remarks:					
Nomana.					

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SOIL Sampling Point: SW15_T347_08

(inches) Col	r (moist)	%	Color (moist)	% Typ	e^1 Loc 2	Texture	Remarks
0-4	i (illoist)	100	color (moist)	70 175		Fibric Organics	
4-9 10	R 4/2	100				Silt Loam	thin organic layer at base.
9-14 10		100				Silt Loam	w hard packed angular gravel.
14-17 10		100				Silt Loam	- Hara packed angular graven
	3/2					One Estimate	_
							_
						-	_
Type: C=Concentrati	n. D=Deplet	on. RM=Reduced	l Matrix ² Locatio	n: PL=Pore Linin	g. RC=Root Cha	annel. M=Matrix	
lydric Soil Indicato	s:		Indicators for P	roblematic Hydi	ric Soils: ³		
Histosol or Histel (1)	l	Alaska Color C			Alaska Gleyed Without	Hue 5Y or Redder
Histic Epipedon (A	-	Į.	Alaska Alpine	` ,		Underlying Layer	aules)
☐ Hydrogen Sulfide	•	Į	Alaska Redox	With 2.5Y Hue		Other (Explain in Rema	arks)
☐ Thick Dark Surface	` '		³ One indicator of	hydrophytic vege	etation, one prir	mary indicator of wetland	l hydrology,
 Alaska Gleyed (A1 Alaska Redox (A1⁴			and an appropria	te landscape posi	tion must be pro	esent	
Alaska Gleyed Por			4 Give details of o	olor change in Re	marks		
,	,						
estrictive Layer (if pre Type:	ent):					Hydric Soil Preser	nt? Yes ○ No •
турс.						riyuric Son Preser	IL: 163 C NO C
Depth (inches):							
Depth (inches): emarks: hydric soil indicators							
emarks:							
emarks:							
emarks: hydric soil indicators	ndicators:					_Secondary In	dicators (two or more are required)
emarks: hydric soil indicators YDROLOGY		ent)					dicators (two or more are required) ained Leaves (B9)
YDROLOGY Yetland Hydrology 2 rimary Indicators (A)	one is suffic	ent)		/isible on Aerial Ir		Water St	rained Leaves (B9) e Patterns (B10)
YDROLOGY Yetland Hydrology 2 rimary Indicators (an Surface Water (A: High Water Table	one is suffic	ent)	Sparsely Veg	getated Concave S		Water St Drainage Oxidized	ained Leaves (B9) e Patterns (B10) Rhizospheres along Living Roots (Ca
YDROLOGY Vetland Hydrology rimary Indicators (an Surface Water (A: High Water Table Saturation (A3)	one is suffic	ent)	Sparsely Veg Marl Deposit	getated Concave S s (B15)		Water St Drainage Oxidized Presence	ained Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3 of Reduced Iron (C4)
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YDROLOGY Yetland Hydrology rimary Indicators (an Surface Water (A: High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit	one is suffici) A2)	ent)	Sparsely Veg Marl Deposit Hydrogen St Dry-Season	getated Concave S s (B15) ulfide Odor (C1) Water Table (C2)		Water St Drainage Oxidized Presence Salt Dep Stunted	rained Leaves (B9) e Patterns (B10) Rhizospheres along Living Roots (C3 e of Reduced Iron (C4) osits (C5) or Stressed Plants (D1)
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