WETLAND DETERMINATION DATA FORM - Alaska Region

Applica	/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 01-Aug-13
••	int/Owner: Alaska Energy Authority				Sampling Point: SW13_T143_08
nvesti	gator(s): WAD, RWM		Landform (hil	side, terrac	e, hummocks etc.): Iskeshore
	elief (concave, convex, none): flat		Slope:	%/ 3.0	
			•		
Subreg	ion : Interior Alaska Mountains	Lat.: _	63.21890330	33	Long.:148.228446722 Datum: NAD83
oil Ma	p Unit Name:				NWI classification: PSS1B
Are ∖ Are ∖	natic/hydrologic conditions on the site typical for this f egetation , Soil , or Hydrology egetation , Soil , or Hydrology MARY OF FINDINGS - Attach site map sho	significantly naturally pr	v disturbed? oblematic?	(If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.) s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes • No)	_		
	Hydric Soil Present? Yes No (\supset	ls	the Sam	pled Area
	Wetland Hydrology Present? Yes No		w	ithin a W	etland? Yes $ullet$ No $igodoldsymbol{ imes}$
Rema	arks: Lakeshore beneath steep bluff slope.	/	•		
	TATION - Use scientific names of plants. L	ist all spe Absolute % Cover	cies in the Dominant Species?	plot. Indicator Status	Dominance Test worksheet: Number of Dominant Species
1.		0			That are OBL, FACW, or FAC:5_ (A)
2.		0			Total Number of Dominant
3.		0			Species Across All Strata: <u>5</u> (B)
4.					Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
ч. 5.		0			
5.	Total Cove				Prevalence Index worksheet:
	Total Cove	r: <u> </u>			
-		2 200/	of Total Course		Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover	0	OBL Species x 1 =
Sap	Salix pulchra 50% of Total Cover:	0 20% 15	of Total Cover	0	OBL Species 0 $x 1 =$ 0 FACW Species 20 $x 2 =$ 40
		15			OBL Species 0 $x 1 =$ 0 FACW Species 20 $x 2 =$ 40 FAC Species 68.1 $x 3 =$ 204.3
1.	Salix pulchra	15 15 10		FACW	OBL Species 0 $x 1 =$ 0 FACW Species 20 $x 2 =$ 40 FAC Species 68.1 $x 3 =$ 204.3 FACU Species 7.1 $x 4 =$ 28.4
1. 2.	Salix pulchra Betula glandulosa	15 15 10 20		FACW FAC	OBL Species 0 $x 1 =$ 0 FACW Species 20 $x 2 =$ 40 FAC Species 68.1 $x 3 =$ 204.3
1. 2. 3.	Salix pulchra Betula glandulosa Vaccinium uliginosum	15 15 10 20		FACW FAC FAC	OBL Species 0 $x 1 =$ 0 FACW Species 20 $x 2 =$ 40 FAC Species 68.1 $x 3 =$ 204.3 FACU Species 7.1 $x 4 =$ 28.4 UPL Species 0 $x 5 =$ 0
1. 2. 3. 4.	Salix pulchra Betula glandulosa Vaccinium uliginosum Empetrum nigrum	15 15 10 20 5		FACW FAC FAC FAC	OBL Species 0 $x 1 =$ 0 FACW Species 20 $x 2 =$ 40 FAC Species 68.1 $x 3 =$ 204.3 FACU Species 7.1 $x 4 =$ 28.4 UPL Species 0 $x 5 =$ 0 Column Totals: 95.2 (A) 272.7
1. 2. 3. 4. 5.	Salix pulchra Betula glandulosa Vaccinium uliginosum Empetrum nigrum Rhododendron tomentosum	15 15 10 20 5		FACW FAC FAC FAC	OBL Species 0 $x 1 =$ 0 FACW Species 20 $x 2 =$ 40 FAC Species 68.1 $x 3 =$ 204.3 FACU Species 7.1 $x 4 =$ 28.4 UPL Species 0 $x 5 =$ 0
1. 2. 3. 4. 5. 6.	Salix pulchra Betula glandulosa Vaccinium uliginosum Empetrum nigrum Rhododendron tomentosum	15 15 10 20 5 0		FACW FAC FAC FAC	OBL Species 0 $x 1 =$ 0 FACW Species 20 $x 2 =$ 40 FAC Species 68.1 $x 3 =$ 204.3 FACU Species 7.1 $x 4 =$ 28.4 UPL Species 0 $x 5 =$ 0 Column Totals: 95.2 (A) 272.7
1. 2. 3. 4. 5. 6. 7. 8.	Salix pulchra Betula glandulosa Vaccinium uliginosum Empetrum nigrum Rhododendron tomentosum	15 15 10 20 5 0 0		FACW FAC FAC FAC	OBL Species 0 $x 1 =$ 0 FACW Species 20 $x 2 =$ 40 FAC Species 68.1 $x 3 =$ 204.3 FACU Species 7.1 $x 4 =$ 28.4 UPL Species 0 $x 5 =$ 0 Column Totals: 95.2 (A) 272.7 Prevalence Index = B/A = 2.864
1. 2. 3. 4. 5. 6. 7. 8. 9.	Salix pulchra Betula glandulosa Vaccinium uliginosum Empetrum nigrum Rhododendron tomentosum	15 15 10 20 5 0 0 0		FACW FAC FAC FAC	OBL Species0 $x 1 =$ 0FACW Species20 $x 2 =$ 40FAC Species68.1 $x 3 =$ 204.3FACU Species7.1 $x 4 =$ 28.4UPL Species0 $x 5 =$ 0Column Totals:95.2(A)272.7Prevalence Index = B/A =2.864
1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	Salix pulchra Betula glandulosa Vaccinium uliginosum Empetrum nigrum Rhododendron tomentosum	15 15 10 20 5 0 0 0 0 0 0 0 0 5 5 5 5 0 0 0 0 0		FACW FAC FAC FAC FAC FACW	OBL Species0 $x 1 =$ 0FACW Species20 $x 2 =$ 40FAC Species68.1 $x 3 =$ 204.3FACU Species7.1 $x 4 =$ 28.4UPL Species0 $x 5 =$ 0Column Totals:95.2(A)272.7Prevalence Index = B/A =2.864Hydrophytic Vegetation Indicators: \checkmark Dominance Test is > 50%
1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	Salix pulchra Betula glandulosa Vaccinium uliginosum Empetrum nigrum Rhododendron tomentosum Total Cove	15 15 10 20 5 0 0 0 0 0 0 0 0 5 5 5 5 0 0 0 0 0		FACW FAC FAC FAC FAC FACW	OBL Species0 $x 1 =$ 0FACW Species20 $x 2 =$ 40FAC Species68.1 $x 3 =$ 204.3FACU Species7.1 $x 4 =$ 28.4UPL Species0 $x 5 =$ 0Column Totals:95.2(A)272.7Prevalence Index = B/A =2.864Hydrophytic Vegetation Indicators: \checkmark Dominance Test is > 50% \checkmark Prevalence Index is ≤ 3.0 \square Morphological Adaptations ¹ (Provide supporting data in
1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	Salix pulchra Betula glandulosa Vaccinium uliginosum Empetrum nigrum Rhododendron tomentosum	15 10 20 5 0 0 0 0 0 0 0 0 5 32.5 20%	S of Total Cover	FACW FAC FAC	OBL Species0 $x 1 =$ 0FACW Species20 $x 2 =$ 40FAC Species68.1 $x 3 =$ 204.3FACU Species7.1 $x 4 =$ 28.4UPL Species0 $x 5 =$ 0Column Totals:95.2(A)272.7Prevalence Index = B/A =2.864Hydrophytic Vegetation Indicators: \checkmark Dominance Test is > 50% \checkmark Prevalence Index is <3.0
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. Her 1. 2.	Salix pulchra Betula glandulosa Vaccinium uliginosum Empetrum nigrum Rhododendron tomentosum	$ \begin{array}{c} 15\\ 10\\ 20\\ 5\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 15\\ 32.5\\ 2\\ 5\\ 7\\ 5\\ 7\\ 7\\ 7\\ 7\\ 7\\ 7\\ 7\\ 7\\ 7\\ 7\\ 7\\ 7\\ 7\\$	S of Total Cover	FACW FAC	OBL Species0x 1 =0FACW Species20x 2 =40FAC Species68.1x 3 =204.3FACU Species7.1x 4 =28.4UPL Species0x 5 =0Column Totals:95.2(A)272.7Prevalence Index = B/A =2.864Hydrophytic Vegetation Indicators: \checkmark Dominance Test is > 50% \checkmark Prevalence Index is <3.0
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1. 2. 3. 4. 5. 6. 7. 8. 9. 10. Her 1. 2. 3.	Salix pulchra Betula glandulosa Vaccinium uliginosum Empetrum nigrum Rhododendron tomentosum Total Cove b Stratum Equisetum arvense Luzula arcuata Festuca altaica Anemone narcissiflora	$ \begin{array}{c} 15\\ 10\\ 20\\ 5\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 15\\ 2\\ 5\\ 1\\ 1 \end{array} $	S of Total Cover	FACW FAC	OBL Species0x 1 =0FACW Species20x 2 =40FAC Species68.1x 3 =204.3FACU Species7.1x 4 =28.4UPL Species0x 5 =0Column Totals:95.2(A)272.7Column Totals:95.2(A)272.7Prevalence Index = B/A =2.864Hydrophytic Vegetation Indicators: \checkmark Dominance Test is > 50% \checkmark Prevalence Index is <3.0
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1. 2. 3. 4. 5. 6. 7. 8. 9. 10. Her 1. 2. 3. 4. 5.	Salix pulchra Betula glandulosa Vaccinium uliginosum Empetrum nigrum Rhododendron tomentosum	$ \begin{array}{c} 15\\ 10\\ 20\\ 5\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 15\\ 2\\ 5\\ 1\\ 1\\ 2\\ 1\\ 2\\ 1\\ 2\\ 1\\ 2\\ 1\\ 2\\ 1\\ 2\\ 1\\ 2\\ 1\\ 2\\ 1\\ 2\\ 1\\ 2\\ 1\\ 2\\ 1\\ 2\\ 1\\ 2\\ 1\\ 2\\ 2\\ 1\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\$	S of Total Cover	FACW FAC FAC FAC FAC FACW FAC FACU FAC FACU FAC FAC FAC	OBL Species0x 1 =0FACW Species20x 2 =40FAC Species68.1x 3 =204.3FACU Species7.1x 4 =28.4UPL Species0x 5 =0Column Totals:95.2(A)272.7Prevalence Index = B/A =2.864Hydrophytic Vegetation Indicators: \checkmark Dominance Test is > 50% \checkmark Prevalence Index is ≤ 3.0 \square Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) \square Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.Plot size (radius, or length x width)10m% Cover of Wetland Bryophytes
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Depth		Matrix			licator or con Red	ox Featu		cators)		
<i>a</i> i ,	color (m	oist)	%	Color (m	oist)	%	Type ¹	Loc 2	Texture	Remarks
0-3			100						Fibric Organics	
3-5			100						Sapric Organics	-
5-9 2	2.5Y	4/2	100					-	Coarse Sand	
9-15	5Y	3/1	75	10YR	6/6	25	RM	PL	Sandy Loam	-
15-17 2	2.5Y	3/2	100						Clay Loam	with coarse angular pebbles.
		· ·								
¹ Type: C=Concentra	ation. D	=Depletion	. RM=Redu	ced Matrix	² Location	: PL=Por	e Lining. R	C=Root Cha	annel. M=Matrix	-
Hydric Soil Indica	tors:			Indicat	ors for Pro	oblemati	c Hydric S	oils: ³		
 Histosol or Histe Histic Epipedon Hydrogen Sulfide 	(A2)			Alask	ka Color Ch ka Alpine sv ka Redox W	vales (TA	5)		Alaska Gleyed Without H Underlying Layer Other (Explain in Remar	
Thick Dark Surfa	ace (A12 A13)	2)		³ One ir	ndicator of I	hydrophy			mary indicator of wetland l esent	nydrology,
Alaska Redox (A	,	15)		⁴ Give d	letails of co	lor chang	e in Remar	ks		
Restrictive Layer (if p	resent)	:								
Type:									Hydric Soil Present	:? Yes 🖲 No 🔾
Depth (inches):									inguine boin i resein	
Remarks:										
,										
Remarks:										
Remarks:	y Indic	ators:							Secondary Ind	icators (two or more are required)
Remarks: HYDROLOGY	-		t)							icators (two or more are required) ined Leaves (B9)
Remarks: HYDROLOGY Wetland Hydrology	any one		t)	Int	undation Vi	sible on A	erial Image	ery (B7)	Water Sta	
Remarks: HYDROLOGY Wetland Hydrology Primary Indicators (a Surface Water (High Water Tab	any one A1)		t)				erial Image		Water Sta	ined Leaves (B9)
Remarks: HYDROLOGY Wetland Hydrology Primary Indicators (a Surface Water (High Water Tab Saturation (A3)	A1) Ie (A2)		t)	Sp	arsely Vege Irl Deposits	etated Cor (B15)	ncave Surfa		Water Sta	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4)
Remarks: HYDROLOGY Wetland Hydrology Primary Indicators (a Surface Water (High Water Tab Saturation (A3) Water Marks (B	an <u>v one</u> A1) le (A2) 1)	<u>e is sufficien</u>	t)	Sp	arsely Vege	etated Cor (B15)	ncave Surfa		Water Sta	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4)
HYDROLOGY Wetland Hydrology Primary Indicators (a) Surface Water (High Water Tab Saturation (A3) Water Marks (B) Sediment Depose	A1) A1) le (A2) 1) sits (B2	<u>e is sufficien</u>	t)	Sp Ma Hy	arsely Vege Irl Deposits	etated Cor (B15) fide Odor	ncave Surfa (C1)		Water Sta	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) r Stressed Plants (D1)
HYDROLOGY Wetland Hydrology Primary Indicators (a) Surface Water (a) High Water Tab Saturation (A3) Water Marks (B) Sediment Deposits (ferrite to the second sec	an <u>y one</u> A1) le (A2) 1) sits (B2 33)	: is sufficien:	t)	Sp Ma Hy Dr	arsely Vege Irl Deposits drogen Sult	etated Cor (B15) fide Odor /ater Tabl	(C1) (C2)		Water Sta	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) r Stressed Plants (D1) hic Position (D2)
HYDROLOGY Wetland Hydrology Primary Indicators (a) Surface Water (High Water Tab Saturation (A3) Water Marks (B) Sediment Depose	an <u>y one</u> A1) le (A2) 1) sits (B2 33)	: is sufficien:	t)	Sp Ma Hy Dr	arsely Vege Irl Deposits drogen Suli y-Season W	etated Cor (B15) fide Odor /ater Tabl	(C1) (C2)		Water Sta	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) r Stressed Plants (D1)
Remarks: HYDROLOGY Wetland Hydrology Primary Indicators (a Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Depose Drift Deposits (F Algal Mat or Cru Iron Deposits (F	A1) A1) le (A2) 1) sits (B2) 33) ust (B4) 35)) : } is sufficien	t)	Sp Ma Hy Dr	arsely Vege Irl Deposits drogen Suli y-Season W	etated Cor (B15) fide Odor /ater Tabl	(C1) (C2)		Water Sta Drainage Oxidized F Presence G Salt Depos Stunted o ✓ Geomorph Shallow A Microtopo	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) r Stressed Plants (D1) nic Position (D2) quitard (D3) graphic Relief (D4)
Remarks: HYDROLOGY Wetland Hydrology Primary Indicators (a Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Depose Drift Deposits (f Algal Mat or Cru	A1) A1) le (A2) 1) sits (B2) 33) ust (B4) 35)) : } is sufficien	t)	Sp Ma Hy Dr	arsely Vege Irl Deposits drogen Suli y-Season W	etated Cor (B15) fide Odor /ater Tabl	(C1) (C2)		Water Sta Drainage Oxidized F Presence of Salt Depoi Stunted of Geomorph Shallow A	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) r Stressed Plants (D1) nic Position (D2) quitard (D3) graphic Relief (D4)
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Remarks: HYDROLOGY Wetland Hydrology Primary Indicators (a Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Deposits (E Algal Mat or Cru Iron Deposits (E Surface Soil Cra	A1) A1) le (A2) 1) sits (B2) 33) ust (B4) 35) ccks (B6))) Yes () No •	Sp Ma Hy Dr Ot	arsely Vege Irl Deposits drogen Suli y-Season W	etated Cor (B15) fide Odor /ater Tabl n in Rema	(C1) (C2)		Water Sta Drainage Oxidized F Presence G Salt Depos Stunted o ✓ Geomorph Shallow A Microtopo	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) r Stressed Plants (D1) nic Position (D2) quitard (D3) graphic Relief (D4)
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Remarks: