WETLAND DETERMINATION DATA FORM - Alaska Region

Absolute Cover	Project/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 31-Aug-15
Landform (Fillable)	Applicant/Owner: Alaska Energy Authority				Sampling Point: SW15_T349_02
Local relief (concave, convex, none): hummocky Slope: 26.7 % / 15.0 ° Elevation: Datum: WGS84			Landform (hill	side, terrac	
Solid Name Lat:			Slope: 26.7	% / 15.0	O ° Elevation:
Solid Map Unit Name: New Classification: PSS1E New N	•	Lat ·			
Tree stratum					
Are Vegetation Sol or Hydrology significantly disturbed? Are Vegetation Sol or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No Is the Sampled Area within a Wetland? Yes No No Wetland Hydrology Present? Yes No No No No No No No No	·		2 Voo	● No ○	
Are Vegetation		•			
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No So		-	•		F
Hydrophytic Vegetation Present? Yes ● No ○				·	· · · · · ·
Hydric Soil Present?	SUMMARY OF FINDINGS - Attach site map show	wing sa	mpling point	locations	s, transects, important features, etc.
Wetland Hydrology Present? Yes	Hydrophytic Vegetation Present? Yes ● No C)			
Wetland Hydrology Present? Yes	Hydric Soil Present? Yes ● No C)			-
Remarks)	wi	ithin a W	etland? Yes • No 🔾
Tree Stratum					
Tree Stratum					
Absolute Dominant Species Status Total Catero Species Status Total All and each Species Status Total All and each Species Status					
Tree Stratum	VEGETATION - Use scientific names of plants. Li	st all sp	ecies in the	plot.	
Tree Stratum					Dominance Test worksheet:
2. 2. 3.	Tree Stratum				
2.	1.				
3.	2.				
Total Cover	3.				
Total Cover: 0	4.				
Total Cover: 0	5.				Prevalence Index worksheet:
1. Salix pulchra 2. Betula nana 3. Salix alaxensis 4. Alnus viridis 5. Picea mariana 7. FACW 6. Vaccinium uliginosum 7. Betula nana 7. FACW 9. Cover of Wetand Bryophytes 1. Carex bigelowii 1. Carex bigelowii 2. Petasites frigidus 3. Calamagrostis stricta ssp. inexpansa 4. Bistorta plumosa 5. Detail Cover: 5. Pacw 10. Detail Cover: 11. Carex bigelowii 10. FACW 10. FACW 11. Carex bigelowii 10. FACW 12. Petasites frigidus 13. Calamagrostis stricta ssp. inexpansa 15. FACW 15. FACW 16. Vaccinium uliginosum 17. FACW 18. Detail Cover: 18. Detail Cover: 19. Petasites frigidus 10. FACW 11. Carex bigelowii 10. FACW 12. Petasites frigidus 13. Calamagrostis stricta ssp. inexpansa 15. FACW 16. FACW 17. FACW 18. Problematic Hydrophytic Vegetation (Explain) 19. Problematic Hydrophytic Vegetation (Explain) 19. Detail Cover: 10. Detail Cover: 10. Detail Cover: 10. Detail Cover: 11. FACW 19. Problematic Hydrophytic Vegetation (Explain) 19. Detail Cover: 10. Detail Cover: 10. Detail Cover: 11. FACW 19. Problematic Hydrophytic Vegetation (Explain) 19. Detail Cover: 19. Problematic Hydrophytic Vegetation (Explain) 19. Detail Cover: 10. Detail Cover: 10. Detail Cover: 10. Detail Cover: 11. FACW 19. Problematic Hydrophytic Vegetation (Explain) 19. Detail Cover: 10. Detail Cover: 10. Detail Cover: 10. Detail Cover: 11. FACW 19. Problematic Hydrophytic Vegetation (Explain) 19. Detail Cover: 10. Detail Cover: 10. Detail Cover: 10. Detail Cover: 11. FACW 11. Problematic Hydrophytic Vegetation (Explain) 11. Detail Cover of Wetland Bryophytes 12. Problematic Hydrophytic Vegetation 19. Detail Cover: 19. Problematic Hydrophytic Vegetation 19. Detail Cover: 19. Problematic Hydrophytic Vegetation 19. Detail Cover of Bryophytes 10. Detail Cover: 10. Detail Cover: 10. Detail Cover: 11. All Cover of Bryophytes 10. Detail Cover: 10. Detail Cover: 10. Detail Cover: 10. Detail Cover: 11. Paccover: 11. Pacco	Total Covers		_		
2. Betula nana	Sapling/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cover:	0	OBL Species 0 x 1 = 0
2. Betula nana 3. Salix alaxensis 4. Alnus viridis 5. Picea mariana 7. □ FAC 6. Vaccinium uliginosum 5. □ Gara bigelowii 10. □ FAC 11. Carex bigelowii 2. Petasites frigidus 3. Calamagrostis stricta ssp. inexpansa 4. Bistorta plumosa 5. □ Gara bigelowii 5. □ Gara bigelowii 6. □ Gara bigelowii 7. □ Gara bigelowii 8. □ Gara bigelowii 9. □ Gara bigelowii 10. □ FAC 11. Carex bigelowii 12. Petasites frigidus 13. Calamagrostis stricta ssp. inexpansa 14. Bistorta plumosa 15. □ Gara bigelowii 16. □ Gara bigelowii 17. □ Gara bigelowii 18. □ Gara bigelowii 19. □ Gara bigelowii 10. □ FAC 10. □ FAC 11. Carex bigelowii 10. □ FAC 12. Prevalence Index is ≤3.0 13. □ FAC 14.4 14. Bistorta plumosa 15. □ FAC 15. □ Gara bigelowii 16. □ Gara bigelowii 17. □ Gara bigelowii 18. □ Gara bigelowii 19. □ FAC 19. □ Gara bigelowii 10. □ FAC 10. □ FAC 11. Carex bigelowii 10. □ FAC 12. FAC begeies 10. x 4 = 0 10. □ FAC 11. Carex bigelowii Pyrbide supporting data in Remarks or on a separate sheet) 10. □ FAC 11. Carex bigelowii 10. □ FAC 11. Carex bigelowii 10. □ FAC 12. □ FAC 12. □ FAC 13. □ FAC 14. Φrevalence Index = B/A = 1.53 10. □ FAC 14. Φrevalence Index = B/A = 1.53 10. □ FAC 14. Φrevalence Index = B/A = 1.53 10. □ FAC 14. Φrevalence Index = B/A = 1.53 10. □ FAC 14. Φrevalence Index = B/A = 1.53 10. □ FAC 14. Φrevalence Index = B/A = 1.53 10. □ FAC 14. Φrevalence Index = B/A = 1.53 10. □ FAC 14. Φrevalence Index = B/A = 1.53 10. □ FAC 14. Φrevalence Index = B/A = 1.5 14. Φrev	Salix pulchra	25	\checkmark	FACW	FACW Species 44 x 2 = 88
All Nus viridis 10	· · · ·	15		FAC	FAC Species51 x 3 =153
5. Picea mariana 7 FACW Column Totals: 95 (A) 241 (II) 6. Vaccinium uliginosum 5 FAC Prevalence Index = B/A = 2.537 8.	3. Salix alaxensis	10		FAC	FACU Species0 x 4 =0
6. Vaccinium uliginosum 5	4. Alnus viridis	10		FAC	UPL Species <u>0</u> x 5 = <u>0</u>
6. Vaccinium uliginosum 7.	5. Picea mariana	7		FACW	Column Totals: 95 (A) 241 (B)
7. 0	6. Vaccinium uliginosum	5		FAC	
9.	7	0	. 🔲		Prevalence index = B/A =
Total Cover: 72_ 14.4 Herb Stratum	8	0	. 📙		Hydrophytic Vegetation Indicators:
Total Cover: 72		0	. 📙		
Herb Stratum 50% of Total Cover: 36 20% of Total Cover: 14.4 Remarks or on a separate sheet			. \square		✓ Prevalence Index is ≤3.0
1. Carex bigelowii 2. Petasites frigidus 3. Calamagrostis stricta ssp. inexpansa 4. Bistorta plumosa 5.				. 144	Morphological Adaptations (Provide supporting data in
2. Petasites frigidus 3. Calamagrostis stricta ssp. inexpansa 5	4. On this is				l <u> </u>
3. Calamagrostis stricta ssp. inexpansa 4. Bistorta plumosa 5	O Detector friedding		_		
4. Bistorta plumosa 1					Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5.	4 Distanta alumana		- 🗀		
6	·		- 🗀	17100	
7.		^			
8					
9					
10 0					
Total Cover: 23 Vegetation 50% of Total Cover: 11.5 20% of Total Cover: 4.6 Present? Yes • No					Hydrophytic
11.5 2575 C. Fotal Cover. 11.5 2575 Fotal Cover. 4.0		23	_		Vegetation
Remarks: 2% lichen cover	50% of Total Cover:1	11.5 20	% of Total Cover:	4.6	Present? Yes ♥ No U
	Remarks: 2% lichen cover				

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SOIL Sampling Point: SW15_T349_02

Donath	on: (Describe to the M	latrix	ded to docume	nt the indica		rm the abs		cators)		
Depth (inches)	Color (mois	st)	%	Color (moi	ist)	%	Type ¹	Loc ²	Texture	Remarks
0-4									Peat	
4-9									Mucky Peat	
9-11									Muck	
11-18	10YR	3/2	95	– 5YR	3/4	5		M	Loam	with gravel
									-	
¹ Type: C=Con	ncentration. D=I	Depletion. I	RM=Reduced	Matrix ²	Location:	PL=Pore	e Lining. RC	C=Root Cha	annel. M=Matrix	
Hydric Soil In	ndicators:		1	Indicator	s for Pro	blematio	Hydric S	oils: ³		
Histosol or	Histel (A1)		[Alaska	Color Cha	nge (TA4	1)4		Alaska Gleyed Without H	ue 5Y or Redder
✓ Histic Epipe	edon (A2)		Ĺ	Alaska	Alpine sw	ales (TA5	5)		Underlying Layer	
Hydrogen S	Sulfide (A4)		L	Alaska	Redox Wi	th 2.5Y H	lue		Other (Explain in Remark	(S)
Thick Dark	Surface (A12)			3 One indi	icator of h	vdrophyt	ic vegetatic	n one prir	mary indicator of wetland h	wdrology
Alaska Gley							e position i			rydrology,
Alaska Red	, ,			4 Give det	tails of cold	or change	e in Remark	(S		
Alaska Gley	yed Pores (A15))				. c.ia.ig				
Restrictive Laye	er (if present):									
Type:									Hydric Soil Present	? Yes • No O
Depth (inch	ies):									
HYDROLO(GY									
HYDROLOG Wetland Hydr		ors:							Secondary Indi	cators (two or more are required)
Wetland Hydr										cators (two or more are required) ned Leaves (B9)
Wetland Hydr	rology Indicat tors (any one is			☐ Inun	dation Visi	ible on Ae	erial Image	ry (B7)	Water Stai	
Wetland Hydr Primary Indicat Surface W High Wate	rology Indicat tors (any one is /ater (A1) er Table (A2)						erial Image Icave Surfa		Water Stai	ned Leaves (B9)
Wetland Hydr Primary Indicat Surface W High Wate Saturation	rology Indicat tors (any one is tater (A1) er Table (A2) n (A3)			Spar	sely Veget Deposits (ated Con (B15)	cave Surfa		Water Stai Drainage F Oxidized R Presence of	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4)
Wetland Hydr Primary Indicat Surface W ✓ High Wate ✓ Saturation Water Mar	rology Indicat tors (any one is later (A1) er Table (A2) n (A3) rks (B1)			Span	sely Veget Deposits (ogen Sulfi	ated Con (B15) de Odor	cave Surfa		Water Stai Drainage F Oxidized R Presence c Salt Depos	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5)
Wetland Hydr Primary Indicat ☐ Surface W ✓ High Wate ✓ Saturation ☐ Water Mar ☐ Sediment	rology Indicate tors (any one is /ater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2)			Spar	rsely Veget Deposits (rogen Sulfi Season Wa	ated Con (B15) de Odor ater Table	cave Surface (C1) e (C2)		Water Stai Drainage F Oxidized R Presence c Salt Depos Stunted or	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) Stressed Plants (D1)
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