WETLAND DETERMINATION DATA FORM - Alaska Region

	t/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 01-Aug-12
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW12_T52_03
Investi	gator(s): CTS, EKJ		Landform (hill:	side, terrac	e, hummocks etc.): Footslope
	relief (concave, convex, none): concave		Slope:		3 ° Elevation: 705
	gion : Interior Alaska Mountains	l at ·	62.792216478		Long.: -148.535469068 Datum: NAD83
	ap Unit Name:	Lut	02.792210470		NWI classification: PSS1B
			-0 Voo	No ○	
	matic/hydrologic conditions on the site typical for this tir /egetation	•	ly disturbed?		(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○
		•	roblematic?		ornar orradinatarioes present:
	, , ,				eded, explain any answers in Remarks.)
SUMI	MARY OF FINDINGS - Attach site map show	ving san	npling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes ● No ○		lo	the Com	nlad Area
	Hydric Soil Present? Yes ● No ○				pled Area etland? Yes ● No ○
	Wetland Hydrology Present? Yes No			thin a W	Citaria :
Rem	arks: Fnwbs, boderline to open black spruce forest, cou	ld argue >	>=25% cover o	of Picmar m	naybe
VEGI	ETATION -Use scientific names of plants. List	st all spe	ecies in the	olot.	
	,	Absolute			Dominance Test worksheet:
Tre	e Stratum	% Cover		Status	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)
1.	Picea mariana	20	✓	FACW	That are OBL, FACW, or FAC:4 (A) Total Number of Dominant
2.		0			Species Across All Strata: 4 (B)
3.		0			Percent of dominant Species
4.		0	. 📙		That Are OBL, FACW, or FAC: 100.0% (A/B)
5.		0	. \square		Prevalence Index worksheet:
	Total Cover:		,		Total % Cover of: Multiply by:
Sap	oling/Shrub Stratum 50% of Total Cover:	10 20%	of Total Cover:	4	OBL Species
1.	Salix pulchra	5		FACW	FACW Species 45 x 2 = 90
2.	Betula nana	10		FAC	FAC Species <u>88</u> x 3 = <u>264</u>
3.	in the second se				FACU Species 0 x 4 = 0
٥.	Vaccinium uliginosum	40		FAC	
4.	Vaccinium vitis-idaea	8		FAC	UPL Species 0 x 5 = 0
4.	Vaccinium vitis-idaea	8		FAC	UPL Species $0 \times 5 = 0$ Column Totals: 133 (A) 354 (B)
4. 5. 6.	Vaccinium vitis-idaea Rhododendron groenlandicum	8		FAC	UPL Species 0 x 5 = 0
4. 5. 6. 7. 8.	Vaccinium vitis-idaea Rhododendron groenlandicum Rhododendron tomentosum	8 3 10 1 0		FAC FAC	UPL Species $0 \times 5 = 0$ Column Totals: $133 \times 6 = 0$ Prevalence Index = B/A = 2.662 Hydrophytic Vegetation Indicators:
4. 5. 6. 7. 8. 9.	Vaccinium vitis-idaea Rhododendron groenlandicum Rhododendron tomentosum Empetrum nigrum	8 3 10 1 0 0		FAC FAC	UPL Species 0 x 5 = 0 Column Totals: 133 (A) 354 (B) Prevalence Index = B/A = 2.662 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%
4. 5. 6. 7. 8.	Vaccinium vitis-idaea Rhododendron groenlandicum Rhododendron tomentosum Empetrum nigrum	8 3 10 1 0 0		FAC FAC	UPL Species $0 \times 5 = 0$ Column Totals: $133 \times 6 = 0$ Prevalence Index = B/A = 2.662 Hydrophytic Vegetation Indicators: Dominance Test is > 50% Prevalence Index is ≤ 3.0
4. 5. 6. 7. 8. 9.	Vaccinium vitis-idaea Rhododendron groenlandicum Rhododendron tomentosum Empetrum nigrum Total Covers	8 3 10 1 0 0 0	% of Total Cover	FAC FAC FACW	UPL Species 0 $x = 0$ Column Totals: 133 (A) 354 (B) Prevalence Index = B/A = 2.662 Hydrophytic Vegetation Indicators: Dominance Test is > 50% Prevalence Index is ≤ 3.0 Morphological Adaptations 1 (Provide supporting data in
4. 5. 6. 7. 8. 9. 10. Her	Vaccinium vitis-idaea Rhododendron groenlandicum Rhododendron tomentosum Empetrum nigrum Total Cover: 50% of Total Cover:	8 3 10 1 0 0 0 77 38.5 209		FAC FACW FAC	UPL Species 0 $x = 0$ Column Totals: 133 (A) 354 (B) Prevalence Index = B/A = 2.662 Hydrophytic Vegetation Indicators: Dominance Test is > 50% Prevalence Index is ≤ 3.0 Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet)
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4. 5. 6. 7. 8. 9. 10. Hea	Vaccinium vitis-idaea Rhododendron groenlandicum Rhododendron tomentosum Empetrum nigrum Total Cover: 50% of Total Cover: Rubus chamaemorus Equisetum sylvaticum	8 3 10 1 0 0 0 77 38.5 209		FAC FACW FAC	UPL Species 0 $x = 0$ Column Totals: 133 (A) 354 (B) Prevalence Index = B/A = 2.662 Hydrophytic Vegetation Indicators: Dominance Test is > 50% Prevalence Index is ≤ 3.0 Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet)
4. 5. 6. 7. 8. 9. 10. Her 1. 2. 3.	Vaccinium vitis-idaea Rhododendron groenlandicum Rhododendron tomentosum Empetrum nigrum Total Cover: 50% of Total Cover: Equisetum sylvaticum Carex bigelowii	8 3 10 1 0 0 0 77 38.5 209 10 20 6	V	FAC FACW FAC 15.4 FACW FAC	UPL Species 0 x 5 = 0 Column Totals: 133 (A) 354 (B) Prevalence Index = B/A = 2.662 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤ 3.0
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SOIL Sampling Point: SW12_T52_03

Depth (inches) 0-4 4-7 7-9 9-12 12-15 Type: C=Conce	10YR 5Y 5GY 5Y	3/2 4/1 5/1	90 95	Color (m		<u>%</u>	Type ¹	_Loc_2	Texture Fibric Organics	Remarks
4-7 7-9 9-12 12-15	5Y 5GY	4/1	90	10YR	2/6				Fibric Organics	
7-9 9-12 12-15	5Y 5GY	4/1		10YR	216					
9-12 12-15 Type: C=Conce	5GY		95		3/6	2	C	PL	Sandy Loam	5% semirounded gravel
12-15 Type: C=Conce		5/1		10YR	3/6	5	С	PL	Sandy Loam	_
Type: C=Conce	5Y		70	10YR	3/6	30	С	PL	Sandy Loam	_
		4/2	70	10YR	4/6	30	С	M	Sandy Loam	pockets of gley in pore lining and along
										_
	entration. D	=Depletion	RM=Reduc	ed Matrix	² Location:	PI =Pore	e Linina. RO	=Root Cha	nnel M=Matrix	
yarıc son mic							_			
Historol or F					Indicators for Problematic Hydric Soils: ³ Alaska Color Change (TA4) Alaska Color Change (TA4)			Jii3.	Alaska Gleved Without	Hue 5V or Redder
Histosol or Histel (A1) Histic Epipedon (A2)				Alaska Alpine swales (TA5)				☐ Alaska Gleyed Without Hue 5Y or Redder Underlying Layer		
Hydrogen Su					ka Redox W	•	•		Other (Explain in Rema	rks)
Thick Dark S)								
Alaska Gleye	ed (A13)				ndicator of h appropriate				nary indicator of wetland	hydrology,
Alaska Redo	x (A14)						•	•	cocine	
Alaska Gleye	ed Pores (A1	5)		4 Give o	letails of col	or change	e in Remari	(S		
estrictive Layer	(if present):									
Type:									Hydric Soil Presen	it? Yes ⊙ No 🔾
Depth (inches	s):									
POROLOG	Ϋ́									
etland Hydro									Secondary Inc	dicators (two or more are required)
rimary Indicato		is sufficient)							ained Leaves (B9)
Surface Water (A1)			Inundation Visible on Aerial Imagery (B7)				, , ,		Patterns (B10)	
High Water Table (A2) Saturation (A3)			Sparsely Vegetated Concave Surface (B8)						Rhizospheres along Living Roots (C3 of Reduced Iron (C4)	
Water Marks (B1)			✓ Marl Deposits (B15)✓ Hydrogen Sulfide Odor (C1)					Salt Depo		
Sediment Deposits (B2)				Dry-Season Water Table (C2)						or Stressed Plants (D1)
Drift Deposits (B3)			Other (Explain in Remarks)						hic Position (D2)	
Algal Mat or					rici (Expidii)	iii recina	ino)		_	Aguitard (D3)
☐ Iron Deposits (B5)										ographic Relief (D4)
Surface Soil	Cracks (B6))							✓ FAC-neut	ral Test (D5)
eld Observati	ions:									
urface Water P	Present?	Yes \bigcirc	No 💿	De	epth (inches):				
Vater Table Pre	esent?	Yes 🔾	No 💿	De	epth (inches):		Wetla	nd Hydrology Prese	nt? Yes 💿 No 🔾
aturation Prese includes capilla		Yes •	No O	De	epth (inches): 4				
escribe Recorde	ed Data (stre	eam gauge,	monitor we	ell, aerial p	hotos, previ	ous inspe	ection) if av	ailable:		
emarks:										
maritor		table or sha								

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