WETLAND DI	ETERMINA	TION DAT	TA FORM	- Alaska Region								
Project/Site: Susitna-Watana Hydroelectric Project	Во	rough/City:	Matanusk	a-Susitna Borough Sampling Date:	11-Jul-13							
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW1	3_T108_01							
Investigator(s): JER	L	andform (hill	side, terrac	e, hummocks etc.): Undulating								
Local relief (concave, convex, none): hummocky	5	Slope:	% / 3.2	e Elevation: 712								
Subregion : Interior Alaska Mountains	Lat.: 6	2.881030559	96	Long.: -148.255005479 Datu	ım: NAD83							
Soil Map Unit Name:				NWI classification: PSS1/3B								
Are climatic/hydrologic conditions on the site typical for this t Are Vegetation, Soil, or Hydrology	me of year? significantly	Yes disturbed?		(If no, explain in Remarks.) ormal Circumstances" present? Yes ●	No 🔿							
Are Vegetation \Box , Soil \Box , or Hydrology \Box	naturally pro	blematic?	(If nee	ded, explain any answers in Remarks.)								
SUMMARY OF FINDINGS - Attach site map sho	• •	oling point	locations	, transects, important features, etc	с.							
Hydrophytic Vegetation Present? Yes No		ls	the Sam	pled Area								
Hydric Soil Present? Yes No	thin a W											
Wetland Hydrology Present? Yes No)	VVI										
Remarks: lower slope, slcbe/slobe, water in depressions VEGETATION - Use scientific names of plants. List all species in the plot.												
				Dominance Test worksheet:								
Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species								
1.	0				<u>6</u> (A)							
2.	0			Total Number of Dominant Species Across All Strata:	6 (B)							
3.	0			Percent of dominant Species	<u> </u>							
4.	0				0.0% (A/B)							
5.	0			Prevalence Index worksheet:								
Total Cover	:			Total % Cover of: Multiply by:	:							
Sapling/Shrub Stratum 50% of Total Cover:	<u>0</u> 20% o	of Total Cover:	0	OBL Species 2 x 1 =	2							
1. Betula nana	25	\checkmark	FAC	FACW Species 38 x 2 =	76							
2. Vaccinium uliginosum	40	\checkmark	FAC	FAC Species 124 x 3 =	372							
3. Rhododendron tomentosum	35	\checkmark	FACW	FACU Species 0.1 x 4 =	0.400							
4. Vaccinium vitis-idaea	25	\checkmark	FAC	UPL Species x 5 =	0							
5. Empetrum nigrum	20		FAC	Column Totals: <u>164.1</u> (A)	450.4 (B)							
6. Andromeda polifolia (IAM)	2		OBL									
7. Picea glauca	0.1		FACU	Prevalence Index = B/A =2.7	745							
8. Rhododendron groenlandicum	2		FAC	Hydrophytic Vegetation Indicators:								
9. Betula glandulosa	5		FAC	\checkmark Dominance Test is > 50%								
10	0			✓ Prevalence Index is \leq 3.0								
Total Cover Herb Stratum 50% of Total Cover:		of Total Cover	30.82	Morphological Adaptations ¹ (Provide sup Remarks or on a separate sheet)								
1. Rubus chamaemorus	2	\checkmark	FACW	Problematic Hydrophytic Vegetation ¹ (Ex	(plain)							
2. Carex bigelowii	7		FAC	¹ Indicators of hydric soil and wetland hydrolog	gy must							
3. Pedicularis labradorica	1		FACW	be present, unless disturbed or problematic.								
4	0			Plot size (radius, or length x width) 1	LOm							
5	0			% Cover of Wetland Bryophytes								
6				(Where applicable)								
7				% Bare Ground _1	L							
8	-			Total Cover of Bryophytes 4	10							
9												
10	0			Hydrophytic								

Remarks: lichf 25, aulpal 10, flacuc, cladi, neparc, stereo, water 1

Total Cover: <u>10</u>

50% of Total Cover: ______ 20% of Total Cover:

Hydrophytic Vegetation Present?

2

Yes 💿 No 🔾

Profile Description:	: (Describe to		eeded to doci	ument the indicator o	or confirm the ab Redox Featu		cators)			
Depth — (inches)	.	Matrix					_Loc_2	Texture	Remarks	
0-3	Color (m	ioist)	<u>%</u> 100	Color (moist)	%	Type ¹	_Loc	Fibric Organics	Kemarks	
3-8			100 -					Hemic Organics		
8-9	5YR	2.5/2	100	,				Sand	org nixed in	
9-18	10YR	3/3	100					Loamy Sand	org inclusions	
				,						
. <u> </u>										
¹ Type: C=Conce		 D=Depletion		ced Matrix ² Loc	ation: PI =Por	– – – Rí	~=Root Cha	nnel M=Matrix		
						-				
Hydric Soil Indi				Indicators fo		4	oils:			
Histosol or Histel (A1) Histic Epipedon (A2)			Alaska Color Change (TA4)				Alaska Gleyed Without Hue 5Y or Redder Underlying Layer			
Histic Epiped					dox With 2.5Y I	,	\checkmark	Other (Explain in Remark	(5)	
Thick Dark Su	. ,	2)								
Alaska Gleyed	•	2)		³ One indicato	or of hydrophy	tic vegetatio	on, one prim	nary indicator of wetland h	ıydrology,	
Alaska Redox				and an appro	priate landscap	be position i	must be pre	esent		
Alaska Gleyed	• •	.15)		⁴ Give details	of color chang	e in Remarl	KS .			
Restrictive Layer ((if present)):								
Type: frost								Hydric Soil Present	? Yes 🖲 No 🔾	
Depth (inches): 18							·		
Remarks:										
9-18in: posIitive re	eaction to	alpha alpha	-dipyridyl							
HYDROLOG	Y									
Wetland Hydrol			1		1	1		Secondary India	cators (two or more are required)	
Primary Indicator		e is sufficient	<u>t)</u>						ned Leaves (B9)	
Surface Water (A1) Inundation Visible on Aerial Imagery (B7)						ry (B7)		Patterns (B10)		
							ce (B8)	_	hizospheres along Living Roots (C3)	
	Saturation (A3) Marl Deposits (B15)								of Reduced Iron (C4)	
Water Marks			Hydrogen Sulfide Odor (C1)					Salt Deposits (C5)		
	ient Deposits (B2) Dry-Season Water Table (C2)							Stunted or Stressed Plants (D1) Geomorphic Position (D2)		
	. ,	、		U Other (E	xplain in Rema	irks)				
Algal Mat or)						Shallow Aq	graphic Relief (D4)	
Surface Soil	. ,	5)								
Field Observatio	•))								
Surface Water Pr		Yes C) No 🖲	Depth (ir	nches):					
Water Table Pres				-r - X	nches): 4		Wetlar	nd Hydrology Presen	it?Yes 🖲 No 🔾	
Saturation Preser	ent?				nches): 3					
(includes capillar		163 0		Depui (ii	licities). 5					

Remarks: