WETLAND DETERMINATION DATA FORM - Alaska Region

Project/	Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 24-Aug-15			
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW15_T343_02			
nvestig	ator(s): ERT, TXC		Landform (hills	side, terrac	e, hummocks etc.): Footslope			
_ocal re	lief (concave, convex, none): flat		Slope: 7.0	%/ 4.0	· · · · ·			
	on : Interior Alaska Mountains	Lat.:			Long.: Datum: WGS84			
-		Lat						
) Unit Name:			• No ()	NWI classification: Upland			
Are Ve Are Ve	atic/hydrologic conditions on the site typical for this egetation , Soil , or Hydrology egetation , Soil , or Hydrology , or Hydrology ARY OF FINDINGS - Attach site map sho	significant naturally p owing sar	tly disturbed? problematic?	Are "N (If nee	(If no, explain in Remarks.) lormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes $ullet$ No (_					
	Hydric Soil Present? Yes \bigcirc No \bigcirc	ullet			npled Area			
	Wetland Hydrology Present? Yes \bigcirc No (ullet	wi	thin a W	/etland? Yes 🔾 No 🖲			
	rks: Footslope, grade decreases. Grade increases do			plot.				
_	. .	Absolute		Indicator	Dominance Test worksheet: Number of Dominant Species			
-	Stratum Picea glauca	<u>% Cove</u>		Status	That are OBL, FACW, or FAC: (A)			
				FACU	Total Number of Dominant			
2.					Species Across All Strata: <u>6</u> (B)			
3.					Percent of dominant Species			
4. 5.					That Are OBL, FACW, or FAC:(A/B)			
5.	Tatal Caus	0			Prevalence Index worksheet:			
				2	Total % Cover of: Multiply by:			
Sapl	ing/Shrub Stratum 50% of Total Cover:	7.5 209	% of Total Cover:	3	OBL Species $0 \times 1 = 0$			
1.	Betula nana	60	\checkmark	FAC	FACW Species <u>11</u> x 2 = <u>22</u>			
2.	Vaccinium uliginosum	18	\checkmark	FAC	FAC Species <u>112</u> x 3 = <u>336</u>			
3.	Empetrum nigrum	15		FAC	FACU Species <u>18</u> x 4 = <u>72</u>			
4.	Betula glandulosa	10		FAC	UPL Species x 5 =			
5.	Rhododendron tomentosum	8		FACW	Column Totals: <u>141</u> (A) <u>430</u> (B)			
6.	Vaccinium vitis-idaea	7		FAC	Prevalence Index = B/A = 3.050			
7.	Salix pulchra	3		FACW				
8.		0			Hydrophytic Vegetation Indicators:			
					✓ Dominance Test is > 50%			
10.		0			Prevalence Index is ≤3.0			
Hert	Total Cove Stratum 50% of Total Cover:		% of Total Cover	24.2	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)			
1.	Spinulum annotinum	3		FACU	Problematic Hydrophytic Vegetation (Explain)			
	Carex bigelowii	1		FAC	¹ Indicators of hydric soil and wetland hydrology must			
3.	Calamagrostis canadensis	1		FAC	be present, unless disturbed or problematic.			
4.		0			Plot size (radius, or length x width) <u>10m</u>			
5.					% Cover of Wetland Bryophytes			
6.					(Where applicable)			
					% Bare Ground			
8.					Total Cover of Bryophytes			
10.					Hydrophytic			
1								
	Total Cover 50% of Total Cover:	-	-	1	Vegetation Present? Yes • No O			

SOI	L

		the depth ne fatrix	eded to docu	ment the indicator or cor Rec	nfirm the ab		cators)			
(inches)	Depth		%	Color (moist) <u>%</u> Type ¹		Loc 2	Texture	Remarks		
0-4		_						Fibric Organics	Oi	
4-5.5								Hemic Organics	Oe	
5.5-10		5/2						Sandy Loam	EA. borderline SiL	
10-13		3/3	100					Fine Sandy Loam	Bs1	
									-	
13-16	7.5YR	6/6	100					Silt Loam	Bs2b. borderline VFSL	
16-18	10YR	3/4		<u></u>				Loamy Fine Sand	BC	
¹ Type: C=Cor	ncentration. D=	Depletion	RM=Reduc	ed Matrix ² Locatior	n: PL=Por	e Lining. R	C=Root Cha	nnel. M=Matrix		
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	c Hydric S	oils: ³			
Histosol or	Histel (A1)			🗌 Alaska Color Ch	nange (TA	4) ⁴		Alaska Gleyed Without H	ue 5Y or Redder	
Histic Epip	edon (A2)			Alaska Alpine s	wales (TA	5)	_	Underlying Layer		
Hydrogen	Sulfide (A4)			Alaska Redox V	Vith 2.5Y I	Hue		Other (Explain in Remar	<s)< td=""></s)<>	
Thick Dark	s Surface (A12)			3 One indicator of	h. droph.	tic vocatati		any indicator of watland b	n drology	
Alaska Gle				and an appropriat				nary indicator of wetland h esent	iyurology,	
Alaska Rec				⁴ Give details of co	olor chang	e in Remar	ks			
Alaska Gle	yed Pores (A15	5)			nor chang		10			
Restrictive Laye	er (if present):									
Type:								Hydric Soil Present	? Yes 🔾 No 🖲	
Depth (inch	nes):									
Remarks:										
no hydric soil in	ndicators									
HYDROLO	GY									
Wetland Hydi	rology Indica	tors:						Secondary Indi	cators (two or more are required)	
Primary Indica	tors (any one is	s sufficien	.)					Water Stai	ned Leaves (B9)	
Surface W	/ater (A1)			Inundation V	isible on A	erial Image	ery (B7)	Drainage Patterns (B10)		
High Water Table (A2) Sparsely Vegetated Concave Surfa					ice (B8)		hizospheres along Living Roots (C3)			
Saturation	. ,			Marl Deposits	. ,				of Reduced Iron (C4)	
	Water Marks (B1)							Salt Depos		
Sediment Deposits (B2)							Stressed Plants (D1)			
Drift Depo	()			Other (Explai	n in Rema	arks)			ic Position (D2)	
	or Crust (B4)							_	quitard (D3)	
Iron Depo	()								graphic Relief (D4)	
	oil Cracks (B6)								al Test (D5)	
Field Observa		Vec	No 🖲	Donth (in-t-	c);					
Surface Water				Depth (inche			147 - +1	ad 11. advala D	47 Vac () N- ()	
Water Table P			No 💿	Depth (inche	s):		wetlar	nd Hydrology Presen	it? Yes 🔾 No 🖲	
Saturation Pre (includes capil		Yes C	No 🖲	Depth (inche	s):					
Describe Record	Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:									
Remarks:										
no wetland hyd	Irology indicato	ors								