WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	xa-Susitna Borough Sampling Date: 06-Jul-13		
Applica	int/Owner: Alaska Energy Authority	Sampling Point: SW13_T115_04					
Investig	gator(s): JGK		Landform (hillside, terrace, hummocks etc.): Valley bottom				
Local r	elief (concave, convex, none): hummocky		Slope: 1.7 % / 1.0 ° Elevation: 936				
Subrea	ion : Interior Alaska Mountains	l at ·	63.014464498	 R	Long.: -148.306808829 Datum: WGS84		
		Lutin	05.014404430	<u> </u>			
	p Unit Name:		0 V	No ○	NWI classification: PSS1B		
Are V	egetation	significantl naturally p wing sar	ly disturbed? roblematic?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.		
	Hydrophytic Vegetation Present? Yes No Westland Hydrology Present? Yes No			pled Area /etland? Yes ● No ○			
Rem	arks: DUNN SITE 1433 SOIL 1434						
	I FSA WCSP sinaina in nInt						
VEGE	ETATION - Use scientific names of plants. L	ist all spe	ecies in the	plot.			
		Absolute	Dominant	Indicator	Dominance Test worksheet:		
	e Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)		
1.		0	. 🔲		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	ling/Shrub Stratum 50% of Total Cover:	0 20%	6 of Total Cover:	:0	OBL Species 10 x 1 = 10		
1.	Betula nana	45	✓	FAC	FACW Species <u>50.1</u> x 2 = <u>100.2</u>		
2.	Ledum decumbens	30	✓	FACW	FAC Species <u>66</u> x 3 = <u>198</u>		
3.	Vaccinium uliginosum	10	. \square	FAC	FACU Species <u>5</u> x 4 = <u>20</u>		
4.	Vaccinium vitis-idaea	5		FAC	UPL Species		
5.	Spiraea stevenii	5	. 📙	FACU	Column Totals: <u>131.1</u> (A) <u>328.2</u> (B)		
6.	Empetrum nigrum	3	. 📙	FAC	Prevalence Index = B/A = 2.503		
	Empetrum nigrum	3	. 📙	FAC	Trevalence index = B/A =		
	Salix pulchra	0.1	. 📙	FACW	Hydrophytic Vegetation Indicators:		
					✓ Dominance Test is > 50%		
10.		0	. \square		✓ Prevalence Index is ≤3.0		
Her	Total Cover b Stratum 50% of Total Cover:		r: <u>20.22</u>	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
	Rubus chamaemorus			FACW	Problematic Hydrophytic Vegetation (Explain)		
	Carex aquatilis		. 💆	OBL	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
			. 📙		be present, unless disturbed of problematic.		
			. 📙		Plot size (radius, or length x width) 10m		
			. 📙		% Cover of Wetland Bryophytes 0		
					(Where applicable)		
					% Bare Ground		
			·		Total Cover of Bryophytes		
		0			Hydrophytic		
	Total Cover	: 30	. —		Hydrophytic Vegetation		
	50% of Total Cover:		6 of Total Cover:	:6	Present? Yes No		
Rem			6 of Total Cover	:6	Present? Yes No		

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SOIL Sampling Point: SW13 T115 04

Profile Descripti	ion: (Describe to	the depth ne	eded to docum	nent the inc	licator or con	firm the ab	sence of indic	cators)	<u>•</u> -	10mc. 5W15_1115_64		
Depth		Matrix				ox Featu			_			
(inches)	Color (mo	ist)	<u>%</u>	Color (m	oist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks		
0-4									Fibric Organics			
4-6.5	10YR	2/2		7.5YR	2/2		D	M	Silt Loam	charcoal fragments		
6.5-9	2.5Y	3/3		7.5YR	2.5/3		C	М	Silty Clay Loam			
								-	-			
									-			
¹ Type: C=Cor	ncentration. D	=Depletion	RM=Reduce	ed Matrix	² Location:	: PL=Por	e Lining. RC	C=Root Cha	annel. M=Matrix			
Hydric Soil I	ndicators:			Indicat	ors for Pro	blemati	c Hydric S	oils: ³				
Histosol or	r Histel (A1)			Alasł	ka Color Cha	ange (TA	4) ⁴		Alaska Gleyed Without Hue 5Y or Redder			
Histic Epip	edon (A2)				da Alpine Swales (TAS)				Underlying Layer			
Hydrogen	Sulfide (A4)			Alask	ka Redox W	ith 2.5Y F	Hue	V	Other (Explain in Remark	S)		
	Surface (A12)		3 One ir	ndicator of h	nvdronhvt	tic vegetatio	on, one prir	mary indicator of wetland h	vdrology.		
Alaska Gle					appropriate					,, a. o. o. g, ,		
Alaska Red	` ,	E)		4 Give d	letails of col	lor chang	e in Remark	KS				
	eyed Pores (A1	-										
Restrictive Laye	er (if present):									- · · · · ·		
Type: ice	\- 10 5								Hydric Soil Present	? Yes ● No O		
Depth (inch Remarks:	Jes): 10.5											
POSITIVE ALPH	M ALFIIA DII I	MDIL IO										
HYDROLO												
Wetland Hyd										cators (two or more are required)		
Primary Indica		<u>is sufficient</u>	.)						Water Stained Leaves (B9) (B7) Drainage Patterns (B10)			
Surface Water (A1) Inundation							_					
✓ High Water Table (A2)✓ Saturation (A3)				☐ Sparsely Vegetated Concave Surface (B8) ☐ Marl Deposits (B15)				ce (B8)		hizospheres along Living Roots (C3) of Reduced Iron (C4)		
	Water Marks (B1)				Hydrogen Sulfide Odor (C1)				Salt Depos	` ,		
Sediment Deposits (B2)				Dry-Season Water Table (C2)						Stressed Plants (D1)		
	Drift Deposits (B3)					Other (Explain in Remarks)				ic Position (D2)		
	or Crust (B4)				(=					juitard (D3)		
☐ Iron Depo	Iron Deposits (B5)								Microtopog	graphic Relief (D4)		
Surface S	oil Cracks (B6)								✓ FAC-neutra	l Test (D5)		
Field Observa	ations:		`									
Surface Water	r Present?		No 💿	De	epth (inches	;):						
Water Table P	resent?	Yes 🥌	No 🔾	De	epth (inches	;):		Wetla	nd Hydrology Presen	t? Yes 💿 No 🔾		
Saturation Pre (includes capi		Yes •	No O	De	epth (inches	s): 9						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												
POSITIVE ALPH	HA ALPHA DIP	/RIDYL RXI	١									

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