WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project		Borough/Ci	ty: Matanusl	ka-Susitna Borough Sampling Date: 11-Jul-13							
Applicant/Owner: Alaska Energy Authority Sampling Point: SW13_T190_04												
	gator(s): JGK	ce, hummocks etc.): Mound										
	relief (concave, convex, none): hummocky	% / 4.7	7 ° Elevation: 871									
	gion : Interior Alaska Mountains	l at ·	_									
		Lat	02.934990									
	ap Unit Name:			Yes ● No ○	NWI classification: Upland							
Are \	/egetation ☐ , Soil ☐ , or Hydrology ☐ MARY OF FINDINGS - Attach site map sho	significar naturally wing sa	ntly disturbed problematic	d? Are "N ? (If nee	(If no, explain in Remarks.) Normal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.							
Hydrophytic Vegetation Present? Yes No No Is the Common of Area												
	Hydric Soil Present? Yes No		Is the Sampled Area within a Wetland? Yes ○ No ●									
	Wetland Hydrology Present? Yes O No	•		within a w	retiand?							
√EGI	ETATION -Use scientific names of plants. L	•			Dominance Test worksheet:							
Tre	e Stratum	Absolut % Cove		nt Indicator Status	Number of Dominant Species							
1.		0			That are OBL, FACW, or FAC: 4 (A)							
2.		0			Total Number of Dominant 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			Prevalence Index worksheet:							
	Total Cover	r: <u>0</u>	_		Total % Cover of: Multiply by:							
Sap	oling/Shrub Stratum 50% of Total Cover:	0 20	% of Total Co	over: 0	OBL Species 0 x 1 = 0							
1.	Betula nana	35	· •	FAC	FACW Species 36 x 2 = 72							
2.	Salix pulchra	30		FACW	FAC Species							
3.	Spiraea stevenii	15		FACU	FACU Species 16 x 4 = 64							
4.	Vaccinium uliginosum	10)	FAC	UPL Species <u>1</u> x 5 = <u>5</u>							
5.	Vaccinium vitis-idaea	2		FAC	Column Totals: <u>132</u> (A) <u>378</u> (B)							
6.	Empetrum nigrum	2		FAC								
7.		0			Prevalence Index = B/A = 2.864							
8.		0			Hydrophytic Vegetation Indicators:							
9.		0			✓ Dominance Test is > 50%							
10.		0			✓ Prevalence Index is ≤3.0							
Hei	Total Cover 50% of Total Cover:		% of Total Cover:18.8_		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)							
1.	Cornus suecica	15	_		Problematic Hydrophytic Vegetation ¹ (Explain)							
2.	Calamagrostis canadensis		_		¹ Indicators of hydric soil and wetland hydrology must							
3.	Rubus chamaemorus			FACW	be present, unless disturbed or problematic.							
4.	Poa glauca			UPL	Plot size (radius, or length x width)							
5.	Mertensia paniculata			FACU	% Cover of Wetland Bryophytes 0							
6.	Petasites frigidus		_ =	FACW	(Where applicable)							
			_ =		% Bare Ground3							
			_		Total Cover of Bryophytes65							
			-									
10.	Total Cover				Hydrophytic Vegetation							
	i utai Covei		_	= 0								
	50% of Total Cover:	19 20)% of Total Co	over: 7.6	Present? Yes No							

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SOIL Sampling Point: SW13_T190_04

									101111. 01113_1130_04		
Profile Description	on: (Describe to	the depth n	eeded to doc	ument the indicator or co	onfirm the ab		ators)				
Depth (inches)	epth			Color (moist)		Type ¹	_Loc_2	Texture	Remarks		
0-1	Color (III	oist)	_70	Color (Illoist)		Туре	LUC	Fibric Organics			
1-3	7.5YR	3/2	100					Silty Clay	High organic contentcharcoal mixed in		
3-5	7.5YR	2.5/1	100				-	Fine Loamy Silt	- Ingri organic content charcoal mixed in		
								Loamy Sand			
5-5.5	7.5YR	3/1	100					Loanly Salid			
¹Type: C=Con	centration. D	=Depletion	. RM=Redu	ced Matrix ² Locatio	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil In	dicators:			Indicators for P	roblemati	c Hydric So	oils: ³				
Histosol or				Alaska Color C		4		Alaska Gleyed Without Hi	ue 5Y or Redder		
Histic Epipe	. ,			Alaska Alpine	swales (TA	5)	Underlying Layer				
Hydrogen S	Sulfide (A4)			Alaska Redox	With 2.5Y	Hue		Other (Explain in Remarks)			
☐ Thick Dark	Surface (A12	2)		30							
Alaska Gley	/ed (A13)			and an appropria				nary indicator of wetland h esent	ydrology,		
Alaska Red	` '				,	•	·				
Alaska Gley	ed Pores (A1	15)		⁴ Give details of o	olor chang	e ili Kelliark	.5				
Restrictive Laye	r (if present)	:									
Type:								Hydric Soil Present	? Yes ○ No •		
Depth (inch	es):										
Remarks:											
Large angular b	oulders (4-8	in diamete	r) starting a	t 4 in. no hydric soil	indicators.						
HYDROLO	GY										
Wetland Hydr		ators:						Secondary India	cators (two or more are required)		
Primary Indicat			t)						ned Leaves (B9)		
Surface W	ater (A1)			☐ Inundation \	/isible on A	erial Image	ry (B7)	☐ Drainage P	atterns (B10)		
High Water Table (A2)				Sparsely Veg	getated Co	ncave Surfac	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)		
Saturation (A3)				Marl Deposit	ts (B15)			Presence o	f Reduced Iron (C4)		
☐ Water Marks (B1)				Hydrogen Su	ulfide Odor	(C1)		Salt Depos	its (C5)		
Sediment I	Sediment Deposits (B2)					le (C2)		Stunted or	Stressed Plants (D1)		
☐ Drift Depo				Uther (Expla	in in Rema	rks)		_	c Position (D2)		
	or Crust (B4)							☐ Shallow Aq			
☐ Iron Depos									raphic Relief (D4)		
	oil Cracks (B6)						✓ FAC-neutra	i Test (D5)		
Field Observa Surface Water		Voc	No 💿	Depth (inch	00):						
			No •	, ,	•		Watla	nd Hydrology Drocon	t? Yes O No 💿		
Water Table Pi				Depth (inch	es):		wetiai	nd Hydrology Presen	tr res C No S		
Saturation Pres (includes capill		Yes 🤇	No 💿	Depth (inch	es):						
Describe Record	led Data (str	eam gauge	, monitor w	ell, aerial photos, pre	vious inspe	ection) if ava	ailable:				
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											
no wetland hydrology indicators											

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