## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Boro	ough/City:	Matanusk	a-Susitna Borough Sampling Date: 02-Jul-13			
Applica	nt/Owner: Alaska Energy Authority					Sampling Point: SW13_T121_02			
nvesti	gator(s):JGK		_	Landform (hillside, terrace, hummocks etc.): Footslope					
Local r	elief (concave, convex, none): hummocky		_ Slo	Slope: 12.2 % / 7.0 ° Elevation: 433					
Subreg	ion : Southcentral Alaska	Lat.:	.798074007 Long.: -149.566736221 Datum: WGS84						
Soil Ma	p Unit Name:					NWI classification: Upland			
Are V Are V	egetation  , Soil  , or Hydrology	significar naturally wing sa	ntly dis	sturbed? ematic?	(If nee	(If no, explain in Remarks.)  formal Circumstances" present? Yes  No  dedd, explain any answers in Remarks.)  s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes No (9)  Hydric Soil Present? Yes No (9)  Wetland Hydrology Present? Yes No (9)  Arks: DUNN 1358 (SITE) 1359 (SOIL)				the Sam thin a W	pled Area /etland? Yes ○ No ●			
/EGE	TATION -Use scientific names of plants. L			<u> </u>		Dominance Test worksheet:			
Tree	e Stratum	Absolut % Cove		Dominant Species?	Indicator Status	Number of Dominant Species			
	Picea glauca	10		<b>V</b>	FACU	That are OBL, FACW, or FAC: (A)			
	Betula neoalaskana		_		FACU	Total Number of Dominant Species Across All Strata: 4 (B)			
3.						Percent of dominant Species			
4.		0				That Are OBL, FACW, or FAC: 50.0% (A/B)			
5.		0				Prevalence Index worksheet:			
	Total Cover	r: <u>18</u>				Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum 50% of Total Cover:	9 20	0% of 1	Total Cover:	3.6	OBL Species 0 x 1 = 0			
1	Spiraea stevenii	10	)		FACU	FACW Species 0 x 2 = 0			
	Alnus viridis		_	<b>✓</b>	FAC	FAC Species 75 x 3 = 225			
3.	Sorbus scopulina		_		FACU	FACU Species <u>100</u> x 4 = <u>400</u>			
4.	·	_				UPL Species <u>0</u> x 5 = <u>0</u>			
5.						Column Totals: <u>175</u> (A) <u>625</u> (B)			
6.									
7.						Prevalence Index = B/A = 3.571			
8.		0	_			Hydrophytic Vegetation Indicators:			
9.		0				Dominance Test is > 50%			
10.		0	_			Prevalence Index is ≤3.0			
Her	<b>Total Cover b Stratum</b> 50% of Total Cover:				10.4	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
1.	Cornus suecica		5	<b>~</b>	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
	Spinulum annotinum				FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
	Rubus arcticus	_	_		FAC	be present, unless disturbed or problematic.			
	Trientalis europaea ssp. arctica	- 5	_		FAC	Plot size (radius, or length x width)			
-	Dryopteris expansa	_	_		FACU	% Cover of Wetland Bryophytes 0			
			_			(Where applicable)			
			_			% Bare Ground 10			
			_			Total Cover of Bryophytes			
		0	_			Hydronhytic			
10.	Total Cover		_			Hydrophytic Vegetation			
	50% of Total Cover:			Total Cover:	21	Present? Yes No •			
Rem	50% of Total Cover: arks:	<u>52.5</u> 20	0% of ⊺	Total Cover:	21	Present? Yes ∪ No ●			

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SOIL Sampling Point: SW13\_T121\_02

Profile Descripti	ion: (Describe to	the depth n	eeded to docu	ment the indicator or co	nfirm the ab	osence of indic	ators)	-			
Depth		Matrix			lox Feat						
(inches)	Color (mo	ist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-5			100					Fibric Organics			
5-6	7.5YR	5/2	100					Silty Clay Loam			
6-11	7.5YR	2.5/2	100					Silt Loam			
11-20	10YR	3/2	100					Silty Clay Loam			
	1011	3/2	100					-			
<sup>1</sup> Type: C=Cor	ncentration. D=	=Depletion	. RM=Redu	ced Matrix <sup>2</sup> Location	n: PL=Por	re Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	ic Hydric So	oils: <sup>3</sup>				
	r Histel (A1)			Alaska Color Ch		4		Alaska Gleyed Without Hu	e 5Y or Redder		
Histic Epip	. ,			Alaska Alpine s	wales (TA	.5)		Underlying Layer			
	Sulfide (A4)			Alaska Redox V	Vith 2.5Y	Hue		Other (Explain in Remarks	5)		
☐ Thick Dark	Surface (A12)	)									
Alaska Gle	yed (A13)			<sup>3</sup> One indicator of and an appropriat				nary indicator of wetland hy	drology,		
Alaska Red	dox (A14)						•	COCIT			
Alaska Gle	yed Pores (A1	5)		4 Give details of co	olor chang	je in Remark	S				
Restrictive Laye	er (if present):										
Type:	. ( ) 7							Hydric Soil Present?	Yes O No 💿		
Depth (inch	nes):							,	1.0		
Remarks:							1				
no hydric soil ir	ndicators										
Tio flydric soil ii	iuicators										
<b>HYDROLO</b>	GY										
Wetland Hyd	rology Indica	tors:						Secondary Indic	ators (two or more are required)		
Primary Indica		is sufficien	t)					Water Stain	ed Leaves (B9)		
Surface W	/ater (A1)			Inundation V	isible on A	Aerial Imager	y (B7)	☐ Drainage Pa	atterns (B10)		
High Water Table (A2)				Sparsely Veg	etated Co	ncave Surfac	ce (B8)		izospheres along Living Roots (C3)		
Saturation (A3)				Marl Deposits	` '				Reduced Iron (C4)		
Water Marks (B1)				Hydrogen Su	lfide Odor	(C1)		Salt Deposit			
Sediment Deposits (B2)				Dry-Season \	Vater Tab	le (C2)			Stressed Plants (D1)		
Drift Depo	osits (B3)			Other (Explai	n in Rema	arks)		Geomorphic	Position (D2)		
Algal Mat or Crust (B4)								Shallow Aqu	uitard (D3)		
Iron Depo	sits (B5)							Microtopogr	raphic Relief (D4)		
Surface S	oil Cracks (B6)							☐ FAC-neutral	Test (D5)		
Field Observa	ations:										
Surface Water	r Present?		) No ⊙	Depth (inche	s):						
Water Table P	resent?	Yes 🤇	No ●	Depth (inche	s):		Wetla	nd Hydrology Present	? Yes O No 💿		
Saturation Pre		Yes C	No •	Depth (inche	s):						
(includes capillary fringe)											
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Demonstration 1											
Remarks:											
no wetland hyd	drology indicate	ors									
I											

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