WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampling Da	ate: 09-Jul-13
Applicant/Owner: Alaska Energy Authority		Sampling Point:	SW13_T120_03
Investigator(s): JGK	Landform (hills	side, terrace, hummocks etc.): Lowland	
Local relief (concave, convex, none): hummocky	Slope: 3.5	% / 2.0 ° Elevation: 980	
Subregion : Southcentral Alaska Lat.	62.701840281	Long.:149.714923859	Datum: WGS84
Soil Map Unit Name:		NWI classification: PE	M1E
Are Vegetation , Soil , or Hydrology naturally	ntly disturbed? / problematic?	(If needed, explain any answers in Remark	,
SUMMARY OF FINDINGS - Attach site map showing s	ampling point	locations, transects, important feature	es, etc.
Hydrophytic Vegetation Present? Yes ● No ○ Hydric Soil Present? Yes ● No ○	Is	the Sampled Area	

Yes 💿 No 🔾

Hydric Soil Present? Wetland Hydrology Present?	Yes ⊙ Yes ⊙	 within a Wetland?		
Remarks: DUNN SITE 1477 SOIL 1478				

VEGETATION - Use scientific names of plants. List all species in the plot.

		Absolut	e Dominant	Indicator	Dominance Test worksheet:			
Tre	e Stratum	% Cove		Status	Number of Dominant Species			
1.		0			That are OBL, FACW, or FAC: <u>3</u> (A)			
2.		0			Total Number of Dominant Species Across All Strata: 3 (B)			
3.			-					
4.		-			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
ч. 5.		-	- 🖂					
5.	Total Cover:		_		Prevalence Index worksheet:			
_					Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cover:	0	OBL Species <u>5</u> x 1 = <u>5</u>			
1.	Salix reticulata	20	\checkmark	FAC	FACW Species <u>15.1</u> x 2 = <u>30.20</u>			
2.	Empetrum nigrum	2		FAC	FAC Species <u>77</u> x 3 = <u>231</u>			
					FACU Species 0 x 4 = 0			
					UPL Species 0 x 5 = 0			
					Column Totals: 97.1 (A) 266.2 (B)			
					Prevalence Index = B/A = <u>2.742</u>			
					Hydrophytic Vegetation Indicators:			
			-		✓ Dominance Test is > 50%			
			-		 ✓ Prevalence Index is ≤3.0 			
10.	Total Cover:							
Her	b Stratum 50% of Total Cover:			: 4.4	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
1.	Eriophorum angustifolium	5		OBL	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Carex bigelowii		\checkmark	FAC	¹ Indicators of hydric soil and wetland hydrology must			
3	Conquiserhe officialie		-	FACW	be present, unless disturbed or problematic.			
3. 4	Eastuas altaisa	2	-	FAC				
5.	Valeriana capitata			FAC	Plot size (radius, or length x width) <u>10m</u>			
6.	Equisetum arvense	5		FAC	% Cover of Wetland Bryophytes (Where applicable)			
7.	Carex podocarpa	15	\checkmark	FAC	% Bare Ground 20			
8.	Dedeestheen frigidum	10	-	FACW	Total Cover of Bryophytes 15			
9. 9	A	7	-	FAC				
9. 10.	Carex saxatilis	0.1		FACW				
10.	Total Cover:		_		Hydrophytic Vegetation			
	50% of Total Cover: 3			15.02	Present? Yes No			
_		,		13.02	1			
Rem	Remarks: Tr rumarc pedic solidago salix 5 (coll) bisplu							

(coll) bisp ag

Profile Descriptio		(Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features		cators)						
(inches)	Color (mo	ist)	%	Color (r	noist)	%	Type ¹	Loc ²	Texture	Remarks
0-6			100						Fibric Organics	
6-11	7.5YR	2.5/1	100						Silt Loam	Positive alpha alpha dypiridyl rxn
11-14	10YR	3/3	70	5YR	3/4	30			Silty Clay	
										8
			,							
										1
¹ Type: C=Con	centration. D	=Depletion.	RM=Reduc						nnel. M=Matrix	
Hydric Soil In	dicators:				tors for Pro		4	oils: ³		
Histosol or	• • •				ka Color Ch		-		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipe	. ,				ka Alpine sv	•			Underlying Layer Other (Explain in Remar	
Hydrogen S	. ,				ika Redox W	/ith 2.5Y F	Hue	V	Other (Explain in Remar	(\$)
	Surface (A12))		³ One i	ndicator of I	hydrophyt	tic vegetatio	on, one prin	nary indicator of wetland h	nydrology,
Alaska Gley				and an	appropriate	e landscap	pe position	must be pre	esent	,
Alaska Red	ed Pores (A14)	5)		⁴ Give	details of co	lor chang	e in Remarl	ks		
		5)								
Restrictive Layer	(if present):									? Yes 🖲 No 🔾
Type: rock Depth (inche	ac)• 14								Hydric Soil Present	? Yes 🖲 No 🖯
	.5). 1 1									
Remarks:	و باروند المرود الم									
Positive alpha al	pna dypiridyi	rxn								
HYDROLO(+							Constant Tail	
Wetland Hydro Primary Indicat)							cators (two or more are required) ned Leaves (B9)
Surface Wa		is sumelend	1		undation Vi	sible on A	erial Image	arv (B7)	_	Patterns (B10)
	Table (A2)				parsely Vege		5	, , ,		hizospheres along Living Roots (C3)
Saturation	. ,				arl Deposits			()	_	of Reduced Iron (C4)
U Water Mar					ydrogen Sul	• •	(C1)		Salt Depos	sits (C5)
Sediment [Deposits (B2)				ry-Season W					Stressed Plants (D1)
Drift Depos	sits (B3)			Other (Explain in Remarks)					ic Position (D2)	
🗌 Algal Mat o	or Crust (B4)								Shallow Ad	quitard (D3)
Iron Depos	its (B5)									graphic Relief (D4)
Surface So	il Cracks (B6)								FAC-neutra	al Test (D5)
Field Observat	tions:									
Surface Water	Present?		No O	D	epth (inches	5): 4				
Water Table Pr		Yes 🖲	No 🔿	D	epth (inches	s): 13		Wetla	nd Hydrology Presen	it? Yes 🖲 No 🔾
Saturation Pres (includes capill		Yes 🖲	No \bigcirc	D	epth (inches	s): 11				
Describe Record		am gauge,	monitor we	ell, aerial p	hotos, prev	ious inspe	ection) if av	ailable:		
	-					-				
Remarks:										
Surface water in	rock-filled de	epressions	approx. 20%	6 of area.	Positive alp	ha alpha	dypiridyl rx	n.		