WETLAND DETERMINATION DATA FORM - Alaska Region

TOJCO	/Site: Susitna-Watana Hydroelectric Project		Borough/City	Matanusk	ka-Susitna Borough Sampling Date: 02-Aug-12		
Applica	int/Owner: Alaska Energy Authority		Sampling Point: SW12_T53_06				
	gator(s): CTS, EKJ	ce, hummocks etc.): Swale					
Local r	elief (concave, convex, none): concave		Slope:	% / 16.	-		
Subred	ion : Southcentral Alaska	Lat.:	62.8089482	352	Long.: -149.063265723 Datum: NAD83		
	p Unit Name:		02.0000402	.002	NWI classification: Upland		
		time of us	Vo	es No			
	natic/hydrologic conditions on the site typical for this egetation . Soil . or Hydrology .	-	itly disturbed?		(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○		
	egetation , Soil , or Hydrology	-	problematic?		ionnai oli oumotanoco present:		
	,	•		•	eded, explain any answers in Remarks.)		
SUMI	MARY OF FINDINGS - Attach site map sho		mpling poi	nt locations	s, transects, important features, etc.		
	Hydrophytic Vegetation Present? Yes O No	lacksquare		- 41 0	unland Assa		
	Hydric Soil Present? Yes O No	lacksquare			pled Area letland? Yes ○ No ◉		
	Wetland Hydrology Present? Yes O No	•	'	within a Wetland? Yes ○ No ●			
Rema	arks: Stca in swale						
VEGE	TATION -Use scientific names of plants.	List all sp	ecies in th	e plot.			
	•	Absolut		t Indicator	Dominance Test worksheet:		
Tre	e Stratum	% Cove			Number of Dominant Species		
1.		0			That are OBL, FACW, or FAC: 1 (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: 25.0% (A/B	3)	
5.		0			Prevalence Index worksheet:		
	Total Cove	er: <u> </u>	_		Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cov	er: <u>0</u>	OBL Species0 x 1 =0		
1.	Alnus viridis	90	✓	FAC	FACW Species 1.1 x 2 = 2.200		
	Salix barclayi	5		FAC	FAC Species <u>109</u> x 3 = <u>327</u>		
3.	Viburnum edule			FACU	FACU Species 81.1 x 4 = 324.4		
4.	Ribes triste	1		FAC	UPL Species <u>0</u> x 5 = <u>0</u>		
5.		0			Column Totals: 191.2 (A) 653.6 ((B)	
6.						-,	
7.		0			Prevalence Index = B/A = 3.418		
8.		0			Hydrophytic Vegetation Indicators:		
9.		0	_ 🖳		☐ Dominance Test is > 50%		
10.		0	_		Prevalence Index is ≤3.0		
	Total Cove				☐ Morphological Adaptations ¹ (Provide supporting data in	n	
Her	b Stratum 50% of Total Cover:		0% of Total Cov		Remarks or on a separate sheet)		
1.	Gymnocarpium dryopteris			FACU	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Mertensia paniculata			FACU	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
3.	Heracleum maximum		-	FACU	be present, unless disturbed of problematic.		
4.	Sanguisorba canadensis Streptopus amplexifolius	$-\frac{1}{4}$	-	FACU	Plot size (radius, or length x width)		
5.	Calamagrostis canadensis			FAC	% Cover of Wetland Bryophytes		
6. 7.	Dryopteris expansa			FACU	(Where applicable)		
7. 8.	Viola langedorffii	$-\frac{23}{0.1}$		FACW	% Bare Ground		
9.	Triontalis ouropaga			FACU	Total Cover of Bryophytes		
10.	тненканѕ ейгораеа	0			Hydrophytic		
			_		Hydrophytic Vegetation		
	Total Cove	91.7					
			_ % of Total Cov	er: <u>18.24</u>	Present? Yes No •		

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SOIL Sampling Point: SW12_T53_06

Profile Descripti	on: (Describe to	the denth n	eeded to doc	ment the indicator or co	nfirm the ab	osence of indic	ators)	•			
		the depth h	eeded to doct		inm the at		alors)				
Depth (inches)	Color (mo			Color (moist)	%	Type ¹	_Loc_2	Texture	Remarks		
0-3	7.5YR	2.5/1	80	contract,		- 77		Sandy Loam	20% roots		
3-5	7.5YR	2.5/1	90					Loam	10% roots		
5-14	10YR	2/2	100					Loam	few roots sandy layer at bottom		
14-19	5YR		100					Loam	Tew roots sailty layer at bottom		
14-19		2.5/1	100					Loan			
									-		
¹Type: C=Cor	ncentration. D	=Depletion	. RM=Redu	ced Matrix ² Location	n: PL=Por	re Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	ic Hydric So	oils: ³				
Histosol or	Histel (A1)			Alaska Color Cl	nange (TA	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	Hue		Other (Explain in Remarl	(S)		
☐ Thick Dark	Surface (A12)		30							
Alaska Gle	yed (A13)			and an appropriat				nary indicator of wetland hesent	nydrology,		
Alaska Red	dox (A14)						•				
Alaska Gle	yed Pores (A1	5)		⁴ Give details of co	olor chang	је іп кетагк	S				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	? Yes ○ No •		
Depth (inch	nes):										
Remarks:											
no hydric soil in	ndicators										
, , , , , , , , ,											
LIVEROLO	CV										
HYDROLO								C d. T. d.			
Wetland Hydi Primary Indica			+1						cators (two or more are required) ned Leaves (B9)		
		is sufficien	L)	Inundation V	icible on /	Varial Imaga	n, (D7)		Patterns (B10)		
	☐ Surface Water (A1) ☐ Inundation Visib☐ High Water Table (A2) ☐ Sparsely Vegeta					-			hizospheres along Living Roots (C3)		
Saturation		☐ Sparsely Vegetated Concave Surface (B8) ☐ Marl Deposits (B15)					of Reduced Iron (C4)				
Water Mai	-			Hydrogen Su	` '	· (C1)		Salt Depos	` ,		
	Deposits (B2)			Dry-Season \				_	Stressed Plants (D1)		
Drift Depo	' ' '			Other (Explai					ic Position (D2)		
	or Crust (B4)			Other (Explain	II III Keine	1113)			quitard (D3)		
☐ Iron Depo									graphic Relief (D4)		
	oil Cracks (B6))							al Test (D5)		
Field Observa											
Surface Water	Present?	Yes 🤇	No ●	Depth (inche	s):						
Water Table P	resent?	Yes 🤇	No ●	Depth (inche	c).		Wetlar	nd Hydrology Presen	it? Yes ○ No •		
Saturation Pre			No ●	. ,	•			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
(includes capil	llary fringe)	res C	NO S	Depth (inche	s):						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											
no wetland hydrology indicators											
l											

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