WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	xa-Susitna Borough Sampling Date: 07-Jul-13		
Applica	int/Owner: Alaska Energy Authority				Sampling Point: SW13_T134_03		
	gator(s): WAD, BAB	ce, hummocks etc.): wide drainage					
•	elief (concave, convex, none): concave		0 ° Elevation: 855				
_	ion : Southcentral Alaska	Lat	62.686081409				
	p Unit Name:			<u> </u>	NWI classification: Upland		
Are V Are V		significantly naturally pr wing sam	disturbed? oblematic? upling point	(If nee	·		
	Hydric Soil Present? Yes O No •		ipled Area				
	Wetland Hydrology Present? Yes ● No ○)	within a Wetland? Yes ○ No ●				
	arks:						
	TATION - Use scientific names of plants. Li	st all spe Absolute Cover	cies in the Dominant Species?	•	Dominance Test worksheet: Number of Dominant Species		
	Populus balsamifera	25	✓	FACU	That are OBL, FACW, or FAC: 7 (A)		
2.		0			Total Number of Dominant Species Across All Strata: 10 (B)		
3.					Percent of dominant Species		
4.		0			That Are OBL, FACW, or FAC: 70.0% (A/B)		
5.		0			Prevalence Index worksheet:		
	Total Cover	25			Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum 50% of Total Cover:	12.5 20%	of Total Cover:	5	OBL Species 2 x 1 = 2		
1.	Salix pulchra	30	✓	FACW	FACW Species 33 x 2 = 66		
2.	Saliv harclavi	20	✓	FAC	FAC Species 29 x 3 = 87		
3.	Daeinhora fruticosa	5		FAC	FACU Species 35 x 4 = 140		
4.	Populus balsamifera	5		FACU	UPL Species 0.1 x 5 = 0.500		
5.	Vaccinium uliginosum			FAC	Column Totals: 99.1 (A) 295.5 (B)		
6.	Linnaea borealis	2		FACU			
7.	Spiraea stevenii	1		FACU	Prevalence Index = B/A = 2.982		
8.	Valeriana capitata	0.1		FAC	Hydrophytic Vegetation Indicators:		
9.		0			✓ Dominance Test is > 50%		
10.		0			✓ Prevalence Index is ≤3.0		
Her	Total Cover: 50% of Total Cover:	: 13.02	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)				
1.	Sanguisorba canadensis	2	✓	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Carex laxa		✓	OBL	¹ Indicators of hydric soil and wetland hydrology must		
3.	Galium triflorum	1	✓	FAC	be present, unless disturbed or problematic.		
4.	Mertensia paniculata		✓	FACU	Plot size (radius, or length x width) 10m		
5.	Chamerion angustifolium	1	✓	FACU	% Cover of Wetland Bryophytes		
6.	Calamagrostis canadensis	1	✓	FAC	(Where applicable)		
7.	Petasites frigidus	1	\	FACW	% Bare Ground		
8.	Poa glauca	0.1		UPL	Total Cover of Bryophytes		
9.	Equisetum sylvaticum	0.1		FAC			
10.	Delphinium glaucum	9.30		FACW	Hydrophytic		
	Total Cover: 50% of Total Cover:4	1.860	Vegetation Present? Yes ● No ○				
Rem	arks: cornus suecica 15%						

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SOIL Sampling Point: SW13_T134_03

	on: (Describe to the depth needed to doc Matrix			ument the indicator or confirm the absence of indicators) Redox Features							
Depth (inches)	Color (mo	ist)	%	Color (moist)	%	Type ¹	_Loc_2	Texture	Remarks		
0-2								Fibric Organics			
2-3								Hemic Organics			
3-5								Sapric Organics			
5-12	7.5YR	3/3	100					Loamy Sand			
	7.511							Eddiny Sand			
								-			
¹Type: C=Con	centration. D	=Depletion.	RM=Reduce	ed Matrix ² Locatio	n: PL=Pore	e Lining. RO	C=Root Cha	nnel. M=Matrix			
Hydric Soil In	Hydric Soil Indicators: Indicators for Problematic Hydric Soils: ³										
Histosol or Histel (A1) Alaska Color Change (TA4)								Alaska Gleyed Without Hue 5Y or Redder			
Histic Epipe	edon (A2)			Alaska Alpine	swales (TA	5)		Underlying Layer			
Hydrogen S	Sulfide (A4)			Alaska Redox	With 2.5Y F	lue		Other (Explain in Remark	rs)		
Thick Dark	Surface (A12)		30	£ ddd						
Alaska Gley	red (A13)			and an appropria				nary indicator of wetland h esent	yarology,		
Alaska Red	` ,			4 Give details of o	•	•	•				
☐ Alaska Gley	ved Pores (A1	5)		- Give details of t	Joior Charige	e III Kelliair	\s				
Restrictive Layer									0 0		
Type: seaso								Hydric Soil Present	? Yes ○ No •		
Depth (inches): 12											
HYDROLOG	GY										
Wetland Hydr	ology Indica	tors:						Secondary Indi	cators (two or more are required)		
Primary Indicat	ors (any one	is sufficient)						Water Stair	ned Leaves (B9)		
Surface Water (A1)					Visible on A	erial Image	ry (B7)	Drainage Patterns (B10)			
High Water Table (A2)			Sparsely Vegetated Concave Surface (B8)				Oxidized R	hizospheres along Living Roots (C3)			
Saturation (A3)				Marl Deposits (B15)					f Reduced Iron (C4)		
Water Mar				Hydrogen Sulfide Odor (C1)				Salt Depos			
Sediment Deposits (B2)				Dry-Season Water Table (C2)					Stressed Plants (D1)		
□ Drift Deposits (B3) □ Other (Explain in Remarks) □ Geomorphic Position (D2) □ Algal Mat or Crust (B4) ✓ Shallow Aquitard (D3)								` '			
								juitara (D3) graphic Relief (D4)			
	iil Cracks (B6)							✓ FAC-neutra			
Field Observa	• • •							▼ TAC Hedura	ir rest (D3)		
Surface Water		Yes 〇	No •	Depth (inch	es).						
Water Table Pr			No •	, ,	•		Wotla	nd Hydrology Presen	t? Yes • No O		
Saturation Pres				Depth (inch	es):		Wetiai	nu nyurology Presen	t: 165 © 140 ©		
(includes capill		Yes O	No •	Depth (inch	es):						
Describe Record	led Data (stre	am gauge,	monitor wel	l, aerial photos, pre	evious inspe	ction) if av	ailable:				
Remarks:											
no saturation bu	it the loamy o	and is thive	otrophic								
Saturation Di	ac are rountly s	ana is unix	Jaopine								
l											

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