WETLAND DETERMINATION DATA FORM - Alaska Region

rojeci	/Site: Susitna-Watana Hydroelectric Project	I	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 31-Jul-12			
Applica	int/Owner: Alaska Energy Authority				Sampling Point: SW12_T46_04			
	gator(s): SLI, KMK	side, terrac	e, hummocks etc.): Hillside					
	elief (concave, convex, none): flat		Slope: 17.6					
		l at :						
	ion : Interior Alaska Mountains	Lai	62.685619911	Long.: -147.651481648 Datum: WGS84				
	p Unit Name:			<u> </u>	NWI classification: Upland			
Are V	egetation , Soil , or Hydrology	significant naturally p wing sar	ly disturbed? problematic?	(If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.) s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes No Wes N		Is	the Sam	sampled Area			
			wi	thin a W	n a Wetland? Yes ○ No •			
		<i>-</i>						
	arks: upland on gentle slope, slcbw ETATION -Use scientific names of plants. L	ist all sp		plot.	Dominance Test worksheet:			
Tre	e Stratum_	% Cover		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: 5 (B)			
3.		0			Percent of dominant Species			
4.		0			That Are OBL, FACW, or FAC: 80.0% (A/B)			
5.		0	_		Prevalence Index worksheet:			
	Total Cover	: _0_			Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	6 of Total Cover:	0	OBL Species			
1.	Betula nana	45	✓	FAC	FACW Species 45 x 2 = 90			
2.	Salix pulchra	35	✓	FACW	FAC Species			
3.	Vaccinium uliginosum	20		FAC	FACU Species0 x 4 =0			
4.	Ledum decumbens	. <u>—</u> 5		FACW	UPL Species			
5.	Vaccinium vitis-idaea	7		FAC	Column Totals: <u>129</u> (A) <u>356</u> (B)			
6.	Vaccinium vitis-idaea	0.1		FAC				
7.		0			Prevalence Index = B/A =			
8.		0			Hydrophytic Vegetation Indicators:			
9.		0	_		✓ Dominance Test is > 50%			
10.		0	_		✓ Prevalence Index is ≤3.0			
Her	Total Cover 50% of Total Cover:			22.42	 Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) 			
1.	Carex bigelowii	0.1		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Equisetum sylvaticum	5	✓	FAC	¹ Indicators of hydric soil and wetland hydrology must			
3.	Petasites frigidus	5	✓	FACW	be present, unless disturbed or problematic.			
4.	Poa arctica ssp. arctica	7	_	UPL	Plot size (radius, or length x width) 10m			
5.		0	. 📙		% Cover of Wetland Bryophytes			
6.		0	. 📙		(Where applicable)			
			. 📙		% Bare Ground			
					Total Cover of Bryophytes			
10.		0	. \square		Hydrophytic			
	Total Cover 50% of Total Cover:	_		2.42	Vegetation Present? Yes No			

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SOIL Sampling Point: SW12_T46_04

	on: (Describe to t	he depth need	ded to docume	ent the ind		firm the abs		ators)			
Depth (inches)	Color (moi	st)	%	Color (m	oist)	%	Type ¹	_Loc_2	Texture	Remarks	
0-2									Fibric Organics		
2-4									Hemic Organics		
4-4.5	7.5YR	3/2							Silt Loam		
4.5-16	2.5Y	4/1	65	7.5YR	5/4	25	С	PL	Silt Loam	100/ avairale	
4.5-10	2.51	4/1 —		/.51K				PL PL	SIIL LOGITI	10% gravels	
			— –								
¹Type: C=Con		Depletion. F		J Matrix	² Location	: PL=Pore	e Lining. RC	=Root Cha	annel. M=Matrix		
Hydric Soil Ir	ndicators:		:	Indicate	ors for Pro	blematio	Hydric So	oils: ³			
Histosol or	Histel (A1)		[☐ Alaska Color Change (TA4) ☐ Alaska Gleyed Without Hue 5Y or Redder							
Histic Epipe	edon (A2)]	Alaska Alpine swales (TA5)					Underlying Layer		
Hydrogen :	Sulfide (A4)		l	Alask	ka Redox W	/ith 2.5Y F	lue	L	Other (Explain in Remark	s)	
Thick Dark	Surface (A12)			3 One ir	- disator of i	dronhyt	in regetatio	- and prin	indicator of wotland h	بيهما مياد	
Alaska Gley							ic vegetatio e position r		mary indicator of wetland heesent	lydrology,	
Alaska Red	. ,						· e in Remark	·			
Alaska Gley	yed Pores (A15)		OIVC G	Claiis or co	101 Chang	T III NCIIIGIA	.5			
Restrictive Laye	er (if present):								<u></u>		
Type:	1.								Hydric Soil Present	? Yes○ No •	
Depth (inch	ies):										
problematic hyd											
HYDROLO											
Wetland Hydr										cators (two or more are required)	
Primary Indicat		sufficient)								ned Leaves (B9)	
Surface Water (A1)				☐ Inundation Visible on Aerial Imagery (B7)					☐ Drainage Patterns (B10)		
☐ High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)						hizospheres along Living Roots (C3)	
Saturation	. ,			Marl Deposits (B15)						f Reduced Iron (C4)	
Water Marks (B1) Sediment Deposits (B2)				☐ Hydrogen Sulfide Odor (C1) ☐ Dry-Season Water Table (C2)					Salt Depos	Stressed Plants (D1)	
Drift Depo		Other (Explain in Remarks)						ic Position (D2)			
	or Crust (B4)									juitard (D3)	
☐ Iron Depo								graphic Relief (D4)			
	oil Cracks (B6)								✓ FAC-neutra		
Field Observa										,	
Surface Water	Present?	$_{Yes}$ \bigcirc	No 💿	De	pth (inches	s):					
Water Table P	resent?	Yes 🔾	No 💿	Dε	epth (inches	s):		Wetla	nd Hydrology Presen	t? Yes ○ No •	
Saturation Pre		Yes O	No 💿		epth (inches	•					
(includes capil											
Describe Record	ded Data (strea	ım gauge, n	nonitor well,	aerial pi	notos, previ	ious inspe	ction) it ava	ilable:			
Remarks:											
no primary wetland hydrology indicators											

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