WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	ct/Site: Susitna-Watana Hydroelectric Project		Borough	n/City:	Matanusk	ca-Susitna Borough Sampling Date: 22-Jun-12
Applic	ant/Owner: Alaska Energy Authority					Sampling Point: SW12_T18_08
	igator(s): SLI, EKJ		Landfo	rm (hills	side, terrac	ce, hummocks etc.): Hillside
	relief (concave, convex, none): flat		_		% / 35.0	
Subre	gion : Southcentral Alaska	Lat.:	 62.849			Long.: -149.215559968 Datum: WGS84
	ap Unit Name:		02.040	000000		NWI classification: Upland
	imatic/hydrologic conditions on the site typical for this t	ima af va	or?	Vac	● No ○	(If no, explain in Remarks.)
		significar				Iormal Circumstances" present? Yes No No
		naturally	-			eded, explain any answers in Remarks.)
	,	-				
SUM	MARY OF FINDINGS - Attach site map sho		ımpling	point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes O No			1	u O	uste di Auste
	Hydric Soil Present? Yes No					pled Area letland? Yes ○ No ◉
	Wetland Hydrology Present? Yes O No			WI	thin a W	retland? res O No O
Ren	narks: steep south facing bluff, plot centered on gram	inoid con	nmunity	aramina	oid intersne	ersed w tall closed alder
	Steep South facing Starry plot contered on grain	iiioia con	ar.iicy i	gramm	ora micerope	ersea W tan crosea aracii
VEG	ETATION -Use scientific names of plants. L	ist all sp	oecies i	n the p	olot.	
		Absolut	e Don	inant	Indicator	Dominance Test worksheet:
	ee Stratum	% Cove		cies?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)
1.		0	_			Total Number of Dominant
2.		0	_			Species Across All Strata: 4 (B)
3.						Percent of dominant Species
4.		0	_			That Are OBL, FACW, or FAC: 25.0% (A/B)
5.		0	_			Prevalence Index worksheet:
	Total Cover					Total % Cover of: Multiply by:
Sa	pling/Shrub Stratum 50% of Total Cover:	0 20	% of Tota	ıl Cover:	0	OBL Species x 1 =0
1.	Alnus incana ssp. tenuifolia	10)	✓	UPL	FACW Species 1 x 2 = 2
2.	Vaccinium uliginosum	15	<u>; </u>	✓	FAC	FAC Species 23 x 3 = 69
3.	Empetrum nigrum				FAC	FACU Species <u>58</u> x 4 = <u>232</u>
4.	Spiraea stevenii				FACU	UPL Species <u>12</u> x 5 = <u>60</u>
5.						Column Totals: <u>94</u> (A) <u>363</u> (B)
6.						Prevalence Index = B/A = 3.862
7.		0	_			
9.		_	_			Hydrophytic Vegetation Indicators: Dominance Test is > 50%
10.		0	_			Prevalence Index is ≤ 3.0
10.	Total Cover		_			
Не	rb Stratum 50% of Total Cover:			al Cover:	7	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
1.		5			FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
2.		40)	✓	FACU	¹ Indicators of hydric soil and wetland hydrology must
3.	Trientalis europaea		_		FACU	be present, unless disturbed or problematic.
٥.	Calamagrostis canadensis	5	_		FAC	Plot size (radius, or length x width) 10m
4.	Calamagrostis canadensis				FACU	
	Dryopteris expansa	5	_			% Cover of Wetland Bryonhytes
4.	Drugatoria avanga		_		UPL	% Cover of Wetland Bryophytes (Where applicable)
4. 5.	Dryopteris expansa Geranium bicknellii Rubus chamaemorus	1	_ _ _		UPL FACW	
4. 5. 6. 7. 8.	Dryopteris expansa Geranium bicknellii Rubus chamaemorus	1	- - -			(Where applicable)
4. 5. 6. 7. 8. 9.	Dryopteris expansa Geranium bicknellii Rubus chamaemorus	1 0 0	- - - -			(Where applicable) % Bare Ground 85
4. 5. 6. 7. 8. 9.	Dryopteris expansa Geranium bicknellii Rubus chamaemorus	1 0 0	- - - -			(Where applicable) % Bare Ground Total Cover of Bryophytes Hydrophytic
4. 5. 6. 7. 8. 9.	Dryopteris expansa Geranium bicknellii Rubus chamaemorus Total Cover	2 1 0 0	- - - - -		FACW	(Where applicable) % Bare Ground Total Cover of Bryophytes 10

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SOIL Sampling Point: SW12_T18_08

Depth	on: (Describe to t	he depth nee	ded to docume	ent the indicator or co	nfirm the abser	nce of indicato	ors)		Toma: 54412_110_00
Deptii		latrix	ueu to accami		dox Feature		ЛЭ		
(inches)	Color (moi	st)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-3			100					Hemic Organics	
3-6	7.5YR	2.5/2	100					Sandy Loam	
6-16		 4/6	85					Loam	15% angular gravels and cobbles
	101	., -							1370 drigatal gravels a.ta coss.cs
¹Type: C=Con	centration. D=	Depletion.	RM=Reduced	d Matrix ² Location	n: PL=Pore l	_ining. RC=F	Root Char	nnel. M=Matrix	
Hydric Soil Ir	ndicators:			Indicators for Pr	oblematic I	Hvdric Soils	3 s:		
	Histel (A1)		[Alaska Color Ch		i ,	. П	Alaska Gleyed Without H	ue 5V or Redder
Histosof of	. ,		[Alaska Alpine s			_	Underlying Layer	de 31 di Neddei
	Sulfide (A4)		[Alaska Redox V	,	e		Other (Explain in Remark	s)
	Surface (A12)								
Alaska Gle				³ One indicator of and an appropriat				ary indicator of wetland h	ydrology,
Alaska Red						•	ist be bie	Sent	
Alaska Gle	yed Pores (A15)		4 Give details of co	olor change i	n Remarks			
Restrictive Laye	r (if present):								
Type:	· (r ,							Hydric Soil Present	? Yes ○ No •
Depth (inch	es):							,	• •••
Remarks:									
no hydric soil in	dicators								
ייאספטן סי									
HYDROLO	٦ĭ								
Wotland Huds	ology Indicat	toro:						Consoler, Indi	
Wetland Hydr									cators (two or more are required)
Primary Indicat	tors (any one is			Inundation V	icible on Aer	ial Imagery	(R7)	Water Stair	ned Leaves (B9)
Primary Indicate Surface W	tors (any one is ater (A1)			☐ Inundation V		• .	` '	Water Stai	ned Leaves (B9) Patterns (B10)
Primary Indicate Surface W High Wate	tors (any one is later (A1) er Table (A2)			Sparsely Veg	etated Conca	• .	` '	Water Stain Drainage P Oxidized R	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3)
Primary Indicat Surface W High Wate	tors (any one is later (A1) er Table (A2) (A3)			Sparsely Veg	etated Conca s (B15)	ave Surface	` '	Water Stail Drainage P Oxidized R Presence o	ned Leaves (B9) latterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4)
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