WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Denali Bo	orough Sampling Date: 31-Jul-13
Applica	ant/Owner: Alaska Energy Authority			-	Sampling Point: SW13_T205_01
	gator(s): SLI, EAC		Landform (hill	side, terrac	ce, hummocks etc.): Hillside
	relief (concave, convex, none): convex		- Slope:	% / 3.8	
	gion : Interior Alaska Mountains	l at ·	_		Long.: -148.787419916 Datum: NAD83
	p Unit Name:	Lutii	03.37 1030092		NWI classification: Upland
	· -	ima af va	2 Vos	● No ○	
	matic/hydrologic conditions on the site typical for this t 'egetation \Box , Soil \Box , or Hydrology \Box	•	tly disturbed?		(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○
		Ū	problematic?		eded, explain any answers in Remarks.)
		-		•	
SUMI	MARY OF FINDINGS - Attach site map sho		mpling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes No	\supset		tha Cama	unland Ausa
	Hydric Soil Present? Yes ○ No (ıpled Area /etland? Yes ◯ No ◉
	Wetland Hydrology Present? Yes O No		WI	thin a W	etiand? Tes O NO O
Rema	arks: lichen-rich slobe on small hillside.				
VEGE	TATION - Use scientific names of plants. L	ist all sp	ecies in the	plot.	
	•	Absolut		Indicator	Dominance Test worksheet:
Tre	e Stratum	% Cove		Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)
1.	Picea glauca	5	✓	FACU	That are OBL, FACW, or FAC: (A) Total Number of Dominant
2.		0			Species Across All Strata:3(B)
3.		0	_ 🔲		Percent of dominant Species
4.		0	_		That Are OBL, FACW, or FAC: 66.7% (A/B)
5.		0	_		Prevalence Index worksheet:
	Total Cover		_		Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	2.5 20	% of Total Cover:	1	OBL Species x 1 =0
1.	Betula glandulosa	25	✓	FAC	FACW Species x 2 =14
2.	Vaccinium uliginosum	20	_	FAC	FAC Species <u>50.1</u> x 3 = <u>150.3</u>
3.	Vaccinium vitis-idaea	3	_	FAC	FACU Species <u>5.3</u> x 4 = <u>21.2</u>
4.	Rhododendron tomentosum			FACW	UPL Species <u>0</u> x 5 = <u>0</u>
5.	Empetrum nigrum			FAC	Column Totals: <u>62.4</u> (A) <u>185.5</u> (B)
6.	Spiraea stevenii	0.1		FACU	Prevalence Index = B/A =2.973_
7.			-		
8.			-		Hydrophytic Vegetation Indicators: Dominance Test is > 50%
		- 0	_ =		✓ Prevalence Index is ≤ 3.0
10.	Total Cove		_		Morphological Adaptations 1 (Provide supporting data in
Her	b Stratum 50% of Total Cover:			11.04	Remarks or on a separate sheet)
1.	Cornus canadensis	0.1		FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Festuca altaica	2		FAC	¹ Indicators of hydric soil and wetland hydrology must
3.	Anthoxanthum monticola ssp. alpinum	0.1		UPL	be present, unless disturbed or problematic.
4.		0	_		Plot size (radius, or length x width)
_			_		% Cover of Wetland Bryophytes
5.					(Where applicable)
			- 🗒		(Where applicable)
6. 7.		0	_		% Bare Ground5
6. 7. 8.		0			
6. 7. 8. 9.		0 0			% Bare Ground5
6. 7. 8. 9.		0 0			% Bare Ground _5 Total Cover of Bryophytes _5 Hydrophytic
6. 7. 8. 9.		0 0 0 0 0		0.44	% Bare Ground5 Total Cover of Bryophytes5

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SOIL Sampling Point: SW13_T205_01

	to the depth r	needed to docu	ment the inc	licator or conf	firm the ab		ators)		
Depth (inches) Color (0/-	Color (m		%	Type ¹	_Loc ²	Texture	Remarks
(inches) Color (2.5/1	<u>%</u> _	Color (m	oist)	9/0	ı ype -	LOC	Sandy Loam	w high organic content
									w night organic content
2-3 5YR	4/1				-			Silt Loam	
3-7 10YR	4/4	70	10YR	3/4	30	C	M	Loam	
7-20 10YR	4/2	90	5YR	2.5/2	10	С	М	Silt Loam	subrounded gravels-cobbles, 25%
								-	
¹Type: C=Concentration.	D=Depletion	n. RM=Reduc				_		nnel. M=Matrix	
Hydric Soil Indicators:			Indicate	ors for Pro	blemati	Hydric So	oils:³	_	
Histosol or Histel (A1)			Alaska Color Change (TA4)				Alaska Gleyed Without Hue 5Y or Redder		
Histic Epipedon (A2)			L Alasi	Alaska Alpine swales (TA5)				Underlying Layer	
Hydrogen Sulfide (A4))		Alas	ka Redox W	ith 2.5Y F	lue	L	Other (Explain in Remark	rs)
☐ Thick Dark Surface (A	12)		30	dr					d des
Alaska Gleyed (A13)				idicator of r appropriate				nary indicator of wetland h esent	lydrology,
Alaska Redox (A14)						•			
Alaska Gleyed Pores (A15)		4 Give d	etails of col	or change	e in Remark	S		
Restrictive Layer (if presen	t):								
Type:								Hydric Soil Present	? Yes ○ No •
Depth (inches):									
	•			ed iron and	ı ınanyan	ese nodules	and concr	etions. not a well develope	ed deposition layer - developing
				ed iron and	i illaliyali	ese nodules	and concr	etions. not a well develope	ed deposition layer - developing
HYDROLOGY				ed non and	mangan	ese nodules	and concr	etions. not a well develope	ed deposition layer - developing
HYDROLOGY Wetland Hydrology Ind	icators:			ed non and	i mangan	ese nodules	and concr		ed deposition layer - developing cators (two or more are required)
				eu non and	imangan	ese nodules	and concr	_Secondary Indi	
Wetland Hydrology Ind				undation Vis				Secondary Indi	cators (two or more are required)
Wetland Hydrology Ind Primary Indicators (any or	ne is sufficier				sible on A	erial Image	ry (B7)	Secondary Indi Water Stai Drainage F	cators (two or more are required)_ ned Leaves (B9)
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