WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	Во	rough/City:	Denali Bo	orough Sampling Date: 31-Jul-13							
Applica	int/Owner: Alaska Energy Authority				Sampling Point: SW13_T205_06							
Investi	gator(s): SLI, EAC	e, hummocks etc.): Valley bottom										
Local relief (concave, convex, none): flat Slope: 1.7 % / 1.0 ° Elevation: 706												
	ion : Interior Alaska Mountains		3.367480397		Long.: -148.799490333 Datum: WGS84							
_		Lat <u>0</u>	3.307400397									
	p Unit Name:			No ○	NWI classification: Upland							
Are V Are V		significantly naturally pro	disturbed?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.							
	Hydrophytic Vegetation Present? Yes No C)	_									
	Hydric Soil Present? Yes No •)	Is the Sampled Area									
	Wetland Hydrology Present? Yes No •		wi	ithin a W	/etland? Yes ○ No ⊙							
	arks: relict glacial outwash stream? cummunity interledensity - 20% of site. ETATION - Use scientific names of plants. Li				ulders having no interstitial soil. boulder patches high							
	Ose scientine names of plants. El	or an spec	ics in the	piot.	Dominance Test worksheet:							
Tro	e Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species							
1.	e Stratum	0		Status	That are OBL, FACW, or FAC: 3 (A)							
2.					Total Number of Dominant							
3.					Species Across All Strata: 4 (B)							
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B)							
5.		0			P. J.							
	Total Cover	:0			Prevalence Index worksheet: Total % Cover of: Multiply by:							
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20% c	of Total Cover	0	OBL Species 0.1 x 1 = 0.1							
-		40	✓	FAC	FACW Species 5.1 x 2 = 10.2							
1. 2.	Dasiphora fruticosa	<u>40</u> 25	V	FAC FAC	FAC Species 81.1 x 3 = 243.3							
3.	Betula glandulosa Vaccinium uliginosum	5		FAC	FACU Species 20 x 4 = 80							
4.	Salix pulchra	5		FACW	UPL Species 0 x 5 = 0							
5.	Salix reticulata	1		FAC								
6.	Saliv haralavi	1		FAC	Column Totals: <u>106.3</u> (A) <u>333.6</u> (B)							
7.	Salix barciayi	0			Prevalence Index = B/A = 3.138							
8.		0			Hydrophytic Vegetation Indicators:							
9.		0			✓ Dominance Test is > 50%							
10.		0			Prevalence Index is ≤3.0							
<u>Her</u>	Total Cover b Stratum 50% of Total Cover:		of Total Cover	: 15.4	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)							
1.	Equisetum arvense	_7_	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)							
2.	Carex scirpoidea	20	✓	FACU	¹ Indicators of hydric soil and wetland hydrology must							
3.	Saussurea angustifolia	0.1		FAC	be present, unless disturbed or problematic.							
4.	Carex podocarpa	2		FAC	Plot size (radius, or length x width) 10m							
5.	Carex membranacea			FACW	% Cover of Wetland Bryophytes							
	Carex magellanica	0.1		OBL	(Where applicable)							
					% Bare Ground60							
					Total Cover of Bryophytes							
10.	Takal Causa	0			Hydrophytic							
	Total Cover : 50% of Total Cover: 1		of Total Covers	F 0.0	Vegetation Present? Yes ● No ○							

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SOIL Sampling Point: SW13_T205_06

Profile Description	on: (Describe to	the depth ne	eded to docu	iment the indicator or co	onfirm the at	sence of indic	ators)	· •	Tome: 51715_1265_66		
Depth		Matrix			dox Featu		ators,				
(inches)	Color (mo	oist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-3	7.5YR	3/1	100					Fibric Organics			
3-8	7.5YR	3/2	100					Silt Loam	w high organic content		
8-11								Cobbles			
					- ——						
¹Type: C=Con	centration. D	=Depletion.	. RM=Reduc	ced Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil Ir	ndicators:			Indicators for Pr	roblemati	c Hydric So	oils: ³				
Histosol or	Histel (A1)			Alaska Color Cl		4		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epipe	` '			Alaska Alpine s	swales (TA	5)		Underlying Layer			
Hydrogen :	Sulfide (A4)			Alaska Redox V	With 2.5Y	Hue		Other (Explain in Remark	s)		
Thick Dark	Surface (A12)									
Alaska Gle	yed (A13)			One indicator of and an approprial				nary indicator of wetland hesent	ydrology,		
Alaska Red	ox (A14)						•				
Alaska Gle	yed Pores (A1	5)		⁴ Give details of co	olor chang	e in Remark	S				
Restrictive Laye	r (if present):										
Type:								Hydric Soil Present	? Yes ○ No •		
Depth (inch	es):										
Remarks:											
no hydric soil in	dicators										
HYDROLO	GV.										
Wetland Hydr		tors:						Secondary India	cators (two or more are required)		
Primary Indicat			t)						ned Leaves (B9)		
Surface W	ater (A1)			☐ Inundation V	/isible on A	kerial Imager	rv (B7)		atterns (B10)		
	High Water Table (A2)			Sparsely Vegetated Concave Surface (B8)					hizospheres along Living Roots (C3)		
Saturation (A3)			Marl Deposits (B15)					f Reduced Iron (C4)			
☐ Water Marks (B1)				Hydrogen Sulfide Odor (C1)				☐ Salt Depos	its (C5)		
Sediment	Sediment Deposits (B2)				Dry-Season Water Table (C2)				Stressed Plants (D1)		
☐ Drift Depo	sits (B3)			Other (Expla	in in Rema	irks)		Geomorphi	c Position (D2)		
Algal Mat	or Crust (B4)							Shallow Aq	uitard (D3)		
Iron Depo	sits (B5)							Microtopog	raphic Relief (D4)		
Surface So	oil Cracks (B6)							FAC-neutra	l Test (D5)		
Field Observa	tions:		`								
Surface Water	Present?		No 💿	Depth (inche	es):						
Water Table P	resent?	Yes C	No 💿	Depth (inche	es):		Wetlar	nd Hydrology Presen	t? Yes ○ No •		
Saturation Pre		Ves C	No •	Depth (inche	ac).						
(includes capil	lary fringe)			— Берит (піспе							
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											
no wetland hyd	rology indicate	or									

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