WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Bc Bc	rough/City:	Denali Bo	rough Sampling Date: 01-Aug-13
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T145_06
Investigator(s): SLI, EAC	L	andform (hill	side, terrac	e, hummocks etc.): Terrace
Local relief (concave, convex, none): flat	,	Slope: 1.7	% / 1.0	° Elevation: 742
Subregion : Interior Alaska Mountains	Lat: 6	3.400536299		Long.: -148.654102683 Datum: WGS84
Soil Map Unit Name:		0.400000200	,	
· -		Voo	● No ○	NWI classification: Upland
	me of year? significantly naturally pro	disturbed?	Are "N	(If no, explain in Remarks.) ormal Circumstances" present? Yes No ded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map show			•	
Hydrophytic Vegetation Present? Yes ● No C)			
Hydric Soil Present? Yes No •)			pled Area
Wetland Hydrology Present? Yes No •		wi	thin a W	etland? Yes ○ No ④
Remarks: characterizing darrk green swath in aerial. comr lichen content.	munity iden	tical to simila	r photosign	ature due west (hiked through) - upland stob w little
VEGETATION -Use scientific names of plants. Li	st all spec	cies in the	plot.	
	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC:4 (A)
1. Picea glauca		✓	FACU	Total Number of Dominant
2	0			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:				Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	3.5 20% (of Total Cover:	1.4	OBL Species <u>0</u> x 1 = <u>0</u>
Betula glandulosa	_70	✓	FAC	FACW Species 70.1 x 2 = 140.2
Vaccinium uliginosum	10		FAC	FAC Species <u>95.1</u> x 3 = <u>285.3</u>
3. Ledum decumbens	70	✓	FACW	FACU Species7 x 4 =28
Vaccinium vitis-idaea	5		FAC	UPL Species <u>0</u> x 5 = <u>0</u>
5. Empetrum nigrum	10		FAC	Column Totals: <u>172.2</u> (A) <u>453.5</u> (B)
6	0			Prevalence Index = B/A =2.634_
7	0			
8				Hydrophytic Vegetation Indicators:
9				✓ Dominance Test is > 50%
10				✓ Prevalence Index is ≤3.0
Total Cover: Herb Stratum 50% of Total Cover:		_	: 33	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
Rubus chamaemorus	0.1	~	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
Carex bigelowii		~	FAC	¹ Indicators of hydric soil and wetland hydrology must
3	_			be present, unless disturbed or problematic.
4	-		-	Plot size (radius, or length x width) <u>10m</u>
5				% Cover of Wetland Bryophytes
6				(Where applicable)
7				% Bare Ground30
8				Total Cover of Bryophytes
9				
10Total Cover:	0.2			Hydrophytic Vegetation
50% of Total Cover:		of Total Cover:	0.04	Present? Yes No
				ı
Remarks: 45% lichen cover				

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SOIL Sampling Point: SW13_T145_06

Depth (inches) Color (m	oist)	%	Color (moi	ist)	%	Type ¹	Loc ²	Texture	Remarks
0-4 5YR	3/3	100						Fibric Organics	primarily moss roots and stems
4-5 10YR	2/1	100						Sapric Organics	_
5-20 7.5YR	3/2	85	2.5YR	2.5/1	15			Silt Loam	Inclusions in matrix are from old burn
									=
									_
								-	
								-	_
									_
Type: C=Concentration. D	=Depletion	. RM=Reduce						nnel. M=Matrix	
ydric Soil Indicators:			Indicator			4	oils: ³	1	
Histosol or Histel (A1)					ange (TA4)			Alaska Gleyed Without	Hue 5Y or Redder
Histic Epipedon (A2)				•	rales (TA5)			Underlying Layer	wlea\
Hydrogen Sulfide (A4)				Redox Wi	ith 2.5Y Hu	ie		Other (Explain in Rema	rks)
Thick Dark Surface (A1	2)		3 One indi	icator of h	vdrophytic	vegetatio	n. one prin	nary indicator of wetland	hydrology.
Alaska Gleyed (A13)					landscape				,
Alaska Redox (A14)	15)		4 Give det	tails of col	or change	in Remark	S		
Alaska Gleyed Pores (A									
strictive Layer (if present)	:								
Type:								Hydric Soil Presen	t? Yes ○ No •
Depth (inches):									
marks:									
marks: hydric soil indicators									
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