WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Sit	e: Susitna-Watana Hydroelectric Project		Borough/City:	Denali Bo	prough Sampling Date: 05-Aug-13				
Applicant/0	Owner: Alaska Energy Authority				Sampling Point: SW13_T201_01				
nvestigato			Landform (hillside, terrace, hummocks etc.): Kettle						
Local relie	f (concave, convex, none): concave		Slope: % / 2.6 ° Elevation: 684						
	: Interior Alaska Mountains	l at ·	- · <u></u> 63.366568923		Long.: -148.93363607 Datum: NAD83				
_	Init Name:	Lut	03.300300320	<u> </u>					
•	p-		0 V	Na ○	NWI classification: PEM1F				
Are Vege		significant naturally p	tly disturbed? problematic?	Are "N (If nee	lormal Circumstances" present? Yes No oded, explain any answers in Remarks.)				
Hyd	drophytic Vegetation Present? Yes 💿 No 🤇)			J. J.A.				
Нус	dric Soil Present? Yes ● No C)	Is the Sampled Area within a Wetland? Yes ● No ○						
We	etland Hydrology Present? Yes No)	W	within a Wetland? Yes ● No ○					
	hgwsl (hgwfs?). fairly steep upland fnwws down				Dominance Test worksheet:				
T C4		Absolute		Indicator Status	Number of Dominant Species				
Tree St		<u>% Cove</u> ı		Status	That are OBL, FACW, or FAC:				
2.		0		-	Total Number of Dominant				
3 —		0			Species Across All Strata: 2 (B)				
4.			- =		Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)				
5.			-						
j. —	Total Cover				Prevalence Index worksheet:				
Sanling	/Shrub Stratum 50% of Total Cover:		_	: 0	Total % Cover of: Multiply by: OBL Species 70 x 1 = 70				
Supring	<u> </u>				70 70				
		0	-						
_		•	-		FAC Species 0 x 3 = 0 FACU Species 0 x 4 = 0				
			-		UPL Species 0 x 5 = 0				
			-						
			-		Column Totals:				
7		0	-		Prevalence Index = B/A = 1.000				
			-		Undershit Vocatation Indicators				
9.			-		Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%				
			- H		✓ Prevalence Index is ≤3.0				
Herb St	Total Cover		- _ % of Total Cove	r: 0	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)				
-	omerum poluetro	10		OBL	Problematic Hydrophytic Vegetation ¹ (Explain)				
	aray agustilia	40		OBL	Indicators of hydric soil and wetland hydrology must				
	iophorum angustifolium	20	- =	OBL	be present, unless disturbed or problematic.				
·		0			District of all and booth at 1912				
					Plot size (radius, or length x width) 10m				
		•			% Cover of Wetland Bryophytes (Where applicable)				
		•			% Bare Ground40				
8		0	- 📮		Total Cover of Bryophytes 60				
		0	_		Hydrophytic				
10					Vosetation				
10	Total Cover 50% of Total Cover:		_	: 14	Vegetation Present? Yes ● No ○				

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SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)

Matrix

Redox Features

Profile Descripti Depth	on: (Describe to t	ded to docum	ent the indicator or con	firm the ab		ators)					
(inches)	Color (moi	st)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
					_						
									-		
								-			
¹Type: C=Cor	ncentration. D=	Depletion.		d Matrix ² Location		_		nnel. M=Matrix			
Hydric Soil Indicators: Indicators for Problem						matic Hydric Soils: ³					
Histosol or Histel (A1)				Alaska Color Ch	ange (TA	4) -		Alaska Gleyed Without Hue 5Y or Redder			
Histic Epip	Histic Epipedon (A2)			Alaska Alpine sv	•	•		Underlying Layer			
✓ Hydrogen	Sulfide (A4)			Alaska Redox With 2.5Y Hue Uther (Explain in Remarks)							
	Surface (A12)			3 One indicator of l	hydronhyt	ic vegetatio	n one prim	nary indicator of wetland h	vdrology		
Alaska Gle	yed (A13)			and an appropriate					ydi ology,		
Alaska Red	. ,			4 Give details of co	lor change	a in Damark	c				
	yed Pores (A15)		Give details of co	ioi citarig	e iii Keiliai k					
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	? Yes ● No O		
Depth (inch	nes):										
HYDROLO	GY										
Wetland Hydi	rology Indicat	ors:						Secondary Indi	cators (two or more are required)		
Primary Indica	tors (any one is	sufficient)						Water Stair	ned Leaves (B9)		
✓ Surface W	/ater (A1)			Inundation Vi	sible on A	erial Imager	ry (B7)	☐ Drainage P	atterns (B10)		
High Water Table (A2)				Sparsely Vege		ncave Surfac	ce (B8)		hizospheres along Living Roots (C3)		
Saturation	• ,			Marl Deposits	. ,				f Reduced Iron (C4)		
☐ Water Ma	` '			✓ Hydrogen Sul		` '		☐ Salt Depos			
	Deposits (B2)			☐ Dry-Season W					Stressed Plants (D1)		
☐ Drift Depo	or Crust (B4)			Other (Explain	ı ın Rema	rks)			ic Position (D2) juitard (D3)		
☐ Iron Depo									ıraphic Relief (D4)		
	oil Cracks (B6)							✓ FAC-neutra			
Field Observa								. The nead	1 (55)		
Surface Water		Yes	$_{No}$ \bigcirc	Depth (inches	s): 16						
Water Table P			No 💿	Depth (inches	•		Wetlar	nd Hydrology Presen	t? Yes ● No ○		
Saturation Pre		Yes O		, ,	,						
(includes capi				Depth (inches							
Describe Recor	ded Data (strea	m gauge, r	monitor well	, aerial photos, prev	ious inspe	ection) if ava	ilable:				
Remarks:											
cannot walk to	center of comm	nunity - kne	ee deep wate	er above soft organi	cs about 1	L5ft from bo	undary.				

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