WETLAND DETERMINATION DATA FORM - Alaska Region

	n/City: Denali Borough Sampling Date: 31-Jul-13								
Applicant/Owner: Alaska Energy Authority	Sampling Point: SW13_T205_11								
	orm (hillside, terrace, hummocks etc.): Flat								
Local relief (concave, convex, none): flat Slop									
Subregion: Interior Alaska Mountains Lat.: 63.3									
Soil Map Unit Name:	NWI classification: PSS1B Yes No (If no. explain in Remarks.)								
Are climatic/hydrologic conditions on the site typical for this time of year? Are Vegetation , Soil , or Hydrology significantly dist Are Vegetation , Soil , or Hydrology naturally proble SUMMARY OF FINDINGS - Attach site map showing sampling	rbed? Are "Normal Circumstances" present? Yes No Catic? (If needed, explain any answers in Remarks.)								
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No	Is the Sampled Area								
Wetland Hydrology Present? Yes No	within a Wetland? Yes ● No ○								
Remarks: numerous atv trails through area, rutting and erosion. /EGETATION - Use scientific names of plants. List all species in the plot.									
	ninant Indicator Dominance Test worksheet:								
	Number of Dominant Species That are OBL, FACW, or FAC: 5 (A)								
1. Picea glauca 10	FACU Total Number of Dominant								
2	Species Across All Strata:6(B)								
3. 4. 0	Percent of dominant Species That Are OBL, FACW, or FAC: 83.3% (A/B)								
	That Ale Obl., FACW, OF FAC. 83.3% (A/b)								
	Prevalence Index worksheet:								
	Total % Cover of: Multiply by:								
Sapling/Shrub Stratum 50% of Total Cover: 5 20% of To									
1. Picea glauca 5	FACU FACW Species 20 x 2 = 40								
2. Salix pulchra 10	FACW FAC Species 58.1 x 3 = 174.3								
3. Salix reticulata 7	FACU Species 15.1 x 4 = 60.40								
4. Salix richardsonii 1	FACW UPL Species 0 x 5 = 0								
5. Betula glandulosa 10	FAC Column Totals: 93.3 (A) 274.8 (B)								
6. Empetrum nigrum 5	FAC Prevalence Index = B/A = 2.945								
7. Rhododendron tomentosum 5	FACW								
8. Arctous ruber 3	FAC Hydrophytic Vegetation Indicators:								
9. Betula nana 3	FAC Dominance Test is > 50% ✓ Prevalence Index is ≤ 3.0								
10. Vaccinium uliginosum 20									
Total Cover:69_ Herb Stratum 50% of Total Cover:34.520% of T	Terriario di di a separate sireety								
1. Poa alpina 0.1	FACU Problematic Hydrophytic Vegetation (Explain)								
2. Carex bigelowii 5	FAC I Indicators of hydric soil and wetland hydrology must								
3. Petasites frigidus 1	FACW be present, unless disturbed or problematic.								
4. Equisetum arvense 5	FAC Plot size (radius, or length x width) 10m								
5. Rubus chamaemorus 1	FACW % Cover of Wetland Bryophytes								
6. Juncus castaneus 2	FACW (Where applicable)								
7. Alopecurus aequalis 0.1 8. Agrostis scabra 0.1	OBL % Bare Ground15								
	Total Cover of Bryophytes 60								
9									
Total Cover: 14.3	Hydrophytic Vegetation								
50% of Total Cover: <u>14.3</u>	(2)								
30% OF TOTAL COVER. 7.15 20% OF TO	il Cover. 2.86								

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SOIL Sampling Point: SW13_T205_11

	ion: (Describe to	the depth no	eeded to docur	ment the inc		firm the ab		ators)				
(inches)	Depth ————————————————————————————————————		%	Color (moist)		%	Type ¹	_Loc_2	Texture	Remarks		
0-3	5YR	3/2	100		.0.00,		.,,,,		Fibric Organics			
3-6	5YR	2.5/1	50						Sapric Organics			
				2 EVD				DI		50/ 7 5 VD 6/0 lining-/humanta		
6-14		4/1	<u>85</u> _	2.5YR	4/6	10	C	PL	Fine Sandy Loam	5% 7.5 YR 6/8 conc. pore linings/lvg root c		
						-		-				
¹Type: C=Cor	ncentration. D=	=Depletion	. RM=Reduc						annel. M=Matrix			
Hydric Soil I	Hydric Soil Indicators: Indicators for Problematic Hydric Soils: ³											
Histosol or Histel (A1) Alaska Color Change (TA4)									Alaska Gleyed Without Hue 5Y or Redder			
Histic Epip	edon (A2)			Alaska Alpine swales (TA5)					Underlying Layer			
Hydrogen	Sulfide (A4)			Alas	ka Redox W	ith 2.5Y F	lue	L	Other (Explain in Remark	cs)		
Thick Dark	Surface (A12))		3.0 :-	. J:L£					duala a		
Alaska Gle	eyed (A13)						ne position r		mary indicator of wetland hesent	iyarology,		
✓ Alaska Red	. ,						•					
☐ Alaska Gle	yed Pores (A1	5)		*Give (ietalis oi co	ior change	e in Remark	5				
Restrictive Laye	er (if present):											
Type: activ	•								Hydric Soil Present	? Yes ● No O		
Depth (inch	nes): 14											
HYDROLO	GY											
Wetland Hyd	rology Indica	tors:							Secondary Indi	cators (two or more are required)		
Primary Indica	tors (any one	is sufficien	t)						Water Stained Leaves (B9)			
Surface W	/ater (A1)			☐ In	Inundation Visible on Aerial Imagery (B7)				☐ Drainage Patterns (B10) ✓ Oxidized Rhizospheres along Living Roots (C3)			
High Wate	er Table (A2)			Sparsely Vegetated Concave Surface (B8)				ce (B8)				
Saturation (A3)				Marl Deposits (B15)					Presence of Reduced Iron (C4)			
☐ Water Ma				∐ Ну	drogen Sul	fide Odor	(C1)		☐ Salt Depos			
	Deposits (B2)			_	y-Season W					Stressed Plants (D1)		
Drift Depo	. ,			☐ Ot	her (Explair	n in Rema	rks)			ic Position (D2)		
	or Crust (B4)								✓ Shallow Ac			
☐ Iron Depo	` ,									graphic Relief (D4)		
	oil Cracks (B6)							1	☐ FAC-neutra	al Test (D5)		
Field Observa		,, (
Surface Water	r Present?		No •	De	epth (inches	s):						
Water Table P	resent?	Yes 🤇	No 💿	De	epth (inches	s):		Wetla	nd Hydrology Presen	t? Yes • No 🔾		
Saturation Pre (includes capi		Yes C	No •	De	epth (inches	s):						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												

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