## WETLAND DETERMINATION DATA FORM - Alaska Region

Applicant/Owner:       Alaska Energy Authority       Sampling Point:	SW12_T08_01 Datum: NAD83 USC			
Investigator(s):       JGK       Landform (hillside, terrace, hummocks etc.):       Floodplain         Local relief (concave, convex, none):       convex       Slope:       % /       1.0       °       Elevation:       403         Subregion :       Southcentral Alaska       Lat.:       62.7670381939       Long.:       -148.833505756         Soil Map Unit Name:       NWI classification:       R3         Are climatic/hydrologic conditions on the site typical for this time of year?       Yes ● No ○ (If no, explain in Remarks.)         Are Vegetation       , Soil       , or Hydrology       significantly disturbed?       Are "Normal Circumstances" present?         Are Vegetation       , Soil       , or Hydrology       naturally problematic?       (If needed, explain any answers in Remarks.)         SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important feature	Datum: NAD83			
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Are Vegetation				
Are Vegetation $\checkmark$ , Soil $\checkmark$ , or Hydrology $\square$ naturally problematic? (If needed, explain any answers in Remar SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important feature	Yes 🕘 No 🔾			
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	es, etc.			
Hydrophytic Vegetation Present? Yes  No				
Hydric Soil Present? Yes No				
Wetland Hydrology Present? Yes  No  Within a Wetland ?				
Remarks: Gravel bar adjacent to Susitna River - site floods regularly (drift deposits, sediment deposits, geomorphic position). Spars	se vegetation appears to			
be FACU colonizers between nood events. Low organic content of sandy sons appear to preclude development of redoxin	norphic reatures.			
VEGETATION - Use scientific names of plants. List all species in the plot.				
Absolute Dominant Indicator Dominance Test worksheet:				
Tree Stratum <u>% Cover</u> Species? Status Number of Dominant Species That are OBL FACW or FAC	4 (A)			
1 0 Total Number of Dominant				
2.   0   Species Across All Strata:	<u>9</u> (B)			
3.      O      Percent of dominant Species				
4 0 That Are OBL, FACW, or FAC:	44.4% (A/B)			
5 0 Prevalence Index worksheet:				
Total % Cover of: Mult	tiply by:			
Sapling/Shrub Stratum 50% of Total Cover: 0 OBL Species 0 x 7	1 =			
1. Populus balsamifera     5     FACU     FACW Species     2     x 2	2 =4			
2. Salix alaxensis     2     ✓     FAC     FAC Species     7     x 3	3 = 21			
	4 = 32			
	5 = 5			
5 0 U Column Totals: <u>18</u> (A	A) <u>62</u> (B)			
$0$ $\Box$ Prevalence Index = B/A =	3.444			
0 Hydropnytic vegetation indicators	5:			
$\begin{array}{c} 0 \\ 10 \\ \end{array}$				
Total Cover: 7	, ide anno antina data in			
Herb Stratum       50% of Total Cover:       3.5       20% of Total Cover:       1.4       Remarks or on a separate sheet)	vide supporting data in			
1. Hedysarum alpinum 1 FACU Problematic Hydrophytic Vegetati	ion <sup>1</sup> (Explain)			
2. Calamagrostis canadensis 5 <b>V</b> FAC <sup>1</sup> Indicators of hydric soil and wetland	hydrology must			
3. Artemisia tilesii 1 FACU be present, unless disturbed or proble	ematic.			
4. Lupinus arcticus 1 FACU Plot size (radius, or length x width)	10			
5. Equisetum variegatum <u>1</u> FACW Cover of Wetland Bryophytes	_1011			
6. Potentilla anserina <u>1</u> <u>FACW</u> (Where applicable)				
7. Solidago spathulata 1 VPL % Bare Ground	_80			
8 0	0			
10 0 Hydrophytic				
I OTAL COVER: <u>11</u> 50% of Total Cover: 5.5 20% of Total Cover: 2.2 Present? Yes • No	0			

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Profile Description: (Describe to the dept Matrix		ne depth ne <b>atrix</b>	eeded to docu	cument the indicator or confirm the absence of indicator <b>Redox Features</b>			tors)		
(inches)	Color (mois	it)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-5	5Y	2.5/1	95					Loamy Sand	5% subang coarse gravel 1 in band at 1.
5-11		2.5/1	50					Sand	60% rounded to subang cobble and coarse
						- <u></u> .			
						· ·			
									1 <del>8</del>
		,							
1									
Type: C=Cor	icentration. D=L	Depletion	. RM=Reduc	ed Matrix <sup>2</sup> Location	1: PL=Por	e Lining. RC	=Root Cha	innel. M=Matrix	
Hydric Soil I	ndicators:			Indicators for Pr	oblematio	C Hydric So	oils:	1	
Histosol or	r Histel (A1)			Alaska Color Ch	nange (TA4	1)		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epip	edon (A2)			Alaska Alpine s	wales (TAS	5)		Other (Evaluin in Domari	
Hydrogen	Sulfide (A4)			Alaska Redox V	Vith 2.5Y F	lue			
Thick Dark	s Surface (A12)			<sup>3</sup> One indicator of	hydronhyt	ic vegetatio	n one nrin	nary indicator of wetland h	hydrology
Alaska Gle	eyed (A13)			and an appropriat	e landscap	e position n	nust be pre	esent	rydrology,
Alaska Red	dox (A14)			4 Give details of co	lor change	a in Pomark	<b>c</b>		
Alaska Gle	eyed Pores (A15)						5		
Restrictive Laye	er (if present):								
Type:								Hydric Soil Present	? Yes 🖲 No 🔾
Depth (incl	nes):								
Remarks:									
Refusal at 11" (	due to cobbles	hut not a	restrictive la	aver from a hydrologi	c nersnect	ive Hydric	soil assum	ed due to strong hydrolog	ic indicators and geomorphic
position.		but not u			e perspect	iver riyane	Son assum	ica ade to strong nyarolog	le indicators and geomorphic
	GY								
Wetland Hyd	rology Indicat	ors:						Secondary Indi	cators (two or more are required)
Primary Indica	tors (any one is	sufficien	t)					Water Stai	ined Leaves (B9)
Surface W	/ater (A1)		•,		isible on A	erial Imager	v (B7)		Patterns (B10)
High Wate	er Table (A2)				etated Cor	cave Surfac	e (B8)		hizospheres along Living Roots (C3)
Saturation	n (A3)				(B15)		e (bb)		of Reduced Iron (C4)
Water Ma	r(, (3) rks (B1)				lfide Odor	(C1)			sits (C5)
Sediment	Deposits (B2)			Dry-Season V	Vater Tabl	(C1) = (C2)		Stunted or	Stressed Plants (D1)
	nsits (B3)			Other (Evplai	n in Poma	c(C2)			ic Position (D2)
	or Crust (B4)					1K5)		Shallow Ar	uitard (D3)
	of Clust (D-)								aranhic Relief (D4)
	oil Cracks (B6)								Tect (D5)
Surface Water	r Procent?	Vec (		Depth (inche	c).				
	Present?			Deput (inche	5).				
Water Table F	resent?	res 🕒		Depth (inche	s): 7		wetia	na Hyarology Presen	it? Yes 🖲 NO 🖯
Saturation Pre (includes capi	esent? llary fringe)	Yes 🖲	No 🔿	Depth (inche	s): 6				
Describe Recor	ded Data (strea	m gauge,	, monitor we	ell, aerial photos, prev	ious inspe	ction) if ava	ilable:		
Remarks:									