## WETLAND DETERMINATION DATA FORM - Alaska Region

Applicant/Owner: Alaska Energy Authority   Landform (hillside, terrace, hummocks etc.): Hillside
Local relief (concave, convex, none);   none
Solar lelief (concave, convex, none):   none
Subregion   Interior Alaska Mountains   Lat.: 62.6884779909   Long.: -147.652955823   Datum: NAD83
Soil Map Unit Name:  Are climatic/hydrologic conditions on the site typical for this time of year?  Are Vegetation
Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (Iff no, explain in Remarks.)  Are Vegetation Soil Or Hydrology Significantly disturbed? Are "Normal Circumstances" present? Yes No Or Naturally problematic? (If needed, explain any answers in Remarks.)  SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present? Yes No Welland Hydrology Present? Yes No Pominant Species In the Plot.  Free Stratum Spice Stratus Species? Picea glauca Spice Spice Across All Stratus Species Across All Stratus Total Cover: 15 20% of Total Cover: 30 Total Cover: 15 20% of Total Cover: 6 PACW Species 120 x 2 = 240 FACW Species 110 x 4 = 44
Are Vegetation
Are Vegetation
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present? Yes No No Wetland Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland?
Hydrophytic Vegetation Present?   Yes
Sthe Sampled Area   within a Wetland?   Yes   No ●   No ● No ●
Wetland Hydrology Present?   Yes   No   Within a Wetland?   Yes   No   Wetland Hydrology Present?   Yes   No   Within a Wetland?   Yes   No   Wetland Hydrology Present?   Yes   No   Wetland Hydrology Present?   Yes   No   Within a Wetland?   Yes   No   No   No   No   No   No   No   N
Wetland Hydrology Present?         Yes ○ No ●         within a Wetland?         Yes ○ No ●           Remarks:           VEGETATION - Use scientific names of plants. List all species in the plot.           Image: Present of Deminant Species (Across All Stratus)         Dominant Species (Across All Stratus)         Percent of dominant Species (Across All Stratus)         7 (B)           3.
VEGETATION - Use scientific names of plants. List all species in the plot.           Tree Stratum         Absolute % Cover Species? Species?         Dominant Species That are OBL, FACW, or FAC:
Tree Stratum         Absolute % Cover Species?         Dominant Species?         Number of Dominant Species That are OBL, FACW, or FAC:         7 (A)           1. Picea mariana         25         ✓ FACW         FACW         Total Number of Dominant Species That are OBL, FACW, or FAC:         7 (B)           3.
Tree Stratum         Absolute % Cover Species?         Dominant Species?         Number of Dominant Species That are OBL, FACW, or FAC:         7         (A)           1. Picea mariana         25         ✓         FACW         Total Number of Dominant Species That are OBL, FACW, or FAC:         7         (B)           3. Picea glauca         5         FACW         Percent of dominant Species That Are OBL, FACW, or FAC:         7         (B)           5. Percent of dominant Species That Are OBL, FACW, or FAC:         100.0%         (A/B)           5. Percent of dominant Species That Are OBL, FACW, or FAC:         100.0%         (A/B)           5. Prevalence Index worksheet:         Total % Cover of:         Multiply by:           6. OBL Species 0         X 1 = 0         X 1 = 0           9 Picea mariana         10         ✓         FACW         FACW Species 120         X 2 = 240           1. Picea mariana         5         FACW         FACW Species 120         X 2 = 240           2. Picea glauca         5         FACW         FACW Species 11         X 4 = 44           3. Salix pulchra         15         FACW         FACW         FACU Species 11         X 4 = 44
Tree Stratum         Absolute % Cover Species?         Dominant Species?         Number of Dominant Species That are OBL, FACW, or FAC:         7         (A)           1. Picea mariana         25         ✓         FACW         Total Number of Dominant Species That are OBL, FACW, or FAC:         7         (B)           3. Picea glauca         5         FACW         Percent of dominant Species That Are OBL, FACW, or FAC:         7         (B)           5. Percent of dominant Species That Are OBL, FACW, or FAC:         100.0%         (A/B)           5. Percent of dominant Species That Are OBL, FACW, or FAC:         100.0%         (A/B)           5. Prevalence Index worksheet:         Total % Cover of:         Multiply by:           6. OBL Species 0         X 1 = 0         X 1 = 0           9 Picea mariana         10         ✓         FACW         FACW Species 120         X 2 = 240           1. Picea mariana         5         FACW         FACW Species 120         X 2 = 240           2. Picea glauca         5         FACW         FACW Species 11         X 4 = 44           3. Salix pulchra         15         FACW         FACW         FACU Species 11         X 4 = 44
Tree Stratum         Absolute % Cover Species?         Dominant Species? Status         Number of Dominant Species That are OBL, FACW, or FAC:         7 (A)           1. Picea mariana         25         ✓ FACW         FACW         Total Number of Dominant Species That are OBL, FACW, or FAC:         7 (B)           3.
Tree Stratum         % Cover         Species?         Status         Number of Dominant Species         That are OBL, FACW, or FAC:         7         (A)           1. Picea mariana         25         ✓         FACU         Total Number of Dominant Species Across All Strata:         7         (B)           3. 3         0         0         0         Percent of dominant Species That Are OBL, FACW, or FAC:         100.0%         (A/B)           5.
1. Picea mariana       25       ✓ FACW       That are OBL, FACW, or FAC: 7 (A)         2. Picea glauca       5       FACU       Total Number of Dominant Species Across All Strata: 7 (B)         3. 4. 0       0       Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)         5. 0       0       Prevalence Index worksheet: Total % Cover of: Multiply by:         Sapling/Shrub Stratum       50% of Total Cover: 15       20% of Total Cover: 6       OBL Species 0 x 1 = 0         1. Picea mariana       10       ✓ FACW       FACW Species 120 x 2 = 240         2. Picea glauca       5       FACU       FACU Species 11 x 4 = 44         3. Salix pulchra       15       ✓ FACW       FACU Species 11 x 4 = 44
2. Picea glauca       5       FACU       Total Number of Dominant Species Across All Strata:       7       (B)         3. 4. 5. 7. 6. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7.
3.
4.
5.     Total Cover:     30     Prevalence Index worksheet:       Sapling/Shrub Stratum     50% of Total Cover:     15     20% of Total Cover:     6     OBL Species     0     x 1 =     0       1. Picea mariana     10     ✓ FACW     FACW Species     120     x 2 =     240       2. Picea glauca     5     FACW     FACW Species     46     x 3 =     138       3. Salix pulchra     15     ✓ FACW     FACW Species     11     x 4 =     44
Total Cover: 30         Total Word Cover of: Multiply by:           Sapling/Shrub Stratum         50% of Total Cover: 15         20% of Total Cover: 6         OBL Species 0         x 1 = 0           1. Picea mariana         10         ✓ FACW         FACW Species 120         x 2 = 240           2. Picea glauca         5         FACU         FACU Species 46         x 3 = 138           3. Salix pulchra         15         ✓ FACW         FACU Species 11         x 4 = 44
Sapling/Shrub Stratum         50% of Total Cover:         15         20% of Total Cover:         6         OBL Species         0         x 1 =         0           1. Picea mariana         10         ✓         FACW         FACW Species         120         x 2 =         240           2. Picea glauca         5         FACU         FACU Species         46         x 3 =         138           3. Salix pulchra         15         ✓         FACW         FACU Species         11         x 4 =         44
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2. Picea glauca       5       FACU       FAC Species       46       x 3 =       138         3. Salix pulchra       15       ✓ FACW       FACW       FACU Species       11       x 4 =       44
3. Salix pulchra  15  FACW  FACU Species  11  x 4 = 44
LIDI Cresine
4. Vaccinium uliginosum 10 🗹 FAC UPL Species0 x 5 =0
5. Salix barclayi 1 Golumn Totals: 177 (A) 422 (B)
6. Vaccinium vitis-idaea 5 FAC
7. Betula nana 5 Prevalence Index = B/A = 2.384
8. Rhododendron tomentosum 10 FACW Hydrophytic Vegetation Indicators:
9. Salix alaxensis 3 □ FAC ☑ Dominance Test is > 50%
10. Salix glauca
Total Cover: 66 Morphological Adaptations <sup>1</sup> (Provide supporting data in
Herb Stratum 50% of Total Cover: 33 20% of Total Cover: 13.2 Remarks or on a separate sheet)
1. Petasites frigidus 5 FACW Problematic Hydrophytic Vegetation 1 (Explain)
2. Equisetum sylvaticum  20 FAC Indicators of hydric soil and wetland hydrology must
3. Orthilia secunda 1 FACU be present, unless disturbed or problematic.
4
5. Arctagrostis latifolia 55
C (white applicable)
7 % Bale Glound
8 O
10 O Hydrophytic  Total Cover: 81 Vegetation
50% of Total Cover: 40.5 20% of Total Cover: 16.2 Present? Yes No
Remarks: salbar and grasses collected for confirmation

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SOIL Sampling Point: SW12\_T46\_06

(inches)	Color (mo	ist)	%	Color (m	oist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2.5			100						Fibric Organics	
2.5-4.5			100						Hemic Organics	
4.5-5			100			-			Sapric Organics	
5-16	10YR	4/2	80	10YR	3/6	15		 PL	Silt Loam	F0/ ground
3-10		4/2		101K					SIIL LOGIII	5% gravel
										_
ype: C=Con		=Depletior		ed Matrix	2 Location:	: PL=Pore	Lining, RC	=Root Cha	nnel. M=Matrix	
dric Soil In					ors for Pro					
	Histel (A1)				ka Color Cha		4	,	Alaska Gleyed Without	Hue 5V or Redder
Histic Epipe	` '				ka edidi en ka Alpine sv				Underlying Layer	ride 31 of Redder
	Sulfide (A4)				ka Redox W	•	•		Other (Explain in Rema	rks)
, ,	Surface (A4)	`		7 11031	ta recook W	101 2.51 11	uc			,
	•	,		<sup>3</sup> One ir	ndicator of h	nydrophyti	c vegetatio	n, one prin	nary indicator of wetland	hydrology,
Alaska Gley				and an	appropriate	landscap	e position r	nust be pre	esent	
Alaska Red	` '	-\		4 Give d	letails of co	lor change	in Remark	s		
Alaska Gley	yed Pores (A1	))								
trictive Laye	r (if present):									
Type:									Hydric Soil Presen	t? Yes ○ No •
narks:										
marks: hydric soil in	dicators									
marks: hydric soil in	dicators	tors:							_Secondary Inc	dicators (two or more are required
marks: hydric soil in	dicators		ıt)							dicators (two or more are required
marks: hydric soil in  DROLOG	GY rology Indicators (any one		ıt)		undation Vis	sible on Ae	erial Imagei	ry (B7)	Water Sta	
DROLOU tland Hydr mary Indicat Surface W	GY rology Indicators (any one		ıt)		undation Visarsely Vege				Water Sta	nined Leaves (B9) Patterns (B10)
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