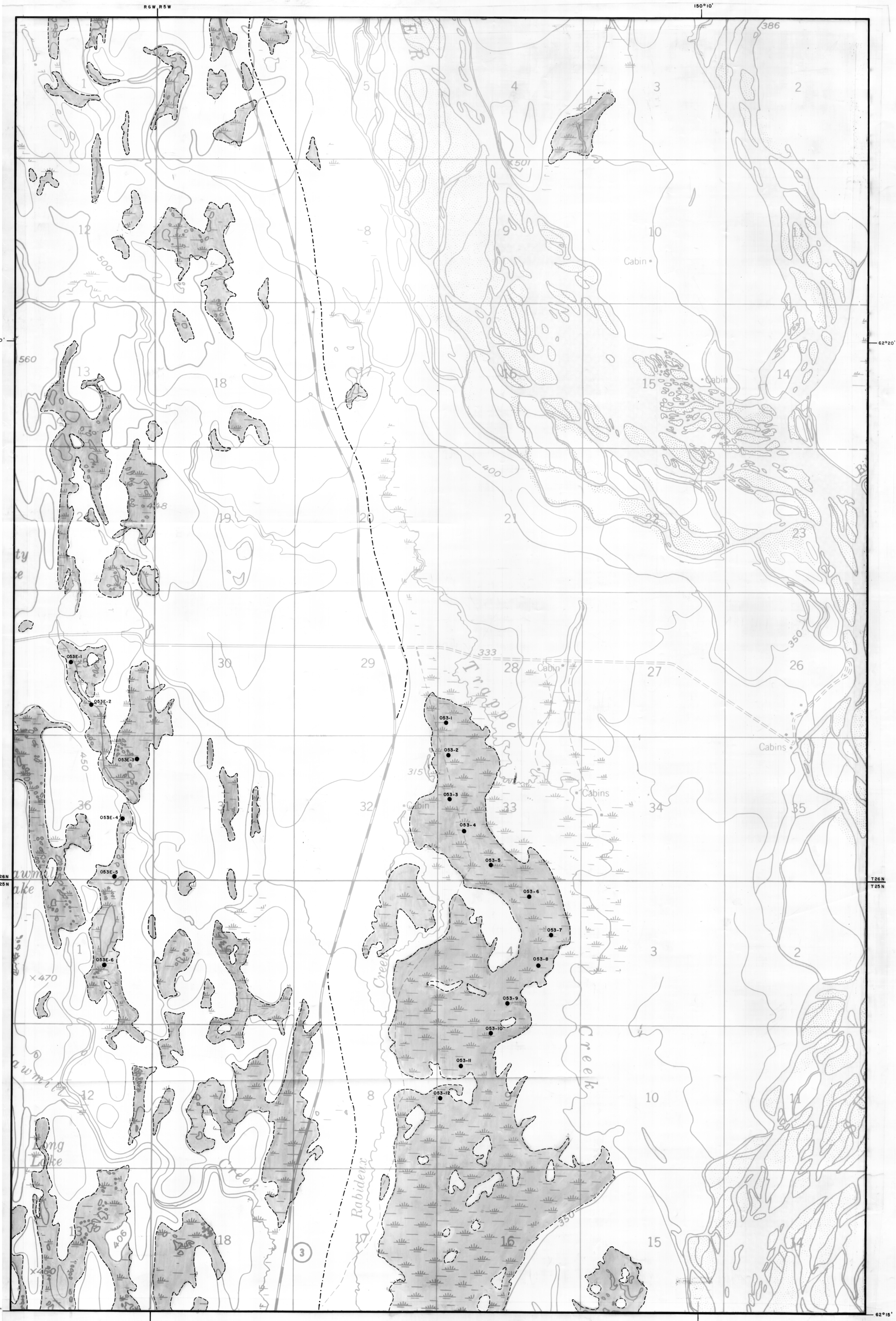
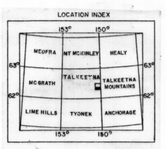



Base from U.S. Geological Survey Talkeetna B-1 Quadrangle, Alaska, 1958.

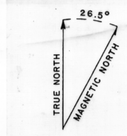



SCALE 1 : 15,840

1 0.5 0 0.5 1 MILE

1 0.5 0 0.5 1 KILOMETER

CONTOUR INTERVAL 50 FEET
DATUM IS MEAN SEA LEVEL




APPROXIMATE MEAN DECLINATION, 1958

Based on aerial photograph interpretation (1980 NASA U-2, lines 96-97) September 1981 through November 1981. Coring by Northern Technical Services (NORTEC), Anchorage, Alaska, July 1981 through September 1981. Analysis for NORTEC by Dr. Rouse Farnham, consultant, Hibbing, Minnesota, and Mineral Industry Research Laboratory, University of Alaska, Fairbanks, Alaska.

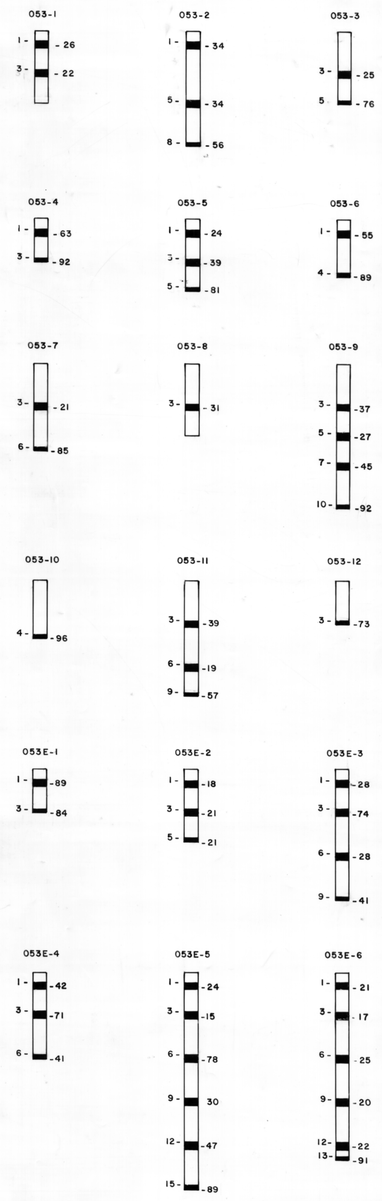
## EXPLANATION

**Core Explanation**

OOA-1 — Core site number keyed to map

Depth (ft.)—3— -25 — Wt. % ash, moisture free

**Core Samples**




**Estimated Peat Resources**

**Bases**

- 7 lb. peat/ft., moisture and ash free (MAF)
- 9,732 BTU/lb., mean moisture and ash free BTU determined from analyzed cores of this study
- 5.6 ft. mean peat depth determined from cores on this map

| | SECTION | ACRES | TONS x $10^3$ | SECTION | ACRES | TONS x $10^3$ | SECTION | ACRES | TONS x $10^3$ | SECTION | ACRES | TONS x $10^3$ | SECTION | ACRES | TONS x $10^3$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | R6W | | R5W | | | | | | | | | | | |
| | 1 | 76 | 64.9 | 6 | 125 | 106.7 | 5 | 1 | 0.8 | 4 | 36 | 30.7 | 3 | 26 | 22.2 |
| | 12 | 44 | 37.6 | 7 | 156 | 133.2 | 8 | 4 | 3.4 | 9 | 1 | 0.8 | | | |
| | 13 | 93 | 79.4 | 18 | 59 | 50.4 | 17 | 5 | 4.3 | | | | | | |
| | 24 | 224 | 191.2 | 19 | 76 | 64.9 | 20 | 0 | 0 | | | | | | |
| | 25 | 157 | 134.0 | 30 | 16 | 13.7 | 29 | 13 | 11.1 | 28 | 41 | 35.0 | | | |
| T26N | 36 | 244 | 208.3 | 31 | 46 | 39.3 | 32 | 61 | 52.1 | 33 | 283 | 241.6 | | | |
| T25N | 1 | 187 | 159.7 | 6 | 94 | 80.3 | 5 | 186 | 158.8 | 4 | 403 | 344.1 | | | |
| | 12 | 54 | 46.1 | 7 | 240 | 204.9 | 8 | 120 | 102.5 | 9 | 11 | 9.4 | 10 | 7 | 6.0 |
| | 13 | 289 | 246.7 | 18 | 161 | 137.5 | 17 | 225 | 192.1 | 16 | 442 | 377.4 | 15 | 85 | 72.6 |

| | |
|---|---|
| Total Acres Peat | 4291 |
| Total Tons Peat, MAF | 3,664 x $10^3$ |
| Total Quads*, MAF | .07 |

*1 Quad = $10^{15}$ BTU

**Symbols**

Peatland

OOA-1 — Core site and number

Parks Highway Revised

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# PEAT RESOURCE MAP, SOUTH-CENTRAL TALKEETNA B-1 QUADRANGLE, ALASKA

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by

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1982

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In this report, total tons and total Btu values are for moisture- and ash-free peat. U.S. Department of Energy fuel-grade-peat criteria include a minimum of 8,300 Btu/lb (dry) and a maximum of 25 percent ash. However, 8,300 Btu/lb corresponds to an ash content of about 17 percent, which is considered critical for fuel-grade peat. Twenty-seven percent of all samples (n=511) analyzed for ash has less than 25 percent ash and 11 percent has less than 17 percent ash. Thus, values for total tons and total Btu's of in-situ fuel-grade peat are approximately 11 percent of those values shown, or 403 x $10^3$ and 0.8 x $10^{13}$, respectively; total quads is 0.008.

If peat processing reduces the ash content by 50 percent, the maximum allowable in-situ ash content is 34 percent. Forty-three percent of all samples analyzed for ash has less than 34 percent ash; 43 percent of the total tons and total Btu's is 1,576 x $10^3$ and 3.1 x $10^{13}$, respectively; total quads is 0.031.