

Wisconsin Geological and Natural History Survey  
Miscellaneous Map 42 1997  
Groundwater Quality Investigation Maps  
of Burnett County, Wisconsin  
Plate 3

A part of the Burnett County Groundwater Resource Investigation,  
a joint project of the Wisconsin Geological and Natural History Survey  
and the Burnett County Board of Supervisors.

Compiled by M.S. Bridson  
Automation by K.C. Roushar  
Edited by K.J. Cates

EXPLANATION

206 alkalinity of water sample, in mg/L (CaCO<sub>3</sub>)

GEOLOGIC MATERIALS CONTRIBUTING WATER TO WELL BY SOURCE OF DATA

FROM WELL CONSTRUCTOR'S REPORT<sup>1</sup> INFERRED FROM HOMEOWNER INFORMATION OR  
WELL CONSTRUCTOR'S REPORTS FROM NEARBY WELLS

- sand and/or gravel
- sandstone or sandstone and shale
- sand and/or gravel
- sandstone or sandstone and shale
- basalt or granite
- ? unknown
- unknown

<sup>1</sup>Well Constructor's Report represents the most probable match of a Wisconsin Department of Natural Resources Well Constructor's Report on file at the Wisconsin Geological and Natural History Survey to the sampled well on the basis of information provided by the homeowner, the location of the well as reported by the well driller, land ownership information from plat books, and building locations as shown on U.S. Geological Survey 7.5-minute topographic maps.

Note: In areas where sampled wells with the same map symbol are too close together for the symbols to be clearly identified, one symbol is used, and the water-quality results are next to the combined symbol. However, if the map symbols are different, then two slightly separated symbols are shown, and water-quality results are next to each symbol.

Samples were collected January 1991 through April 1994 by John Donlin under the supervision of Dave Ferris (Burnett County Land Conservation Department), and were frozen prior to analysis. Chemical analyses were performed December 1991 through October 1994 by K.L. Lund (Wisconsin Geological and Natural History Survey).

Analytical method used: sulfuric acid titration, using Bromocresol Green-Methyl Red Indicator and a HACH digital titrator.

Reference: HACH Company Digital Titrator Model 16900-01 Methods Manual, 1980, p. 34-39.

Reproducibility: ± 5 mg/L at ≤ 200 mg/L (CaCO<sub>3</sub>); detection limit, 2 mg/L (CaCO<sub>3</sub>).

This map is an interpretation of the data available at the time of preparation. Every reasonable effort has been made to ensure that this interpretation conforms to sound scientific and cartographic principles; however, the map should not be used to guide site-specific decisions without verification. Proper use of the map is the sole responsibility of the user.

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Wisconsin Geological and Natural History Survey  
3817 Mineral Point Road, Madison, WI 53705-5100  
608/262.1705 fax 608/262.8985 <http://www.wisconsin.gov/wgnhs/>  
James M. Robertson, Director and State Geologist

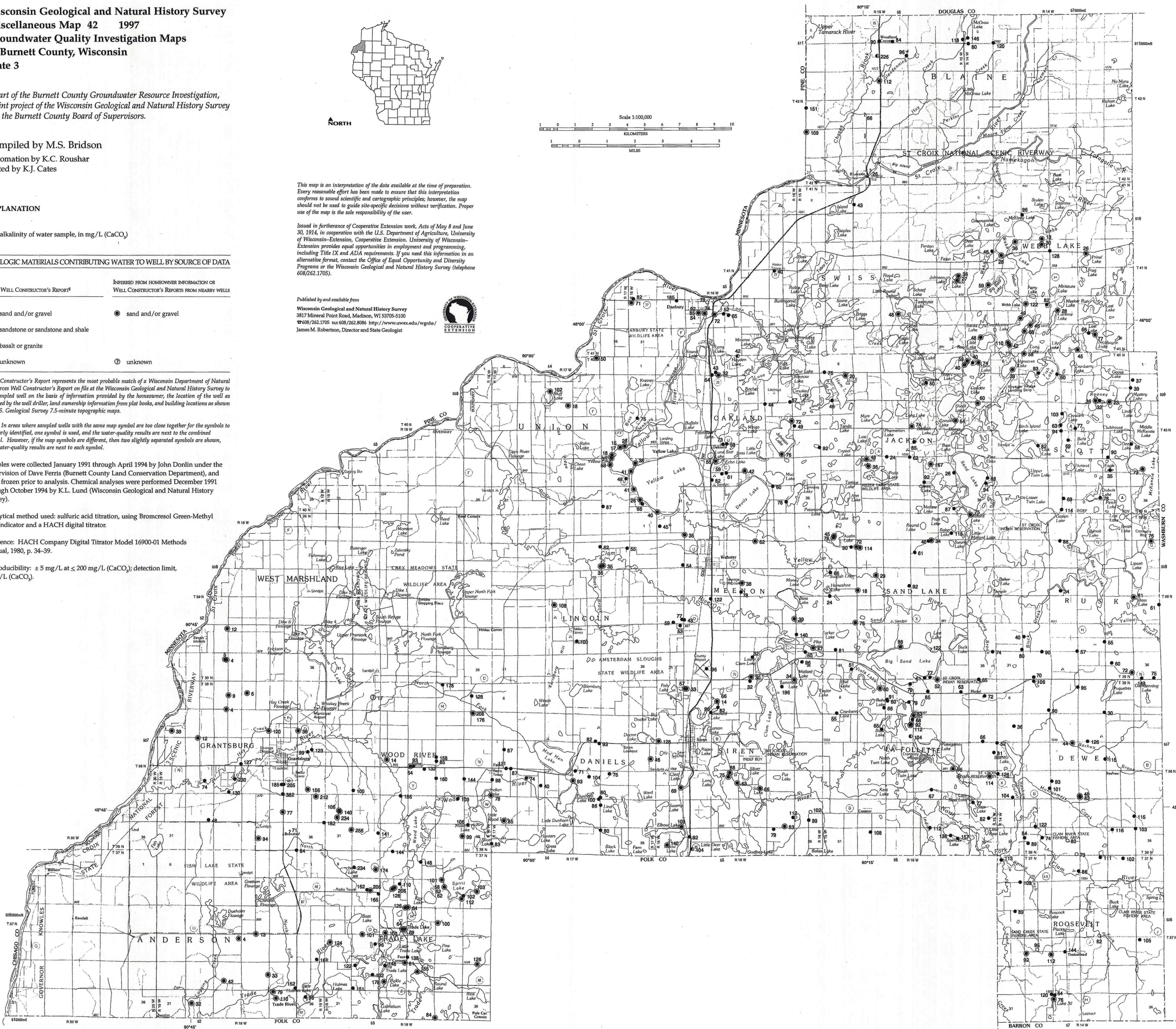


Plate 3 Laboratory Measurement of Alkalinity in mg/L (CaCO<sub>3</sub>)

Base map from U.S. Geological Survey County Map Series (Topographic), 1985.