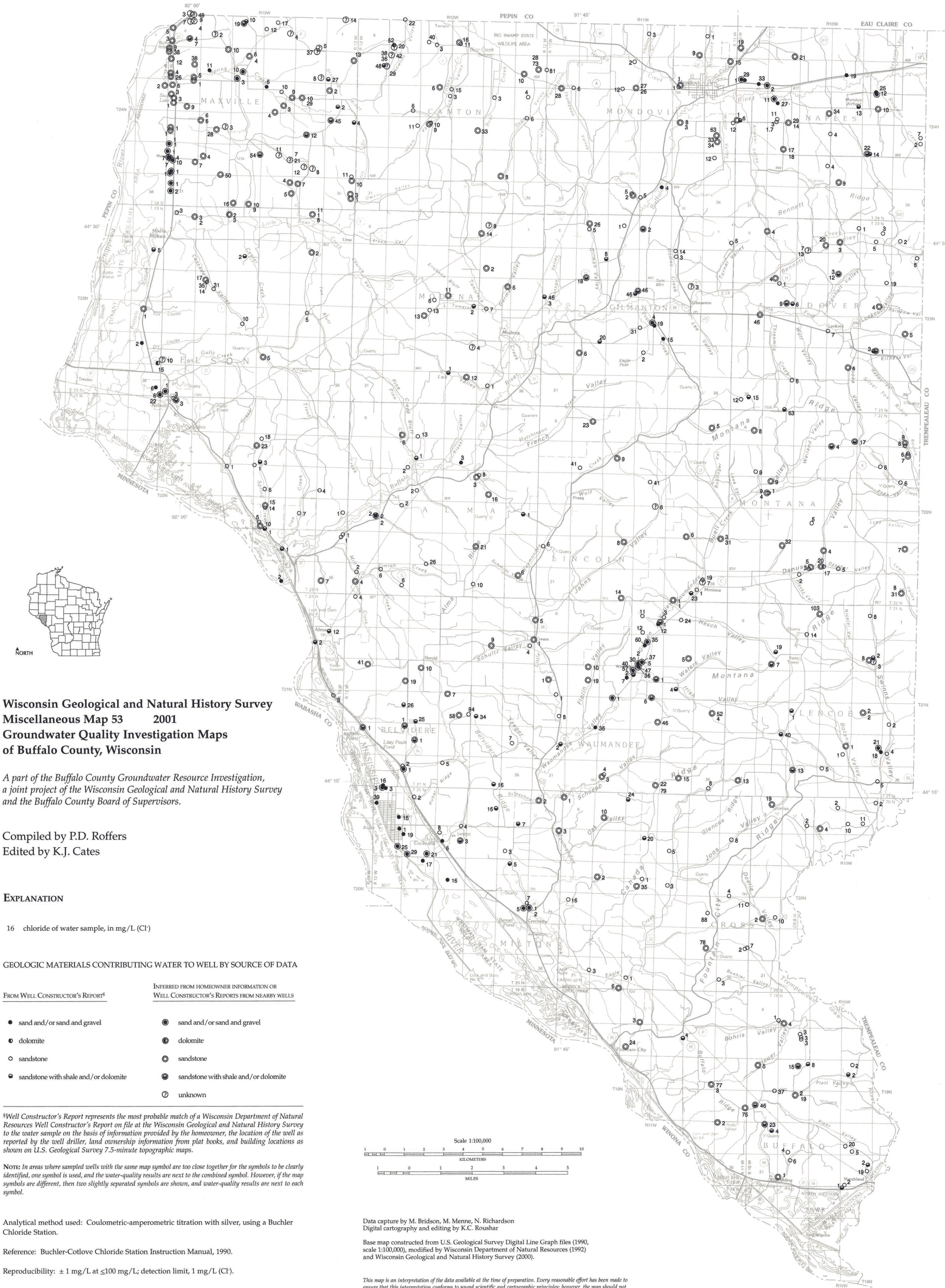




**Wisconsin Geological and Natural History Survey
Miscellaneous Map 53 2001
Groundwater Quality Investigation Maps
of Buffalo County, Wisconsin**

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

Compiled by P.D. Roffers
Edited by K.J. Cates

EXPLANATION

16 chloride of water sample, in mg/L (Cl⁻)

GEOLOGIC MATERIALS CONTRIBUTING WATER TO WELL BY SOURCE OF DATA

FROM WELL CONSTRUCTOR'S REPORT [§]	INFERRED FROM HOMEOWNER INFORMATION OR WELL CONSTRUCTOR'S REPORTS FROM NEARBY WELLS
● sand and/or sand and gravel	● sand and/or sand and gravel
○ dolomite	○ dolomite
○ sandstone	○ sandstone
● sandstone with shale and/or dolomite	● sandstone with shale and/or dolomite
	○ unknown

[§]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 water sample 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.

Analytical method used: Coulometric-amperometric titration with silver, using a Buchler Chloride Station.

Reference: Buchler-Cotlove Chloride Station Instruction Manual, 1990.

Reproducibility: ± 1 mg/L at ≤100 mg/L; detection limit, 1 mg/L (Cl⁻).

Samples were collected February 1992 through August 1993 by Brian Ristow under the supervision of Carl Duley (Buffalo County Extension Office), and were frozen prior to analysis. Chemical analyses were performed May 1992 through September 1993 by K.L. Lund (Wisconsin Geological and Natural History Survey).

Plate 2 Chloride in mg/L (Cl⁻)

Data capture by M. Bridson, M. Menne, N. Richardson
Digital cartography and editing by K.C. Roushar

Base map constructed from U.S. Geological Survey Digital Line Graph files (1990, scale 1:100,000), modified by Wisconsin Department of Natural Resources (1992) and Wisconsin Geological and Natural History Survey (2000).

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.

Issued in furtherance of Cooperative Extension work, Acts of May 8 and June 30, 1914, in cooperation with the U.S. Department of Agriculture, University of Wisconsin-Extension, Cooperative Extension. University of Wisconsin-Extension provides equal opportunities in employment and programming, including Title IX and ADA requirements. If you need this information in an alternative format, contact the Office of Equal Opportunity and Diversity Programs or the Wisconsin Geological and Natural History Survey (telephone 608/262.1705).

Extension

Wisconsin Geological and Natural History Survey
3817 Mineral Point Road • Madison, Wisconsin 53705-5100
☎ 608/263.7389 FAX 608/262.8086 <http://www.uwex.edu/wgnhs/>
James M. Robertson, Director and State Geologist