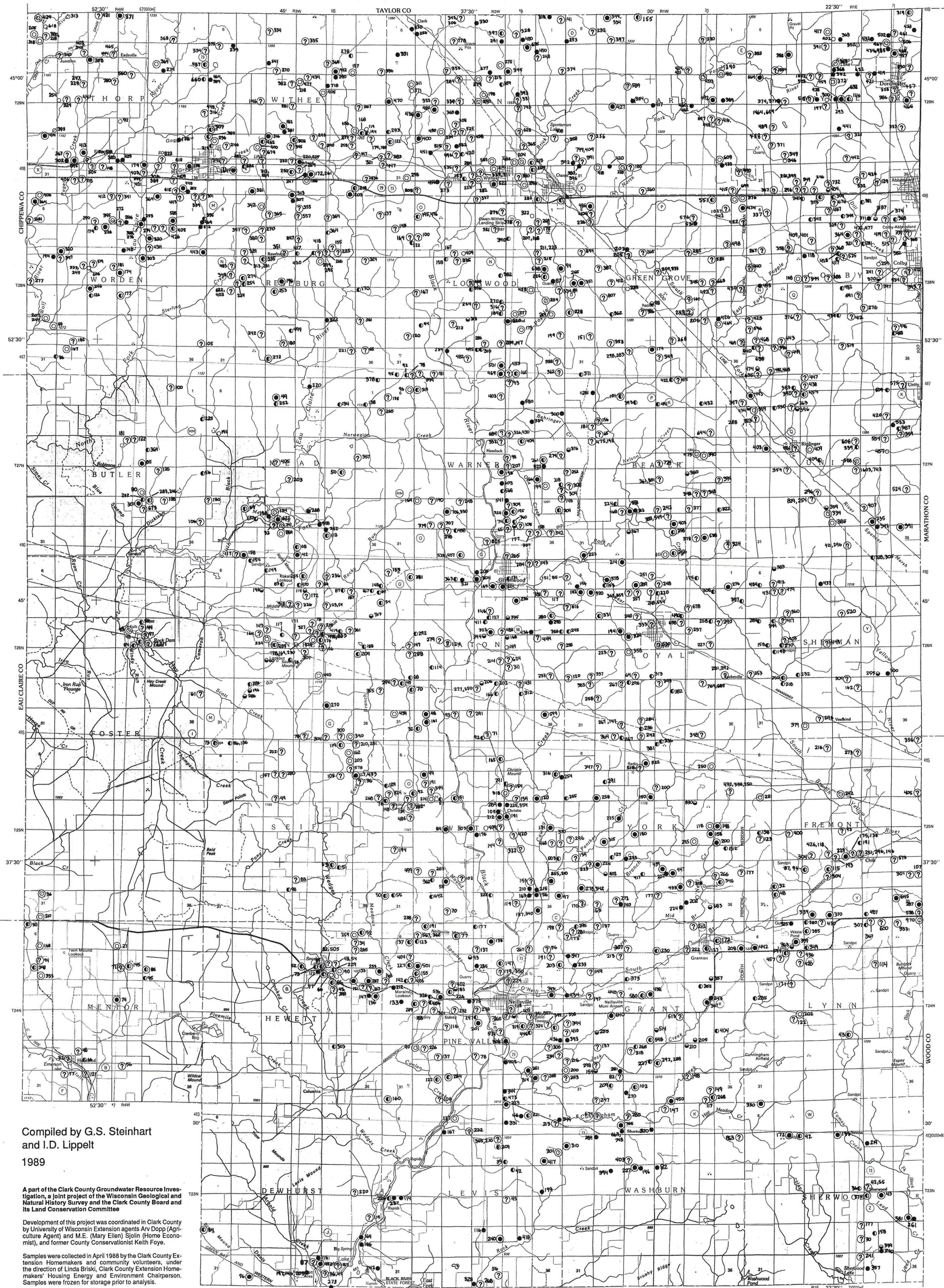


GROUNDWATER QUALITY INVESTIGATION OF CLARK COUNTY, WISCONSIN

Plate 6 Laboratory Measurement of Electrical Conductivity in $\mu\text{mhos/cm}$

Miscellaneous Map Series



Compiled by G.S. Steinhart
and I.D. Lippelt
1989

A part of the Clark County Groundwater Resource Investigation, a joint project of the Wisconsin Geological and Natural History Survey and the Clark County Board and its Land Conservation Committee

Development of this project was coordinated in Clark County by University of Wisconsin Extension agents Arv Dopp (Agriculture Agent) and M.E. (Mary Ellen) Spolin (Home Economist), and former County Conservationist Keith Foye.

Samples were collected in April 1988 by the Clark County Extension Homemakers and community volunteers, under the direction of Linda Briski, Clark County Extension Homemakers' Housing Energy and Environment Chairperson. Samples were frozen for storage prior to analysis.

Chemical analyses were performed during April, May, and June 1988 by the laboratory of the Environmental Task Force at the University of Wisconsin-Stevens Point, under the direction of Byron Shaw and Richard Stephens.

Chris Machenich of the Central Wisconsin Groundwater Center, UW Extension, at Stevens Point provided assistance with data analysis.

G.S. Steinhart examined available Department of Natural Resources Well Constructor's Reports and attempted to match constructor's reports to wells sampled whenever possible. The well information provided by the homeowner, the location of the well as reported by the well driller and the homeowner, land ownership information from various plat books, and locations of buildings as shown on United States Geological Survey 7.5 minute topographic maps were used during the matching process. None of the data were field checked.

Drafted by G.S. Steinhart, 1989

Wisconsin Geological and Natural History Survey Map 89-41

Explanation

- County-owned land
- Geologic materials contributing water to well
- sand and/or gravel; from Well Constructor's Report
 - sandstone, shale, rock, and/or limestone, and up to 5 feet of granite (contribution to yield believed to be minor); from Well Constructor's Report
 - sandstone and more than 5 feet of granite; from Well Constructor's Report
 - granite, and/or soapstone or soap rock; from Well Constructor's Report
 - unknown; homeowner information either blank or ambiguous; no known Well Constructor's Report

- sand and/or gravel; homeowner information; no known Well Constructor's Report
 - probably sandstone; homeowner indicated sandstone and/or limestone, and may have indicated sandstone and any one or more of sand, gravel, clay; no known Well Constructor's Report
 - granite, or granite and sandstone; homeowner indicated granite and may also have indicated up to two other types of geologic materials; no known Well Constructor's Report
- *Well Constructor's Report represents the most probable match to the sampled well; match has not been field checked.

Analytical method used: conductivity cell, water samples were heated to a temperature of $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$ prior to measurement
Reproducibility: $\pm 1 \mu\text{mhos/cm}$ at $1-1000 \mu\text{mhos/cm}$

312 value of sampled well

