



Republic of the Philippines  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
**OFFICE OF THE SECRETARY**  
Bonifacio Drive, Port Area, Manila

02 July 1990

DEPARTMENT ORDER)

No. 136 )  
Series of 1990 99 )

SUBJECT: **Procedure in the Determination  
of Water Well Location**

It has been observed that several newly constructed shallow and deep wells yield water of insufficient quantity or poor quality, or dry up during the summer season. These problems are, to a large extent, traceable to poor selection of well locations.

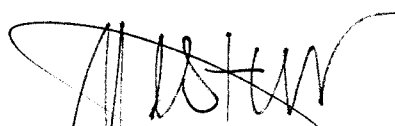
It is necessary that well sites be carefully selected prior to construction to ensure the desired quality and quantity of water.

For this purpose, for each specific proposed well project, the concerned District Offices shall undertake the following steps to determine the most appropriate well location:

1. Refer to the provincial hydrogeologic maps - e.g., WELL LOCATION, GROUNDWATER AVAILABILITY, WATER LEVEL CONTOUR, ISO-RESISTIVITY and GEOLOGIC MAPS, and THE RAPID ASSESSMENT OF WATER SUPPLY SOURCES REPORTS - prepared by the National Water Resources Board and previously provided to all District Engineering Offices to serve as preliminary information. Refer also to the WELL DATA REPORTS, derived from the WATER DATA BASE, which are prepared and periodically updated by the DPWH Project Management Office for Rural Water Supply (PMO-RWS) and are also being furnished the District Offices.
2. For these maps and data, prepare a simple PRELIMINARY WELL ZONING MAP at an appropriate scale for the community to be served by the project, indicating or projecting the likely areas and locations of the proposed point source or well, with varying degrees of confidence during wet and dry seasons.
3. Conduct a reconnaissance survey and interviews within the project area, and record pertinent technical and institutional information - e.g., type, number and condition of existing water facilities, general terrain of the service area, historical data of discharges of existing water sources, previous and present population served, water quality, operational problems to validate initial technical projects. Based on the results, prepare a REVISED WELL ZONING MAP accordingly.

4. Where necessary, i.e., if in doubt or if there are no data at all, request the PMO-RWS to provide and operate geo-electric/electromagnetic groundwater prospecting equipment, or drill an observation well, to generate the required information.
5. Prepare a formal PRELIMINARY WELL LOCATION REPORT, describing the process followed, the results of the survey and interviews, and the REVISED WELL ZONING MAP of likely locations with varying degrees of confidence.
6. Present the PRELIMINARY WELL LOCATION REPORT to the prospective beneficiaries/members of the existing or prospective Barangay Waterworks and Sanitation Association and discuss with them the water source determination procedure.
7. During the construction of the well a log of the drilled hole should be recorded in a LOG BOOK.
8. Submit to the PMO-RWS and the Regional Office a FINAL PROJECT COMPLETION REPORT, to include among others, the PRELIMINARY WELL LOCATION REPORT, the LOG BOOK and as-built drawings, photographs, and other pertinent documents to be part of historical record of the well, and for entry into the overall DPWH WATER DATA BASE.

For strict compliance.

  
FIORELLO R. ESTUAR  
Secretary