

# Wellogic Data

## What is Wellogic?

Since 2000, Michigan water well contractors have electronically filed water well, pump records, and abandoned well plugging records thanks to an innovative internet application administered by the Michigan Department of Environment, Great Lakes, and Energy (EGLE). Approximately 84 percent of the 12,000 to 14,000 records submitted annually are completed online using this state-of-the-art application called Wellogic. Water well records are also being entered into Wellogic by some local health departments and State of Michigan staff. There are several hundred thousand records in Wellogic, and all are viewable by the public and can be searched for by using 22 different search fields.

## How is the Wellogic data used?

Data gathered with Wellogic is currently being used in many other applications throughout Michigan. The data was an integral part of the Groundwater Inventory and Mapping Project (GWIM). The data is also used for Michigan Groundwater Management Tool (MGMT), formerly known as MIGWWP, Water Well Viewer (WWV), Drinking Water GIS (DWGIS), the Water Withdrawal Assessment Tool (WWAT), GeoWebFace, and WaterTrack. Having standardized data in Wellogic is an important part of developing programs to protect our water supplies from potential sources of contamination.

EGLE has used the Wellogic data for water withdrawal legislation, groundwater conflict resolution, statistical data, contamination investigations, well construction specifications, public water supply protection efforts, and well code compliance assessment. The data is also used by other state and federal agencies, local health departments, consultants, universities, realtors, well drilling supply houses, and other groups such as Michigan Rural Water Association and Michigan Ground Water Association.

## Benefits of Wellogic



Besides the obvious benefits of transfer and storage of electronic records and more accurate data available at the click of the mouse, Wellogic provides Michigan users:

- Contractor data entry – facilitating the best information and the best reporting
- Standardized geology picklists, which greatly facilitate future data mining efforts
- Mapping, which allows for the most accurate positioning of wells – by latitude and longitude – absolutely necessary for accurate data
- Mapping of geology and well construction attributes, so that all contractors have the best information to make accurate estimates of drilling projects
- Data to create water level maps bedrock, and drift area maps



**How can I download the Wellogic data?**

Wellogic data is extracted daily and posted for download to the public. There are two links to download the data on the Wellogic homepage:

1. Wellogic Data by Region. This link [Water Wells by Region](#) takes the user to the State of Michigan GIS Open Data Portal. This link contains locational data and select well construction data by region. Further, there is a quality control check on location that may exclude a limited number of wells from Wellogic. Note: This data download does **not** contain the associated lithology files.
2. Wellogic Data by County with Lithology. This link [Water Wells by County](#) contains lithological data, locational data, and select well construction data.

**Who can I contact with questions?**

Any questions regarding Wellogic, its data, or water well records in general, should be directed to the Wellogic Helpdesk at [Wellogic@Michigan.gov](mailto:Wellogic@Michigan.gov).

Screen shot from Drinking Water GIS showing water well lithology cross section using Wellogic data

The screenshot displays the 'Drinking Water GIS' interface from the Department of Environmental Quality. A central window titled 'Well Lithology Profile' shows detailed information for Well ID 23000002243, including its location (Eaton, Eaton Rapids) and a vertical cross-section of its lithology layers. To the right, an 'Identify Results' window lists the well's metadata. The background shows a map with the well location marked near the Harris Drain and V= W Hwy.

Depth (ft)	Lithology
0	Well (D)
3	Gravel & Clay (D)
6	Sand & Gravel (D)
14	Gravel & Clay (D)
22	Sand & Gravel (D)
38	Gravel (D)
56	Screen From
56	Screen To

Field Name	Value
Well ID	23000002243
County	Eaton
Township	Eaton Rapids
Town	02N
Range	03W
Section	36
Owner Name	
Well Status	
Aquifer Type	DRIFT
Well Depth	56
Case Depth	42
Screen From	42
Screen To	50
Static Water Level	7
Elevation (DEM)	899
Elevation (Well Log)	900

SEQ. NUM	PRIM. LITH.	LITH. MOD.	DEPTH	THICKNESS	AGTYPE	CLASS	EFFECT	MACTYPE	COLOR
1	Mar.	Well Mud	3	3	D	NA	0	NA	

[EGLE Website](https://www.EGLE.State.MI.US/Wellogic/Login.aspx): (https://www.EGLE.State.MI.US/Wellogic/Login.aspx)

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