

New Mexico Produced Water Data Portal

What is the New Mexico Produced Water Data Portal?

- The New Mexico Produced Water Data Portal is a free and publicly accessible data base of all currently available produced water quality and quantity data in New Mexico. Data sources are the Oil Conservation Division, the USGS, the Petroleum Recovery Research Center at New Mexico Tech, and other verified data sets collected and compiled by universities, and midstream and production companies



Why Was the Data Portal Developed?

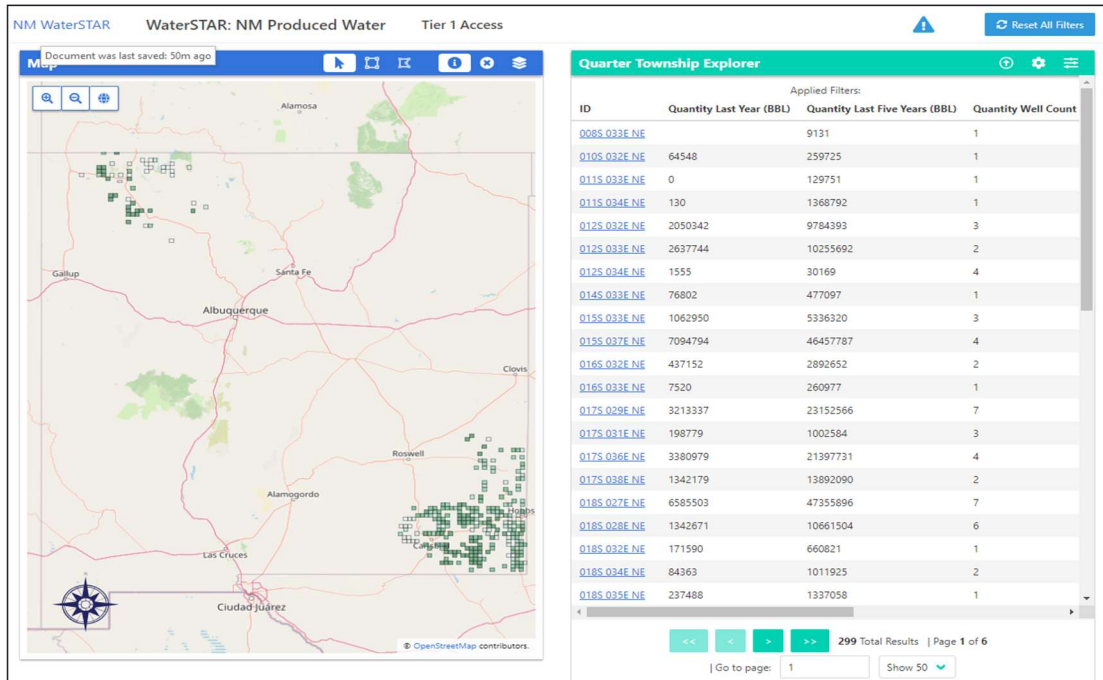
- The public and produced water data users requested that the Consortium create a more user-friendly approach for data queries that would be more convenient to use by the public, engineers, analysts and planners, and produced water users. Data queries historically required querying several different data bases of produced water quantity and quality information in New Mexico.
- As the lead for the EPA on developing frameworks for the fit-for-purpose reuse of produced water outside the oil and gas sector, the Consortium decided that creating a produced water data portal framework would support all states in establishing a national standard for the display, access, management and use of produced water data.

Produced Water Data Portal Highlights

- The Data Portal development was a joint effort between Consortium members, including NM Tech, NMSU, and the Ground Water Protection Council (GWPC). The GWPC's WATER STAR water data format was used as the framework for the portal.
- The portal includes a graphical user interface to enable the user to more easily visualize and find produced water production, use, and disposal information by location within a geographic map of New Mexico.
- Dashboards and navigation icons help the user sort for specific data by quarter township, quantity by month and year, and quality by constituent, etc. that can then be downloaded.

Using the Produced Water Data Portal

- The Produced Water Data Portal can be accessed at <http://nm.waterstar.org>
- Frequently asked questions (FAQs) and a User Guide are available on the site to assist users in learning how to navigate through the portal and select and highlight different produced water information.
- The portal is compatible with a Chrome web browser and is extremely fast.
- The navigation icons provide access to drop down information selection menus to personalize user information goals quickly and display on summary dashboards.



Portal Capabilities and Future Upgrades

- The data portal is designed to support four levels of data availability
 - Tier 1 - General publicly available data and information
 - Tier 2 – General summary data graphs/tables of public data for download- including regional/local produced water generation, disposal, reuse, quality, etc. trends
 - Tier 3 – Advanced Applications available for data mining, projections, etc.
 - Tier 4 – Regulatory Access with need to know (NTK) business confidential information - such as proprietary fracking chemicals, etc.
- Tier 1 capabilities are currently available, with Tier 2-4 capabilities to be added in 2022 and 2023 as funding becomes available.

References and More Information

- New Mexico Produced Water Research Consortium website: <https://nmpwrc.nmsu.edu/>

Questions

- Contact the Consortium at: nmpwrc@nmsu.edu