

THE UIC PROGRAM

Protecting California's Water Supplies

UNDERGROUND INJECTION CONTROL PROGRAM

REGULATORY OVERSIGHT & COORDINATION

U.S. EPADOGGRSWRCB

PRIORITIZING WELLS FOR

REVIEW

he United States Environmental Protection Agency (U.S. EPA) is charged with oversight of the Underground Injection Control (UIC) program. In California, the Department of Conservation's Division of Oil, Gas and Geothermal Resources (DOGGR) implements the UIC program and regulates injection wells.

Injection wells have been used for decades in California to assist in oil production – to increase oil recovery and safely dispose of water produced with oil and gas.

The U.S. EPA periodically reviews the state's UIC program under the Safe Drinking Water Act. As a result of an audit and in light of the drought, DOGGR and the State Water Resources Control Board (SWRCB) are conducting a comprehensive review of permitted injection wells in exempt aquifers that may have a potential for future use by a public water system based on salinity, and aquifers for which the state may not have received a written acknowledgement of exemption from the U.S. EPA. A rigorous corrective action plan with measureable milestones has been approved by the U.S. EPA and is currently being implemented by DOGGR.

NOT ALL AQUIFERS ARE CREATED EQUAL

EXEMPT

NON-EXEMP

Lower salt concentrations

High in salt and naturally-occurring elements

- Not a source of public water supplies
- Often in hydrocarbon zones, where oil formations are found
- Wells authorized to inject produced water

Low in salt and naturally occurring elements

- Potential for future use by a public water system
- Wells prohibited from injecting produced water

Through this review process, DOGGR and the SWRCB will submit applications to the U.S. EPA requesting it classify certain aquifers as exempt and authorized for disposal of produced water.



- concentrations
- Naturally mixed with oil
- Aquifers historically treated as exempt



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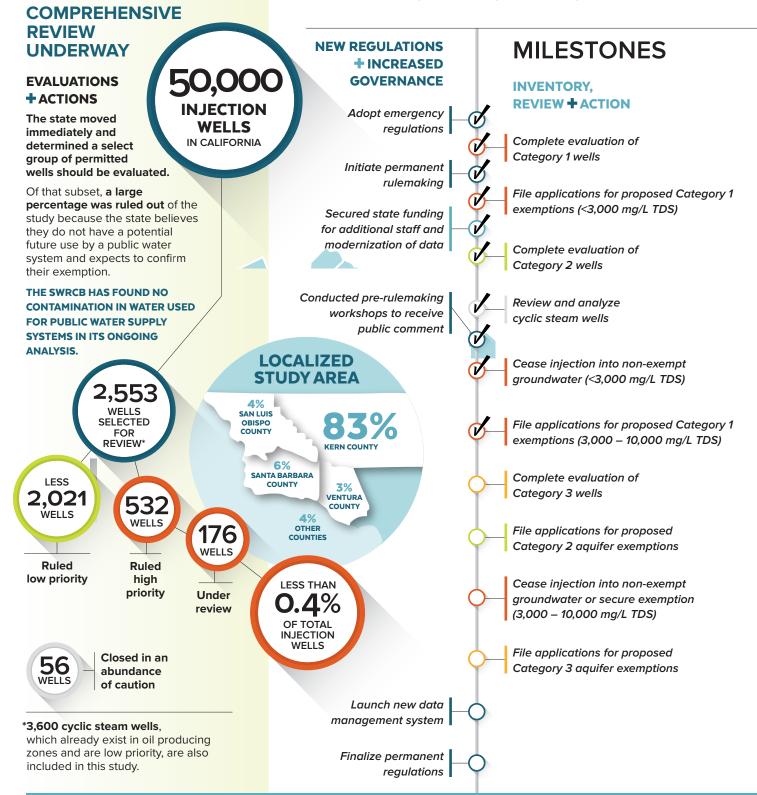
oil formations

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ADDITIONAL GOVERNANCE FOR UIC PROGRAM

- More detailed regulations being adopted in light of drought
- Comprehensive inventory and database of all wells
- Additional staffing and more rigorous training



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