Oregon Domestic Well Safety Program

OELA 2022 Annual Conference October 18, 2022

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Domestic Well Safety Program

- Domestic Well Testing Act
- Wildfire-impacted Domestic Well Testing Project
- Lower Umatilla Basin Groundwater Management Area (LUBGWMA)
- Real Estate Transaction Data and Legislative Concept





Domestic Wells

Nearly 23% of Oregonians rely on domestic wells, or private wells, as their primary source of potable water.

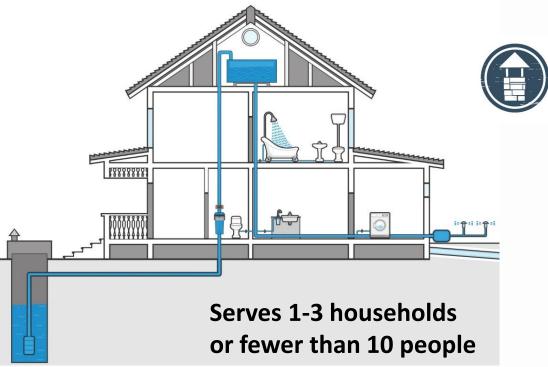




image source: Allstate http://blog.allstate.com/well-water-buying-a-home/



State Programs Providing Drinking Water Services

Water Resources Department (OWRD)

- Water rights
- Search well logs
- Well ID/tag
- Certify well construction professionals
- List of well
 construction
 professionals
- Well Abandonment, Repair and Replacement Fund (WAARF)

Salem, OR www.oregon.gov/owrd OHA Domestic Well Safety Program (DWSP)

- Provides information on health effects of drinking contaminated water
- Information on well treatment and maintenance
- Special testing and treatment projects

OHA Drinking Water Services (DWS)

- Enforces drinking water quality standards for public & community water systems
- Provides technical assistance to water systems
- Water system operator trainings

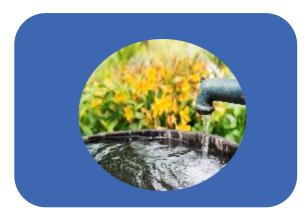
Dept of Environmental Quality (DEQ)

- Groundwater
 Protection Act
- Groundwater
 Management Areas
- Sample domestic well networks to monitor groundwater quality
- Well testing data from labs

Salem, OR www.oregon.gov/deq

Portland, OR www.healthoregon.org/wells Portland, OR www.healthoregon.org/dws

OHA Domestic Well Safety Program



Our Mission Promote domestic well safety in Oregon.





Our Message Protect health through regular testing and maintenance of domestic wells.

Our Role Provide education and support the Domestic Well Testing Act



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Domestic Well Testing Act (ORS 448.271)

<u>What is it?</u>

In any transaction for the sale or exchange of real estate that includes a well that supplies ground water for domestic purposes, the seller of the real estate shall, upon accepting an offer to purchase that real estate, have the well tested for arsenic, nitrate and total coliform bacteria.

Currently the only law in place for domestic well water quality in Oregon.



Domestic Well Testing Act

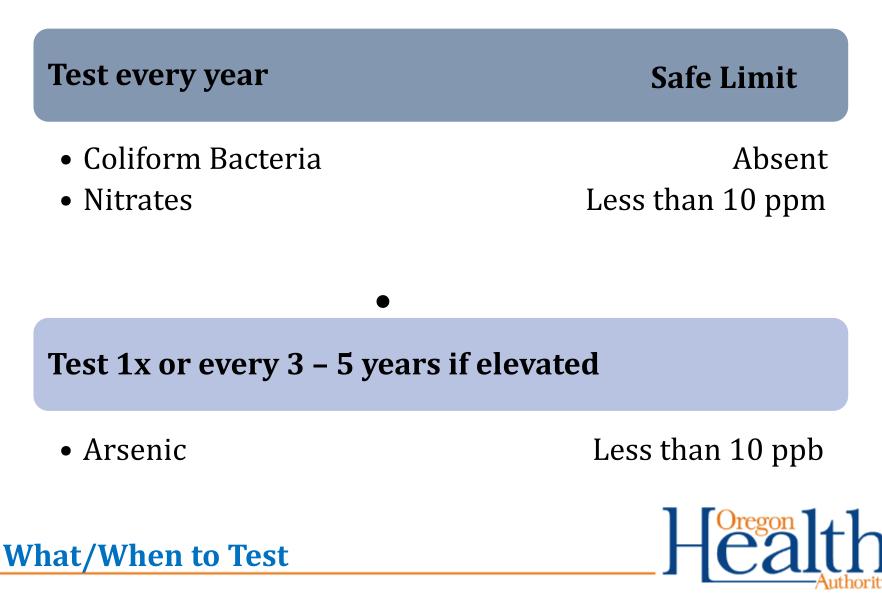


Purpose

- Buyers are informed of water quality
- DWSP notifies well users of any exceedances
- Informs public health action



Domestic Well Testing



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2020 Oregon Wildfires



September 2020

Oregon Wildfires

- Widespread evacuations, fire-related fatalities, and exposure to harmful levels of smoke
- Destroyed over 4,000 homes and damaged nearly 1,000.
- Declared a federal disaster for Oregon



2020 Oregon Wildfires

October 2020: Oregon Legislature Funds

- \$600,000 to OHA for domestic well water testing
- Estimated 2,000 households impacted by wildfires

February 2020 – June 2023: Wildfire-impacted Domestic Wells Testing Project

Eligibility criteria:

- The property was impacted by the 2020 Oregon wildfires
- The well water is used for drinking, bathing cooking and washing dishes
- The well is not part of a regulated water system



Wildfire-impacted Domestic Wells Testing Project



Testing

- Coliform and E. coli bacteria
- Nitrate
- Arsenic
- Lead
- Volatile organic compounds (VOC): benzene, toluene, ethylbenzene, and xylenes (BTEX)

Follow-up communication

 Notification of exceedances, information about the contaminants and health risks



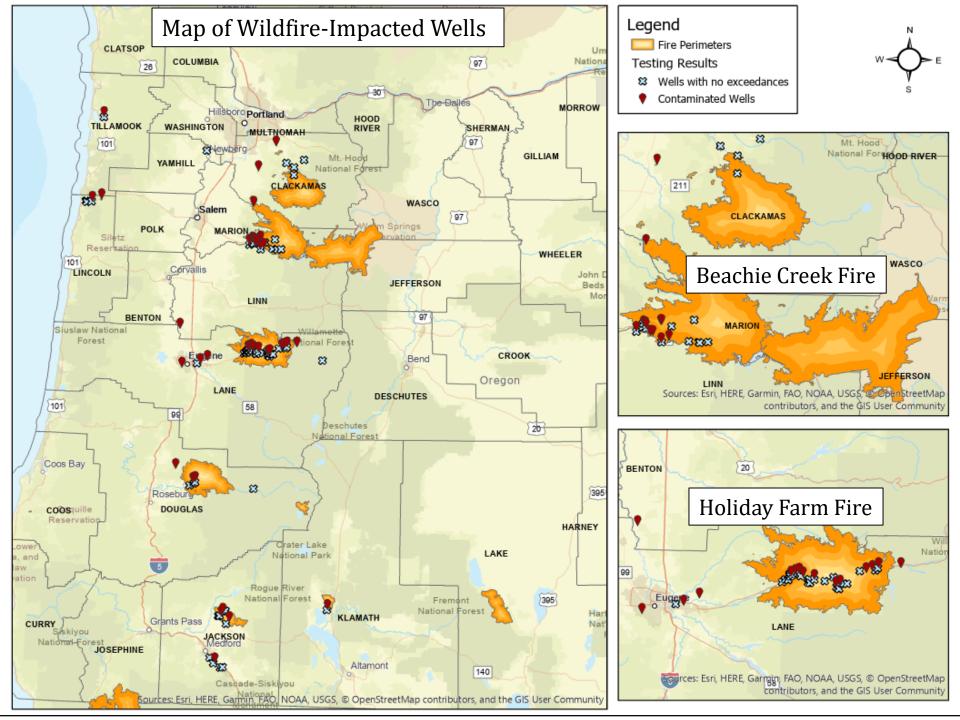
Domestic Wells Testing Results

County	Number of Wells Tested	Number of Contaminated Wells	Number of contaminants	Contaminants of Concern				
				Total Coliform	E. coli	Arsenic	Lead	BTEX
Lane	46	17	21	15	3	3	0	0
Marion	3	1	1	0	0	1	0	0
Jackson	14	4	4	2	0	2	0	0
Clackamas	6	2	2	0	0	1	1	0
Douglas	8	2	3	2	1	0	0	0
Lincoln	7	2	2	2	0	0	0	0
Linn	24	13	16	7	0	9	0	0
Klamath	2	1	1	0	0	0	1	0
Tillamook	2	1	1	1	0	0	0	0
Yamhill	1	0	0	0	0	0	0	0
Total	113	43	51	29	4	16	2	0

- OHA enrolled 234 well users, received 113 lab results
- 43 (38%) of wells tested had one or more contaminants

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Total coliform was the most frequent contaminant



Lessons Learned



- Wildfire recovery time
- Infrastructure recovery cost
 - Testing hesitancy
 - Water Well Abandonment, Repair, and Replacement Fund: Oregon Water Resources Department (OWRD)
- No BTEX exceedances
- Integrating recovery and resilience activities for all-hazards preparedness and protections



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Lower Umatilla Basin Groundwater Management Area (LUBGWMA)

- Est. 12,000 household members served by domestic well water
- Array of potential health effects from high nitrates
- Diverse, lower income population
- OHA response is workplan to test and treat w/local partners, Emergency Board request





Lower Umatilla Basin Groundwater Management Area (LUBGWMA)

- OHA is partnering with local accredited laboratories to complete well testing in the LUBGWMA
 - Applications for free well testing vouchers opening soon
 - Testing package: nitrate, arsenic, lead, bacteria, iron, manganese, hardness





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Real Estate Transaction Data Legislative concept

- OHA currently has a backlog of RET data since the program lost funding
- Next opportunity Legislative Session 2023







Thank you!



Questions?



Visit us at: <u>healthoregon.org/wells</u> Domestic Well Safety Program 971-258-5728

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