OELA/ORELAP

Annual Environmental Laboratory Workshop

05.21.2015





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PRESENTATION...

\Rightarrow	Private Wells 101



- **Program Introduction**
- Who, what, why of R.E.T ??





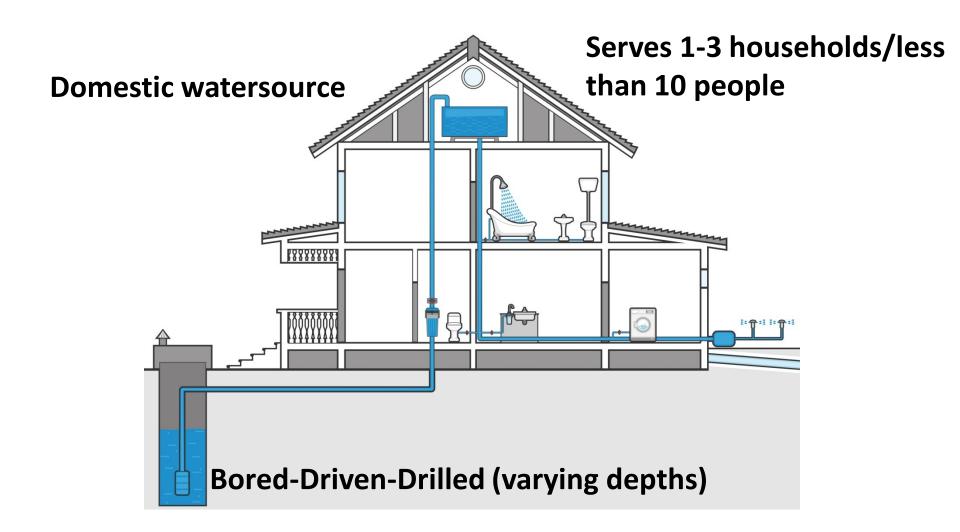
Program Limitation and a Quick discussion

Questions??



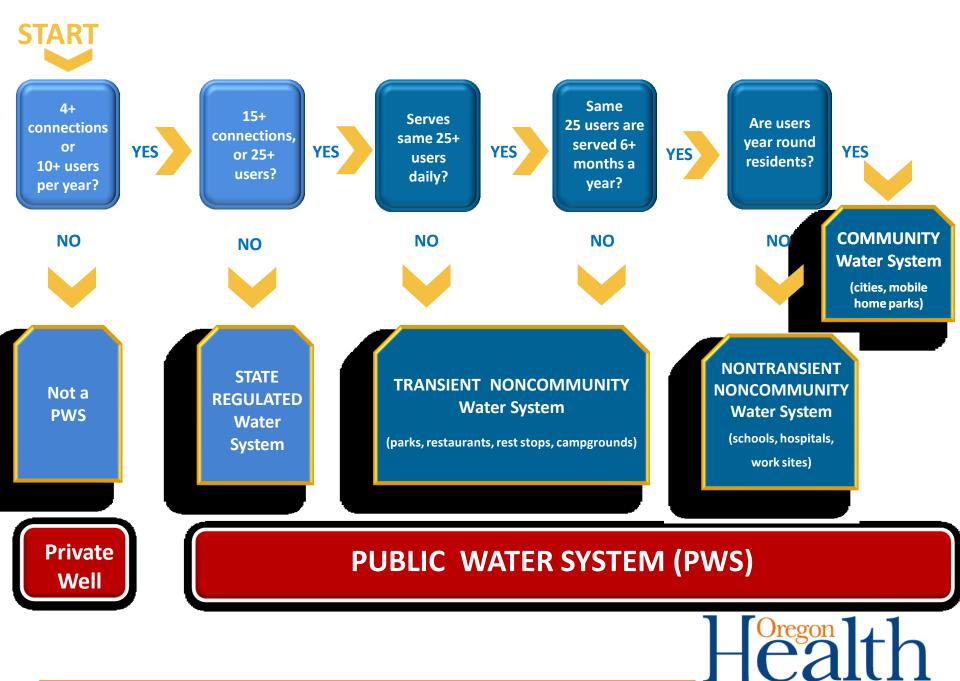
DOMESTIC WELLS 101











Private Wells are NOT regulated by the Federal Safe Drinking Water Act



Responsibility



PROGRAM OVERVIEW





90% rural OR depends on groundwater



23% of Oregonians are well dependent



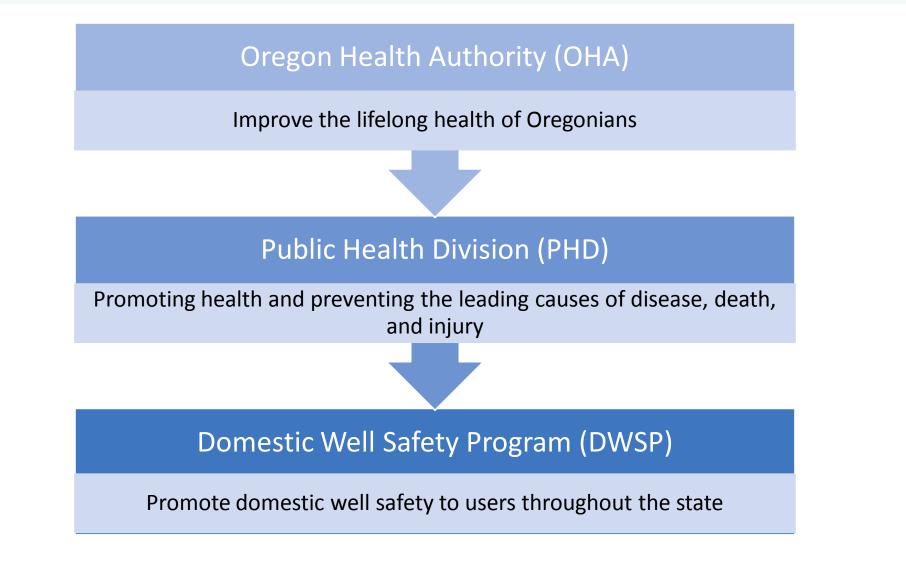
350,000 Active wells



3,800 New wells drilled every year

BACKGROUND









DAT

 High Quality environmental hazard data will become available for all areas of the state where domestic wells are located, revealing areas of higher risk from contaminants.

OUTCOMES



PARTNERSHIPS

 Partners throughout Oregon become engaged in efforts to promote domestic well safety.

PREVENTION

 Domestic well users throughout Oregon understand the importance of well testing and ways to mitigate risks.



ESTIC 4 **RET RULE** Y PRO

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. The Oregon Health Authority also may, by rule, require additional tests for specific contaminants in specific areas of public health concern. The seller shall submit the results of the tests required under this section to the authority and to the buyer within 90 days of receiving the results of the tests.



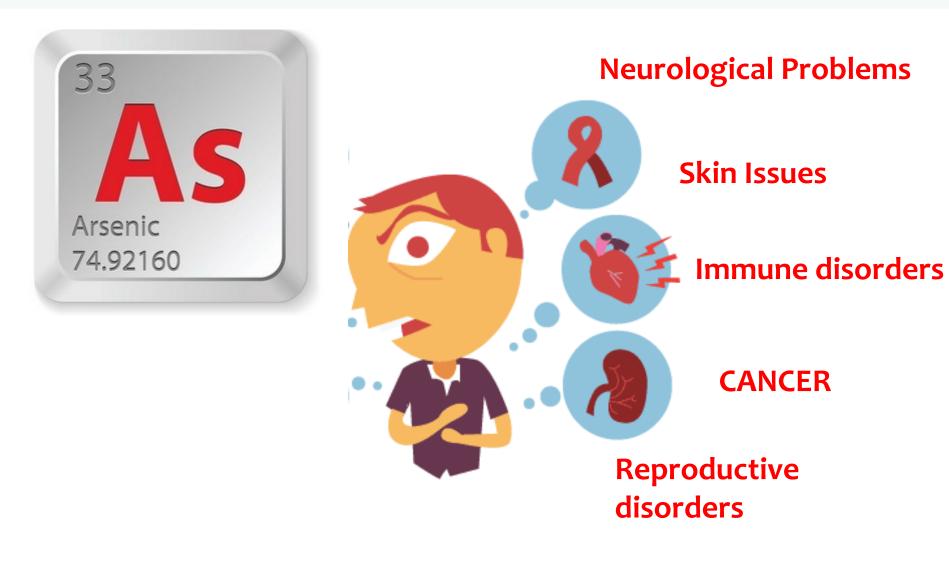




Only laboratories accredited according to Oregon Environmental Laboratory Accreditation Program (ORELAP) standards, as prescribed by OAR 333-064-0005 through 0065, shall be used to conduct the water tests required by these rules.

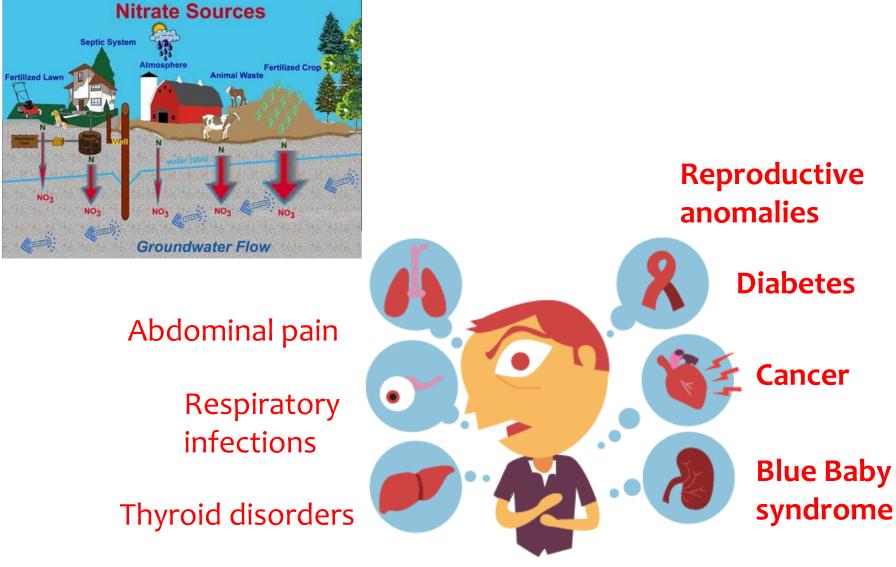






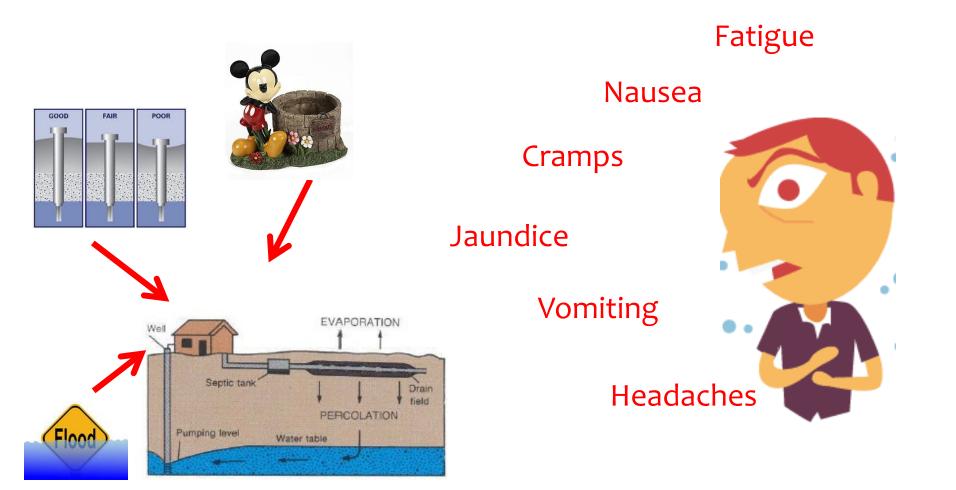
Public Health-Arsenic





Public Health- Nitrate





Public Health- Bacteria





Real Estate Transaction Data

All Tests:

2442

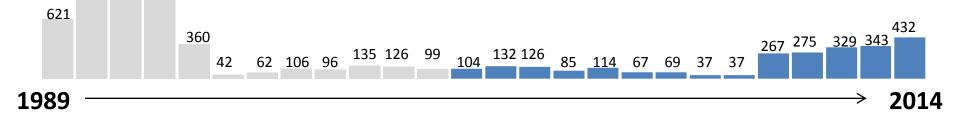
1982

1520

- Years: 1989-2015
- Total number: 10,015
- Range: Non-detect 850 ppb
- Tests by category:
 - Non-detect: 89.1%
 - Low (1-9 ppb): 7.4%
 - High (10+ ppb): 3.4%

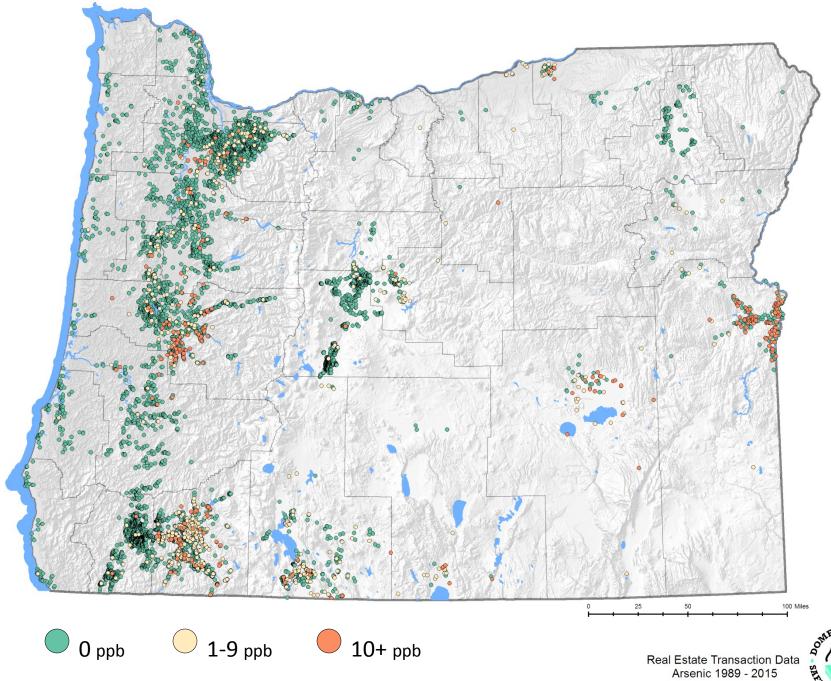
Recent Tests:

- Years: 2001-2015
- Total number: 2503
- Range: Non-detect 490 ppb
- Tests by category:
 - Non-detect: 63.3%
 - Low (1-9 ppb): 26.8%
 - High (10+ ppb): 9.9%











All Tests:

2444

1982

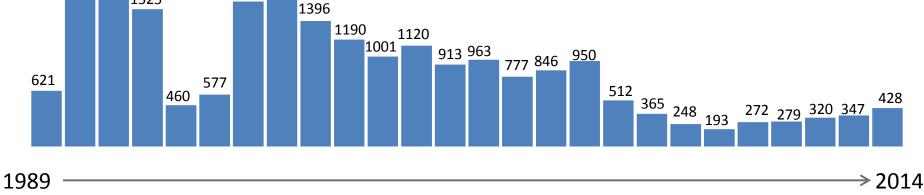
1525

- Years: 1989-2015
- Total number: 24,201
- Range: Non-detect 100 ppm

1611

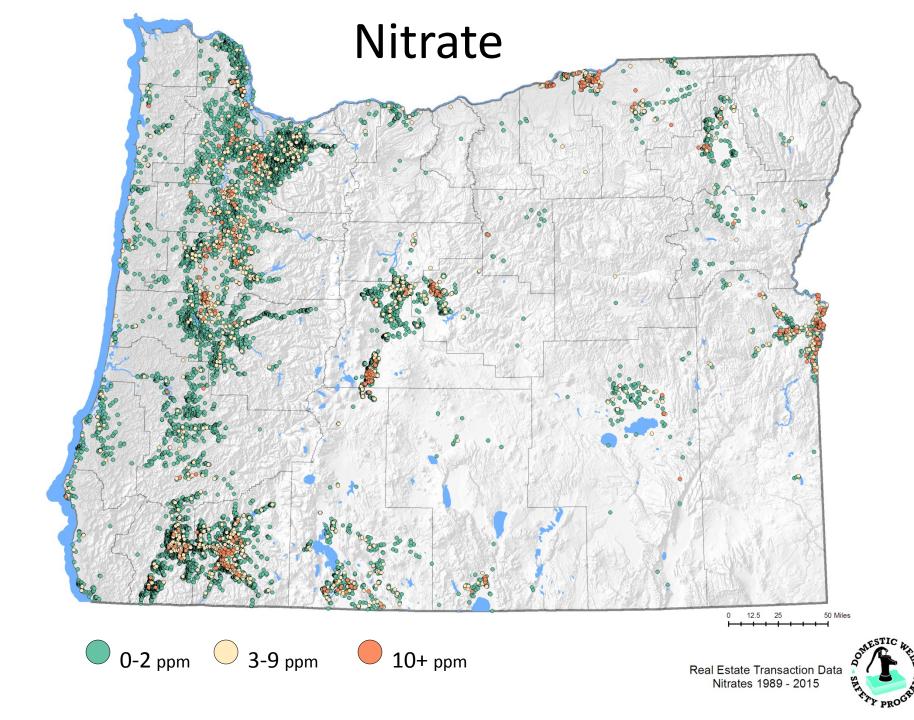
2854

Tests by category: Background (0-2 ppm): • 21,375 Tests Elevated (3-9 ppm): • 2439 Tests High (10+ ppm): • 387 Tests



Nitrate Tests- by year





All Tests:

- Years: 1989-2015
- Total number: 27,242

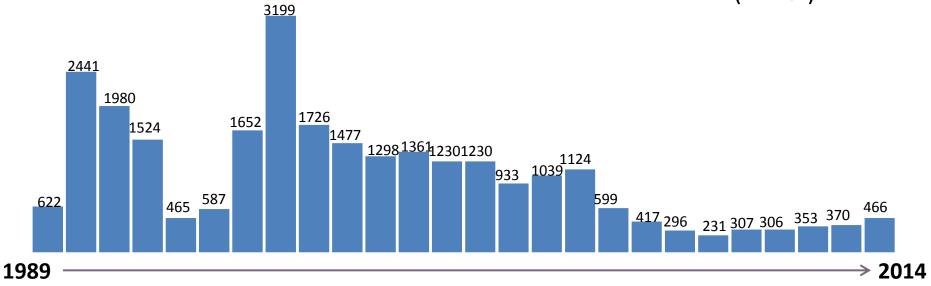
Tests by category:

Absent:

• 24,384 Tests (89.5%)

Present:

• 2857 Tests (10.5%)



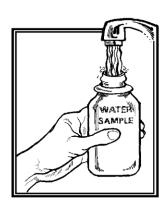
Bacteria Tests- by year





Some Limitations

Y PRO



Only persons who have knowledge of the appropriate procedures <u>shall</u> collect the samples...Specific instructions for the collection, preservation, handling and transport of the samples may be obtained from certified laboratories, county health departments or the Authority and must be strictly adhered to.

The samples must be drawn **from the source** prior to any form of water treatment. Samples may be collected after treatment injection points where water treatment has been bypassed or temporarily disabled.

In the event that the well has been **shock chlorinated**, no followup samples shall be taken until **five days have elapsed**.

SAMPLING. Rule- 333-061-0335



COLLECTING A WATER SAMPLE A how to guide.



Collect the water sample from the well head. If you cannot access the well head, take the sample from a non-swivel faucet (if possible) commonly used for drinking water. Samples may be collected from a swivel faucet or outside faucet but may be contaminated and not reflect the actual water quality. If the well has been disinfected (e.g., chlorinated), the water must be used for 5-7 days' before the water can be sampled.



1. Use the water collection kit supplied by the lab. Most will provide detailed instructions and sample bottles for various tests. Not all tests use the same type of bottle, amount of water or preservative. If no information is provided, follow these guidelines. Remove screens, aerators or other attachments and clean the tap with alcohol or a sanitizing wipe prior to sampling.

Complete the lab form. Type or print legibly. Include all information asked for on the form.

Drinking Water Results

Test results will usually be ready one to three business days after the lab receives the samples. Some tests (e.g., arsenic) may take up to 10 business days or longer dependent on analysis type.



Copies of the lab reports are sent to the persons/ company listed on the lab paperwork and kept by the lab. For a real estate transaction, see step 6.



2. After sanitizing, run the water for three to five minutes before sampling. While the water is running, complete any necessary paperwork and carefully open the sample bottle. Do not touch the lip or inside of bottle. Do not rinse the bottle out or discard any powder that may be inside.



Mail or deliver samples to the lab as soon as possible. The lab must receive the

samples within 24 hours of collection. If mailing, put the samples in a small cooler with ice. If delivering, store the samples in the refrigerator and place on ice during delivery. This is especially important for bacteria and nitrate samples.

Your test may not be valid if:

- The water sample is too old.
- Information provided on the lab form is incomplete.
- Sample container wasn't labeled.
- Not enough water was taken (step3).
- Sample wasn't kept at proper temperature.



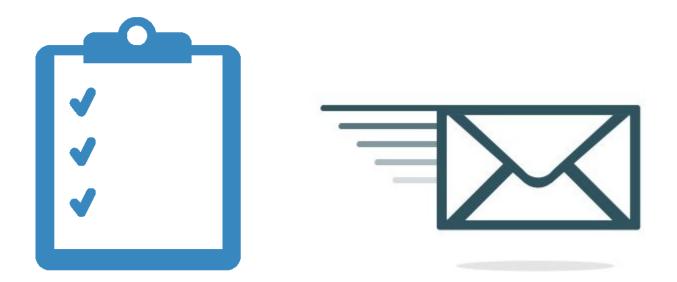
3. For coliform collection, adjust the water to get a slow and steady flow and fill past the 100 ml fill line. Do not fill past the 120 ml line. If there are no fill lines, and for all other test collections, leave one inch of space between the water level and the lid. Secure lid and label the bottle. If no label or codes are already on the sample bottles, please label yourself (where sample was collected, well ID, and date and time of collection).

If you are testing for a realestate transaction (RET), a non-biased third party should collect the samples. Please see OAR 333-061-0335 for more information. You must send a copy of the lab results and the RET form to the Oregon Health Authority's Drinking Water Program. Test results should also be sent to the prospective buyer within 90 days.



For more domestic well safety tips and information, visit www.healthoregon.org/wells For more information on Drinking Water Services, visit www.healthoregon.org/dwp Five days are required for real estate transactions; seven are recommended for more accurate test results.

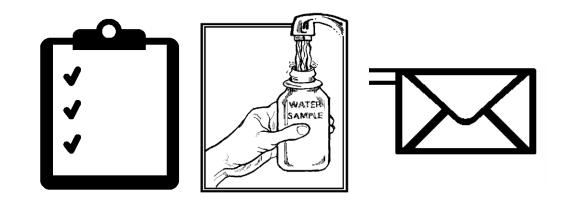
OHA 8312 (11/14)



Submission



We want to hear from you!







Thank you! Questions??

Visit us at: <u>healthoregon.org/wells</u>

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