ORELAP Annual Environmental Laboratory Conference

ORELAP UPDATE

Alia D. Servin, Ph.D.
ORELAP Program Manager
May 9, 2019
General Overview of the Laboratory Compliance Section ORELAP

ORELAP accredits over 150 Environmental Laboratories:

• 66 in-state laboratories
  22 Drinking water laboratories that accept public samples
  11 Drinking water laboratories that do not accept public samples
  22 Cannabis laboratories
  11 Environmental laboratories

• 63 out of state laboratories
  37 Drinking water laboratories that accept public samples
  5 Drinking water laboratories that do not accept public samples
  21 Environmental laboratories

• 23 secondary out of state laboratories
Mandated Laboratories to be ORELAP accredited

ORELAP accredits qualified laboratories for testing under the Clean Air Act (CAA), Clean Water Act (CWA), Resource Conservation, Recovery Act (RCRA) and the Safe Drinking Water Act (SDWA).

ORELAP accredits Cannabis testing laboratories under ORS 475B.550 to 475B.590.

Drinking water and cannabis testing laboratories are mandated to be ORELAP accredited.

ORELAP goal is to have all assessors to be certified for microbiology and chemistry (organic/inorganic) as EPA DW CO.
Personnel Consist of the following:

Executive Team:
- Dr. John Fontana, OSPHL Lab Director
- Brian Boiling, DEQ Administrator
- Kathleen Wickman, Dept. of Agriculture

The Executive team has overall responsibility for managing ORELAP and has final authority over the program.
ORELAP Organizational Chart

Stephanie Ringsage, B.S. MT (ASCP)
Section Manager – Clinical and Environmental

Stephanie Ringsage
Laboratory compliance Manager

ORELAP Executive Team
John Fontana
Brian Boiling
Kathleen Wickman

Laboratory Compliance Program
Stephanie Ringsage
Section Manager

ORELAP Program Manager
Allie D. Servin

ORELAP Assessors
Lisbeth Garcia
Ryan Pangelinan
Steve Jetter
Sophia Caggiano-DEQ

ORELAP QA Officer
Scott Hoatson
Sara Krepp*

ORELAP Technical Advisory Committee (OTAC)

Third Party Assessors (e.g. Radiochemistry)

Organic Technical Assessors
WET Chemical Technical Assessors
Microbiological Technical Assessors
Inorganic/Metals/Abatement Technical Assessors
Alia D Servin, Ph.D.
ORELAP Program Manager
Ph.D. in Analytical Chemistry at University of Texas at El Paso
Former Post-doctoral Research Scientist at the Connecticut Agricultural Experiment Station
Joined ORELAP on March 2017

• Training:
  TNI training
  • Basic Assessor Training- TNI Standard 2009
  • Radiochemistry*
  • WETT*
  * In training

EPA Certification for Drinking Water
  • Organic Chemistry
  • Inorganic Chemistry
  • Cryptosporidium
ORELAP Assessors

Lizbeth Garcia, MS
ORELAP Lead Assessor
Master of Science in Analytical Chemistry at New Mexico State University
Former DEQ chemist
Joined ORELAP on October 2015

• Training:
  TNI training
  • Basic Assessor Training- TNI Standard 2009
  • Radiochemistry*
  • WETT*
  * In training

EPA Certification for Drinking Water
• Organic Chemistry
• Inorganic Chemistry
• Microbiology
• Cryptosporidium

ORELAP Executive Team
  John Fontana
  Brian Boiling
  Kathleen Wickman

Laboratory Compliance Program
  Stephanie Ringlage
  Section Manager

ORELAP Program Manager
  Alla D. Servin

ORELAP Assessors
  Lizbeth Garcia
  Ryan Pangilinan
  Steve Lucker
  Sophia Caggiano- DEQ

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Third Party Assessors
  (e.g. Radiochemistry)

Organic Technical Assessors
WET Chemical Technical Assessors
Microbiological Technical Assessors
Inorganic/Metals/Asbestos Technical Assessors
ORELAP Assessors

Ryan Pangelinan, BS
ORELAP Assessor
Bachelors of Science in Biology/Chemistry at the Eastern Oregon University
Former DEQ chemist
Joined ORELAP on March 2017

• Training:
  TNI training
  • Basic Assessor Training- TNI Standard 2009
  • Radiochemistry*
  • WETT*
  * In training

EPA Certification for Drinking Water
  • Organic Chemistry
  • Inorganic Chemistry
ORELAP Assessors

Steve Jetter, BA
ORELAP Assessor
Bachelors of Arts in Biology at Lewis & Clark College
Former DEQ chemist
Joined ORELAP on October 2018

• Training:
  TNI training
  • Basic Assessor Training- TNI Standard 2009
  • WETT*
  * In training

EPA Certification for Drinking Water
• Organic Chemistry* (July 2019)
DEQ staff:
Scott Hoatson, DEQ QA Officer/ORELAP QA Officer
Sara Krepps, DEQ QA Officer/ORELAP QA Officer
Sophia Caggiano, DEQ/ORELAP assessor

• The ORELAP Quality Assurance Officer (QAO) is responsible for monitoring ORELAP operations to help ensure that the program is adhering to its adopted policies and procedures.
• Scott has been a resource of support to the ORELAP program, he will retire at the end of May 2019
• Sara Krepps will continue to provide technical guidance to ORELAP
• Sophia had earned her TNI basic training certification March 2017

Training:
TNI
• Basic Assessor Training- TNI Standard 2009
EPA Certification for Drinking Water
• Organic Chemistry
• Inorganic Chemistry
Average number of days from assessment to initial ORELAP report

Review 2018:

• Jan to Dec 2018: ORELAP assessors conducted 53 on-site assessments.

• Average number of days from assessment to initial ORELAP report 29 days.

ORELAP Update

- Secretary of State audit, update of ORELAP responses (June 2019).
  - PT samples in cannabis matrix now available for solvents, microbiology analytes and metals.
- ORELAP can accredit Drinking Water labs for cyanotoxin methods.
  - OAR 333-061-0550
ORELAP Goals

• To provide all resources and training opportunities to ensure each assessor is cross trained in all fields of accreditation.

• To be proactive rather than reactive to the constant challenges of regulating laboratories. We strive to assure the quality testing in environmental laboratories keep Oregonians healthy.

• Our program has an impact on not just the laboratories seeking ORELAP accreditation, but has a direct impact on other agencies that are within and outside the Public Health Division (PHD) centers.
Goals to develop program relationships

• Working closely with OMMP, OLCC and ODA regarding cannabis issues.

• Working with Drinking Water program and assuring ORELAP accredited labs are submitting accurate, timely complete results for drinking water facilities.

• Seeking expertise and guidance from DEQ/ORELAP QA officer and from the Executive Team representing OHA, DEQ and ODA.
ORELAP Accreditation Cycle

1. Application and Review
2. Pass PT Samples
3. On-Site Assessment
4. Application/Assessment Fees
5. Corrective Action
6. Grant Accreditation
During the OTAC meeting in April 2019 several questions were brought to ORELAP regarding PTs.

**PTs – how are they being handled?**

- PT: email address?
- How is data being uploaded into ODIE?
- When is PT data reviewed?
- Do you notify related agencies if certification is revoked or suspended? (i.e. OHA, DEQ?)
Finding: ORELAP is not following the Standard in regards to considering a nonspecific PT match to be considered a failure.

Citation: V2M2, 7.3 (c)-

Recommended Corrective Action: If the laboratory reports an incorrect method, this PT results should be evaluated as not acceptable since it does not match the field of accreditation for which the laboratory is accredited or seeking to become accredited.

ORELAP Response: ORELAP has changed its PT evaluation program to evaluate a PT with method errors in the field of accreditation as unacceptable.
Proficiency Testing Reports that result in a non-specific match

Citation: V2M2, 7.3 (c)-

“The Primary AB shall consider the analytical result for a FoPT not acceptable when:

c) the laboratory makes any reporting error or omission that results in a non-specific match between the analytical result for the FoPT and any criterion that identifies the laboratory or the field of accreditation for which the PT sample was analyzed for the purpose of initial or continued accreditation;”
ORELAP Proficiency Testing Reports

1. PT reports are to be sent via email to ORELAP PT outlook mailbox direct from the PT provider:

   ORELAP.PT@dhsoha.state.or.us

2. PT providers must email two files (PDF and Excel raw data documents)
ORELAP Proficiency Testing Reports

3. ORELAP uploads files (PDF and Excel documents) in ODIE system (only available for ORELAP staff).

4. PT results are to be evaluated for conformance to the TNI standard to determine the accreditation status of a laboratory within 60 days of the receipt of the final report from the PT provider.

5. ORELAP notifies related agencies if the certification has been revoked or suspended.
1. Check your current FOA (sent by email).

2. During the renewal application process, verify the codes and references for your methods and analytes.

3. Download the “Fields of Accreditation Summary” from ODIE system.

4. TNI LAMS.

5. ORELAP website - OR Drinking Water and Cannabis Labs.
During the renewal application process the laboratory must verify that the method in the application is the intended one.

4.2.1  “To maintain accreditation the laboratory shall: b) Maintain a history of at least two (2) successful performances out of the most recent three (3) attempts; for each accreditation FoPT; and…”
ORELAP Application

Registered Labs

Select Laboratory to Review

<table>
<thead>
<tr>
<th>ORELAP</th>
<th>Laboratory Name</th>
<th>*Accrediting Body</th>
<th>*Type</th>
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<td>OR</td>
<td>Primary</td>
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Application History

ORELAP ID:

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OSPHL Laboratory Compliance Section  ORELAP
ORELAP Application

Registered Labs

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New Application

ORELAP ID:

- Submit
- Cancel

- Primary Renewal
- Additional Parameters ONLY
- Name Change ONLY
- Change Of Address ONLY
- Change of Ownership ONLY
- Change Personnel ONLY
- Withdraw Methods, Analytes ONLY
### Drinking Water

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Select the Matrix before applying NEW Method(s) and Analyte(s):

Select 'Lab Status' and Click 'Update Record(s)'; Apply | Withdraw

- Drinking Water
- Non-Potable Water
- Solids
- Biological Tissue
- Air

Select All : Matrix: Drinking Water => Application Type: PRIMARY RENEWAL

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**Process selected Analytes for the Matrix below**

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**Select the Matrix before applying NEW Method(s) and Analyte(s):**

- **Drinking Water**
- **Non-Potable Water**
- **Solids**
- **Biological Tissue**
- **Air**

**Select 'Lab Status' and Click 'Update Record(s)':' Apply | Withdraw**

**Delete Records | Update Labs Records**

- **Select All**

**Matrix: Drinking Water => Application Type: PRIMARY RENEWAL**

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**Select Matrix before applying NEW Method(s) and Analyte(s):**

- Drinking Water
- Non-Potable Water
- Solids
- Biological Tissue
- Air

**Select ‘Lab Status’ and Click ‘Update Record(s):**

- Apply
- Withdraw

**Matrix: Drinking Water => Application Type: PRIMARY RENEWAL**

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**Search by:**

- Analyte Code
- Method Code
- Method Reference

**Search lab for:**

- OSPL Laboratory Compliance Section
- ORELAP

**Please send email to the ORELAP Administrator for any missing Method or Analyte code.**

**Select only the Analyte that you want to add to the Matrix below (order by analyte code + analyte).**
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ORELAP
How to verify your Fields Of Accreditation

1. Check your current FOA (sent by email).

2. During the renewal application process, verify the codes and references for your methods and analytes.

3. Download the “Fields of Accreditation Summary” from ODIE system.

4. TNI LAMS.

5. ORELAP website - OR Drinking Water and Cannabis Labs.
ORELAP Fields of Accreditation Summary

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4. TNI LAMS.
5. ORELAP website - OR Drinking Water and Cannabis Labs.
Fields of Accreditation - TNI LAMS

TNI LAMS is a central repository for information regarding the accreditation status of environmental laboratories. A few TNI Accreditation Bodies are still in the process of migrating accreditation data to this database. If you find that FCAs for your lab are missing, you should contact your AB for an update.

To skip the Search button below, on the next page, you will be able to choose from a drop-down menu to locate laboratories.

NEW TO LAMS?
Read the LAMS User Manual (click to download as PDF).

Watch the LAMS Petrodata Users Guide webinar. TNI Database Administrator Dan Beckman walks you through all that LAMS has to offer, and provides tips and tricks to get the most out of this valuable resource. Click here to watch the webinar - it takes just 25 minutes.

Please use the "contact" option at top-right to be directed to a form on which you can ask questions about database use, the data, or to offer suggestions for making the application more useful.

Disclaimer: All information obtained through TNI LAMS is accurate to the best of our knowledge. The quality and accuracy of the data is the responsibility of the appropriate Accreditation Body.

Oregon Health Authority

OSPRL Laboratory Compliance Section ORELAP
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ORELAP Accredited Drinking Water Laboratories

Laboratories listed below accept public drinking water samples for testing.

Lead testing
- Laboratories accredited to perform testing for LEAD in drinking water (pdf)

Well water or tap water testing: Chemicals OTHER than lead
- OREGON: Accredited drinking water testing laboratories (pdf)
- OTHER STATES: Accredited drinking water testing laboratories (pdf)

Connect to the Oregon Drinking Water Program website.
# ORELAP Website: Oregon Drinking Water and Cannabis Labs

## ORELAP Accredited OREGON Laboratories that Test Drinking Water and Accept Public Samples

**Update:** 4/2/2019 9:30 am

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<td>1804 N 33rd St.</td>
<td>Boise, ID</td>
<td>208-342-5515</td>
<td><a href="mailto:brian@analyticallaboratories.com">brian@analyticallaboratories.com</a></td>
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<td>363 West 1st Ave.</td>
<td>Eugene, OR 97401</td>
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<td>12232 SW Garden Place</td>
<td>Tigard, OR 97223</td>
<td>503-718-2323</td>
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<td>Prineville, OR 97754</td>
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<td>210335 Avon Road</td>
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<td>Wilsonville, OR 97070</td>
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<td>Coos Bay, OR 97420</td>
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<td>541-770-4778</td>
<td>throutuer@nrc labs.com</td>
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<td>503-233-5437</td>
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<td><a href="mailto:waterlab@comcast.net">waterlab@comcast.net</a></td>
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OSHPL Laboratory Compliance Section ORELAP
ORELAP Website - Oregon Drinking Water and Cannabis Labs

Cannabis Testing

Resources for Labs Seeking Accreditation for Cannabis Testing

The Oregon Environmental Laboratory Accreditation Program (ORELAP) is recognized by The NELAC Institute’s National Environmental Laboratory Accreditation Program. ORELAP accredits qualified laboratories for testing under the Clean Air Act (CAA), Clean Water Act (CWA), Resource Conservation and Recovery Act (RCRA) and the Safe Drinking Water Act (SDWA) and Cannabis testing under ORS 476B.560 to 476B.590.

News

Permanent Rules effective May 31, 2017 affect Sampling Protocols
- For links and more information, visit ORELAP’s Rules and Statutes web page
- To view the updated protocols, visit ORELAP’s Sampling Protocols web page

Accreditation - ORELAP Accreditation in the Cannabis Testing Industry

- Learn how to prepare your laboratory for accreditation
- Laboratories currently ORELAP Accredited to test Cannabis (pdf)
- Cannabis report requirements: December 22, 2016 letter (pdf) - posted 3/30/2017

Sampling - ORELAP

- Cannabis sampling prot
ORELAP Website - Oregon Drinking Water and Cannabis Labs

ORELAP
Accredited Cannabis Testing Laboratory

<table>
<thead>
<tr>
<th>Laboratory Name</th>
<th>Potency</th>
<th>Pesticides</th>
<th>Solvents</th>
<th>Sampling</th>
<th>Microbiology</th>
<th>Moisture content</th>
<th>Water activity</th>
<th>Certificate and Fields of Accreditation</th>
<th>Contact Information</th>
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<td>3B <a href="mailto:test@3baralystical.com">test@3baralystical.com</a></td>
<td>503-954-3972</td>
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<td>Anova Laboratory</td>
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<td>Anova <a href="mailto:jlf@anova-lab.net">jlf@anova-lab.net</a></td>
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</table>

✓ ORELAP accredited
✗ Not ORELAP accredited

Laboratory accredited for pesticide preparation only. Lab must subcontract to an ORELAP laboratory with an accredited pesticide analysis scope item.
Method Revision and Year-TNI LAMS
Method Revision and Year- TNI LAMS
Comment from lab:
“...The final PT report does not include the method code on the report...”
• i.e., ERA report window
• ORELAP gets the excel document with PT raw data that includes codes.
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<th>Analyte</th>
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<th>Datapoint</th>
<th>Unit</th>
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</table>
ORELAP Update

1. ORELAP will mail a letter with more information of this requirement.

2. Laboratories that have errors (i.e., different method code) in their application will be allowed to modify the application in ODIE.

3. Laboratories that have their application correct, have successfully performed PTs, but have not been referencing the exact method must correct this by the next PT enrollment (6 months).
Contact ORELAP

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