

The NELAC-Institute
Laboratory Accreditation Management System

TNI LAMS 2.0

Accreditation Body User Manual

01/30/20

Revision 1.2

Changes

- 11 July 17 Added instruction for AB Recognition Table Edit.
- 11 July 17 Made corrections and additions to the upload procedure.
- 28 Mar 18 Deleted reference to manual FOA edit/update
- 08 Apr 18 Added Lab_Type as the last column in Demographic CSV upload file.
- 18 Oct 18 Added information about filtering analytes by "Type"
- 29 Mar 19 Analytes associated with methods displayed for members on method info table.
- 25 Apr 19 Added example of NIST Webpage analyte link display.

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Overview

Scope

This document describes the use of The NELAC-Institute Laboratory Accreditation Management System (TNI LAMS) 2.0 by Accreditation Bodies (ABs) and general users. It is not intended to fully document the database structure or web application.

Introduction

TNI LAMS provides a system for tracking environmental laboratory contact information, accreditation status, AB Fields of Recognition (Matrix-Technology combinations) and AB contact information. It also provides data to assist with secondary recognition by Accreditation Bodies (ABs) and provide easily accessible data repository using web-based technology for global access by all stakeholders. The system also provides a central location for method codes, analyte codes, and technology codes.

Although the underlying database structure remains unchanged from LAMS, LAMS 2.0 web user interface has been completely rewritten. Since the web language used in LAMS was no longer being supported by the server operating system we took the opportunity to update to a more current and reliable script. This also gives us the opportunity to update and provide more options.

TNI standards define both primary and secondary ABs. The Primary AB is the AB that actually performs a laboratory onsite assessment and grants accreditation in accordance with the applicable standards. A Secondary AB is an Accreditation Body that grants approval to an organization based on accreditation by its Primary Accreditation Body. This approval is known as reciprocity and is granted on an organization by organization basis. The standards define duties and responsibilities of both Primary and Secondary ABs in implementing reciprocity. Primary ABs use the TNI database to record any changes in the accreditation status of a laboratory. Secondary ABs will base their reciprocal accreditation on the Primary Accreditation. The primary AB retains responsibility for ensuring that the laboratory complies with applicable standards. Because not all ABs offer the same Fields of Accreditation, it is possible for an organization to have multiple Primary ABs. It is common for organizations to have multiple Secondary ABs.

Accreditation is granted for matrix-method-analyte combinations. The national database tracks both the primary and secondary Accreditation Bodies that awarded the accreditation for each matrix-method-analyte along with the effective date of the accreditation status. Dates are needed in order to track the change in accreditation status and provide subsequent notification of any Secondary AB that has accredited that laboratory.

User Interface

The national database application is Web-enabled, and all access is provided through a current version Web browser installed on the user's workstation. No additional client software is required. This choice yields maximum ease of use because most users should be familiar with using a browser and navigating through pages via links, browser buttons, etc. Queries, data drill down, and preformatted reports are provided.

Manual Data Entry/Manual Data Edit

The data entry portion of the application is available to authorized users who have a valid user ID and password. Data entry pages utilize standard Web input features such as selection lists, radio buttons, and command buttons to guide the user through the input process and offer help on entering valid data and provide error checking to ensure all required fields have been entered.

LAMS provides the AB (after appropriate logon) the ability to:

- Create/Modify Accredited Laboratory
- Create/Modify Accredited Laboratory demographics

Bulk Data Upload

Some states already have automated systems to manage their accreditation programs. Typically, these systems are tailored to specific requirements of the state and often have more functionality than is envisioned for the national database. However, these systems do contain information that must be entered into the national database. Periodic automated loading of updated information from existing databases maintained by NELAP Accreditation Bodies is a functional requirement of the national database.

Several different approaches were considered for bulk data uploading. Because Internet access is a requirement for users of the TNI national database, an electronic method of file transfer is required. Data will not be accepted on physical media. Automated data transfer requires clearly defined data standards that specify the content, format, and order of the data fields being transferred. The system accepts a Text (.CSV) file that is easily produced by the AB and can be readily loaded into the national database using standard data loading tools. These tools provide mechanisms for data validation and verification. A data error report will be generated and include any problems or errors that need to be resolved by the submitter. Only records with errors will not be uploaded. All other records, whether in Lab Demographics or FOA will load successfully. It is up to the AB to make corrections to the file and re-upload or make corrections manually.

It is important to note that stakeholders required that a lab can be set to “inactive” only in the manual mode and not through bulk upload.

Administrative Maintenance Interface

Data administration tasks, which will be the responsibility of the TNI database administrator, are performed via a Web-enabled interface. No direct database access is anticipated for routine data administration tasks. The LAMS database administrator will maintain the login and password table and the Matrix, Technology, Method, and Analyte tables using an interactive Web-based interface. Any data administration on other tables will be performed through direct database access by the DBA.

General User Instructions (things you can do without logging in)

Open browser and enter <http://lams.nelac-institute.org> in the address line. You should see the following screen:

The screenshot shows the TNI LAMS website interface. At the top right, there are links for 'home', 'contact', and 'TNI website'. The main header area contains the 'TNI LAMS' logo and the text 'National Environmental Laboratory Accreditation Management System'. Below this is a navigation bar with 'Home', 'Search', 'Help', and 'AB Login'. The left sidebar contains a menu with sections: 'PROGRAMS' (with a sub-item 'Accreditation Bodies'), 'TNI CODES' (with sub-items 'Analytes', 'Methods', 'Matrices', 'Technologies'), and 'TNI WEBSITE LINKS' (with sub-items 'Home Page', 'Request Method Code', 'Request Analyte Code'). The main content area features a 'WELCOME TO THE NELAC INSTITUTE'S NATIONAL ENVIRONMENTAL LABORATORY ACCREDITATION MANAGEMENT SYSTEM' heading. Below this is a paragraph about TNI LAMS as a central repository. A 'CURRENT STATISTICS' box lists: Accreditation Bodies: 14, Laboratories: 1422, Fields of Accreditation: 55595, Methods: 4151, and Analytes: 3230. A blue 'Search' button is prominently displayed. The 'NEW TO LAMS?' section includes links to the 'LAMS User Manual' and a 'LAMS Practical Users Guide webcast'. A disclaimer at the bottom states that information accuracy is the responsibility of the appropriate Accreditation Body.

You can also get to LAMS from the TNI home page.

TNI LAMS Top Banner

This blue banner with the TNI logo in green appears on each page. Across the top of each page are three links:

Home always brings you back to this home screen.

TNI Website takes you to the TNI home page.

Contact will bring you to the TNI LAMS Contact form. This form can be used to make comments or suggestions about LAMS or ask questions about data or information found in the database. Note that this form is to be used only for LAMS and not for questions about any other part of TNI or the TNI webpage.

Be sure to select **“I’m not a robot”** before selecting **“Continue”**.

| [home](#) | [contact](#) | [TNI website](#) |

TNI LAMS

National Environmental Laboratory Accreditation Management System



Home | Search | Help | | [AB Login](#)



PROGRAMS

- Accreditation Bodies

TNI CODES

- Analytes
- Methods
- Matrices
- Technologies

TNI WEBSITE LINKS

- Home Page
- Request Method Code
- Request Analyte Code

TNI LAMS Contact Form

Please use this form to contact TNI regarding LAMS issues only. For all other inquiries, please visit the main TNI contact page at <http://nelac-institute.org/contact.php>.

Name *

First Last

Email *

Phone

- -

####

Organization *

Your message: *

I'm not a robot 
reCAPTCHA
Privacy - Terms

At the bottom of the banner there are another three links:

Home takes you back to the original LAMS home page

Search allows the user to search accredited laboratories. This is the same function as the large blue search button found on the home page. The use is explained in a later section.

Help brings up a short reference page explaining the tables in the left navigation pane.

Search

TNI LAMS
National Environmental Laboratory
Accreditation Management System

| [home](#) | [contact](#) | [TNI website](#) |



[Home](#) | [Search](#) | [Help](#) |

| [AB Login](#)



PROGRAMS

[Accreditation Bodies](#)

TNI CODES

[Analytes](#)

[Methods](#)

[Matrices](#)

[Technologies](#)

TNI WEBSITE LINKS

[Home Page](#)

[Request Method Code](#)

[Request Analyte Code](#)

WELCOME TO THE NELAC INSTITUTE'S NATIONAL ENVIRONMENTAL LABORATORY ACCREDITATION MANAGEMENT SYSTEM

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 FOAs for your lab are missing, you should contact your AB for an update.

To begin, click the Search button below. On the next page, you will be able to choose from a variety of ways to locate laboratories.

Search

NEW TO LAMS?

Read the [LAMS User Manual](#) ([click to download as PDF](#))

Watch the [LAMS Practical Users Guide webcast](#). TNI Database Administrator Dan Hickman 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 webcast](#) - 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.

[CURRENT STATISTICS](#)

Accreditation Bodies: 14
Laboratories: 1422
Fields of Accreditation: 555595
Methods: 4151
Analytes: 3230

Selecting the big blue **"Search"** button on the home page or selecting **"search"** from the menu bar takes you to a page that allows you to search for a lab using a variety of filters.

The screenshot shows the TNI LAMS search interface. At the top, there is a navigation bar with links for Home, Search, and Help, and an AB Login link. The main content area is divided into a left sidebar and a central search form. The sidebar includes sections for PROGRAMS (Accreditation Bodies), TNI CODES (Analytes, Methods, Matrices, Technologies), and TNI WEBSITE LINKS (Home Page, Request Method Code, Request Analyte Code). The search form, titled 'SEARCH', contains the following fields:

- Lab Name: Text input field
- TNI Lab Code: Text input field
- Lab Location State: Dropdown menu (Any)
- Accreditation Body: Dropdown menu (Any)
- Accept Commercial Samples: Dropdown menu (All)
- Is Active: Dropdown menu (Yes)
- Matrix: Dropdown menu (Any)
- Method: Dropdown menu (Any)
- Method Revision: Dropdown menu (Any)
- Analyte: Dropdown menu (Any)

A 'Search' button is positioned at the bottom of the form.

LAMS only allows a single filter in the upper section of the search. You can enter any part of the Lab Name or TNI Lab Code but not any of the other filters. If the lab name and TNI Lab Code are left blank, you may drop down the state in which the lab is located, and/or select whether the lab Accepts Commercial Samples and/or whether the lab is Active/Not Active/All. These filters work on the entire list of labs regardless of whether accreditations are listed.

Dropping down and selecting a specific AB will limit the search to those labs holding a current Field of Accreditation (FOA) from one of the Accreditation Bodies. So if a lab is listed under the search but not when an AB is selected, then the AB has not entered any FOA records for that lab.

The lower section of the search allows you to further refine the search by entering any part of the matrix, method, method revision, and/or analyte. Multiple filters are allowed in this section.

Be sure to select “**Search**” at the bottom of the page to apply the filters.

You will be presented with a list of labs that meet the criteria. Leaving all search fields blank will bring up an entire list of active labs.

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Accreditation Management System

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[Home](#) | [Search](#) | [Help](#) |

[AB Login](#)



PROGRAMS

Accreditation Bodies

TNI CODES

Analytes

Methods

Matrices

Technologies

TNI WEBSITE LINKS

Home Page

Request Method Code

Request Analyte Code

SEARCH RESULTS

Name	City	State	TNI Lab Code
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
809 Maintenance Support Squadron - Science and Engineering Laboratory	Hill AFB	Utah	TNI01949
A & B Environmental Services, Inc.	Houston	Texas	TNI00025
A & E Analytical Laboratory, Inc.	Wichita	Kansas	TNI01941
A & P WATER TESTING	MORRISVILLE	New York	TNI01892
A.L.A.C.-ASBESTOS & LEAD ABATEMENT CORP.	NEW YORK	New York	TNI01731
A.W. Research Laboratories, Inc.	Brainerd	Minnesota	TNI01083
AbbVie Environmental, Health and Safety Laboratory	Abbott Park	Illinois	TNI02017
ABC Research Holdings, LLC	Gainesville	Florida	TNI00245
Abilene - Taylor County Public Health District	Abilene	Texas	TNI00110
ABSOLUTE HOME INSPECTION, INC	BALDWINVILLE	New York	TNI01815
ABSOLUTE RESOURCE ASSOCIATES LLC	PORTSMOUTH	New Hampshire	TNI01081
AC Analytical & Consulting LLC	Puposky	Minnesota	TNI01127
ACCREDITED ANALYTICAL RESOURCES LLC	CARTERET	New Jersey	TNI01852
ACCURATE ANALYTICAL TESTING, LLC	BELLEVILLE	Michigan	TNI01818
Accurate Environmental Laboratories, LLC	Stillwater	Oklahoma	TNI01938
ACCURATE ENVIRONMENTAL LABORATORY LLC	OKLAHOMA CITY	Oklahoma	TNI02407
ACCUSTAR LABS - MEDWAY	MEDWAY	Massachusetts	TNI01778
Accutest Gulf Coast Laboratories - Louisiana	Scott	Louisiana	TNI01404
Accutest Laboratories of New England	Marlborough	Massachusetts	TNI00246
Accutest Laboratories Southeast, Inc.	Orlando	Florida	TNI00247

⏪ ⏩ 1 2 3 4 5 6 7 8 9 10 ... ⏪ ⏩

Page size: 20

1401 items in 71 pages

[Save to Excel](#)

Note that as in all the tables, you can select the number of records to display by using the dropdown box at the bottom of the table. You can select a particular page, go 1 page forward or backward or move directly to the beginning or the end.

Each column can be sorted by selecting the header for that column. Each column can also be filtered by entering any part of the record and selecting the search symbol.

Selecting “**Save to Excel**” will generate a CSV file using the filtered data in this table.

Once you select a lab you will go to the lab information page where the lab demographics are located.

The screenshot shows the TNI LAMS website interface. At the top right, there are links for 'home', 'contact', and 'TNI website'. The main header includes the TNI LAMS logo and the text 'National Environmental Laboratory Accreditation Management System'. Below the header is a navigation bar with 'Home', 'Search', 'Help', and 'AB Login'.

The left sidebar contains several menu items: 'PROGRAMS' (with sub-item 'Accreditation Bodies'), 'TNI CODES' (with sub-items 'Analytes', 'Methods', 'Matrices', 'Technologies'), and 'TNI WEBSITE LINKS' (with sub-items 'Home Page', 'Request Method Code', 'Request Analyte Code').

The main content area is titled 'VIEW LAB' and is divided into two columns. The left column contains 'Basic Details' for the lab 'ABSOLUTE RESOURCE ASSOCIATES LLC', including fields for Name, Type of Lab (Commercial), TNI Lab Code (TNI01061), EPA Code (NH00902), State ID (1732), and Website (www.absoluteresourceassociates.com). The right column contains 'Extended Details' with fields for Primary AB responsible (New Hampshire ELAP), GIS Location, Description, Comments, Effective Date (n/a), Commercial Samples (Yes), and Active (Yes).

Below the details is the 'Location Address' section, which lists the company name and contact information for SUE SYLVESTOR at 124 HERITAGE AVE, UNIT 16, PORTSMOUTH, New Hampshire 3801, US. Contact details include phone (6034362001), fax (6034302100), and email (SUES@ABSOLUTERESOURCEASSOCIATES.COM).

At the bottom of the 'Location Address' section, there are two buttons: 'Go to Fields of Accreditation' (highlighted with a red circle) and 'Edit'.

To view the Fields of Accreditation select **“Go to Fields of Accreditation”**. You will be presented with a complete view of all FOAs for the selected lab, including Primary and Secondary accreditations from all ABs.

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Accreditation Management System

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Home | Search | Help
AB Login



PROGRAMS

Accreditation Bodies

TNI CODES

Analytes
Methods
Matrices
Technologies

TNI WEBSITE LINKS

Home Page
Request Method Code
Request Analyte Code

SHOW LAB ACCREDITATION

Matrix	Method	Analyte	Status	AB
Drinking Water	EPA 200.7	Aluminum	Accredited	NH
Drinking Water	EPA 200.7	Antimony	Accredited	NH
Drinking Water	EPA 200.7	Arsenic	Accredited	NH
Drinking Water	EPA 200.7	Barium	Accredited	NH
Drinking Water	EPA 200.7	Beryllium	Accredited	NH
Drinking Water	EPA 200.7	Boron	Accredited	NH
Drinking Water	EPA 200.7	Cadmium	Accredited	NH
Drinking Water	EPA 200.7	Calcium	Accredited	NH
Drinking Water	EPA 200.7	Chromium	Accredited	NH
Drinking Water	EPA 200.7	Copper	Accredited	NH
Drinking Water	EPA 200.7	Iron	Accredited	NH
Drinking Water	EPA 200.7	Lead	Accredited	NH
Drinking Water	EPA 200.7	Magnesium	Accredited	NH
Drinking Water	EPA 200.7	Manganese	Accredited	NH
Drinking Water	EPA 200.7	Molybdenum	Accredited	NH
Drinking Water	EPA 200.7	Nickel	Accredited	NH
Drinking Water	EPA 200.7	Potassium	Accredited	NH
Drinking Water	EPA 200.7	Selenium	Accredited	NH
Drinking Water	EPA 200.7	Silver	Accredited	NH
Drinking Water	EPA 200.7	Sodium	Accredited	NH

◀ ◁ 1 2 3 4 5 6 7 8 9 10 ... ▷ ▶
Page size: 20 ▾

927 items in 47 pages

Each column can be sorted by selecting the header for that column. Each column can also be filtered by entering any part of the record and selecting the search symbol.

Selecting **“Save to Excel”** will generate a CSV file using the filtered data in this table. Once the file has been downloaded, it can be opened in Excel or Access and then sorted and filtered to meet the needs of the user.

If you select a specific FOA, you will be taken to the FOA information page containing information about that specific FOA including the dates it was first created and last updated. It also displays the effective date and the date the FOA will expire.

TNI LAMS

National Environmental Laboratory
Accreditation Management System



PROGRAMS

[Accreditation Bodies](#)

TNI CODES

[Analytes](#)

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[Matrices](#)

[Technologies](#)

TNI WEBSITE LINKS

[Home Page](#)

[Request Method Code](#)

[Request Analyte Code](#)

SHOW LAB ACCREDITATION DETAILS

Field of Accreditation

Matrix [Drinking Water](#)

Method [EPA 200.7](#)

Analyte [Lead](#)

Status [Accredited](#)

Updates

Record Created [Dec 12, 2016](#)

Record Updated [Dec 12, 2016](#)

Record Effective [Apr 28, 2008](#)

Record Expires [Jan 25, 2017](#)

Left Navigation Panel

On the left side of each page under the TNI logo are links to important tales in LAMS. Each one is described below.

PROGRAMS

Accreditation Bodies

Selecting “**Accreditation Bodies**” takes you the table listing TNI recognized Accrediting Bodies.

TNI LAMS
National Environmental Laboratory
Accreditation Management System

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[Home](#) | [Search](#) | [Help](#) |

[AB Login](#)



PROGRAMS

Accreditation Bodies

TNI CODES

Analytes
Methods
Matrices
Technologies

TNI WEBSITE LINKS

Home Page
Request Method Code
Request Analyte Code

ACCREDITATION BODIES

Type	Name	City	State	Phone
SAB	Florida Department of Health Environmental Laboratory Certification Program	Jacksonville	FL	904-791-1599
SAB	Illinois Environmental Laboratory Accreditation Program (IL ELAP)	Springfield	IL	217-785-0601
SAB	Kansas Department of Health and Environment	Topeka	KS	785-296-3811
SAB	Louisiana Department of Health & Hospitals Laboratory Certification Program	Baton Rouge	LA	225-219-5247
SAB	Louisiana Environmental Laboratory Accreditation Program	Baton Rouge	LA	225-219-3247
SAB	Minnesota Dept of Health, Environmental Laboratory Accreditation Program	St Paul	MN	218-332-5164
SAB	New Hampshire ELAP	Concord	NH	603-271-2998
SAB	NJDEP Office of Quality Assurance	Trenton	NJ	609-292-3950
SAB	NY Environmental Laboratory Approval Program (ELAP)	Albany	NY	518-485-5570
SAB	Oregon Environmental Laboratory Accreditation Program	Hillsboro	OR	503-693-4122
SAB	PA-DEP, Laboratory Accreditation Program	Harrisburg	PA	717-346-7200
SAB	Texas Commission on Environmental Quality	Austin	TX	512-239-3927
SAB	Utah Department of Health	Taylorsville	UT	801-965-2400
SAB	Virginia Division of Consolidated Laboratory Services	Richmond	VA	804-648-4480

Key to Accreditation Body Types
 GAB = Government Accrediting Authority
 NGAB = Non-Government Accrediting Authority
 SAB = State Accrediting Authority

Note the addition of Accreditation Body Type.

Selecting a specific AB will take you to the AB information page.

The screenshot shows the TNI LAMS website interface. At the top, there is a navigation bar with links for 'home', 'contact', and 'TNI website'. The main header features the 'TNI LAMS National Environmental Laboratory Accreditation Management System' logo and the 'THE NELAC INSTITUTE' logo. Below the header is a secondary navigation bar with 'Home', 'Search', 'Help', and 'AB Login' links.

The main content area is divided into two columns. The left column contains a sidebar with the following sections:

- PROGRAMS**
 - Accreditation Bodies
- TNI CODES**
 - Analytes
 - Methods
 - Matrices
 - Technologies
- TNI WEBSITE LINKS**
 - Home Page
 - Request Method Code
 - Request Analyte Code

The right column displays the 'ACCREDITATION BODY' details for the Minnesota Dept of Health, Environmental Laboratory Accreditation Program. It is organized into three sections:

- Location Details:**
 - Name: Minnesota Dept of Health, Environmental Laboratory Accreditation Program
 - Street 1: 601 Robert Street North
 - Street 2:
 - City: St Paul
 - State: Minnesota
 - Zip: 55155
 - P.O. Box: 64899
 - P.O. Box Zip: 55164-0899
 - County: Ramsey
 - EPA Region: 5
 - AB Type: State Accrediting Authority
- Contact Details:**
 - Phone: 218-332-5164
 - Fax: 218-332-5196
 - Email: lynn.boysen@state.mn.us
 - Website: www.health.state.mn.us/accreditation
- Program Manager:**
 - Name: Lynn Boysen

At the bottom of the accreditation body details, there is a button labeled 'Go to Recognitions'.

At the bottom of the page is a link "Go to Recognitions" which will bring up a page that describes the matrix/technology for which the AB grants accreditation.

TNI LAMS National Environmental Laboratory Accreditation Management System		home contact TNI website						
 PROGRAMS Accreditation Bodies		ACCREDITATION BODY						
TNI CODES Analytes Methods Matrices Technologies		Recognitions						
TNI WEBSITE LINKS Home Page Request Method Code Request Analyte Code		Name	Description	A	DW	NPW	S	BT
		AS	Alpha Spectrometry	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		AUTO	Auto Analyzer	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		BETA	Beta Spectrometry	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		BioTox	Toxicity Testing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		C-QN	Chromogenic/MPN - Quantitative	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		C-QT-QN	Chromogenic - Quantitray	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		CF-QL	Chromofluorogenic - Qualitative	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		CF-QN	Chromofluorogenic - Quantitative	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		COND	Conductance	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		COUL	Coulometric Titration	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		CVAAS	Atomic Absorption - Cold Vapor Spectrometry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		CVAFS	Atomic Fluorescence - Cold Vapor Spectrometer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		DCP-AES	Atomic Emission - Direct Current Plasma Spectrometer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		F-QN	Fluorogenic/MPN - Quantitative	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		F-QT-QN	Fluorogenic - Quantitray	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		FAAS	Atomic Absorption - Flame Spectrometer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		FAES	Atomic Emission - Flame Spectrometer	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		FB-A1-QN	Fermentation Broth(A-1) - Quantitative	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		FB-F-QL	Fermentation Broth+Fluorogenic - Qualitative	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

TNI CODES

Analytes

Selecting “**Analytes**” brings up a copy of the analyte table where you can search/filter by:

- Analyte Code
- Analyte name or part of a name
- CAS Number
- Type (Group by Category)
- Active [default], Inactive, or All):



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ANALYTES

Type: All Active: Yes

TNI Code	Analyte	CAS Number	Type
3205	# Eggs/Egg Case	NA	WET
6703	1,1'-Biphenyl (BZ-0)	92-52-4	SVOC-BNA
5166	1,1'-Oxybis-2-propanol	110-98-5	SVOC-NOS
5105	1,1,1,2-Tetrachloroethane	630-20-6	VOC
5162	1,1,1,3,3-Pentachloropropane	23153-23-3	SVOC-NOS
5164	1,1,1-Tribromo-2-methylpropan-2-ol	78-08-4	SVOC-NOS
5195	1,1,1-Trichloro-2,2,2-trifluoroethane (Freon 113a)	354-58-5	VOC
5190	1,1,1-Trichloro-2-propanone	918-00-3	VOC
5160	1,1,1-Trichloroethane	71-55-6	VOC
5161	1,1,1-Trifluoroethane	420-46-2	VOC
5110	1,1,2,2-Tetrachloroethane	79-34-5	VOC
5185	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	78-13-1	VOC
5165	1,1,2-Trichloroethane	79-00-5	VOC
5167	1,1,2-Trichlorofluoroethane	811-95-0	VOC
5172	1,1,2-Trifluoroethane	430-86-0	VOC
5168	1,1,2-Trimethylcyclohexane	7094-26-0	SVOC-NOS
5169	1,1,4-Trimethylcyclohexane	7094-27-1	SVOC-NOS
5171	1,1-Dichloro-1-fluoroethane	1717-00-6	VOC
5173	1,1-Dichloro-2-propanol		VOC
7450	1,1-Dichloro-2-propanone	513-88-2	SVOC-Pesticides

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Page size: 20

3230 items in 162 pages

[Save to Excel](#)

At the bottom of the page you can select a specific page or the number of records to display per page.

If you filter by Type, only analytes in that category will be displayed. This is meant to provide an easier way to locate analytes but the type is not intended to define a specific parameter. For example, 1,4-Dichlorobenzene

Selecting "**Save to Excel**" will generate an Excel file using the filtered data in this table. Once the file has been downloaded, it can be opened in Excel or Access and then sorted and filtered to meet the needs of the user.

Selecting a specific analyte will take you to the analyte information page where you will find the date it was added to LAMS, last updated (changed), and last uploaded:

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ANALYTE DETAILS

Basic Details	Extended Details
Code	5167
Analyte	1,1,2-Trichlorofluoroethane
CAS Number	811-95-0
Type	VOC
Link to NIST Webbook	Click here
Date Added to LAMS	Jan 01, 2008
Last Updated	Jan 23, 2017
Last Uploaded	Jan 23, 2017
Active	<input checked="" type="checkbox"/>

Selecting “**Link to NIST Webbook**” displays the chemical page from NIST

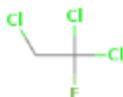

 National Institute of Standards and Technology
 U.S. Department of Commerce

NIST Chemistry WebBook, SRD 69

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Ethane, 1,1,2-trichloro-1-fluoro-

- **Formula:** C₂H₂Cl₃F
- **Molecular weight:** 151.395
- **IUPAC Standard InChI:**
 - InChI=1S/C2H2Cl3F/c3-1-2(4,5)6/h1H2
 - [Download the identifier in a file.](#)
- **IUPAC Standard InChIKey:** ZKVMMSGRDBQIOQ-UHFFFAOYSA-N
- **CAS Registry Number:** 811-95-0
- **Chemical structure:**



InChI TRUST
CERTIFIED
2011

This structure is also available as a [2d Mol file](#)

- **Other names:** 1,1,2-Trichloro-1-fluoroethane
- **Permanent link** for this species. Use this link for bookmarking this species for future reference.
- **Information on this page:**
 - [Notes](#)
- **Other data available:**
 - [Phase change data](#)
 - [Mass spectrum \(electron ionization\)](#)
- **Data at other public NIST sites:**
 - [Gas Phase Kinetics Database](#)
- **Options:**
 - [Switch to calorie-based units](#)

Methods

Selecting "Methods" brings up a copy of the method table where you can search by:

- Method Code
- Reference
- Method Name
- Method Revision
- Approved for use under 40 CFR Part 136
- Approved for use under 40 CFR Part 141 and 143
- Contained in SW-846 Update III
- Contained in SW-846 Update IV
- Contained in SW-846 Update V
- Active (Default)/Inactive/All



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TEST METHODS

Part 136: | Part 141: | Active:

SW-846 Update III: | SW-846 Update IV: | SW-846 Update V:

TNI Code	Method	Revision	Revision Date	Name
80028004	3M 76-8900-3715-1(85.2)R1 Empore (TM) Disk		1994	Organochlorine Pesticides and PCBs in Wastewater Using Empore (TM) Disk
80028059	3M0222 (EPA 808 ATP)		1995	Organochlorine Pesticides and PCBs in Wastewater Using 3M Empore Extraction Disks
10000154	40 CFR 141.131 (D)(4)		FR	Specific Ultraviolet Absorbance Calculation
10000304	40 CFR Part 50 Appendix B		FR	Suspended Particulate Mater in Atmosphere (High Volume Method)
10000405	40 CFR Part 50 Appendix G		FR	Lead in Suspended Particulate Matter
10000507	40 CFR Part 50 Appendix J		FR	Particulate Matter as PM10 in the Atmosphere
10000709	40 CFR Part 50 Appendix L		FR	Fine Particulate Matter as PM2.5 in the Atmosphere
10000745	40 CFR Part 50 Appendix O		FR	Coarse Particulate Matter as PM10-2.5 in the Atmosphere
10000734	40 CFR Part 50 Appendix Q		FR	Lead in Particulate Matter as PM10
10000778	40 CFR Part 783 Sub E, Appendix A		FR	Asbestos by TEM
80000502	Absolute SOP QA-801			Incremental Sampling for Soils
80001209	ADPEN SOP #6.5			ADPEN Labs - Atrazine, Metolachlor, and Simazine by HPLC-MS-MS
80001403	AEL MET-017	3		Advanced Environmental Laboratories - Metals except Hg by EPA 200.8 ICP-MS
80001807	AES SOP QA-11010			Analytical Environmental Services - EPA 8280 by GC-MS
80001852	AES0029		1991	Trace Elemental Analysis of Water and Wastes by Direct Current Plasma Optical Emission Spectrometry
10000825	AHERA		2009	Asbestos Hazard Emergency Response Act, TSCA
90015159	AK101 GRO-MS		2002	Determination of Gasoline Range Organics by GC/MS - Alaska Department of Environmental Conservation
90015208	AK102 DRO		2002	Determination of Diesel Range Organics - Alaska Department of Environmental Conservation
90015228	AK102 DRO-SV		2002	Determination of Diesel Range Organics Small Volume - Alaska DEC
90015400	AK103 RRO		2002	Determination of Residual Range Organics - Alaska Department of Environmental Conservation

⏪ ⏩

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⏪ ⏩

Page size:

4134 items in 207 pages

You can sort by any column by clicking the column header and you can select up to 100 records to display per page.

Selecting **“Save to Excel”** will generate an Excel file using the filtered data in this table. Once the file has been downloaded, it can be opened in Excel or Access and then sorted and filtered to meet the needs of the user. The file contains the following fields:

- TNI Method Code
- Method
- Method Revision
- Revision Date
- Method Short Name
- Technology
- Official Method Title
- Method Source
- Citation
- Approved for use under 40 CFR Part 136
- Approved for use under 40 CFR Part 141 and 143
- Contained in SW-846 Update III
- Contained in SW-846 Update IV
- Contained in SW-846 Update V
- Date Created
- Date Updated
- Last Uploaded
- Active (Default)/Inactive/All

Selecting a specific method will take you to the method information page where you will also find the official method title, the analytic technology, the citation, and the method source. It also shows date it was added to LAMS, last updated (changed), and last uploaded:



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METHOD DETAILS

Basic Details

Extended Details

Code	10275602	Part 136	<input checked="" type="checkbox"/>
Name	Anions by Ion Chromatography	Part 141	<input type="checkbox"/>
Reference	EPA 300.1	SW846-III	<input type="checkbox"/>
Title	Determination of Inorganic Anions in Drinking Water by Ion Chromatography	SW846-IV	<input type="checkbox"/>
Revision	1.0	SW846-V	<input type="checkbox"/>
Rev Date	1997	Date Added to LAMS	Jan 01, 2008
Citation	40 CFR Part 136	Last Updated	Mar 29, 2019
Technology	Ion Chromatography Electroconductivity	Last Uploaded	Mar 29, 2019
Method Source	Methods for the Determination of Inorganic Substances in Environmental Samples EPA/800/R-93/100	Active	<input checked="" type="checkbox"/>
PDF	10275602.pdf		

Method Compendium

If a copy of the method has been archived, a link to the PDF will appear on this information page. Selecting it will download the PDF version of the method to your computer. LAMS maintains copies of active, inactive and legacy methods for reference and comparison. Methods are continually being added as they become available. Note that some methods are proprietary, and in that case the link will lead back to the source where the method can be obtained.

Associated Analytes

If you are logged in as a TNI member a list of analytes associated with the method will be displayed. These are accredited method-analyte combinations uploaded to LAMS.



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METHOD DETAILS

[Edit Method](#)

Basic Details

Extended Details

Code	10275602	Part 136	<input checked="" type="checkbox"/>
Name	Anions by Ion Chromatography	Part 141	<input type="checkbox"/>
Reference	EPA 300.1	SW846-III	<input type="checkbox"/>
Title	Determination of Inorganic Anions in Drinking Water by Ion Chromatography	SW846-IV	<input type="checkbox"/>
Revision	1.0	SW846-V	<input type="checkbox"/>
Rev Date	1997	Date Added to LAMS	Jan 01, 2008
Citation	40 CFR Part 136	Last Updated	Mar 29, 2019
Technology	Ion Chromatography Electroconductivity	Last Uploaded	Mar 29, 2019
Method Source	Methods for the Determination of Inorganic Substances in Environmental Samples EPA/600/R-93/100	Active	<input checked="" type="checkbox"/>
PDF	10275602.pdf		

This method has been associated with the following analytes:

TNI Code	Analyte	CasNumber	Type
1535	Bromate	15541-45-4	Non-Metal Inorganics
1540	Bromide	24959-87-9	Non-Metal Inorganics
1570	Chlorate	7790-93-4	Non-Metal Inorganics
1575	Chloride	16887-00-6	Non-Metal Inorganics
1595	Chlorite	NA	Non-Metal Inorganics
1730	Fluoride	16984-48-8	Non-Metal Inorganics
1810	Nitrate as N	NA	Non-Metal Inorganics
1820	Nitrate plus nitrite as N	NA	Non-Metal Inorganics
1840	Nitrite as N	NA	Non-Metal Inorganics
1870	Orthophosphate as P	264888-19-9	Non-Metal Inorganics
2000	Sulfate	14808-79-8	Non-Metal Inorganics

[Save to Excel](#)

Matrices

Selecting “**Matrices**” brings up a copy of the matrix table showing the TNI accreditation matrices and their code (mainly used by ABs)

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MATRICES

Matrix	Code
Air	A
Drinking Water	DW
Non-Potable Water	NPW
Solids and Chemical	S
Tissue	BT

Selecting “**Save to Excel**” will generate an Excel file using the filtered data in this table.

Technologies

Selecting “**Technologies**” brings up a copy of the technology table showing the TNI accreditation technologies, their codes (mainly used in the method code table) and their scientific discipline.

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TECHNOLOGIES

Name	Description	Scientific Discipline
ASC	Alpha Scintillation Cell Counter	Radiochemistry
AS	Alpha Spectrometry	Radiochemistry
AMP	Amperometric Titration	Inorganic Chemistry
ASV	Anodic Stripping Voltmeter	Inorganic Chemistry
CVAAS	Atomic Absorption - Cold Vapor Spectrometry	Inorganic Chemistry
FAAS	Atomic Absorption - Flame Spectrometer	Inorganic Chemistry
GFAAS	Atomic Absorption - Graphite Furnace Spectrometer	Inorganic Chemistry
HGAAS	Atomic Absorption - Hydride Generation Spectrometer	Inorganic Chemistry
DCP-AES	Atomic Emission - Direct Current Plasma Spectrometer	Inorganic Chemistry
FAES	Atomic Emission - Flame Spectrometer	Inorganic Chemistry
ICP-AES	Atomic Emission - Inductively Coupled Plasma Spectrometer	Inorganic Chemistry
CVAFS	Atomic Fluorescence - Cold Vapor Spectrometer	Inorganic Chemistry
AUTO	Auto Analyzer	Inorganic Chemistry
BETA	Beta Spectrometry	Radiochemistry
BGCS	Beta/Gamma Coincidence Scintillation Counter	Radiochemistry
CALC	Calculation	Miscellaneous
CAL	Calorimetric (Temperature, Flash Point, etc)	Inorganic Chemistry
CE-UV	Capillary Electrophoresis - Ultraviolet/Visible Molecular Absorption	Inorganic Chemistry
CF-QL	Chromofluorogenic - Qualitative	Microbiology
CF-QN	Chromofluorogenic - Quantitative	Microbiology
C-QT-QN	Chromogenic - Quantitray	Microbiology
C-QN	Chromogenic/MPN - Quantitative	Microbiology
COND	Conductance	Inorganic Chemistry
COUL	Coulometric Titration	Inorganic Chemistry

Selecting “**Save to Excel**” will generate an Excel file. Once the file has been downloaded, it can be opened in Excel or Access and then sorted and filtered to meet the needs of the user.

TNI WEBSITE LINKS

Home Page

Selecting "**Home Page**" brings you to the TNI homepage, not the LAMS homepage.

Request Method Code

Selecting "**Request Method Code**" brings up a form to request the addition of a new method to the method table and creation of a TNI Method Code. Be sure to check the method table carefully before requesting addition of a new method.

Request Analyte Code

Selecting "**Request Analyte Code**" brings up a form to request the addition of a new analyte to the analyte table and creation of a TNI Analyte Code. Be sure to check the analyte table carefully before requesting addition of a new analyte.

Accreditation Body Instructions (things you can do after login)

User Login

Open browser and enter <http://nelac-institute.org/lams> in the address line. You should see the following screen:

The screenshot shows the TNI LAMS website homepage. The header includes the TNI LAMS logo and navigation links: Home, Search, Help, and AB Login. The main content area is divided into several sections:

- WELCOME TO THE NELAC INSTITUTE'S NATIONAL ENVIRONMENTAL LABORATORY ACCREDITATION MANAGEMENT SYSTEM**
- TNI LAMS is a central repository for information regarding the accreditation status of environmental laboratories.**
- CURRENT STATISTICS:**
 - Accreditation Bodies: 14
 - Laboratories: 1422
 - Fields of Accreditation: 55595
 - Methods: 4151
 - Analytes: 3230
- A few TNI Accreditation Bodies are still in the process of migrating accreditation data to this database. If you find that FOAs for your lab are missing, you should contact your AB for an update.**
- To begin, click the Search button below. On the next page, you will be able to choose from a variety of ways to locate laboratories.**
- NEW TO LAMS?**
 - Read the **LAMS User Manual** (click to download as PDF)
 - Watch the **LAMS Practical Users Guide webcast**. TNI Database Administrator Dan Hickman 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 webcast](#) - 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.

No login is required for users to reach the LAMS homepage or contact page and you may use the search feature for laboratories, Accreditation Bodies, and other tables.

Click on “**AB Login**” (top right) to go to the AB login page.

The screenshot shows the TNI LAMS website interface. At the top right, there are links for 'home', 'contact', and 'TNI website'. The main header displays 'TNI LAMS National Environmental Laboratory Accreditation Management System' and the logo for 'THE NELAC INSTITUTE'. A secondary navigation bar includes 'Home', 'Search', 'Help', and 'AB Login'. The left sidebar lists categories: 'PROGRAMS' (Accreditation Bodies), 'TNI CODES' (Analytes, Methods, Matrices, Technologies), and 'TNI WEBSITE LINKS' (Home Page, Request Method Code, Request Analyte Code). The main content area is titled 'WELCOME TO TNI ENVIRONMENTAL LABORATORY ACCREDITATION MANAGEMENT SYSTEM' and features a 'Accreditation Body Login' section. Under 'USER LOGIN', there are input fields for 'Email:' and 'Password:', a 'Login' button, a 'Remember me?' checkbox, and a 'Forgot your password?' link.

Enter email address and password and then select “**Login**”. Once you have logged in you will see your email displayed in the top banner. To change your password click on your email address in the banner.

Selecting “**Forgot your password?**” will allow you to enter your email address and get a temporary password.

Once you login, a new page specific to Accreditation Bodies will appear.

You will also notice that once logged in, your user name will be displayed in the top banner next to logout.

Change Password

Click on your name at the top of the screen and you will be given the opportunity to change your password. Enter your current password and your new password twice and select “**Change Password**”.

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danthrax33@msn.com | [Logout](#)



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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 FOAs for your lab are missing, you should contact your AB for an update.

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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.

CURRENT STATISTICS

Accreditation Bodies: 18
 Laboratories: 1483
 Fields of Accreditation: 556444
 Methods: 4204
 Analytes: 3257

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Accreditation Bodies

Selecting “**Accreditation Bodies**” displays a list of currently recognized Accreditation Bodies. Note the addition of Accreditation Body Type.

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ACCREDITATION BODIES

Type	Name	City	State	Phone
NGAB	American Association for Laboratory Accreditation (A2LA)	Frederick	MD	2405757481
NGAB	ANSI-ASQ National Accreditation Board	Fort Wayne	IN	260-637-2705
SAB	Florida Department of Health Environmental Laboratory Certification Program	Jacksonville	FL	904-791-1599
SAB	Illinois Environmental Laboratory Accreditation Program (IL ELAP)	Springfield	IL	217-785-0601
SAB	Kansas Department of Health and Environment	Topeka	KS	785-296-3811
SAB	Louisiana Department of Health & Hospitals Laboratory Certification Program	Baton Rouge	LA	225-219-5247
SAB	Louisiana Environmental Laboratory Accreditation Program	Baton Rouge	LA	225-219-3247
SAB	Minnesota Dept of Health, Environmental Laboratory Accreditation Program	St Paul	MN	218-332-5164
SAB	New Hampshire ELAP	Concord	NH	603-271-2998
SAB	NJDEP Office of Quality Assurance	Trenton	NJ	609-292-3950
SAB	NY Environmental Laboratory Approval Program (ELAP)	Albany	NY	518-485-5570
SAB	Oklahoma Department of Environmental Quality	Oklahoma City	OK	405-702-1000
SAB	Oregon Environmental Laboratory Accreditation Program	Hillsboro	OR	503-693-4126
SAB	PA-DEP, Laboratory Accreditation Program	Harrisburg	PA	717-346-7200
NGAB	Perry Johnson Laboratory Accreditation, Inc. (PJLA)	Troy	MI	248-519-2603
SAB	Texas Commission on Environmental Quality	Austin	TX	512-239-3927
SAB	Utah Department of Health	Taylorsville	UT	801-965-2400

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dan.hickman@nelac-institute.org | [Logout](#)



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ACCREDITATION BODY

Location Details

Name Oregon Environmental Laboratory Accreditation Program

Street 1 Oregon State Public Health Laboratory

Street 2 7202 NE Evergreen Pkwy, Suite 100

City Hillsboro

State Oregon

Zip 97124-6536

P.O. Box

P.O. Box

Zip

County Washington

EPA Region 10

AB Type State Accrediting Body

Contact Details

Phone 503-693-4122

Fax 503-693-5602

Email alia.d.servin@dhsosha.state.or.us

Website <http://public.health.oregon.gov/LaboratoryServices/Environment>

Program Manager

Name Chris Redman

The AB Admin section contains details about your program. Be sure to complete and update regularly all the information. You will also track your staff on this page. You can edit information on staff, add new staff, or delete staff. Selecting “**Send Activation Email**” will reset the user’s password and send an Email allowing them to login and select new password.

Add Employee

The “**Add Employee**” button creates a new employee and brings up a new set of info fields. For type, you can select “**Manager of ELAP**” or “**ELAP Technical Staff**”. Selecting “**Send Activation Email**” will send an email to the staff person with a link to complete the registration and allow login.

Save

The “**Save**” button saves all your work in progress on this page. If you leave this page without saving, anything you entered will be lost. When the info has been saved, select “**Send Activation Email**”. The new user will receive an email from LAMS with a link to complete the account activation. This link is viable for a short time (24 hours). If the user has difficulty finding the email, be sure to check the spam or junk mail folder.

Selecting the link in the email will get to this screen

Enter the email used in add employee. Select a password, enter password again to confirm and then select “**Activate Account**”.

You get a page informing you that your LAMS account setup is complete. Click [here](#) to login. You will open the standard login screen.

Go To Recognitions

The “**Go To Recognitions**” button will take you to a page that lists your program’s Fields of Recognitions as reported by the AB Evaluation Team. Be sure to review the list and notify TNI of any discrepancies.

To make changes, select “**Edit**” at the bottom of the table. Select appropriate combinations of Technology and Matrices. If you select “**Save to Excel**”, the table will be saved as an Excel file.

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ACCREDITATION BODY

Recognitions

Name	Description	A	DW	NPW	S	BT
AS	Alpha Spectrometry	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ASC	Alpha Scintillation Cell Counter	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ASV	Anodic Stripping Voltmeter	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AUTO	Auto Analyzer	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BETA	Beta Spectrometry	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BGCS	Beta/Gamma Coincidence Scintillation Counter	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BioTox	Toxicity Testing	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
C-QN	Chromogenic/MPN - Quantitative	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C-QT-QN	Chromogenic - Quantitray	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CF-QL	Chromofluorogenic - Qualitative	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CF-QN	Chromofluorogenic - Quantitative	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COND	Conductance	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
COUL	Coulometric Titration	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CVAAS	Atomic Absorption - Cold Vapor Spectrometry	<input checked="" type="checkbox"/>				
CVAFS	Atomic Fluorescence - Cold Vapor Spectrometer	<input checked="" type="checkbox"/>				
DCP-AES	Atomic Emission - Direct Current Plasma Spectrometer	<input checked="" type="checkbox"/>				

Labs

Once you have logged in, selecting “**Labs**” will display a list of only the labs for which your AB has granted primary and/or secondary FOAs in LAMS. Highlighting a particular lab will display the laboratory information page.

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VIEW LAB

Basic Details

Extended Details

Name	Alexin Analytical Laboratories, Inc.	Primary AB responsible for lab	Oregon Environmental Laboratory Accreditation Program
Type of Lab		demographics	
TNI Lab Code	TNI00196	GIS Location	
EPA Code	OR00031	Description	
State ID	OR100013	Comments	
Website		Effective Date	n/a
		Commercial Samples	Yes
		Active	Yes

Location Address

Company	
Contact	Adriana Gonzalez-Gray
Address 1	13035 SW Pacific Hwy
Address 2	
City	Tigard
State	Oregon
Zip	97223
Country	US
Phone	(503) 639-9311
Fax	(503) 684-1588
Email	mail@alexinlabs.com

In order to update or change information select “**Edit**” to display the information in an edit screen. Here you can edit or add information. Be sure to select “**Save**” when you are finished.



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EDIT LAB

Basic Details

Name:

Type of Lab:

TNI Lab Code:

EPA Code:

State ID:

Website:

Extended Details

Primary AB responsible for lab demographics:

GIS Location:

Description:

Comments:

Effective Date: 

Commercial Samples:

Active:

Address

Address Type:

Company:

Contact First Name:

Contact Last Name:

Address 1:

Address 2:

City:

State:

Zip:

Country:

Phone:

Fax:

Email:

[Delete Address](#)

Add Address

You can add an address and choose from Location, Billing, Mailing, or Owner address.

Go to Fields of Accreditation

To view the Fields of Accreditation select **“Go to Fields of Accreditation”**. You will be presented with a complete view of all FOAs for the selected lab, including Primary and Secondary accreditations from all ABs.



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SHOW LAB ACCREDITATION

Matrix	Method	Analyte	Status	AB
Non-Potable Water	EPA 160.2	Residue-nonfilterable (TSS)	Accredited	OR
Drinking Water	SM 4500-NO ₂ ⁻ B	Nitrite as N	Accredited	OR
Drinking Water	SM 4500-CN ⁻ E	Total Cyanide	Accredited	OR
Non-Potable Water	EPA 405.1	Biochemical Oxygen Demand (BOD)	Accredited	OR
Drinking Water	EPA 200.9	Selenium	Accredited	OR
Drinking Water	EPA 245.1	Mercury	Accredited	OR
Drinking Water	EPA 200.9	Lead	Accredited	OR
Drinking Water	SM 3111 B	Copper	Accredited	OR
Drinking Water	SM 3113 B	Cadmium	Accredited	OR
Drinking Water	EPA 200.9	Beryllium	Accredited	OR
Drinking Water	EPA 200.9	Arsenic	Accredited	OR
Drinking Water	EPA 200.9	Antimony	Accredited	OR
Non-Potable Water	EPA 180.1	Turbidity	Accredited	OR
Non-Potable Water	SM 9221 E plus C	Fecal coliforms	Accredited	OR
Drinking Water	SM 9215 B (PCA)	Heterotrophic plate count	Accredited	OR
Drinking Water	EPA 300.0	Nitrite as N	Accredited	OR
Drinking Water	SM 4500-NO ₃ ⁻ D	Nitrate as N	Accredited	OR
Drinking Water	EPA 300.0	Nitrate as N	Accredited	OR
Drinking Water	EPA 300.0	Fluoride	Accredited	OR
Drinking Water	SM 4500-CN ⁻ C	Total Cyanide	Accredited	OR

◀ 1 2 3 4 5 ▶

Page size: 20 ▼

99 items in 5 pages

Save to Excel
Remove This Lab FOAs

Each column can be sorted by selecting the header for that column. Each column can also be filtered by entering any part of the record and selecting the search symbol.

Selecting “**Save to Excel**” will generate a CSV file using the filtered data in this table. Once the file has been downloaded, it can be opened in Excel or Access and then sorted and filtered to meet the needs of the user.

Selecting “**Remove This Lab FOAs**” will remove all of your FOAs for this specific lab but will leave all other AB FOAs in place.

If you select a specific FOA, you will be taken to the FOA information page containing information about that specific FOA including the dates it was first created and last updated. It also displays the effective date and the date the FOA will expire.

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Field of Accreditation	Updates										
Matrix Drinking Water	Record Created Feb 23, 2018										
Method EPA 524.2	Record Updated Feb 23, 2018										
Analyte Benzene	Record Effective Apr 17, 2017										
Status Accredited	Record Expires n/a										

GENERIC APPLICATION

TNI developed a generic electronic application for laboratories to use when submitting an application for accreditation by TNI recognized Accreditation Bodies, both primary and secondary. This section enables the ABs interested in allowing application by this method to setup the email for application delivery and note all the items expected to be sent in to complete the application package. It also allows the ABs to manage submitted electronic applications.

Setup

Selecting “**Setup**” displays a page to provide an email and a section for additional information or instructions.

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<div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <h3>TNI LAMS</h3> <p>National Environmental Laboratory Accreditation Management System</p> </div> <div style="width: 35%; text-align: right;">  </div> </div>	
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Select **“Save”** when complete

Applications

Selecting **“Applications”** displays a page to manage completed applications.

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APPLICATIONS FOR ACCREDITATION

App #	Date Submitted	Laboratory
48		City of Portland Water Pollution Control Laboratory
51		City of The Dalles Water Quality Lab
69		City of The Dalles Water Quality Lab
74		City of The Dalles Water Quality Lab
76		Alpha Analytical, Inc.
77		Alpha Analytical, Inc.

Select any application to review or modify its contents.

Laboratory basic information:

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Application #74 - City of The Dalles Water Quality Lab AB: OR

[Download Application](#)

Basic Info
Address
Personnel
FOAs

TNI Laboratory ID	<input type="text" value="TNI00208"/>
Legal Name	<input type="text" value="City of The Dalles Water Quality Lab"/>
EPA Laboratory ID	<input type="text" value="OR00036"/>
FEIN	<input type="text" value="Federal Employer Identificati"/>
Type of Laboratory	<input type="text" value="Commercial"/>
Website	<input type="text"/>
Hours of Operation	<input type="text"/>
Directions to Laboratory	<input type="text"/>

Select “**Download Application**” to produce a copy of the application PDF and CSV files.

Laboratory address information:

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Application #74 - City of The Dalles Water Quality Lab AB: OR

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Basic Info
Address
Personnel
FOAs

Physical Address

Address Line 1:

Address Line 2:

City:

State or Province:

Postal Code:

Country:

Mailing Address Same as Physical

Address Line 1:

Address Line 2:

City:

State or Province:

Postal Code:

Country:

Billing Address Same as Physical

Address Line 1:

Address Line 2:

City:

State or Province:

Postal Code:

Country:

Laboratory personnel:

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Basic Info Address Personnel FOAs

Title	Responsibility	FirstName	LastName	Phone	Fax	Email	PrimaryContact
No records to display.							

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Laboratory Fields of accreditation:

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Application #74 - City of The Dalles Water Quality Lab AB: OR

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Basic Info
Address
Personnel
FOAs

Instructions: This screen displays the FOAs the lab requests to be added to their scope of accreditation.

	Matrix	Method Code	Method	Analyte Code	Analyte
<input type="checkbox"/>	Drinking Water	10008409	EPA 150.1	1900	pH
<input type="checkbox"/>	Drinking Water	20211603	SM 9223 B (Colilert Quanti-Tray)-1997	2525	Escherichia coli (E. coli)
<input type="checkbox"/>	Drinking Water	20211603	SM 9223 B (Colilert Quanti-Tray)-1997	2500	Total coliforms
<input type="checkbox"/>	Drinking Water	20212606	SM 9223 B (Colilert)-1997	2525	Escherichia coli (E. coli)
<input type="checkbox"/>	Drinking Water	20212606	SM 9223 B (Colilert)-1997	2500	Total coliforms
<input type="checkbox"/>	Non-Potable Water	20211603	SM 9223 B (Colilert Quanti-Tray)-1997	2525	Escherichia coli (E. coli)

TNI CODES

Reports

Selecting “**Report**” displays a page of canned reports. As new queries/reports are created, they will be added here.

The screenshot shows the TNI LAMS website interface. At the top, there is a navigation bar with links for 'home', 'contact', and 'TNI website'. The main header area displays 'TNI LAMS National Environmental Laboratory Accreditation Management System' and the logo for 'THE NELAC INSTITUTE'. Below the header, there is a secondary navigation bar with 'Home', 'Search', and 'Help' on the left, and 'danthrax33@msn.com' and 'Logout' on the right. The main content area is titled 'REPORTS' and contains two buttons: 'Lab Demographics' and 'Lab FOAs'. On the left side, there is a sidebar menu with the following sections: 'PROGRAMS' (Accreditation Bodies, AB Admin, Labs), 'GENERIC APPLICATION' (Setup, Applications), 'TNI CODES' (Analytes, Methods, Matrices, Technologies, Reports, Uploads), and 'TNI WEBSITE LINKS' (Home Page, Request Method Code, Request Analyte Code).

Lab Demographics is a report containing all the demographic information for laboratories for which you are listed as the primary AB. It is in the same format as the lab demographics upload file. You could make changes here and use this file to re-upload. Note that occasionally a laboratory might have multiple ABs. LAMS assumes that the AB which performed the basic Quality Assurance system onsite is the AB listed as the Primary AB and is responsible for maintenance of the lab demographics.

Lab FOAs is a report that contains all FOAs for all labs accredited by your program. It is in the same format as the lab FOA upload file. You could make changes here and use this file to re-upload.

Uploads

There are two files that are uploaded here; Primary Laboratory Demographics (name, address, phone, etc.) and laboratory Fields of Accreditation (Primary and Secondary).

NOTE: The upload application expects the first row to be a header and will not accept a file with any empty rows.

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UPLOAD

Lab Demographics
Lab FOAs

Check here to check to perform an error check only; no records will be uploaded.

Primary Laboratory Demographics – Bulk Upload

Create Text (.CSV) file with the following columns in the format specified:

Column	Description	Format
TNI Lab Code	Unique lab code generated by LAMS	8 character alphanumeric text Example: TNI04763
EPA Lab Code	EPA Office of Water lab ID	Alphanumeric text
State ID	Unique state identifier	Alphanumeric text
Lab Name	Laboratory name	Alphanumeric text
Address1	Lab address	Alphanumeric text
Address2	Lab address second line	Alphanumeric text
City	Lab city	Text
State	Lab state	Text 2 digit abbreviation
ZIP	Lab ZIP Code	Standard or expanded
Country	Country location	Text
Phone	Lab Phone	(NNN) NNN-NNNN xNNN
FAX	Lab FAX	(NNN) NNN-NNNN
ContactFirstName	Lab contact person first name	Text
ContactLastName	Lab contact person last name	Text
Contact EMAIL	Contact person email address	Alphanumeric text
Primary AB	Primary AB abbreviation	2 digit state identifier
Commercial Samples	Lab accepts commercial samples	Y or N
Lab_Type	Lab description	Not Specified Federal State Municipal Industrial Commercial Mobile Governmental University Research

If Lab Type was not included in the upload, or if it is blank, the type will default to “Not Specified.” If a value is provided in the csv, but it does not match one of the values listed above, an error will be displayed for that row and that row will not upload.

When laboratories are first loaded or when new laboratories are added, the TNICODE field is left blank and an ID is automatically assigned by LAMS.

NOTE: Anytime a record is uploaded with a **blank** TNICODE, a new lab will be created even if it is a duplication of an existing lab so it is very important that the AB database is updated to reflect the assigned TNICODE.

NOTE: LAMS will accept any format for phone and FAX numbers and will display them exactly as uploaded. For consistency in the database we ask that numbers be formatted as shown above whenever possible.

Select “**Lab Demographics**” tab then click “**Select File**”. Choose the lab demographics .CSV file that you created.

When file has transferred, select “**Process File**” and the process bar will be displayed. The process bar displays percentage complete. At the end of the upload you will get the number of records successfully uploaded and the number of errors (records not uploaded). If there are errors during upload, the records with errors are skipped but the rest are uploaded.

If you select, “**Check here to perform an error check only; no records will be uploaded**” and the follow the same upload process as above an error report will be generated but none of the data will be uploaded. This gives the AB an opportunity to correct the file before upload.

Primary Laboratory Demographics – Create New Lab

Login and select “**Labs**” from the navigation column on the left. Select “**Add a lab**” at the bottom of the page and you will be taken to the ADD NEW LAB page:

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ADD NEW LAB

Basic Details

Name

Type of Lab

EPA Code

State ID

Website

Extended Details

GIS Location

Description

Comments

Effective Date 

Commercial Samples

Fill in details and select “**Create**”. A new TNI lab code will be assigned and new lab record created. Be sure to update your records with this code.

Primary Laboratory Demographics – Manual Edit

Login and select “**Labs**” from the navigation column on the left.

NOTE: When you are logged in as an AB, only the labs for which you are identified as responsible for demographics will be listed (default “active”). If you are interested in modifying an inactive lab be sure to select “**Inactive**” or “**All**”.

If a lab has primary accreditation through your program but is not listed here it is likely listed with another Primary AB. Use the search function to find the lab and look up its Primary AB. If you believe that you should be the AB responsible for the demographics, work it out with the other AB and make any appropriate changes.

Filter by Lab Code, Name (or partial name), EPA ID, State ID or page through entries and select lab. That will bring up the lab information page. Select “**Edit**” at the bottom of the page and make changes. You can also add other address types such as mailing, billing or owner by selecting “**Add Address**”. When you are finished be sure to press “**Save**”

Laboratory Fields of Accreditation (FOA) – Bulk Upload

Create a Text (.CSV) file with the following columns:

Column	Description
TNILabCode	Unique TNI Lab Code (assigned by LAMS)
Matrix	A DW NPW S BT
MethodCode	TNI Method Code
AnalyteCode	TNI Analyte Code
MaxDate	Beginning date of current status (dd-mmm-yy)
Status	Status: ACC SUS NOT
Type	Accreditation type P or S
Expiration Date	FOA expiration date (dd-mmm-yy)

For matrix, LAMS just needs the matrix code (basically an abbreviation) but it must match or you will get an error.

For status, LAMS only tracks 3 status types: Accredited (ACC), Suspended (SUS), and Not Accredited (NOT). Any status that is neither accredited nor suspended should be listed as not accredited (things like “withdrawn” or “retired”, for example). However, we are requesting that ABs only enter ACC or SUS at this time.



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UPLOAD

Lab Demographics

Lab FOAs

Check here to remove all of your FOAs from LAMS prior to processing your upload file.
 Check here to check to perform an error check only; no records will be uploaded.

Select “**LAB FOAs**” tab.

This upload procedure will upload any number of Lab FOAs. You can load 1 lab, 2 labs, 20 labs, or all your labs and all their FOAs. As the file is processed, all the FOAs for a particular lab are deleted as soon as the TNI Lab Code is first read. That allows for a clean copy of each lab’s FOAs. If a lab is no longer accredited, the system will not find a TNI Lab Code in the file and fail to delete the FOAs. When you are loading a complete FOA file (all labs and all FOAs) check the box “**Check here to remove all of your FOAs prior to processing your upload file**”. The complete list of FOAs for all your labs will be deleted and then only the FOAs in the current file will be left in the database.

NOTE: Do not use this process to load partial FOAs. For example, if you load primary accreditations for a lab and then upload secondary accreditations for the same lab, all primary accreditations will be deleted and only secondary accreditations will be listed.

Press “**Select File**”. Choose the lab FOA .CSV file that you created.

Select "**Process File**" and the process bar will be displayed. The process bar displays percentage complete. At the end of the upload you will get the number of records successfully uploaded and the number of errors (records not uploaded). If there are errors during upload, the records with errors are skipped and the rest are uploaded.

Any errors that occur during the upload process will be reported and those records will not be uploaded, however, all other records will be uploaded. So if you were uploading 30,000 FOA records and had 7 records with errors, 29,993 records would make it into LAMS. At that point you can manually fix the errors in LAMS or fix the errors in the CSV file and repeat the upload process.

NOTE: *The most common errors are caused by:*

- *bad or missing analyte or method codes*
- *nonexistent or misspelled matrix codes or status codes*
- *not using correct date format (DD-MMM-YYYY)*

NOTE: *Another common error is not selecting the proper information type tab.*

Routine Data Maintenance by Accreditation Body

Regular Upload of Laboratory Demographics and FOAs

The most recent upload dates are stored with the lab demographics information and with the individual FOA records. These dates need to be recent in order to give assurance that the data is current and up-to-date. The best solution is to extract data from the AB database on a regular basis and perform a complete upload. If no changes are required, the .CSV file could be saved and reloaded on a regular basis. This ensures that the data is refreshed (eliminating concerns of data corruption, accidental deletion, or accidental modification).

Demographic uploads and FOA uploads should be performed whenever changes are made or according to the schedule adopted by the Accreditation Body Council. When queries from the AB database are complicated or resource intensive a good solution would be to save the .CSV file and make changes there. LAMS could then be updated by reloading this file.

Laboratory List Maintenance

In order to take a laboratory off the list when it leaves the program, it is necessary to manually change the laboratory to **“inactive”**. If the laboratory is staying in the program but changing to another AB, manually change the primary AB listed. If you are not sure of the new AB, set it to blank (the first on the list).

Reviewing the lab list

On a regular basis (2 or 3 times per year), select **“report”** from the left navigation panel and download a demographics file by selecting **“Lab Demographics”**. Open the file in Excel and compare it to your current list of primary labs. Make changes as necessary keeping in mind that a lab must be set to inactive manually.

Manual Deletion of FOAs

Occasionally it might be necessary to delete all your AB's FOAs from a single lab rather than uploading a complete FOA file for all labs. In this case, select **“Labs”** from the left navigation column (displays labs holding primary or secondary accreditation from you) and select the specific lab. Select **“Go to Fields of Accreditation”** and then select **“Remove this Lab FOAs”**. All your AB FOAs for this specific lab will be removed but leave any others in place.

Database Tables

DATABASE: lams_production

ab_recognitions Table

Field	Purpose	Type
id	Primary key	integer
AB_id	Foreign key to accreditation_bodies table	integer
Technology_id	Foreign key to technologies table	integer
Matrix_id	Foreign key to matrices table	integer
Active	Active/Inactive	boolean
created_at	Record first created	date/time
updated_at	Record last updated	date/time

ab_statuses table

Field	Purpose	Type
id	Primary key	integer
Status	AB current status	string(255)
created_at	Record first created	date/time
updated_at	Record last updated	date/time

accreditation_bodies table

Field	Purpose	Type
id	Primary key	integer
Code	AB Abbreviation	string(255)
EPARegion	EPA region	integer
TimeZone	Time Zone	string(255)
Status_id	Foreign key to ab_statuses table	integer
StatusDate	Date of last status change	date
OutOfStateAccreditation	AB offers out of state accreditation	boolean
InStateFee	AB fee instate	boolean
OutStateFee	AB fee out of state	boolean
Name	AB name	string(255)
Street1	Street address	string(255)
Street2	Street address (cont)	string(255)
City	City	string(100)
State_id	Foreign key to states table	integer
County_id	Foreign key to counties table	integer
Zip	Zip code	string(12)
POBox	PO Box number	string(25)
POBoxZip	PO Box Zip code	string(12)
Phone	AB phone number	string(25)
Fax	AB FAX number	string(25)
Email	AB contact email	string(255)
URL	AB webpage	string(255)
created_at	Record first created	date/time
updated_at	Record last updated	date/time

analytes table

Field	Purpose	Type
id	Primary key	integer
AnalyteCode	TNI assigned analyte code	integer
Analyte	Analyte name	string(255)
CasNumber	CAS number	string(20)
Type_id	Foreign key to analyte_types table	integer
created_at	Record first created	date/time
updated_at	Record last updated	date/time
active	Active/Inactive	boolean

analyte_types table

Field	Purpose	Type
id	Primary key	integer
AnalyteType	Analyte type	string(255)
created_at	Record first created	date/time
updated_at	Record last updated	date/time

counties table

Field	Purpose	Type
id	Primary key	integer
State_id	Foreign key to states table	integer
County	County name	string(100)

labs table

Field	Purpose	Type
id	Primary key	integer
TNILabCode	TNI assigned = TNI + 5 digits	string(15)
EPA_Code	EPA Office of Water code	string(20)
StateID	State assigned laboratory code	string(20)
Name	Laboratory name	string(255)
Description	Laboratory type	text
PrimaryAB_id	Foreign key to accreditation_bodies table	integer
SecondaryAB_id	Foreign key to accreditation_bodies table	integer
Website	Laboratory website	string(255)
Comments	AB comments about laboratory	text
LabType_id	Foreign key to lab_types_table	integer
GISLocation	GIS laboratory coordinates	string(255)
EffectiveDate	reserved	date
AcceptCommercialSamples	Laboratory accepts commercial samples	boolean
Active	Active/Inactive	boolean
created_at	Record first created	date/time
updated_at	Record last updated	date/time

lab_accreditations table

Field	Purpose	Type
id	Primary key	integer
Lab_id	Foreign key to labs table	integer
Matrix_id	Foreign key to matrices table	integer
Method_id	Foreign key to test_methods table	integer
Analyte_id	Foreign key to analytes table	integer
AccreditationBody_id	Foreign key to accreditation_bodies table	integer
AccreditationBodyType	Primary/Secondary	string(15)
Status_id	Foreign key to statuses table	integer
EffectiveDate	Date FOA became effective	date
created_at	Record first created	date/time
updated_at	Record last updated	date/time
Active	Active/Inactive	boolean
ExpireDate	Date FOA expires	date

lab_addresses table

Field	Purpose	Type
id	Primary key	integer
Lab_id	Foreign key to labs table	integer
LabAddressType_id	Foreign key to lab_address_types table	integer
CompanyName	Laboratory owner	string(255)
ContactName	Designated laboratory contact	string(255)
Address1	Address	string(255)
Address2	Address (cont)	string(255)
City	City	string(100)
State_id	Foreign key to states table	integer
Zip	Zip code	string(12)
Phone	Laboratory phone number	string(25)
Fax	Laboratory FAX number	string(25)
Email	Contact email	string(255)
created_at	Record first created	date/time
updated_at	Record last updated	date/time
ContactNameFirst	Contact First Name	Text
ContactNameLast	Contact Last Name	Text
Country	Country location	Text

lab_address_types table

Field	Purpose	Type
id	Primary key	integer
AddressType	Location, mailing, etc	string(255)

lab_statuses table

Field	Purpose	Type
id	Primary key	integer
Status	Laboratory status	string(255)

lab_types table

Field	Purpose	Type
id	Primary key	integer
Type	Federal, state, municipal, etc	string(255)

matrices table

Field	Purpose	Type
id	Primary key	integer
Matrix	Matrix name	string(50)
MatrixAbbrev	Matrix abbreviation	string(5)
Code	Upload code for FOA	String(5)

programs table

Field	Purpose	Type
id	Primary key	integer
Program	Program abbreviation	string(10)
ProgramName	Program name	string(100)

scientific_disciplines table

Field	Purpose	Type
id	Primary key	integer
Discipline	Discipline name	string(255)
created_at	Record first created	date/time
updated_at	Record last updated	date/time

secret_questions table

Field	Purpose	Type
id	Primary key	integer
Question	Security question	string(255)

states table

Field	Purpose	Type
id	Primary key	integer
state	State name	string(100)
stateab	State abbreviation	string(4)

statuses table

Field	Purpose	Type
id	Primary key	integer
Status	FOA status	string(255)
Code	FOA status code	String(5)

technologies table

Field	Purpose	Type
id	Primary key	integer
Name	Technology abbreviation	string(50)
Description	Complete technology name	string(255)
ScientificDiscipline_id	Foreign key to scientific_disciplines table	integer
created_at	Record first created	date/time
updated_at	Record last updated	date/time
active	Active/Inactive	boolean

test_methods table

Field	Purpose	Type
id	Primary key	integer
Code	TNI assigned method code	string(50)
Name	Method name	string(255)
ShortName	Method reference (i.e. EPA 524.2)	string(255)
Description	Official method title	string(255)
Revision	Method revision	string(10)
RevisionDate	Method revision date	date
Citation	Method citation	string(255)
Technology_id	Foreign key to technologies table	integer
active	Active/Inactive	boolean
created_at	Record first created	date/time
updated_at	Record last updated	date/time
method_source	Source for method	text
appr_p136	Approved under 40 CFR Part 136	boolean
appr_p141	Approved under 40 CFR Part 141	boolean
last_update	Record last updated	date/time
pdf_url	Link to method PDF	text
sw846_up3	Contained in SW-846 update III	boolean
sw846_up4	Contained in SW-846 update IV	boolean
sw846_up5	Contained in SW-846 update V	boolean

uploads table

Field	Purpose	Type
id	Primary key	integer
User_id	Foreign key to users table	integer
MimeType	File type identifier	string(255)
Filename	Upload filename	string(255)
Type	Upload type	string(255)
Status	Reserved	string(255)
created_at	Record first created	date/time
updated_at	Record last updated	date/time

users table

Field	Purpose	Type
id	Primary key	integer
UserType_id	Foreign key to user_types table	integer
Lab_id	Foreign key to labs table	integer
accreditation_body_id	Foreign key to accreditation_bodies table	integer
FirstName	First name	string(50)
MiddleName	Middle name	string(50)
LastName	Last name	string(50)
UserID	TNI assigned user ID	string(50)
HashedPassword	Encrypted password	string(255)
JobTitle	User job title	string(255)
Organization	User organization	string(255)
Address1	User address	string(255)
Address2	User address (cont)	string(255)
City	City	string(100)
State	Foreign key to states table	integer
Zip	Zip code	string(12)
County	Foreign key to counties table	integer
Phone	User phone number	string(25)
Fax	User FAX	string(25)
Email	User email	string(255)
AreasOfResponsibility	User area of responsibility	string(255)
Education	User education	string(255)
ExperienceLevel	User experience	string(255)
LastTraining	Date of last pertinent training	date/time
SignAccredCerts	Ability to sign laboratory accreditation documents	boolean
SecretQuestion	Secret security question	string(255)
HashedAnswer	Encrypted answer	string(255)
Salt		string(255)
Active	Active/Inactive	boolean
created_at	Record first created	date/time
updated_at	Record last updated	date/time

user_types table

Field	Purpose	Type
id	Primary key	integer
Key		integer
Type	User type	string(255)
Display	Display selection	boolean