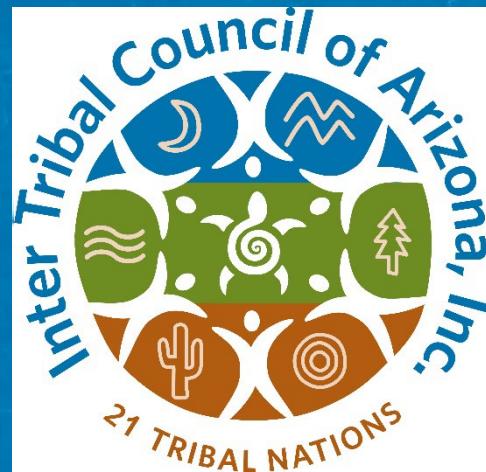


TESTING DRINKING WATER FOR LEAD AT TRIBAL SCHOOLS AND CHILD CARE FACILITIES



**Regional Tribal Operators Committee Meeting
Camp Verde, Arizona , July 29, 2022**

**Update Report by Diella Packman
School Lead Reduction Project Manager
& Audrey Tso
School Lead Reduction Project Coordinator**

Funding by Environmental Protection Agency



Lead Exposure



Sources of Lead Exposure

Sources of lead exposure include the lead industry, lead-based paint (e.g., paint chips or dust), lead in water, lead in the air, lead in soil, and lead in consumer products and food.



Lead-based paint



In the air



In the soil



Lead Industry



In consumer products



In water



Lead is a metal that occurs naturally in the earth's crust. The softness, malleability, low melting point, resistance to corrosion (making it ideal for water pipes), low cost and easy workability has made lead a very useful metal.

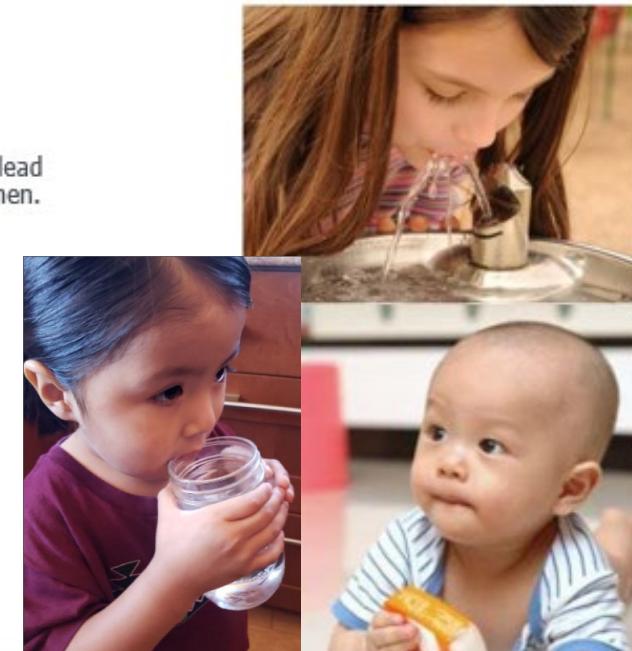




Health Effects of Lead

Health Effects of Lead

- There is no safe level of lead.
- Young children are especially susceptible to lead exposure.
- Pregnant and nursing staff should also be aware of the harmful risks of lead exposure to nursing infants and the developing fetuses of pregnant women.
- Even low blood levels of lead in children have been associated with:
 - Reduced IQ and attention span
 - Learning disabilities
 - Poor classroom performance
 - Hyperactivity
 - Behavioral problems
 - Impaired growth and hearing loss





Federal Lead Regulations

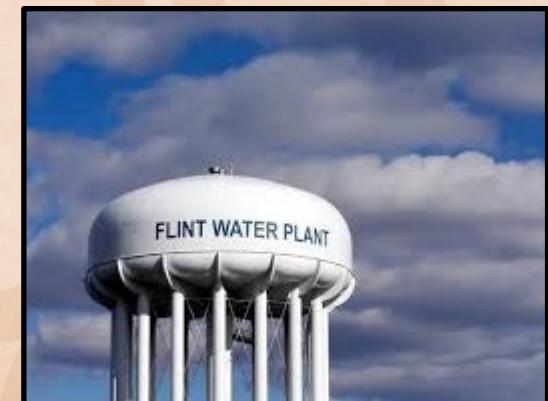
How Lead in Drinking Water is Regulated

The Lead Ban (1986): A requirement that only “lead-free” materials used in new plumbing and in plumbing repairs.

The Lead Contamination Control Act (LCCA) (1988): The LCCA aimed at the identification and reduction of lead in drinking water at schools and child care facilities, including the recall of drinking water coolers with lead lined tanks.

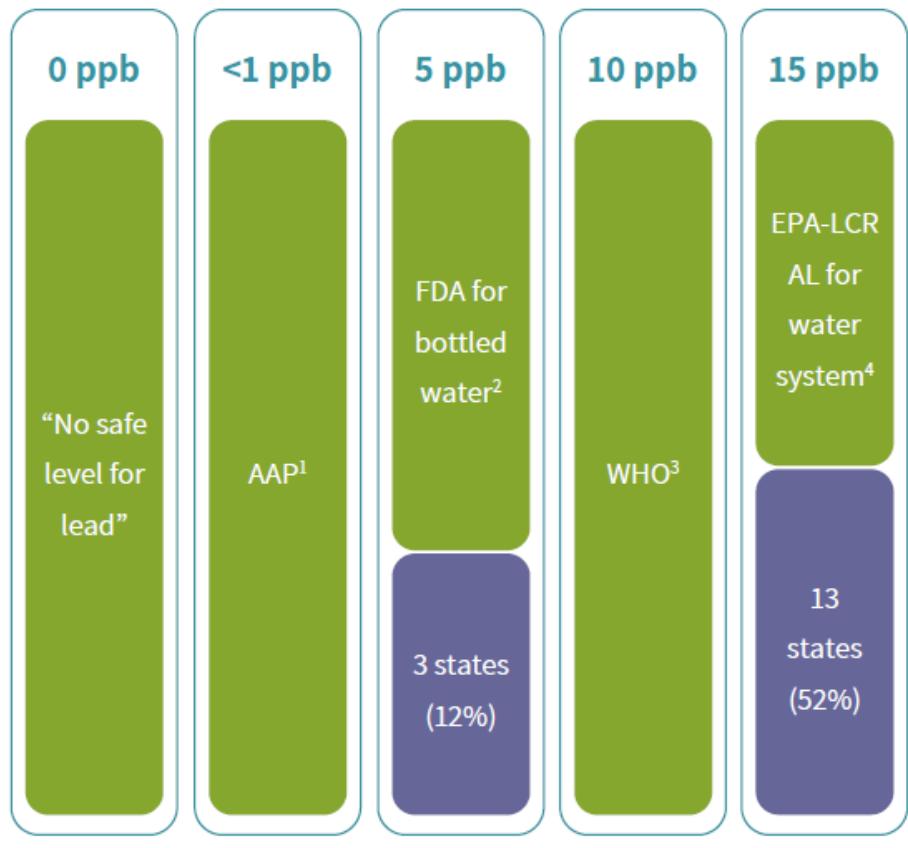
The Lead and Copper Rule (1991): A regulation by EPA to control the amount of lead and copper in water supplied by public water systems.

The Reduction Of Lead In Drinking Water Act (2011): This act further reduces lead and redefines “lead-free” under the Safe Drinking Water Act (SDWA).



REVISED Lead & Copper Rule

Figure 3: Variation in allowable or recommended maximum concentration levels of lead in drinking water



■ Findings from Early Adopters study

■ Other standards for lead in drinking water (sources below)

Action Levels for Public Water Systems, as enforced by primacy agencies in ITCA Project Area:

Navajo Nation- 15 ppb

EPA- 15 ppb

Arizona- 15 ppb

California- 15 ppb

New Mexico- 15 ppb

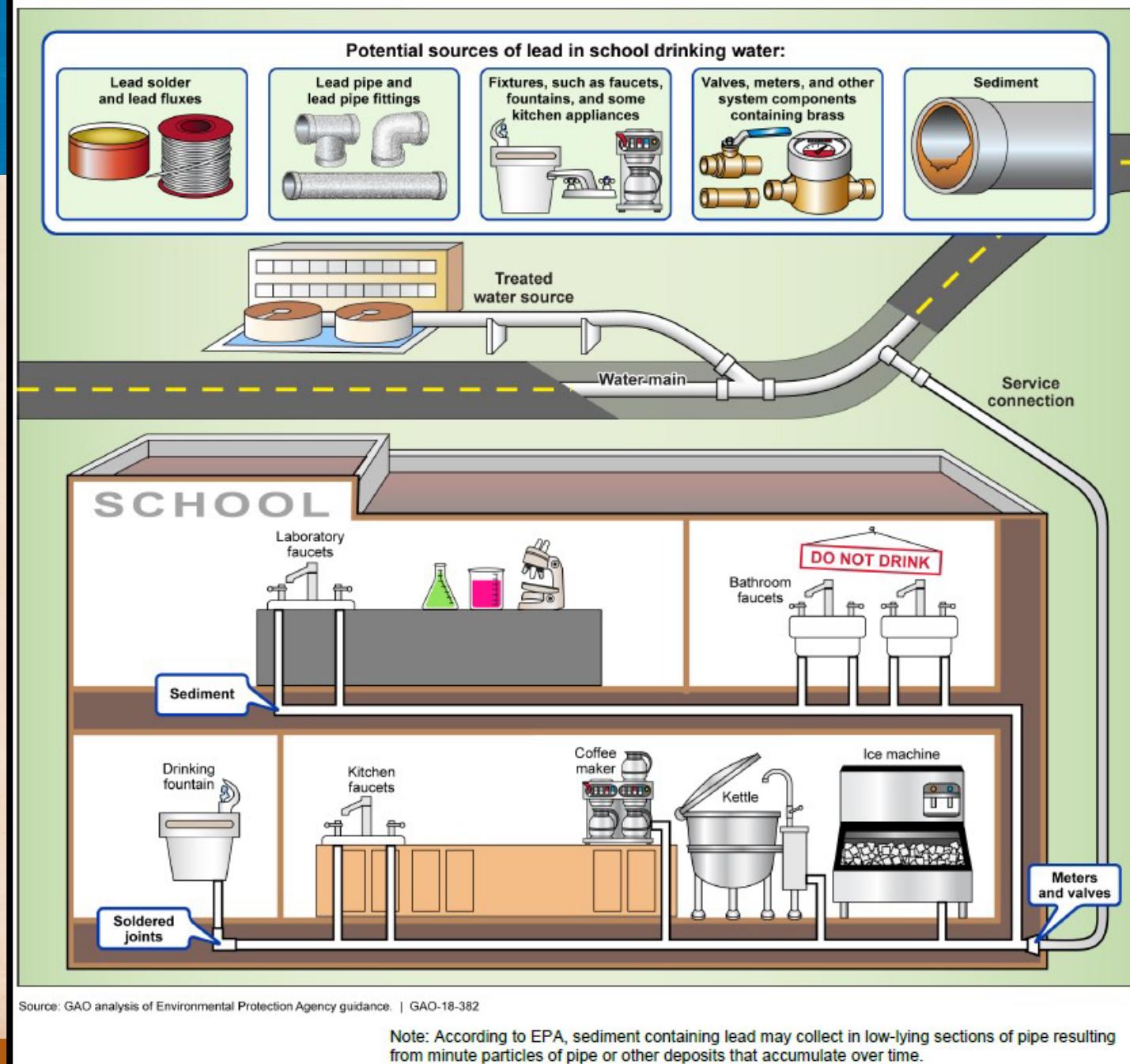
Nevada- 15 ppb

¹American Academy of Pediatrics (AAP) COUNCIL ON ENVIRONMENTAL HEALTH. Prevention of Childhood Lead Toxicity. Pediatrics. 2016;138(1):e20161493. AAP available at <http://pediatrics.aappublications.org/content/pediatrics/138/1/e20161493.full.pdf>

²Food and Drug Administration (FDA) 21 CFR § 165.110. Subpart B- Requirements for Specific Standardized Beverages (CFR 2016)



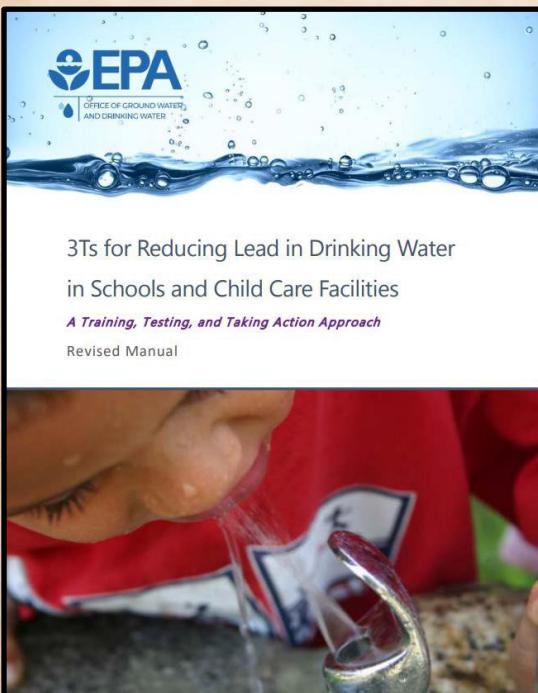
Figure 1: Water Is Treated Before Reaching a School but Can Interact with Fixtures That Contain Lead in the Building





The 3Ts

Revised 3Ts for Reducing Lead in Drinking Water in Schools and Child Care Facilities



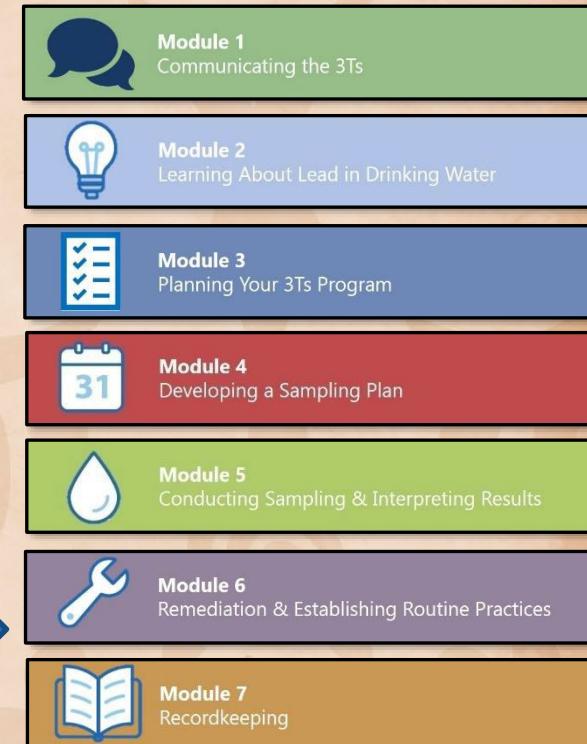
- **Training** school and child care officials to raise awareness of the 3Ts program and summarize the potential causes and health effects of lead in drinking water.
- **Testing** drinking water in schools and child care facilities to identify potential lead problems.
- **Taking action** to reduce lead in drinking water.



New 3Ts Manual



3Ts 7-Module Toolkit





Grants for Lead Testing in Schools & Child Care Centers

Lead Testing in School And Child Care Program Drinking Water Grant Program

– 2016 WIIN Act §2107 amended SDWA §1464(d)

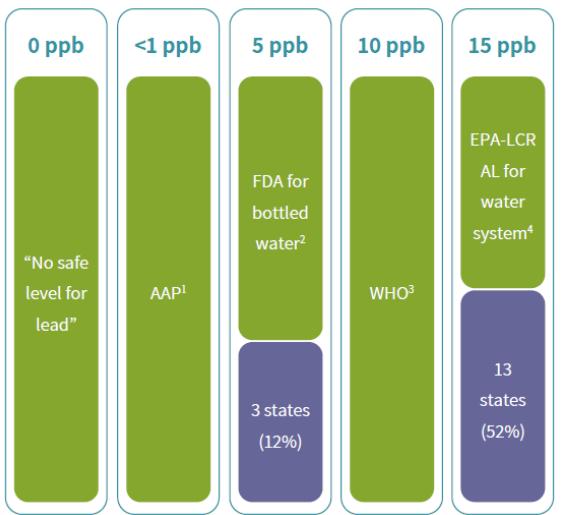
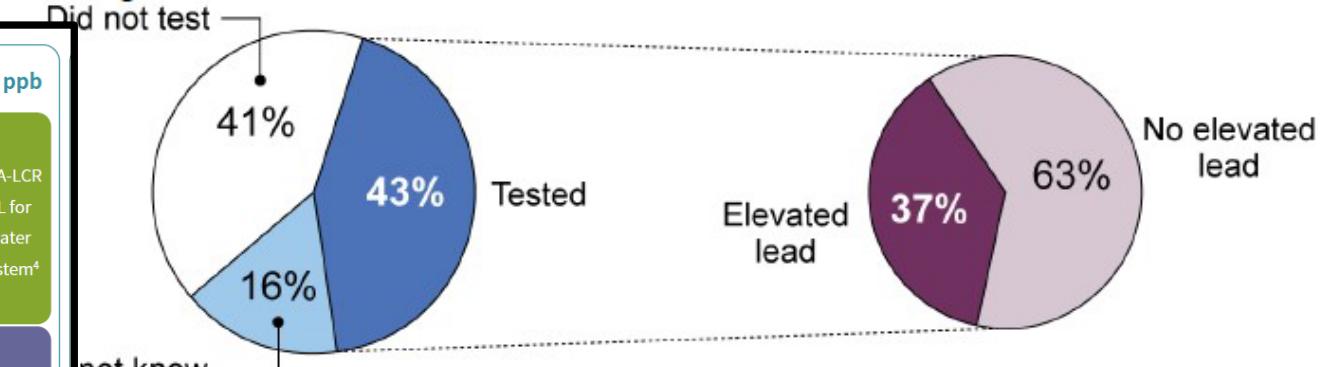


- All 50 states and DC, Puerto Rico, US Virgin Islands, and American Samoa are participating
 - Approximately \$69.7 million in funding → Grants to states, 3rd round in 2021
 - The tribal allotment - \$4.3 million → 1st grants in late 2021
- The goals of this program include:
 - Reducing children exposure to lead in drinking water
 - Utilize the 3Ts model or model no less stringent to establish best practices
 - Enhance community, parent, and teacher cooperation and trust
 - Develop strategies to provide funding for schools unable to pay for remediation

What GAO Found

An estimated 43 percent of school districts, serving 35 million students, tested for lead in school drinking water in 2016 or 2017, according to GAO's nationwide survey of school districts. An estimated 41 percent of school districts, serving 12 million students, had not tested for lead. GAO's survey showed that, among school districts that did test, an estimated 37 percent found elevated lead (lead at levels above their selected threshold for taking remedial action.) (See figure.) All school districts that found elevated lead in drinking water reported taking steps to reduce or eliminate exposure to lead, including replacing water fountains, installing filters or new fixtures, or providing bottled water.

Estimated Percentage of Public School Districts Reporting Lead Testing and Results for Drinking Water



1. American Academy of Pediatrics. 2. U.S. Food and Drug Administration. 3. World Health Organization. 4. U.S. Environmental Protection Agency's Lead and Copper Rule.

Source: GAO survey of public school districts. | GAO-18-382

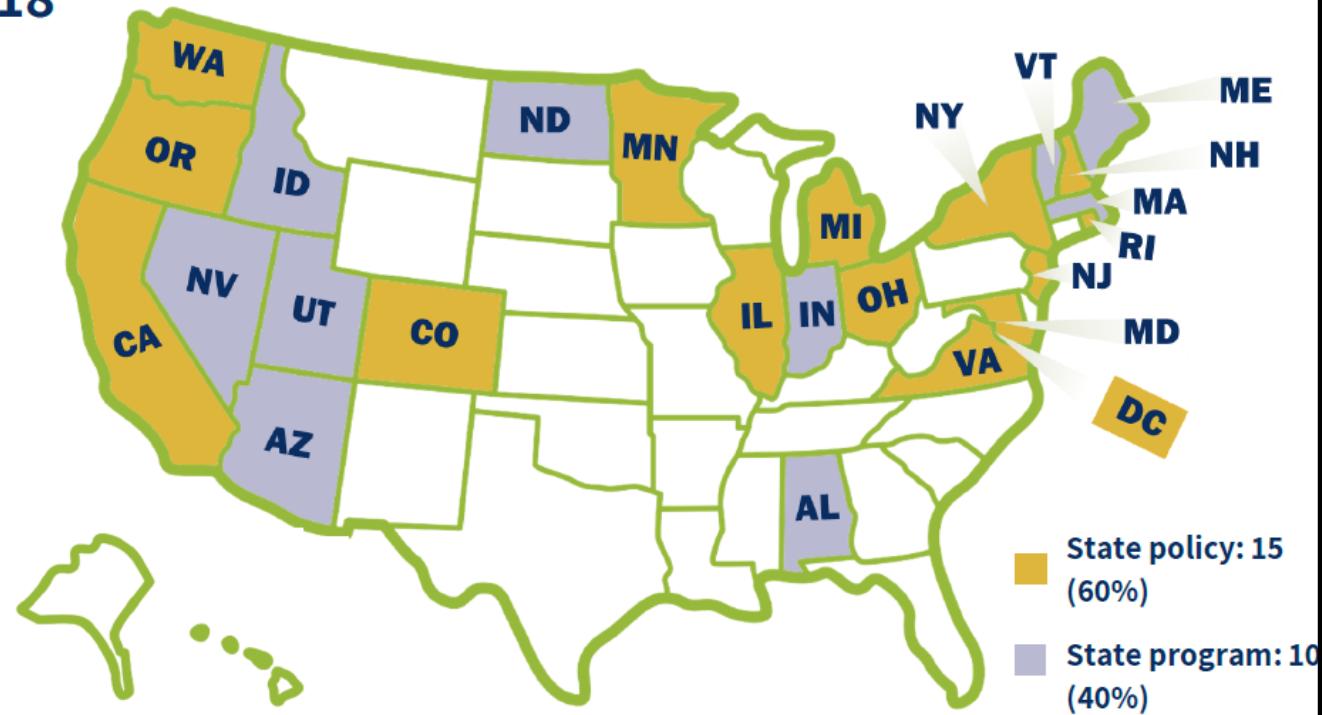


States with School Drinking Water Lead Testing Programs

Figure 1: States with school drinking water lead testing programs as of February 2018

Program: an effort initiated by a state agency or department pursuant to an existing directive or grant of authority

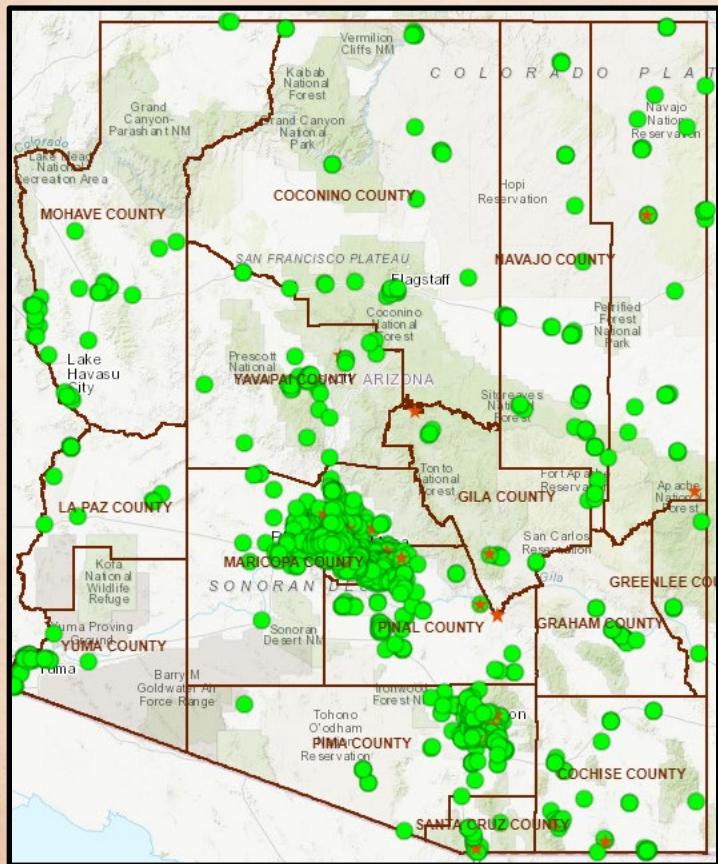
Policy: a mechanism to establish a program via state statute, executive order, or funding appropriation





Water Quality in My Community

- Surface Water | [View Map >](#) | [Learn More >](#)
 - Fish Consumption Advisories | [Learn More >](#)
 - Remediation Sites | [Learn More >](#)
- Groundwater and Water Reuse | [View Map >](#)
- Drinking Water | [View Map >](#) | [View Public Notice Listing >](#)
 - Drinking Water Fixture Testing in Public Schools | [View Results >](#)

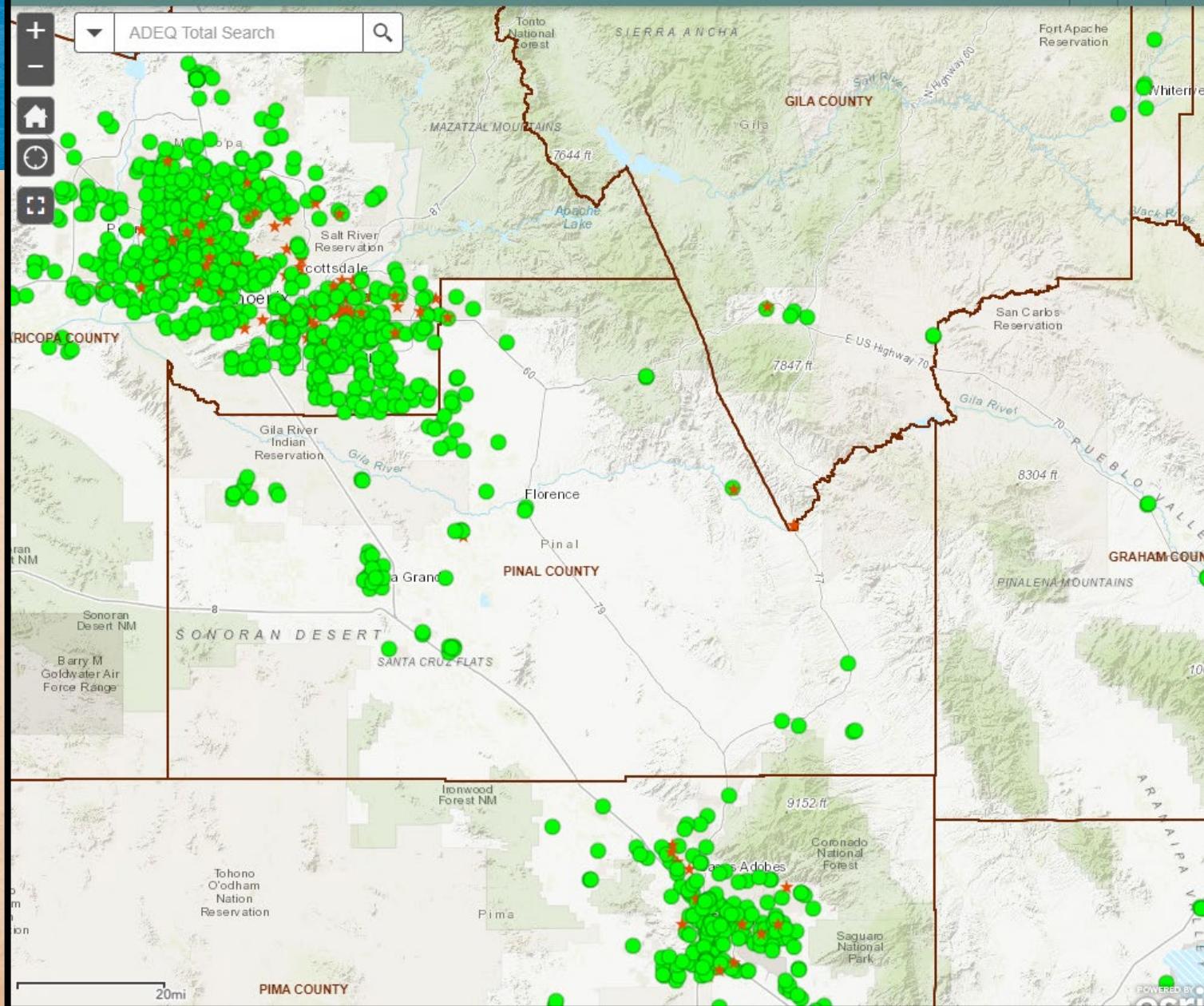


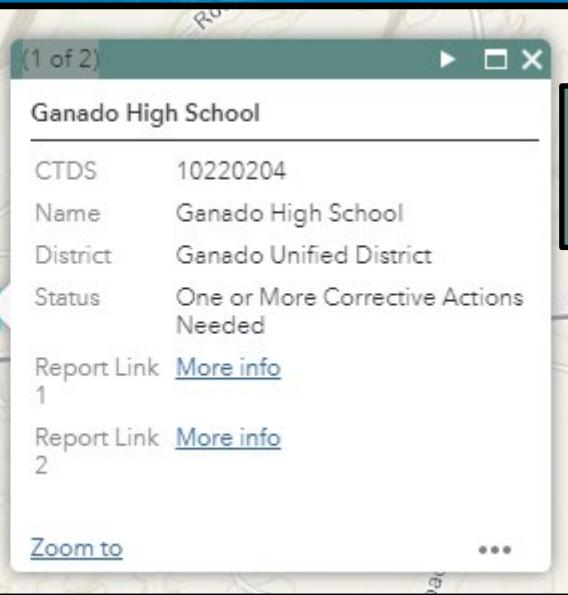
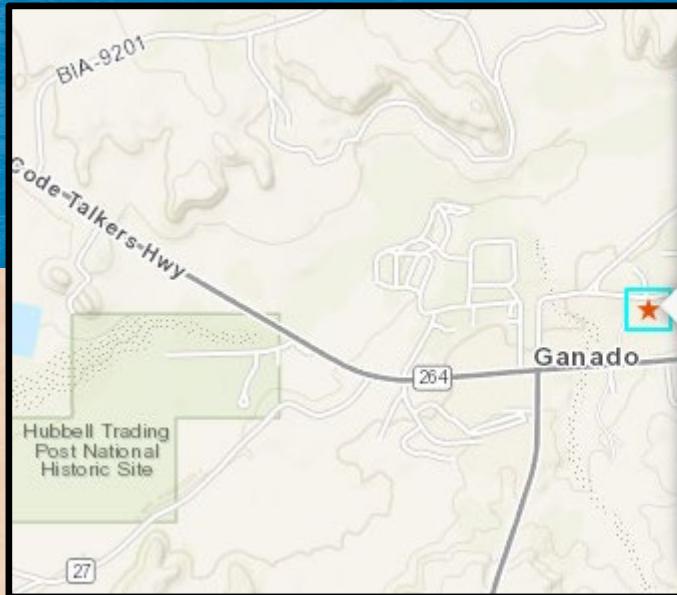
S-Z | School District Listing

Revised on: December 11, 2017 - 11:13am

S-Z

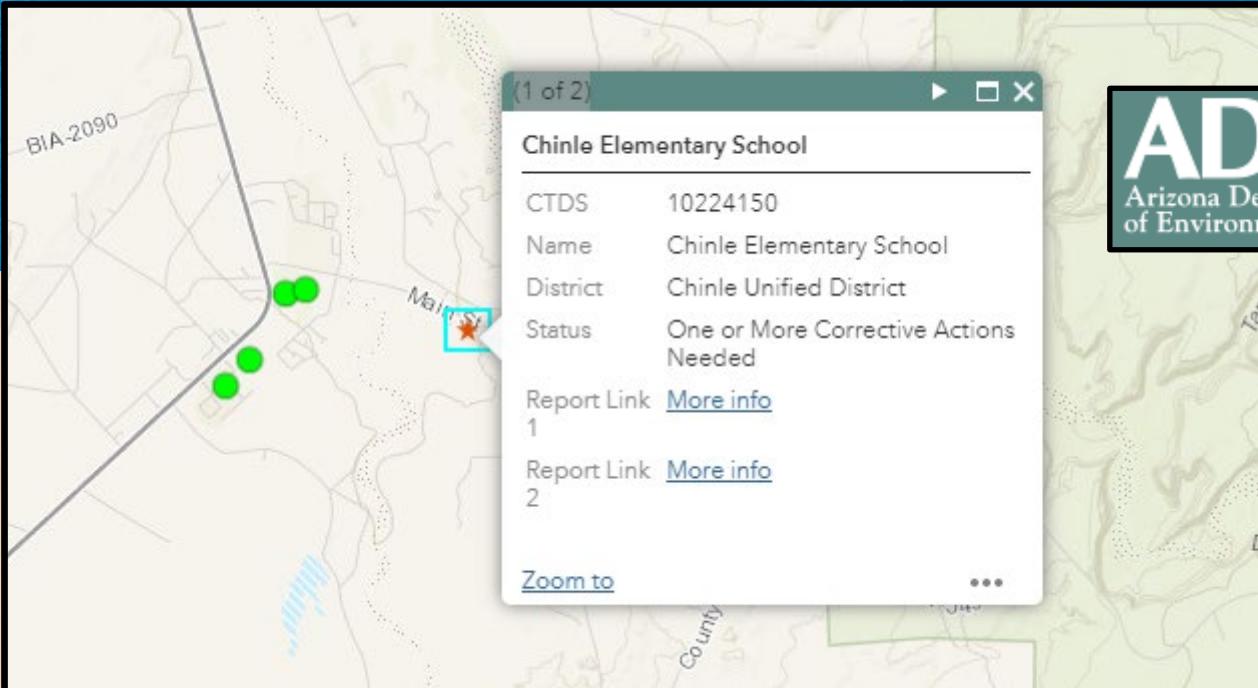
- Sacaton Elementary District | [View Schools >](#)
- Saddle Mountain Unified District | [View Schools >](#)
- Safford Unified District | [View Schools >](#)
- Sahuarita Unified District | [View Schools >](#)
- Salome Consolidated Elementary District | [View Schools >](#)
- San Carlos Unified District | [View Schools >](#)
- San Fernando Elementary District | [View Schools >](#)
- San Simon Unified District | [View Schools >](#)





Downloads > 10220204 (1)

Name	Type	Compressed size	Password ...
Ganado High School Aquatic Conf...	Microsoft Excel Comma S...	1 KB	No
Ganado High School Aquatic Conf...	Adobe Acrobat Document	1,811 KB	No
Ganado High School Aquatic Conf...	Adobe Acrobat Document	63 KB	No
Ganado High School Confirmation...	Adobe Acrobat Document	1,810 KB	No
Ganado High School Confirmation...	Microsoft Excel 97-2003 ...	8 KB	No
Ganado High School Confirmation...	Adobe Acrobat Document	64 KB	No
Ganado High School_IN_ack	Adobe Acrobat Document	68 KB	No
Ganado High School_IN_Lab Result...	Microsoft Excel 97-2003 ...	8 KB	No
Ganado High School_IN_Lab Result...	Adobe Acrobat Document	7,390 KB	No



Downloads > 10224150				
	Name	Type	Compressed size	Password ...
	A Chinle Elementary School Confirmation ack	Adobe Acrobat Document	70 KB	No
	A Chinle Elementary School Confirmation Lab Results_7-6-2017	Adobe Acrobat Document	2,152 KB	No
	E Chinle Elementary School Confirmation Lab Results_7-6-2017	Microsoft Excel 97-2003 ...	9 KB	No
	A Chinle Elementary School_IN_ack	Adobe Acrobat Document	64 KB	No
	E Chinle Elementary School_IN_Lab Results_6-15-2017 (1)	Microsoft Excel 97-2003 ...	7 KB	No
	A Chinle Elementary School_IN_Lab Results_6-15-2017 (2)	Adobe Acrobat Document	2,926 KB	No



Arizona's Public School Drinking Water Lead Screening Program

A proactive effort to protect the health and safety of Arizona school children

December 2017 Report



Overview

16,125 samples from **14,782** fixtures in **11,585** buildings in **1,427** schools

180 school districts with the help of **14** analytical labs and **6** city partners

Sampling

ADEQ and its partners collected 16,125 samples from 14,782 fixtures at all public school district schools, taking immediate corrective actions and retesting fixtures in buildings that tested higher than the screening level.



Results

96% of all fixtures screened were found to be protective and required no action.

Arizona has been proactive in testing school and childcare facilities for lead in drinking water. In 2016, the Arizona Department of Environmental Quality tested 1,427 schools, and in 2017, ADHS tested 1,055 licensed childcare facilities for lead in drinking water. This work has been integrated with ADHS's larger Childhood Lead Poisoning Prevention Program, which includes funding from the U.S. Centers for Disease Control and others.

For Immediate Release: May 12, 2020

Media Contact: Denise Adamic, 415-972-3061, adamic.denise@epa.gov

U.S. EPA Awards Arizona \$621,991 in Funding to Test for Lead in School Drinking Water



Child Care Facility Drinking Water Screening Program

[ADHS Home](#) / [Public Health Licensing Services](#) / [Child Care Facilities Licensing](#) / [Child Care Facility Drinking Water Screening Program](#)

[Home](#)

Locations Sampled

Locations Sampled[Parents](#)[Child Care Providers](#)[FAQs](#)[Contact Us](#)

We are actively testing samples from licensed childcare facilities throughout our state. Facilities that have been tested and the results of these tests will be added below. For info on all licensed facilities in our state and the results of inspections at those facilities, visit [AZCareCheck](#).

Show 10 entries

Search:

Child Care Facility Name	ID	Address	City	State	Zip Code	Sample Collection Date*	Results above screening level (15 ppb) (Yes/No)
5TH PLACE COMMUNITY CHILDCARE	CDC14548	306 WEST 5TH PLACE	MESA	AZ	85201	9/27/2017	No
A B C PRESCHOOL	CDC11150	6311 SOUTH RURAL ROAD	TEMPE	AZ	85283	1/25/2018	No
A DREAM COME TRUE PRESCHOOL	CDC12527	6163 SOUTH MIDVALE PARK	TUCSON	AZ	85746	8/1/2018	No



Examples of Challenges

Tampa Bay Times

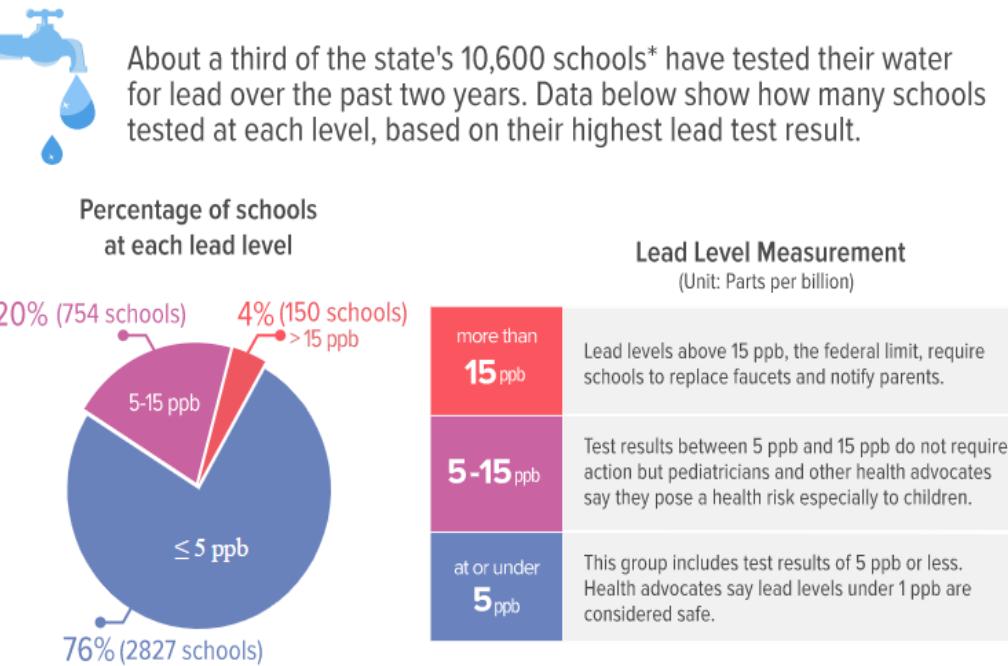
The Hillsborough School District found lead in its water. It didn't tell parents for a year.

By COREY G. JOHNSON, MARLENE SOKOL and ELI MURRAY

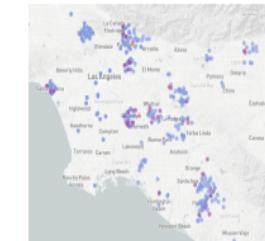
Photos by BRONTE WITTPENN | Times staff

Aug. 9, 2018

About a third of the state's 10,600 schools* have tested their water for lead over the past two years. Data below show how many schools tested at each level, based on their highest lead test result.



Tainted Taps: Lead Puts California Students at Risk



Interactive Map: Lead levels found in California schools' drinking water

Sierra (Dolores) Academy Palo Alto, Ca	16.00000	16.00000
McDowell High Ojai, Ca	4.00000	4.00000
Chase W. Thrasher La Jolla, Ca	4.00000	4.00000
Marshall J. Tolman Elementary Huntington Park, Ca	20.00000	20.00000
International Academy of the Pacific High San Francisco, Ca	16.00000	16.00000
Academy High Bellevue, Wa	3.00000	3.00000
Alta Loma Catholic High Programme Academy Los Angeles, Ca	6.00000	6.00000
Our Lady of the Angels School San Francisco, Ca	10.00000	10.00000
Cathedral Catholic High School San Diego, Ca	10.00000	10.00000
Carondelet High School San Francisco, Ca	13.00000	13.00000

Search lead test results in California school water



EPA Tribal Grant Program Started in 2021

Grantees will develop or expand existing programs to provide technical assistance to eligible Tribal Education Agencies (TEAs) to test for lead contamination in drinking water.

- Public schools on tribal land
- Head Start Centers
- Other schools on tribal land
- Child Care facilities on tribal land

2-year project implementation

- Outreach to support TEAs to assess lead levels
- Provide technical assistance to TEAs to support 3Ts program implementation
- Support sampling procedures
- Provide resources to communicate results to enhance community, parent, teacher trust





The ITCA Lead Testing Project



FOR IMMEDIATE RELEASE
DECEMBER 3, 2021

CONTACT: MARIA DADGAR
(602) 258-4822

Inter Tribal Council of Arizona Receives EPA Grant to Help Tribal Communities Protect Children from Lead in Drinking Water

Phoenix, Arizona – December 3, 2021 – The Inter Tribal Council of Arizona, Inc. (ITCA), a consortium of 21 federally recognized Indian Tribes in Arizona, recently received a \$1,581,000 grant from the U.S. Environmental Protection Agency (EPA) to help protect children by identifying sources of lead in drinking water in schools or child care facilities. The funding will help protect children and helps advance the federal action plan to reduce childhood lead exposure. The ITCA project will serve schools or child care facilities at federally-recognized tribes located in New Mexico (in EPA Region 6), as well as those located in Arizona, California, Nevada, and the Navajo Nation (in EPA Region 9). The project will also build on previous lead-testing programs at Tribal schools in these areas.

"Water is sacred in all forms and especially with regard to the drinking water we provide to our children," stated Maria Dadgar, Executive Director of the Inter Tribal Council of Arizona. "We look forward to working with Tribal schools and child care facilities to assist with developing programs for monitoring their facilities' drinking water plumbing. This will include providing technical assistance to support addressing older plumbing fixtures and in general, work toward improving the quality of their drinking water."

The funding was awarded under the Water Infrastructure Improvements for the Nation (WIN) Act for states, territories, and tribes to test for lead in schools and childcare facilities. The Voluntary Lead Testing in Schools and Child Care Drinking Water grant program continues to help protect children's health and make progress under the Federal Action Plan to Reduce Childhood Lead Exposures.

The grant supports EPA's action plan for reducing lead in school drinking water—Training, Testing, and Taking Action, or the 3 Ts. This toolkit helps prepare schools, child care facilities, and grantees to build a voluntary implementation program to reduce lead levels in drinking water with detailed training modules.

**FOR IMMEDIATE RELEASE
DECEMBER 3, 2021**

**CONTACT: MARIA DADGAR
(602) 258-4822**

Inter Tribal Council of Arizona Receives EPA Grant to Help Tribal Communities Protect Children from Lead in Drinking Water

Phoenix, Arizona – December 3, 2021 – The Inter Tribal Council of Arizona, Inc., (ITCA), a consortium of 21 federally recognized Indian Tribes in Arizona, recently received a \$1,581,000 grant from the U.S. Environmental Protection Agency (EPA) to help protect children by identifying sources of lead in drinking water in schools or child care facilities. The funding will help protect children and helps advance the federal action plan to reduce childhood lead exposure. The ITCA project will serve schools or child care facilities at federally-recognized tribes located in New Mexico (in EPA Region 6), as well as those located in Arizona, California, Nevada, and the Navajo Nation (in EPA Region 9). The project will also build on previous lead-testing programs at Tribal schools in these areas.

Ak-Chin Indian Community
Cocopah Indian Tribe
Colorado River Indian Tribes
Fort McDowell Yavapai Nation
Fort Mojave Indian Tribe
Gila River Indian Community
Havasupai Tribe
Hopi Tribe
Hualapai Tribe
Kahib Band of Paiute Indians
Pasqua Yaqui Tribe
Pueblo of Zuni
Quechan Tribe
Salt River Pima-Maricopa Indian Community
San Carlos Apache Tribe
San Juan Southern Paiute Tribe
Tolono O'odham
Tonto Apache Tribe
White Mountain Apache Tribe
Yavapai-Apache Nation
Yavapai-Prescott Indian Tribe

online.com



Allocation of the Tribal Consortia Grants

2107 Lead Testing in School and Child Care Program Drinking Water Tribal Grant Program Allocation				
Consortia	Facility Count	Allocation %	Allocation \$	Final Rounded
Inter-Tribal Council of Arizona	320	36.74%	\$1,581,263	\$1,581,000
United South and Eastern Tribes	220	25.26%	\$1,087,118	\$1,087,000
Rocky Mountain Tribal Leaders Council	109	12.51%	\$538,618	\$539,000
Great Lakes Inter-Tribal Council	100	11.48%	\$494,145	\$494,000
Northwest Portland Area Indian Health Board	90	10.33%	\$444,730	\$445,000
Inter-Tribal Council of Michigan	32	3.67%	\$158,126	\$158,000
TOTAL	871	100.00%	\$4,304,000	\$4,304,000
Exact Funding	\$ 4,304,000.00			





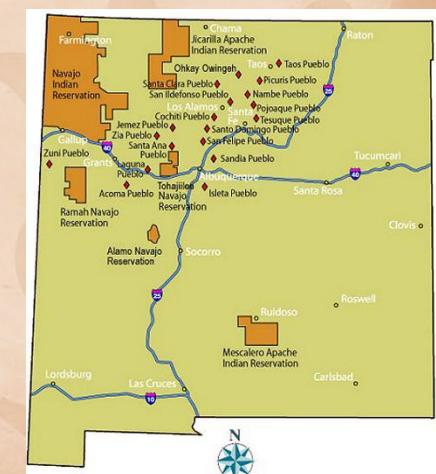
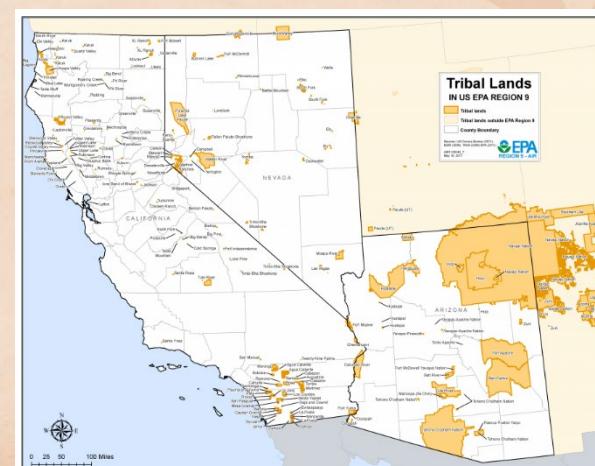
The ITCA Lead Testing Project

Work plan scalability of Scope of Work is proportional to funding allocations.

The overall service area that ITCA proposes includes all Indian reservations located in:

- (1)EPA Region 9: Navajo Nation, and Tribes located in Arizona, California, and Nevada; and
- (2)Tribes located in New Mexico

Service area includes a total of 188 federally-recognized tribes





Late Breaking Update

2021 Infrastructure Investment and Jobs Act

- Amended the WIIN Act §2107 grants → Can now pay for remediation
- Authorized more rounds of grants

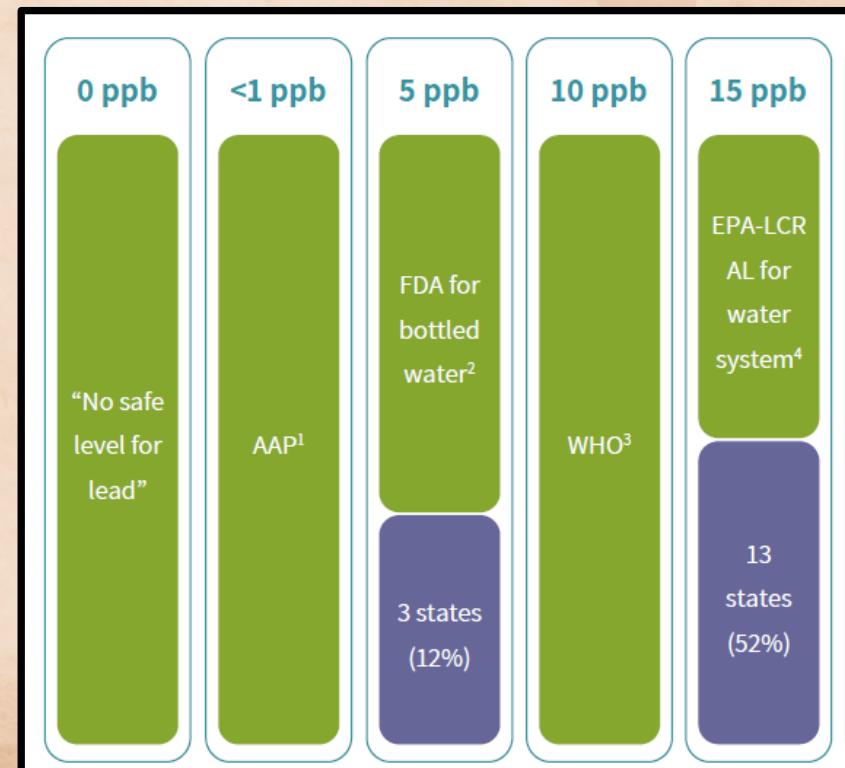




How to Participate in the ITCA Tribal Project

Process for participation

1. Contact ITCA,
2. Statement of Commitment and concurrence from governing body,
3. Select action level: <1 ppb, 5 ppb, 10 ppb, 15 ppb (unlike with states, Tribes will have a choice),
4. Select public notification preferences (unlike with states, Tribes will have a choice—Data sovereignty)
5. Priority level of testing





Work in Progress—Starting the Project

Work in Progress

- Hiring staff
 - Diella Packman & Audrey Tso
 - 3 more positions
- Developing Work Plan
- Messaging/social marketing campaign to Tribal Leaders, TEAs, Tribal Utilities
 - Website pages and materials under development
 - Create Database
 - Messaging in Tribal Operator training courses
- List of TEAs & Prioritization
- Selecting laboratories and consultants
- Contacting State and Tribal Agencies



QUESTIONS??



ITCA National Tribal Water Systems Programs

Diella Packman
School Lead Reduction Project Manager
Diella.Packman@itcaonline.com

Audrey Tso
School Lead Reduction Project Coordinator
Audrey.Tso@itcaonline.com