

# Lead Sampling of Drinking Water in CA Schools, Drinking Water for Schools Grant Program, and Lead Service Line Inventory

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Kurt Souza, Assistant Deputy Director  
Division of Drinking Water  
State Water Resources Control Board



# State Water Resource Control Board Programs for Lead Reduction

- \* Lead Sampling of Drinking Water in California Schools (Division of Drinking Water): Program Description and Results
- \* Recent legislation AB 746
- \* Drinking Water for Schools Grant Program (Division of Financial Assistance)
- \* Lead Service Line Inventory requirements
- \* 1,2,3-TCP reminder
- \* Questions

# Lead Sampling in Schools

- \* Meetings with the Governors office and Department of Education throughout 2016 resulted in the decision for DDW to issue amended permits to all community water systems who serve a K-12 school
- \* Permits require water systems to sample at school (5 sample sites) when a school official makes a request in writing to the water system for sampling assistance
- \* **Permits issued January 2017** along with a media release and resources on the DDW website (FAQs, details of sampling procedures, lab data submittals)

[http://www.waterboards.ca.gov/drinking\\_water/certlic/drinking\\_water/leadsamplinginschools.shtml](http://www.waterboards.ca.gov/drinking_water/certlic/drinking_water/leadsamplinginschools.shtml)

# Implementation of Program

- \* Eligible schools: public, private, and charter K-12 schools
- \* Ineligible schools: pre-K, daycares, colleges
- \* DDW staff available to assist schools and water systems. Please use contact info below
  - \* Beti Girma: (916) 322-9602 or
  - \* Ariel Chavez: (916) 322-9601
  - \* [DDW-PLU@waterboards.ca.gov](mailto:DDW-PLU@waterboards.ca.gov)



### STEP 1. Make official request

- Superintendent or designee of school submits written request
- Eligible schools: must serve students between Kindergarten and 12th grade (public, private, charter)
- Email or mail your public water system before November 1, 2019
- Use this example or send your own:  
[Request Template](#)

### STEP 2. Timeline

- Within 60 days of request public water system schedules meeting with school to identify sample locations (up to 5 locations per school)
- Within 90 days of request public water system collects samples
- Public water system will provide lab results to your school within 10 business days of receiving them, or w/in 2 school business days if result is greater than action level (15 micrograms per liter)
- School district is responsible for communicating results to parents and staff; public water system helps interpret the results

### STEP 3. What if we get a high result?

- School decides response: options include additional sample, removing source, replacing fixture, or other plumbing repairs
- Public water system will collect another sample after repair is made, prior to putting back in service (prior to November 1, 2019).

### STEP 4. What assistance is available?

- \$9.5 million of funding is available for disadvantaged communities through the Drinking Water for Schools Grant Program
- Eligible projects include treatment devices, repairs, and replacement of drinking water fixtures, as well as emergency hauled or bottled water
- Technical Assistance with submitting applications and designing technical solutions is available



### Additional Information

email: [DDW-PLU@waterboards.ca.gov](mailto:DDW-PLU@waterboards.ca.gov) phone: 916-322-9602

[FAQS](#)

[Lead Sampling in California Schools](#)  
[Drinking Water for Schools Grant Program](#)

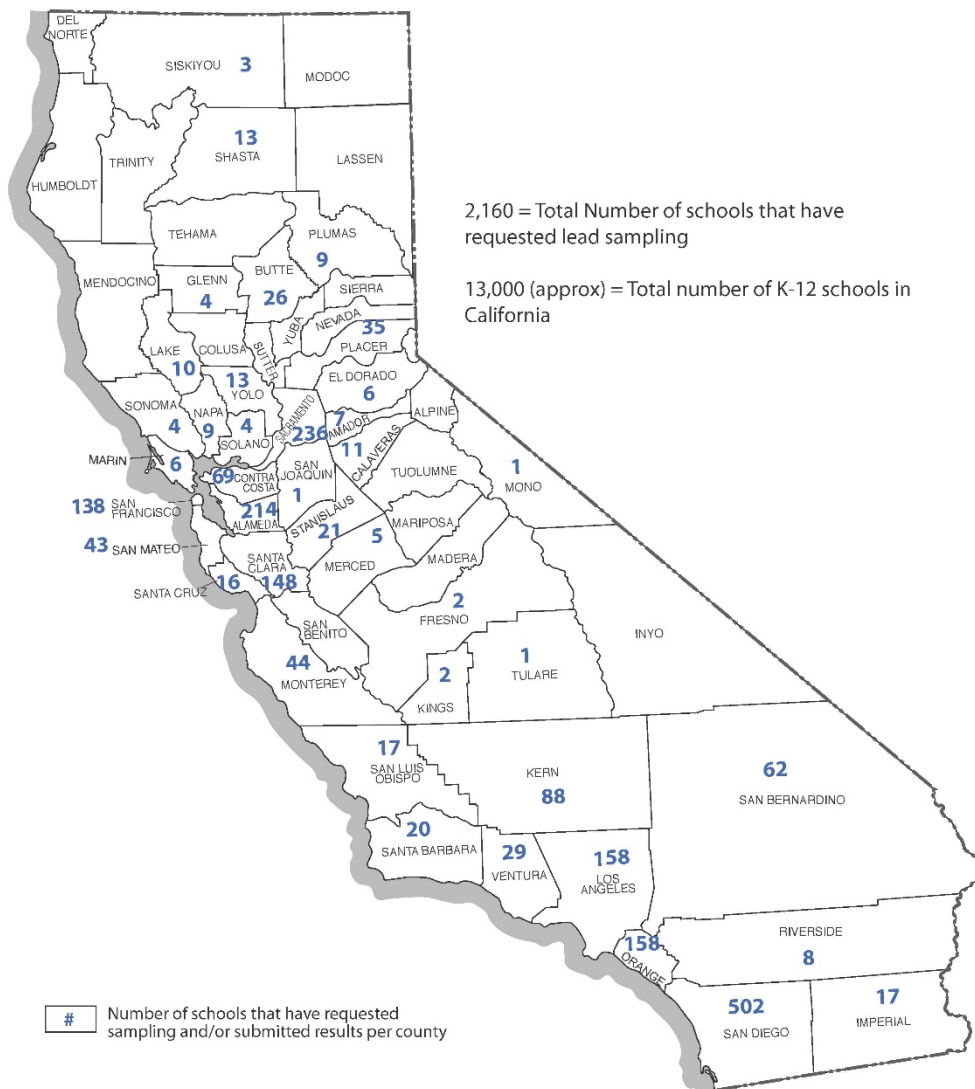
[http://www.waterboards.ca.gov/drinking\\_water/certlic/drinkingwater/leadsamplinginschools.shtml](http://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/leadsamplinginschools.shtml)

## Number of School Requests as of January 1, 2018

### Lead Sampling in California Schools



STATE WATER RESOURCES CONTROL BOARD  
REGIONAL WATER QUALITY CONTROL BOARDS

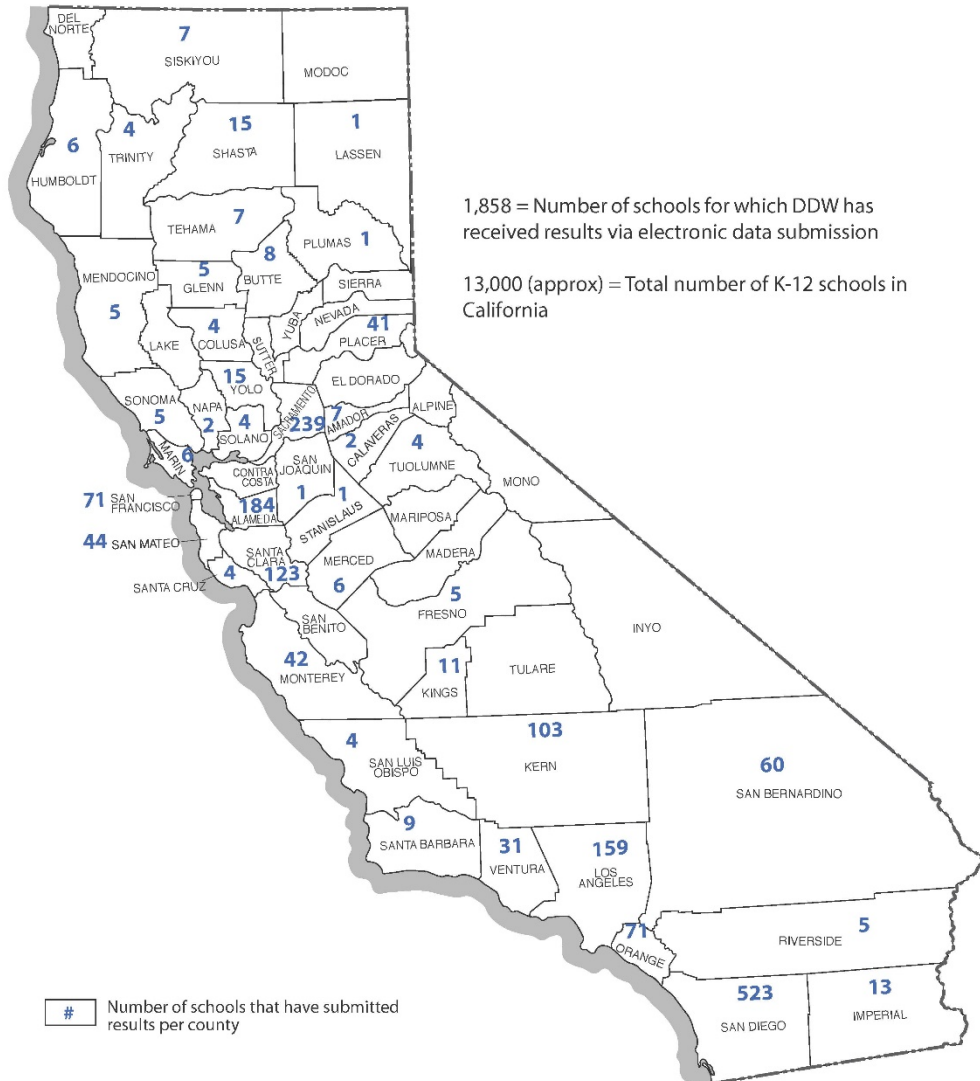


## Number of Results Received as of January 1, 2018

### Lead Sampling in California Schools



STATE WATER RESOURCES CONTROL BOARD  
REGIONAL WATER QUALITY CONTROL BOARDS



1,858 = Number of schools for which DDW has received results via electronic data submission

13,000 (approx) = Total number of K-12 schools in California

# Number of schools that have submitted results per county



# Results

## As of January 1, 2018:

- \* Results have been received for 8,635 samples
- \* Lead has been detected between 0 ppb and 15 ppb in > 99% of all samples
- \* 52 sample locations at 48 schools had one or more result >15 ppb (<1% of sample locations)



# Action Level Exceedances: What are schools doing?

- \* 52 Locations w/ Action Level Exceedances (<1%)  
(As of January 1, 2018)
- \* Follow-up Actions
  - \* Replaced fixture (10)
  - \* Collected more samples/no further action (12)
  - \* Removed from service (12)
  - \* More samples/investigation/replaced bubbler plus part of line (4)
  - \* Added Point-of-Use filter (2)
  - \* Unknown (14)

# Lead Sampling of DW in CA Schools

## AB 746

- \* AB 746 was signed on October 13, 2017
- \* Added Section 116277 to H&S Code (1/1/2018)
- \* Similar requirements to DDW permit
- \* Requires CWS to sample all “Local Educational Agencies” defined as school district, county office of education or charter school located in a public facility
- \* Division of Drinking Water updated webpage in December

# Lead Sampling of DW in CA Schools

## AB 746

- \* Sampling Guidance from DDW will be the same as DDW permit
- \* Section (e)(4) – allows schools that have been previously sampled by DDW permit to count toward this requirement
- \* Section (e)(3) – Allows schools previously sampled after 1/1/2009 which post their results publicly to count toward this requirement

# Lead In Schools - AB 746 vs. Permit Amendments

Requirements	AB 746 (CHSC §116277)	Lead In Schools Permit Amendment (Jan. 2017)
Audience	<b>Community Water Systems (CWS) serving a schoolsite of a local education agency (LEA*) w/ building constructed before 1/1/2010. (Includes K-12, preschools and child daycare located on public school property)</b>	Public Water System serving K-12 school for which sampling request is made prior to 11/1/2019
Number of Initial Samples	N/A (DDW will continue to reference DDW posted guidance and 3Ts to CWS/LEAs)	One to five samples from regularly used sinks, faucets, fill stations
Sampling Time	<b>Anytime, but must be completed before 7/1/2019</b> (DDW guidance prescribes sampling while school is in session and not immediately following weekends or holidays)	During school year, on Tues/Wed/Thurs/Fri. when in session and in session for one day prior. (Within 90 days after receiving request)
PWS Reporting to School	Report findings to schoolsite within 10 business days after receiving results from lab	Provide/discuss sample results with school within 10 days of receiving results from lab
PWS Reporting to State	N/A (DDW will need the submittal of data to LIS website to determine compliance)	<ul style="list-style-type: none"> <li>• Compile list of names/addresses K-12 by 7/1/2017, submit to DDW's LIS website</li> <li>• Require lab to submit data to DDW's LIS website</li> </ul>

# Lead In Schools - AB 746 vs. Permit Amendments

Requirements	AB 746 (CHSC §116277)	Lead In Schools Permit Amendment (Jan. 2017)
Action Level (AL)	15 ppb	15 ppb
AL Exceedance Response by PWS	<ul style="list-style-type: none"> <li>Report to school within 2 business days</li> <li><b>Collect repeat sample at the service connection between CWS and schoolsite</b></li> </ul>	<ul style="list-style-type: none"> <li>Notify school within 2 school business days</li> <li>Collect resample within 10 business days if sample site remains in service</li> <li>Collect third sample within 10 business days after notification that resample is <math>\leq</math> 15ppb</li> <li>Following corrective action, collect resample</li> </ul>
AL Response by LEAs	<ul style="list-style-type: none"> <li>Notify parents and guardians of pupils where elevated levels found</li> <li>Take immediate steps to make fountains/faucets inoperable (shut down) where levels above AL found</li> <li>Additional testing (may be?) required to determine if all or just some of fountains/faucets require shut down</li> </ul> <p><i>(Enforced by DDW &amp; CDE; DDW will continue tracking)</i></p>	N/A – School corrective actions not enforceable by DDW.

# Lead In Schools - AB 746 vs. Permit Amendments

Requirements	AB 746 (CHSC §116277)	Lead In Schools Permit Amendment (Jan. 2017)
Sampling Plan	CWS, in cooperation with LEA, shall prepare a sampling plan for each schoolsite where sampling is required. CWS/LEA may request assistance from State Board or Local Health Dept.	Respond in writing within 60 days of receiving the school's sampling request, and schedule meeting with school to develop sampling plan (3Ts referenced). Finalize within 90 days of request.
Laboratory Cert.	N/A (DDW guidance prescribes USEPA's 3Ts and ELAP-certified laboratories)	ELAP Certified
PWS Data Disclosure	N/A	Not release data to public for 60 days following receipt of initial results unless complying with PRA. Discuss results with school prior to release.

# Drinking Water for Schools Grant Program

- \* The State Water Board's Division of Financial Assistance (DFA) is managing the Drinking Water for Schools Grant Program



# Drinking Water for School Grant Program Background

\$10 million to SWRCB to:

- \* Award grants to improve access to and quality of drinking water in public schools (\$9.5M)
- \* Provide technical assistance to Local Educational Entities (LEAs) for schools within, or serving pupils from small DAC (\$500k)



# Eligible Projects

- \* Water bottle filling stations or drinking fountains:
  - Installation or replacement
  - with or without water quality treatment



# Eligible Projects (Cont'd)



Point-of-Entry (**POE**) or  
Point-of-Use (**POU**)  
treatment devices

- Including up to 3 years  
Operation &  
Maintenance

# Eligible Projects (Cont'd)

- \* Corrective Action Measures to address **lead contamination** such as:
  - \* Installation, replacement, or repairs of drinking water fixtures
  - \* Installation of POU filtration treatment systems

*NOTE: Major plumbing repairs or replacements are not eligible*

# Program Webpage

\* [http://www.waterboards.ca.gov/water\\_issues/programs/grants\\_loans/schools](http://www.waterboards.ca.gov/water_issues/programs/grants_loans/schools)

The screenshot shows a web browser window with the URL [https://www.waterboards.ca.gov/water\\_issues/programs/grants\\_loans/schools/](https://www.waterboards.ca.gov/water_issues/programs/grants_loans/schools/). The page header includes the California Environmental Protection Agency logo and the text "STATE WATER RESOURCES CONTROL BOARD". A navigation menu contains links for Home, About Us, Public Notices, Board Info, Board Decisions, Water Issues, Publications/Forms, and Press Room.

The sidebar on the left includes a profile for Edmund G. Brown Jr. (Office of Governor) and Felicia Marcus (Board Chair). Below these are links for CalEPA, State and Regional Water Boards' Map, Board Priorities, Laws/Regulations, Make a Payment, Plans/Policies, Programs, and Decisions Pending and Opportunities for Public Participation. At the bottom of the sidebar is a "File an Environmental Complaint" button.

The main content area is titled "Drinking Water For Schools Grant Program". It contains the following text:

The Drinking Water For Schools Grant Program will provide \$9.5 million in funding to improve access to, and the quality of, drinking water in public schools pursuant to Senate Bill 828.

To receive information on the program as it is developed, please sign up on our email list under [contact information](#) below.

Please refer to these [Guidelines](#) for important information about the grant program.

**ANNOUNCEMENTS**

**NEW!** Proposal Solicitation Notice: The Drinking Water for Schools Grant Program is now accepting applications! Please follow instructions under [How to Apply](#)

**NEW!** The Technical Assistance Form has been uploaded. Please see below.

Rural Community Assistance Corporation (RCAC) and its partners hosted workshops in Sacramento and San Diego, Chico and Visalia, California. The workshops provided information about the program, the application process, availability of technical assistance, and an opportunity to ask questions.

**NEW!** [The San Diego workshop was recorded and may be viewed by clicking here.](#)

**HOW TO APPLY**

Please refer to these [Guidelines](#) for important information about the grant program.

# State Water Board Contact Information:

\* Kim Hanagan, P.E.

Drinking Water for Schools Grant Program Manager

916-323-0624

[Kim.Hanagan@waterboards.ca.gov](mailto:Kim.Hanagan@waterboards.ca.gov)

\* Ravi Jawanda, WRCE

916-341-5865

[Ravinder.Jawanda@waterboards.ca.gov](mailto:Ravinder.Jawanda@waterboards.ca.gov)

Subscribe to Grant Program email list

[http://www.waterboards.ca.gov/resources/email\\_subscriptions/swrcb\\_subscribe.shtml](http://www.waterboards.ca.gov/resources/email_subscriptions/swrcb_subscribe.shtml)

# Lead User Service Lines in Public Water Systems Outline

- \* Background
- \* Main Requirements of SB 1398
- \* Implementation
- \* Timeline
- \* Changes based on SB 427



# Background

- \* Flint, Michigan – and other lead stories around the country
- \* Lead User Service Lines targeted
- \* SB 1398 (September 27, 2016)
  - \* Regulations will not be developed, only FAQs, example letters and webpage
- \* Legislation SB 427

# Main Requirements

- \* Section 116885 of the California Health and Safety Code (H&S Code, Lead Service Lines in Public Water Systems – Senate Bill 1398) requires all public water systems (PWS) to compile an inventory of known partial or total lead user service lines in use in its distribution system. The inventory must include all user service lines that are active and those that are reasonably expected to become active in the future.
- \* SB 427 modified to community water system only.

# Main Requirements

- \* Section 116885 also requires the PWS identify areas that may have lead user service lines in use, and/or identify any areas within the PWS distribution system that the PWS cannot identify the material that is being used for the service line.
- \* Inventory must be completed by July 1, 2018
- \* FAQ is requiring PWS to submit a form, template being provided, to the District office or (LPA) using the electronic annual report (eAR)
- \* Legislation is only concerned about lead lines and unknown material, all other identified material (copper, galvanized, poly, etc.), are acceptable.

# Main Requirements

- \* PWS will be required to propose a schedule to replace all the known lead user service lines and user service lines constructed of unknown material.
- \* By July 1, 2020, the proposed schedule or timeline is required to be submitted to DDW and then posted on our website.

# Main Requirements

- \* Section 116885 adopts the definition of user service line found in Section 64551.60 of Title 22
  - \* “the pipe, tubing, and fittings connecting a water main to an individual water meter or service connection.”
  - \* Does not include the meter or customer’s side of the meter.
  - \* FAQ recommends notifying the customer of the lead service line that does or may exist on customers side of the meter. Highly recommend if known to have lead on customers side and assist replacement if possible.

# Implementation

- \* Following completion of the inventory, PWS needs to submit a signed form to DDW or (LPA). The form needs to be signed under penalty of perjury.
  - \* The form will need to include a general map showing areas where lead user service lines or unknown material are located, only if PWS finds those areas.
- \* The PWS does not have to submit the supporting inventory documents used in the analysis unless requested by DDW.
  - \* Historically documents can include master plans, building records, various maps, historic inventory documents

# Implementation

- \* **How does a PWS submit the inventory signed form?**
- \* DDW has a section at the end of the eAR to collect the information from the service line inventory
- \* eAR will be due June 1, 2018. July 1, is LSL due date
- \* Download a template form, signed, scanned and uploaded to the eAR site.
- \* Questions on Lead Service Line implementation to your local district office



# Service Line Inventory Form in eAR

http://wb-sb-sdweb1d/EAR201 State of California

File Edit View Favorites Tools Help

Bizflow CalATERS DWSAP Program Applicat... Equipment Reservations Fee Schedule Printer Install Water Boards Intranet Web Slice Gallery

## 18. LEAD SERVICE LINE REPLACEMENT



### ONLY FOR COMMUNITY WATER SYSTEMS

Your water system classification is:

Section 116885 of the California Health and Safety Code, Lead Service Lines in Public Water Systems, added to the Health and Safety Code by Senate Bill 1398 (2016) and amended by Senate Bill 427 (2017), requires all community water systems (CWS) to compile an inventory of known partial or total lead user service lines in use in its distribution system by July 1, 2018. The inventory must include all user service lines that are active and those that are reasonably expected to become active in the future. Also, Section 116885 requires that CWS identify areas that may have lead user service lines in use, and/or identify any areas within the CWS distribution system that the CWS cannot identify the material that is being used for the service line.

For additional information, please visit [https://www.waterboards.ca.gov/drinking\\_water/certlic/drinkingwater/lead\\_service\\_line\\_inventory\\_pws.shtml](https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/lead_service_line_inventory_pws.shtml)

If you have questions about completing this section of the report, please contact David.Pimentel@Waterboards.ca.gov or call (916) 323-0572.

Date lead service line inventory was completed (MM/DD/YYYY):

### A. USER SERVICE LINE INVENTORY:

"User service line" means the pipe, tubing, and fittings connecting a water main to an individual water meter or service connection.

Pipe Material	Estimated Number of Service Lines (Enter "0" if none)	Estimated Total Length of Service Lines (In feet, if applicable)
A. Lead	<input type="text"/>	<input type="text"/>
B. Unknown material	<input type="text"/>	<input type="text"/>
C. Copper	<input type="text"/>	
D. Cast iron (ductile pipe)	<input type="text"/>	
E. Ductile iron	<input type="text"/>	
F. Galvanized steel	<input type="text"/>	
G. Polyvinyl chloride (PVC)	<input type="text"/>	
H. Polyethylene (PE)	<input type="text"/>	
I. High density polypropylene (HDPE)	<input type="text"/>	
J. Polybutylene (PB)	<input type="text"/>	
K. Transite/asbestos cement	<input type="text"/>	
L. Other materials not listed above:	<input type="text"/>	

# eAR LSLR cont.

<b>L. Other materials not listed above:</b>		
Identify material 1	<input type="text"/>	<input type="text"/>
Identify material 2	<input type="text"/>	<input type="text"/>
Identify material 3	<input type="text"/>	<input type="text"/>
Identify material 4	<input type="text"/>	<input type="text"/>
Total number of service connections inventoried* (calculated field)	0	
<b>Lead gooseneck or pigtail components:</b>		
M. <u>NOT</u> on a lead pipe	<input type="text"/>	
N. <u>ON</u> a lead pipe	<input type="text"/>	
Total number of lead service lines** (calculated field)	0	

\*Total number of service connections inventoried (calculated field) = Sum of A through L

\*\*Total number of lead service lines (calculated field) = Sum of A and M

To Update calculated field, click button below

[To update totals click here](#)

## B. METHOD(S) USED TO PREPARE THE LEAD SERVICE LINE INVENTORY IN PART A (CHECK ALL THAT APPLY):

- Tap Cards or tickets from initial service installation
- Plans from water main installation, rehabilitation, and replacement
- Records indicating when buildings were constructed
- Meter replacement records
- Distribution maps, drawings, or GIS
- Visual confirmation of pipe material by plumbers or utility crews during maintenance or installation activities
- Interviews with water system personnel and/or past employees
- Field investigations
- Other (describe below):

# Program Links

## AB 746 webpage

- \* [https://www.waterboards.ca.gov/drinking\\_water/certlic/drinkingwater/lead\\_samplinginschools.html](https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/lead_samplinginschools.html)

## Request for Technical Assistance for Schools (Grants)

- \* [http://www.waterboards.ca.gov/water\\_issues/programs/grants\\_loans/proposition1/docs/ta\\_request\\_form.pdf](http://www.waterboards.ca.gov/water_issues/programs/grants_loans/proposition1/docs/ta_request_form.pdf)

## Grant-Loans Program Webpage

- \* [http://www.waterboards.ca.gov/water\\_issues/programs/grants\\_loans/schools/](http://www.waterboards.ca.gov/water_issues/programs/grants_loans/schools/)

## Lead Service Line Inventory Webpage

- \* [https://www.waterboards.ca.gov/drinking\\_water/certlic/drinkingwater/lead\\_service\\_line\\_inventory\\_pws.shtml](https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/lead_service_line_inventory_pws.shtml)

# 1,2,3-TCP

- \* New MCL for 1,2,3-TCP became effective on December 14, 2017, for Community and NTNC systems
- \* Letter to water systems emailed December 29, 2017
- \* Initial sampling is first quarter 2018, January, February or March
- \* Groundwater samples collected in 2016 or 2017 may be used to satisfy some initial sampling but must be approved by DDW or LPA
- \* Waiver requests must be made in writing to DDW or LPA

# Questions/Comments?

- \* Thank you to ACWA for hosting this webinar