ADDENDUM NO. 2

To the Contract Documents for:
Contra Costa County Office of Education
Turner COE Roofing Project
02 – 2026

April 29, 2026

This addendum shall supersede all previously issued documents including but not limited to specifications, addenda, and drawings. All other conditions remain unchanged. The following clarifications, changes, modifications, corrections, and/or additions as set forth herein shall apply to the above documents and shall be made a part thereof and shall be subject to all the requirements thereof as though originally specified and/or shown.

Item No. 2.1 Information Items:

a. **Pre-Bid Conference Sign-in Sheet**: Dated April 22, 2026 attached.
b. **Lead Sampling and Report:** Dated 4/17/26 and 4/22/26 attached.
c. **Asbestos Sampling and Report**: Dated 4/17/26 and 4/24/26 attached.
d. **Lead in Construction Fact Sheet – Employers** attached.

Item No 1.2 Bidder Questions

a. **Question #1:** Please confirm whether a Class B licensed contractor, working with a C-39 subcontractor, is eligible to participate in this bid process.
Answer: **This project will only be available for bidders with a valid C-39 Contractor's License.**
b. **Question #2:** How much leveling product is required to eliminate ponding on the roof?
Answer: **Assume all work necessary to provide 4ea. Locations at 6 feet by 12 feet sloping to a depth of 3".**

Item No. 1.3 Additional Scope of Work/ Clarifications:

a. **Add Water Testing:** The contractor shall coordinate with the county to flood the roof with water and allow the ponding to establish. Once completed, the areas should be marked out with marker in coordination with the county to show the limits of work for the product infill work. See question number 2 above for the limits of work once the ponding is known.

b. **Power Washing:** This work needs to be completed between the hours of 7 AM and 11 AM. Work should begin on the north and work to the south. Coordinate with the County to have the mechanical units shut off prior to work. The intent of starting on the north areas is to turn these **units back on for the occupants below for HVAC.**

c. **Project Schedule and Execution**
The construction schedule is phased to align high-impact activities with the summer break, reducing on-site logistics conflicts. The sequence is defined by the following milestones:

- **Notice to Proceed (NTP):** Effective on or about **June 1, 2026**.
- **Procurement Phase:** A **30-day window** (June 1 – July 2, 2026) is allocated for submittals, mobilization, and the staging of critical materials, including flashing systems and **80 Mil PVC membrane**. All materials should be secured on-site prior to the start of the construction phase.
- **On-Site Construction:** Scheduled to commence on **July 3, 2026**. While the County Office of Education (COE) program will maintain operations within the building, the project utilizes the standard summer break to execute work on the otherwise unoccupied campus.
- **Contract Duration:** The total performance period is **56 (fifty-six) calendar days**, concluding on **July 27, 2026**.
- **Site-Impact Window:** Field work, including the removal of existing roof flashings, surface cleaning, and preparation for new system installation, is condensed into a **24-calendar-day** intensive window.

d. Clarification: Scope of work. The Pre-bid Conference Agenda incorrectly noted the installation of a new **80 Mil PVC Roofing System** (Duro-Last or approved equal). The product specified is an 80 Mil Duro-Fleece single ply membrane product (rolled goods).

Attachments: Pre-Bid Conference Sign-in Sheet dated 4/22/26
Lead Sampling and Report: 4/17/26 and 4/22/26
Asbestos Sampling and Report: 4/17/26 and 4/24/26
Lead In Construction Fact Sheet

[END OF ADDENDUM 01]

CONTRA COSTA COUNTY
Office of Education
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Lynn Mackey, Superintendent of Schools

April 22, 2026

Pre-Submittal Conference
Sign-In Sheet

Project: Turner COE Roof Project 02-2026
Project Location: 4207 Delta Fair Blvd. Antioch, CA 94509
Owner: Contra Costa County Office of Education 75 Santa Barbara Road Pleasant Hill, CA 94523

Company Name	City, State	Name	Email Address
Cairo builder inc	Woodland CA	David Dowty	David@Cairobuilderinc.com
Paramount roof coating inc.	Woodland CA	Merry Tokuyama	Merry@Paramountroofcoatinginc.com
Airtight Construction	Concord CA	Ken Chela	Ken@airtightconstruction.com
American Foam Experts	Galt CA	Mike Warren	bpspro@Yahoo.Com
Diablo Roofing	Oakland CA	Mike Martinez	-ike-@diabloroof.com
Stronger Building	San Leandro	Baldomero Ruiz	baldomero@strongerbuilding.com
Best Contracting Services, Inc.	Union City, CA	Javier Solis	estimating@bestcontracting.com
Prime Roofing Company	El Cerrito, CA	Jun Kim	jun@primeroofingco.com
S.F. Roofing Services	San Francisco	Manny Avila	manny@sfroofingservices.com
Peterson Roofing	Modesto	Miguel Oliveros	miguel@petersonroofingca.com

CONTRA COSTA COUNTY
Office of Education
learn • lead • achieve
Lynn Mackey, Superintendent of Schools

April 22, 2026

Pre-Submittal Conference
Sign-In Sheet

Project: Turner COE Roof Project 02-2026
Project Location: 4207 Delta Fair Blvd. Antioch, CA 94509
Owner: Contra Costa County Office of Education 75 Santa Barbara Road Pleasant Hill, CA 94523

Company Name	City, State	Name	Email Address
RK Roofing	San Leandro, CA	Ken Nwokedi	admin@rkroof.com
Frank Finlen	Pleasanton	Victor Lopez	VLopez@[illegible].com
Pioneer contractors	San Francisco CA	Derick Velez	derick@pioneercontractors.com
Solano Roofing	Fairfield	Rich Selbrack	Dmiller.SCR@gmail.com
BNO BUILDERS	SJ [illegible] CA	MOSHE ZEITLIN	MOSHE@BNOBUILDERS.com

FACS

Paint Chip Sample Request Form

104499628

Client: SAC02 Site: Turner School 4207-B Delta Fair Blvd Antioch, CA USA Sampled By: S. Robbins

FACS: Sacramento, CA Office Date: 4/17/26

Pro-K12 Consulting & CM Services Client #: C31827 PM: Shawn M Robbins

Contact: Shawn M Robbins Phone: 916-726-3747 Proj #: P391461

Turnaround Time:	<12hr	Same-D	1-Day	2-Day	3-Day	5-Day	Other Due Date & Time:
Analysis:	Flame AA (Pb)	Other					
Email results to:	Sac@tetratech.com + Shawn.r@facs.com						

Sample #	Sample Location	Component	Color	Substrate	Condition
91461 - PB01	Roof, NW, Ground Exhaust Pipe	Lead Wrap	Grey	Metal	Good

Substrate: wood, metal, concrete, plaster, drywall, brick

Shipped via:	FedEx	Airborne	UPS	US Mail	Courier	Drop Off	Other

Relinquished by: Date and Time:	Relinquished by: Date and Time:	Relinquished by: Date and Time:
Received by: Date and Time: 4/17/26 2PM	Received by: Date and Time:	Received by: Date and Time:

eurofins | Built Environment Testing

Report for:

Sac Data, Shawn Robbins
Forensic Analytical Consulting Services- Sacramento
7625 Sunrise Boulevard, Suite 104
Citrus Heights, CA 95610

Regarding: Eurofins Built Environment Testing West, LLC
Project: PJ91461; Pro-K12 Consulting & CM Services-Turner School Roof Replacement Survey
EML ID: 4499628

Approved by:

Signatory
Frank Raviola

Dates of Analysis:
Lead (Pb) TTLC - Flame AA (EPA 3050B/7420) - EV: 04-22-2026

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the samples as received and tested.

eurofins | Built Environment Testing

EPA SW-846 LEAD-TTLC

1212
Shawn Robbins
Forensic Analytical Consulting
21228 Cabot Boulevard
Hayward, CA 94545

PROJECT:

Project ID: PJ91461
Pro-K12 Consulting & CM Services-Turner School Roof Replacement Survey

Micro Log In	**4499628**
Total Samples	1
Date Sampled	04/17/2026
Date Received	04/20/2026
Date Analyzed	04/22/2026

Sample ID	Lead Concentration, ppm	RDL, ppm	Comments
Client **91461-PB01** Micro 4499628-01 **ROOF, NW, GROUND EXHAUST PIPE**	580000	25000	

Technical Supervisor: _____ 4/22/2026 Analyst: RN
Long T. Nguyen, Chemistry Supervisor — Date Reported

Samples are analyzed by Flame Atomic Absorption Spectrometry (FLAAS) using SOP 23-Soil (in accordance with EPA Methods 3050B for Acid Digestion (SW 846, 3rd edition, 2007) and 7420 for Analysis (SW-846, 3rd edition, 2007)). NOTE: Water samples are analyzed by FLAA in accordance with Method 3111B (Standard Methods for the Examination of Water and Wastewater, 18th edition). Unless otherwise indicated on this report, all required Quality Control samples have been determined to be in control prior to releasing these analytical results. Unless otherwise stated in this report, all samples were received in acceptable condition for analysis. Note: due to software limitations, the number of reported significant figures does not necessarily reflect the uncertainty of the analysis. This report must not be reproduced except in full without the approval of Eurofins, and pertains only to the samples analyzed as received. Unit explanations: mg = milligrams; kg = kilograms; ppm = parts per million. L = liters. RDL = Report Detection Limit. Note: mg / Kg is the same as ppm for solids, and mg/L is the same as ppm for water.

FACS
Forensic Analytical Consulting Services

Paint Chip Sample Request Form

104499628

Client:	SAC02	**Site:**	Turner School 4207-B Delta Fair Blvd Antioch, CA USA	**Sampled By:**	S. Robbins
FACS:	Sacramento, CA Office			**Date:**	4/17/26
	Pro-K12 Consulting & CM Services	**Client #:**	C31827	**PM:**	Shawn M Robbins
Contact:	Shawn M Robbins	**Phone:**	916-726-3747	**Proj #:**	PJ91461

Turnaround Time:	<12hr Same-D 1-Day 2-Day 3-Day **5-Day** Other Due Date & Time:
Analysis:	**Flame AA (Pb)** Other
Email results to:	Sacdata@facs.com + shawn.r@facs.com

Sample #	Sample Location	Component	Color	Substrate	Condition
91461-PB01	Roof, NW, around exhaust pipe	Lead wrap	Gray	Metal	Good

Substrate: wood, metal, concrete, plaster, drywall, brick

Shipped via:	FedEx	Airborne	UPS	US Mail	Courier	**Drop Off**	Other

Relinquished by: **Date and Time:**	**Relinquished by:** **Date and Time:** 4/17/26 3PM	**Relinquished by:** **Date and Time:**
Received by: **Date and Time:** 4/17/26 2PM	**Received by:** **Date and Time:**	**Received by:** **Date and Time:**

FACS

Sampling Data Form/Chain of Cu: 04499634

Page 1 of 1

Client:

SAC02
Sacramento, CA Office
7625 Sunrise Boulevard Suite 104
Citrus Heights, CA 95610

Sampled By: S. Robbins — Sample Date: 4/17/26

Turnaround Time: RUSH 24 hr 48 hr Extended (5 days)

Analysis: X PLM Standard ____ PLM w/ Point Count(____ 400 pt.; ____ 1,000 pt.)

Special Instructions:

Site: Turner School 4207-B Delta Fair Blvd Antioch, CA USA

FACS Project Manager: Shawn M Robbins

Email results to: shawn.r@facs.com + SLC data

FACS Job Number: PJ91461

FACS PM Phone: (916) 288-8942

PO #:

HA # / Sample Number	Homogeneous Material Description	Sample Location	Photo # (if applicable)
PJ91461			
-101A	Silver rolled mem roofing material	Roof. NE	
-101B		. South	
-101C		. NW	
-102A	Silver parapet roofing material	. NE	
-102B		. South	
-102C		. NW	
-103A	Grey/Black Rub. Mastic	. NE	
-103B		. South	
-103C		. NW	

Sampled & Relinquished by:	Relinquished by:	Relinquished by:
Date & Time: 4/17/26 13:55	Date & Time:	Date & Time:
Received by:	Received by:	Received by:
Date & Time: 4/17/26 2PM	Date & Time:	Date & Time:

eurofins | Built Environment Testing

Report for:

Sac Data, Shawn Robbins
Forensic Analytical Consulting Services- Sacramento
7625 Sunrise Boulevard, Suite 104
Citrus Heights, CA 95610

Regarding: Eurofins Built Environment Testing West, LLC
Project: PJ91461; Pro-K12 Consulting & CM Services-Turner School Roof Replacement Survey
EML ID: 4499634

Approved by:

Approved Signatory
James Schatz

Dates of Analysis:
Asbestos PLM: 04-22-2026

Service SOPs: Asbestos PLM (EPA 40CFR App E to Sub E of Part 763 & EPA 600/R-93-116, EBET-PLM-SOP83921)
NVLAP Lab Code 600397-0

Eurofins Built Environment Testing West, LLC
180 Blue Ravine Rd, Folsom, CA 95630
(833) 465-5857 www.eurofinsus.com/Built

Client: Forensic Analytical Consulting Services-Sacramento
C/O: Sac Data, Shawn Robbins
Re: PJ91461; Pro-K12 Consulting & CM Services-Turner School Roof Replacement Survey

Date of Sampling: 04-17-2026
Date of Receipt: 04-17-2026
Date of Report: 04-24-2026

ASBESTOS PLM REPORT

Total Samples Submitted:	9
Total Samples Analyzed:	9
Total Samples with Layer Asbestos Content > 1%:	0

Location: 91461-101A Lab ID-Version‡: 22624106-1

Sample Layers	Asbestos Content
Black Roofing Material 1	ND
Silver Tape	ND
Black Roofing Material 2	ND
White Drywall	ND
Composite Non-Asbestos Content:	10% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 91461-101B Lab ID-Version‡: 22624107-1

Sample Layers	Asbestos Content
Black Roofing Material 1	ND
Silver Tape	ND
Black Roofing Material 2	ND
White Drywall	ND
Composite Non-Asbestos Content:	10% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 91461-101C Lab ID-Version‡: 22624108-1

Sample Layers	Asbestos Content
Black Roofing Material 1	ND
Silver Tape	ND
Black Roofing Material 2	ND
White Drywall	ND
Composite Non-Asbestos Content:	10% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 91461-102A Lab ID-Version‡: 22624109-1

Sample Layers	Asbestos Content
Black Roofing Shingle with Rocks	ND
Silver Tape	ND
Black Roofing Material	ND
Composite Non-Asbestos Content:	10% Glass Fibers
Sample Composite Homogeneity:	Good

"Trace" indicates asbestos fibers were observed at levels below the PLM visual estimation quantification limit and are therefore interpreted as <1% by area. Per guidance from the Environmental Protection Agency and the National Voluntary Laboratory Accreditation Program,"trace" is not a definitive quantification. Such materials should be treated as ACM unless point count analysis confirms the concentration is <1%.

Eurofins Built Environment Testing West, LLC
180 Blue Ravine Rd, Folsom, CA 95630
(833) 465-5857 www.eurofinsus.com/Built

Client: Forensic Analytical Consulting Services-Sacramento
C/O: Sac Data, Shawn Robbins
Re: PJ91461; Pro-K12 Consulting & CM Services-Turner School Roof Replacement Survey

Date of Sampling: 04-17-2026
Date of Receipt: 04-17-2026
Date of Report: 04-24-2026

ASBESTOS PLM REPORT

Location: 91461-102B Lab ID-Version‡: 22624110-1

Sample Layers	Asbestos Content
Silver Tape	ND
Black Roofing Material	ND
Composite Non-Asbestos Content:	10% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 91461-102C Lab ID-Version‡: 22624111-1

Sample Layers	Asbestos Content
Black Roofing Shingle with Rocks	ND
Silver Tape	ND
Black Roofing Material	ND
Composite Non-Asbestos Content:	10% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 91461-103A Lab ID-Version‡: 22624112-1

Sample Layers	Asbestos Content
Gray/Black Mastic	ND
Sample Composite Homogeneity:	Good

Location: 91461-103B Lab ID-Version‡: 22624113-1

Sample Layers	Asbestos Content
Gray Mastic	ND
Sample Composite Homogeneity:	Good

Location: 91461-103C Lab ID-Version‡: 22624114-1

Sample Layers	Asbestos Content
Gray/Black Mastic	ND
Sample Composite Homogeneity:	Good

"Trace" indicates asbestos fibers were observed at levels below the PLM visual estimation quantification limit and are therefore interpreted as <1% by area. Per guidance from the Environmental Protection Agency and the National Voluntary Laboratory Accreditation Program,"trace" is not a definitive quantification. Such materials should be treated as ACM unless point count analysis confirms the concentration is <1%.

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180 Blue Ravine Rd, Folsom, CA 95630
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Client: Forensic Analytical Consulting Services-Sacramento
C/O: Sac Data, Shawn Robbins
Re: PJ91461; Pro-K12 Consulting & CM Services-Turner School Roof Replacement Survey

Date of Sampling: 04-17-2026
Date of Receipt: 04-17-2026
Date of Report: 04-24-2026

ASBESTOS PLM REPORT

PROJECT ANALYST AND SIGNATORY REPORT

Project Analyst

Analyst: Samantha Pierce

All components not quantified as asbestos content and non-asbestos content are considered to be non-fibrous matrix components. Matrix components may include, but are not limited to, gypsum, paint, silicate minerals, vinyl, binder, calcium carbonate, tar, and foam.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed.

Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

FACS
Forensic Analytical Consulting Services

Sampling Data Form/Chain of Cu: 04499634

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Client: SAC02 Sacramento, CA Office 7625 Sunrise Boulevard Suite 104 Citrus Heights, CA 95610	Sampled By: S. Robbins	Sample Date: 4/17/26
	Turnaround Time: RUSH 24 hr 48 hr Extended (5 days)	
	Analysis: X PLM Standard ____ PLM w/ Point Count(____ 400 pt.; ____ 1,000 pt.)	
	Special Instructions:	
Site: Turner School 4207-B Delta Fair Blvd Antioch, CA USA		FACS Job Number: PJ91461
FACS Project Manager: Shawn M Robbins		FACS PM Phone: (916) 288-8942
Email results to: shawn.r@facs.com + Sub data		PO #:

HA # / Sample Number	Homogeneous Material Description	Sample Location	Photo # (if applicable)
91461-101A	Silver rolled main roofing material	Roof, NE	
-101B		, South	
-101C		, NW	
-102A	Silver parapet roofing material	, NE	
-102B		, South	
-102C		, NW	
-103A	Gray/Black Pen. Mastic	, NE	
-103B		South	
-103C		, NW	
		,	

Sampled & Relinquished by:	Relinquished by:	Relinquished by:
Date & Time: 4/17/26 13:55	Date & Time:	Date & Time:
Received by:	Received by:	Received by:
Date & Time: 4/17/26 2PM	Date & Time:	Date & Time:

California Department of Industrial Relations
Division of Occupational Safety & Health
Publications Unit
SAFETY & HEALTH | FACT SHEET

Lead in Construction

Information for Employers

Title 8 California Code of Regulations (T8 CCR) **section 1532.1** establishes required safety measures for construction employers with employees who may be exposed to lead. Implementing these measures and following industry best practices will reduce the risk of employee lead poisoning.

This fact sheet provides an overview—not all the requirements—of section 1532.1. The information provided is not meant to be a substitute for, nor a legal interpretation of, the regulation. Employers are cautioned to refer directly to section 1532.1 for detailed information regarding the regulation's scope, specifications, exceptions, and other requirements that may be applicable to their operations.

Why should employers be concerned?

- Lead is highly toxic. It can cause damage to the brain, nervous system, kidneys, reproductive system, and other health problems.
- Lead poisoning occurs through ingestion and inhalation, even at a very low level of exposure.
- There is a high risk of construction workers carrying lead home on their bodies, clothing, and shoes. This can poison family members, particularly children.

Failing to protect employees from lead exposure can have serious consequences, such as:

- Employee health problems.
- Medical and wage costs when a lead-poisoned employee must be removed from work.
- Costly job shutdowns.
- Reputation costs as clients value contractors who protect their employees and the job site environment.
- Substantial Cal/OSHA fines.

What do employers need to do?

Identify the presence of lead

Lead can be present in a wide range of materials, including paints and other coatings, lead mortars, and base metals. Certain tasks, such as grinding, sanding, welding, and torch cutting, can produce high airborne exposure levels.

- Consider the age of the building or structure and the materials and coatings that may contain lead.
- Ask the property owner for relevant information.
- Check the safety data sheets (SDSs) of the materials in use.
- If in doubt, take samples and have them tested for lead content.

Send samples of materials to a laboratory for lead analysis. Only use laboratories accredited by the **U.S. EPA National Lead Laboratory Accreditation Program**.

(continued on next page)

- **Action Level (AL):** 2 micrograms per cubic meter of air (2 µg/m³) calculated as an 8-hour time-weighted average (TWA).
- **Permissible Exposure Level (PEL):** 10 µg/m³ calculated as an 8-hour TWA.
- The 8-hour TWA is the employees' full-shift exposure to airborne lead expressed as an 8-hour average exposure.

Regularly assess employee exposure levels

Section 1532.1(d) requires employers to determine if any employee may be exposed to lead at or above the AL. This typically involves personal full-shift air sampling of employees whose lead exposures represent each job classification, in each work area, for each shift. This information determines the protective measures needed, including the type of respirator that must be worn.

Employee exposure assessments may need to be repeated periodically, depending on the results. Affected employees or their representatives must be allowed to observe any exposure monitoring conducted.

Reduce employee lead exposure levels

The employer must implement engineering and work practice controls, including administrative controls, to reduce airborne lead exposure to below the PEL. If that is not feasible, exposures must be reduced as low as possible and respiratory protection must be used. Some key exposure control measures include, but are not limited to:

- **Engineering controls** [1532.1(e)(3)]. Choose tools, materials, and ventilation to reduce airborne lead exposures.
- **Work practice controls** [1532.1(e)(4)]. Control how work is conducted (work, scheduling, etc.) to further reduce airborne exposures.
- **Respiratory protection** [1532.1(f)(1)(B)]. Implement a respiratory protection program when engineering, work practice, and administrative controls are insufficient or not feasible.
  - HEPA (High-Efficiency Particulate Air), N100, R100, or P100 filters are required when air-purifying respirators are used.
  - Employer must provide a powered air-purifying respirator (PAPR) when an employee chooses to use this type of respirator and the respirator will provide adequate protection.
- **Protective work clothing and equipment** [1532.1(g)]. Provide, maintain, and ensure use as required.
- **Housekeeping** [1532.1(h)]. Regardless of employee airborne exposure levels, all surfaces must be maintained as free as possible of lead accumulations, especially in eating areas.
  - Clean surfaces, including floors, by using vacuums equipped with HEPA filters where possible. Shoveling, dry or wet sweeping, and brushing are only allowed when vacuuming or other equally effective methods are ineffective.
  - Prohibit the use of compressed air unless in conjunction with an adequate ventilation system.
- **Hygiene facilities, practices, and regulated areas** [1532.1(i)].
  - All lead exposures:
    - No consumption of food, beverages, tobacco products, or application of cosmetics in areas where employees are exposed to lead.
    - Hand washing facilities with special cleansing compounds.
  - Above the PEL:
    - Change areas.
    - Showers.
    - Eating facilities.
    - Posted regulated areas.
- **Hazard Communication, training, signs** [1532.1(l) and (m)].
  - Post warning signs in regulated areas and where lead exposures are at or above the AL.
  - Ensure all workers exposed to lead are informed of the health hazards of lead through effective implementation of **section 5194 Hazard Communication requirements**.

(continued on next page)

- Ensure the following employees are trained according to section 1532.1(l)(2) requirements, which includes the information in **Appendix B**:
  - All employees exposed to lead at or above the AL on any day.
  - All employees exposed to lead compounds that may cause skin or eye irritation.
  - As interim protection for employees who perform trigger tasks.
- Employees and supervisors engaged in lead-related construction work as defined in **Title 17, CCR, section 35040**, and who have been shown to be exposed to lead at or above 50 µg/m^3 as an 8-hour TWA must be trained by an accredited training provider and certified by the California Department of Health Services (section 1532.1(l)(3)).

Information on lead worker certification
(800-597-LEAD).

- **Medical surveillance** [1532.1(j) & (k)]. The employer must implement medical surveillance for employees exposed to lead at or above the AL, depending on the number of days in any 12-month period exposed at this level. This includes:
  - Blood lead testing and employee notification.
  - Medical examination and consultations.
  - Temporary medical removal protection, where necessary.
- **Interim protection measures for employees doing high-exposure trigger tasks.** [1532.1(d)(2)]. Until employee exposures to airborne lead have been adequately determined, employers must ensure interim employee protection measures are implemented. (See below for more on trigger tasks.) Employers must also use these protections for any other tasks the employer expects will result in employee exposures over the PEL:
  - Respiratory protection appropriate for the trigger task level [1532.1(f)].
  - Protective equipment and clothing [1532.1(g)].
  - Areas for clothes changing [1532.1(i)(2)]; and hand washing [1532.1(i)(5)].
  - Blood test for lead [1532.1(j)(1)(A)].
  - Basic lead hazard, respirator, and safety training [1532.1(l)(1)(A); (l)(2)(C) regarding use of respirators; and **1510 Safety Instruction for Employees**].
  - Posted regulated areas [1532.1(i)(6)].
  - Showers for Level 3 trigger tasks.
  - Time limits for dry abrasive blasting.
  - Monthly blood lead testing for Level 3 trigger tasks.

Trigger Tasks

There are three levels of trigger tasks, based on their assumed level of employee exposure. The assumed exposure level determines the type of required respiratory protection as outlined in Table 1 of section 5144(d)(3).

Level 1 Trigger Tasks: [1532.1(d)(2)(A)]

Assume employee exposure is above the PEL (10 µg/m^3) but not more than 10 times the PEL (100 µg/m^3).

- Where lead-containing coatings or paint are present:
  - Manual demolition of structures.
  - Manual scraping.
  - Heat gun applications.

Trigger Tasks Not Listed: [1532.1(d)(2)(B)]

This includes any tasks not listed above where the employer may expect employee exposures to be more than the PEL.

Level 2 Trigger Tasks: [1532.1(d)(2)(C)]

Assume employee exposure is more than 10 times the PEL (100 µg/m^3) but not more than 50 times the PEL (500 µg/m^3).

- Where lead-containing coatings or paint are present:
  - Manual sanding.
  - Power tool cleaning, grinding, or sanding with dust collection systems.
- Spray painting with lead paint.

(continued on next page)

Level 3 Trigger Tasks: [1532.1(d)(2)(D)]

Assume employee exposure is more than 50 times the PEL (500 µg/m^3).

- Using lead-containing mortar or lead burning.
- Where lead-containing coatings or paint are present:
  - Rivet busting.
  - Power tool cleaning, grinding, or sanding without dust collection systems.
- Cleanup activities where dry expendable abrasives are used.
- Abrasive blasting enclosure movement and removal.
- Abrasive blasting.
- Welding.
- Torch cutting.
- Torch burning.

Written, up-to-date compliance program and pre-job notifications

Before the job begins, employers must establish and implement a written compliance program that meets section 1532.1(e)(2) requirements, including a description of arrangements made among contractors on multi-contractor sites to inform affected employees of potential exposure to lead and regulated areas. In addition, a written **Pre-Job Notification** must be provided to the nearest **Cal/OSHA office** within 24 hours of the start of the work, as required by section 1532.1(p).

Resources

Cal/OSHA

- **Lead in Construction webpage**
- **Title 8 Section 1532.1**
- **Publications**

OSHA

- **Lead in Construction Guide**
- **Lead in Construction Quick Card**
- **Protecting Workers from Lead Hazards Fact Sheet**

California Department of Public Health, Occupational Lead Poisoning Prevention Program (866- 627-1587)

Painting and Decorating Contractors of America (703-383-0800)

Society for Protective Coatings (412-281-2331)

US EPA: Lead in Paint, Dust, and Soil (800-424-LEAD)

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