Rosemead School District

TECHNICAL SPECIFICATION

HAZARDOUS MATERIALS REMOVAL/IMPACT

CAMPUS WIDE ROOFING PROJECT

ENCINITA ELEMENTARY SCHOOL
4515 ENCINITA AVENUE
ROSEMEAD, CALIFORNIA 91770

Volume 1 of 1

EE Project No. 22-Z0046-0002

February 11, 2022

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

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DIVISION 1

GENERAL REQUIREMENTS

SECTION 01010

SCOPE OF WORK

1.1 GENERAL:

The work to be performed by the contractor comprises:

PROJECT: HAZARDOUS MATERIAL REMOVAL/IMPACT IN CONJUNCTION WITH THE ROOFING PROJECT

OWNER: ROSEMEAD SCHOOL DISTRICT

1.2 THE SITE:

The work will be performed at the following site within the Rosemead School District:

Site Location
Encinita Elementary School 4515 Encinita Avenue Rosemead, California 91770

The exact scope and limits of work are the sole responsibility of the Abatement Contractor, he/she shall determine and verify all conditions, quantities, and situations adjoining his/her work and existing items. It is the responsibility of the Abatement Contractor and or prime trade to use trained personnel, proper personal protection and monitoring, wet methods, and compliant disposal of those materials that might be impacted during this project.

1.3 POTENTIAL ASBESTOS HAZARD

A. Abatement Contractor is warned that unprotected exposure to asbestos fibers has been determined to significantly increase risk of incurring the following diseases: asbestosis, lung cancer, mesothelioma, and certain gastrointestinal cancers. Care must be taken to avoid releasing or causing to be released, asbestos fibers into the atmosphere. Within Code of Federal Regulations, Title 29, Section 1926.1101 (abbreviated as 29 CFR 1926.1101), the Occupational Safety and Health Administration (OSHA) has set standards for permissible exposure to airborne concentrations of asbestos fibers, methods of compliance, personal protective equipment, and other methods which must be utilized when working with, or in proximity to asbestos. In executing the contract, the Abatement Contractor certifies that he shall comply with all parts of this regulation, as well as any more stringent requirements as specified in this specification.

B. Abatement Contractor shall presume that detectable levels of asbestos are present in all existing installed surfaces, except and unless objective information to the contrary is provided by the Owner, Owner's Representative, or Owner's Consultant. The Abatement Contractor shall be responsible for conformance with all applicable Cal/Occupational Safety and Health Administration (Cal/OSHA) Worker Protection and Cal/Environmental Protection Agency (EPA) Environmental Protection requirements pertaining to asbestos as applicable to the Abatement Contractor's work.

1.4 LEAD-BASED PAINT HAZARD

Lead has been used as a key ingredient in paint for many years. Cal/OSHA requires all employers of employees who work with materials that may be toxic, including lead-containing paint, to provide hazard communication and training to their employees. All contractors shall ensure that they are in compliance with all Cal/OSHA and applicable regulations. Additionally, the contractors shall observe the following work practices:

- Absolutely no dry sanding of painted surfaces.
- When surface cleaning is necessary for repainting, surfaces shall be wet-cleaned or HEPA vacuumed.
- Voids or ridges in painted surfaces shall be filled or "feathered" as necessary with compatible, non-lead containing products.
- Paint Film Stabilization is required where loose and flaky paint exists prior to component removal and/or demolition. A top coat sealer shall be applied to prevent further lead-based paint (LBP) flaking during removal.
- All cleanup of debris shall include wet methods or use of a high efficiency particulate air (HEPA) filtered vacuum.
- All paint debris and disposable equipment/materials from surface preparation, demolition or other paint disturbance, shall be contained and removed from the site.

1.5 SCOPE OF WORK):

Contractor will follow the applicable abatement procedures listed below for that material. Where conflict among requirements or with these specifications exists, the more stringent requirements shall apply.

Hazardous Materials Removal: This Contract covers the furnishings of all labor and materials and proper disposal required for impacting of hazardous materials from the following areas:

A. Asbestos-Containing Materials – Removal:

1. Remove and dispose of asbestos-containing materials (ACM) from areas designated by the various prime trades and/or Construction Manager as required for construction of the Project. Some work may require only partial removal of the materials listed.

2. Contractor should work on no more than one (1) building at any one time. All work must be completed and area pass visual prior to starting an additional work area/building.

3. Final clearance will be accomplished via visual inspection.

Asbestos-Containing Materials Administration Building (A)						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**ACM content**	**Applicable Haz. Mat'l section**
01	No asbestos-containing materials identified on roof or exterior walls anticipated to be impacted by the roofing project.					

Asbestos Scope of Work continues to next page.

Asbestos-Containing Materials Classroom Building (B) – Rooms 1 through 3						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**ACM content**	**Applicable Haz. Mat'l section**
02	Roof penetration mastic	Removal/impact as indicated in plans	Throughout rooftop no. 1 at roof jacks, HVAC, conduit blocks, seams, patches, penetrations and flashing	30 SF	7-10% Chrysotile	02074A HM
03	Roof penetration mastic	Removal/impact as indicated in plans	Throughout rooftop no. 2 at roof jacks, seams, patches, penetrations and flashing	10 SF	4% Chrysotile	02074A HM
04	Roof penetration mastic	Removal/impact as indicated in plans	Breezeway and Student Restroom rooftop at skylights, conduit blocks, flashing, roof jacks, seams, patches and penetrations	10 SF	7-10% Chrysotile	02074A HM

Asbestos-Containing Materials Building C (Multi-Purpose Building)						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**ACM content**	**Applicable Haz. Mat'l section**
05	Not in scope of work for this project, as directed by District.					

Asbestos-Containing Materials Classrooms Building (D) – Rooms 4 through 6						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**ACM content**	**Applicable Haz. Mat'l section**
06	Roof penetration mastic	Removal/impact as indicated in plans	Throughout rooftop no. 1 at HVAC, roof jacks, flashing, conduit support blocks, seams, patches and penetrations	30 SF	5%-10% Chrysotile	02074A HM
07	Roof penetration mastic	Removal/impact as indicated in plans	Throughout rooftop no. 2 at roof jacks, seams, patches, penetrations and flashing	15 SF	10% Chrysotile	02074A HM

Asbestos Scope of Work continues to next page.

Asbestos-Containing Materials Classrooms Building (E) – Rooms 7 through 10						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**ACM content**	**Applicable Haz. Mat'l section**
08	Roof penetration mastic	Removal/impact as indicated in plans	Throughout rooftop no. 1 at roof jacks, HVAC, seams, patches, penetrations and flashing	30 SF	5%-10% Chrysotile	02074A HM
09	Roof penetration mastic	Removal/impact as indicated in plans	Throughout rooftop no. 2 at conduit blocks, roof jacks, seams, patches, penetrations and flashing	15 SF	6%-10% Chrysotile	02074A HM
10	Roof penetration mastic	Removal/impact as indicated in plans	Breezeway and Student Restroom rooftop at skylights, conduit blocks, flashing, roof jacks, seams, patches and penetrations	10 SF	8% Chrysotile	02074A HM

Asbestos-Containing Materials Classrooms Building (F) – Rooms 11 through 14						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**ACM content**	**Applicable Haz. Mat'l section**
11	Roof penetration mastic	Removal/impact as indicated in plans	Throughout rooftop no. 1 at roof jacks, HVAC, conduit blocks, seams, patches, penetrations and flashing	30 SF	10% Chrysotile	02074A HM
12	Roof penetration mastic	Removal/impact as indicated in plans	Throughout rooftop no. 2 at roof jacks, seams, patches, penetrations and flashing	15 SF	8% Chrysotile	02074A HM

Asbestos-Containing Materials Classroom Building (G) – Rooms 15 through 18						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**ACM content**	**Applicable Haz. Mat'l section**
13	Roof penetration mastic	Removal/impact as indicated in plans	Throughout rooftop no. 1 at conduit blocks, roof jacks, HVAC, seams, patches, penetrations and flashing	30 SF	7-10% Chrysotile	02074A HM
14	Roof penetration mastic	Removal/impact as indicated in plans	Throughout rooftop no. 2 at roof jacks, seams, patches and penetrations	15 SF	8-10% Chrysotile	02074A HM
15	Roof penetration mastic	Removal/impact as indicated in plans	Breezeway and Student Restroom rooftop at skylights, flashing, roof jacks, seams, patches and penetrations	10 SF	8% Chrysotile	02074A HM

Asbestos Scope of Work continues to next page.

Asbestos-Containing Materials Classroom Building (H) – Rooms 19 and 20						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**ACM content**	**Applicable Haz. Mat'l section**
16	Roof penetration mastic	Removal/impact as indicated in plans	Throughout roof top at HVAC, conduit blocks, roof jacks, seams, patches and penetrations	20 SF	10% Chrysotile	02074A HM

Asbestos-Containing Materials Staff Restroom Building						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**ACM content**	**Applicable Haz. Mat'l section**
17	No asbestos-containing materials identified on roof or exterior walls anticipated to be impacted by the roofing project.					

Asbestos-Containing Materials Covered Walkways No. 1 through 7						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**ACM content**	**Applicable Haz. Mat'l section**
18	Roof penetration mastic	Removal/impact as indicated in plans	Throughout rooftop of Covered Walkway no. 1 at flashing, conduit blocks and roof jacks	3 SF	5-10% Chrysotile	02074A HM
19	Roof penetration mastic	Removal/impact as indicated in plans	Throughout rooftop of Covered Walkway no. 2 at flashing, patches, conduit blocks and roof jacks	14 SF	5-10% Chrysotile	02074A HM
20	Roof penetration mastic	Removal/impact as indicated in plans	Throughout rooftop of Covered Walkway no. 3 at flashing, patches, HVAC and roof jacks	12 SF	4% Chrysotile	02074A HM
21	Roof penetration mastic	Removal/impact as indicated in plans	Throughout rooftop of Covered Walkway no. 4 at patches, flashing and conduit blocks	20 SF	4-8% Chrysotile	02074A HM
22	Roof penetration mastic	Removal/impact as indicated in plans	Throughout roof top of Covered Walkway no. 5 at flashing, patches, conduit blocks	20 SF	3-5% Chrysotile	02074A HM
23	Roof penetration mastic	Removal/impact as indicated in plans	Throughout rooftop of Covered Walkway no. 6 at patches, flashing conduit blocks and roof jacks	12 SF	4% Chrysotile	02074A HM
24	Roof penetration mastic	Removal/impact as indicated in plans	Throughout rooftop of Covered Walkway no. 7 at flashing, patches, conduit blocks	30 SF	4-8% Chrysotile	02074A HM

Asbestos Scope of Work continues to next page.

Asbestos-Containing Materials Portables						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**ACM content**	**Applicable Haz. Mat'l section**
25	Roof penetration mastic	Removal/impact as indicated in plans	Throughout roof top of Portable P22 at patches	2 SF	5-8% Chrysotile	02074A HM
26	Roof penetration mastic	Removal/impact as indicated in plans	Throughout roof top of Portable P23 at patches	2 SF	3-8% Chrysotile	02074A HM
27	Roof penetration mastic	Removal/impact as indicated in plans	Throughout roof top of Portable P24 at patches	2 SF	5-10% Chrysotile	02074A HM
28	Roof penetration mastic	Removal/impact as indicated in plans	Throughout roof top of Portable P25 at patches and roof jacks	2 SF	5-10% Chrysotile	02074A HM
29	No asbestos-containing materials identified on roof of Portables P21, P28, P29, P30 and P40 to be anticipated to be impacted by the roofing project.					
30	No suspect asbestos-containing materials were identified on the exterior walls of the Portables P21, P22, P23, P24, P25, P28, P29, P30 and P40.					
31	P26 and P27 are not in scope of work for this project, as directed by District					

END OF ASBESTOS SCOPE

B. Lead Abatement Procedures:

1. Remove and dispose of surfaces coated with lead-based paint from areas designated by the various prime trades and/or Construction Manager as required for construction of the Project. Some work may require only partial removal of the components listed.
2. It is the responsibility of all contractors to use trained and certified personnel in accordance with California Department of Public Health (CDPH) and the Environmental Protection Agency's (EPA) Renovation, Repair, and Painting (RRP) regulations, and use proper personal protection and monitoring, wet methods, and proper disposal of materials that might be impacted during this project.
3. Paint film stabilization is required where loose and flaky paint exist prior to component removal or demolition. A top coat sealer shall be applied to prevent futher LBP flaking during removal.
4. For all surfaces scheduled for repainting, paint film stabilization or paint removal will be required. Loose and flaky paint should be scraped and a top-coat compatible primer should be applied over intact areas for further surface preparation/painting by other trades.
5. Clearance sampling will be accomplished via lead wipe samples collected at random location throughout the work areas.
6. Contractor should work on no more than one (1) building at any one time. All work must be completed prior to starting an additional work area/building. If an area should fail clearance wipe sampling, contractor is to return to re-clean area at start of shift following receipt of sample results.
7. The contractor shall be responsible for all testing required for the proper disposal of all lead-based paint and lead-containing waste materials. This will require testing

using waste stream analysis by the TTLC, STLC, and TCLP methods successively, if necessary, to determine non-regulatory limits for disposal. Contractor shall ensure that the attending consultant monitors and is aware (in writing) of each specific material sampling for waste stream analysis. **This information must be provided to the consultant prior to the material being removed from the site for testing.** Materials shall not be removed from the site until such testing and its results are provided to the consultant.

Lead-Based Paint **Administration Building (A)**						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**Lead content Mg/cm^2**	**Applicable Haz. Mat'l section**
32	Metal drip edge	Removal/impact of component as indicated in plans or requested by District	Exterior, side A	67 Linear Feet	3.5, 25.2	02093 HM 02095 HM
33	Wood fascia	Removal/impact of component as indicated in plans or requested by District		67 Linear Feet	137, 79, 21.4, 31	02093 HM 02095 HM
34	Metal pipe jack covering	Removal/impact of component as indicated in plans or requested by District	Roof top	5 Total	68	02093 HM 02095 HM
35	Metal HVAC duct support post	Removal/impact of component as indicated in plans or requested by District		20 EA	68	02093 HM 02095 HM

Lead-Based Paint **Classroom Building (B) – Rooms 1 through 3**						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**Lead content Mg/cm^2**	**Applicable Haz. Mat'l section**
36	Metal pipe jack covering	Removal/impact of component as indicated in plans or requested by District	Lower Roof Student Restroom Roof Breezeway Roof	7 Total	68, 61, 70	02093 HM 02095 HM
37	Metal wall flashing	Removal/impact of component as indicated in plans or requested by District	Breezeway, side A at roof	20 Linear Feet	1.4	02093 HM 02095 HM

Lead-Based Paint **Classroom Building (D) – Rooms 4 through 6**						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**Lead content Mg/cm^2**	**Applicable Haz. Mat'l section**
38	Metal pipe jack covering	Removal/impact of component as indicated in plans or requested by District	Lower Roof	4 Total	70	02093 HM 02095 HM

Lead-Based Paint Scope of Work continues to next page.

Lead-Based Paint Classroom Building (E) – Rooms 7 through 10						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**Lead content Mg/cm^2**	**Applicable Haz. Mat'l section**
39	Metal pipe jack covering	Removal/impact of component as indicated in plans or requested by District	Lower Roof Student Restroom Roof Breezeway Roof	6 Total	69, 69, 28.9	02093 HM 02095 HM
40	Metal wall flashing	Removal/impact of component as indicated in plans or requested by District	Breezeway, side A at roof	20 Linear Feet	3.1	02093 HM 02095 HM

Lead-Based Paint Classroom Building (F) – Rooms 11 through 14						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**Lead content Mg/cm^2**	**Applicable Haz. Mat'l section**
41	Metal pipe jack covering	Removal/impact of component as indicated in plans or requested by District	Lower Roof	4 Total	70	02093 HM 02095 HM
42	Metal drip edge	Removal/impact of component as indicated in plans or requested by District	Lower roof, sides C & D	140 Linear Feet	Positive per EE Report Dated June 2020	02093 HM 02095 HM

Lead-Based Paint Classroom Building (G) – Rooms 15 through 18						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**Lead content Mg/cm^2**	**Applicable Haz. Mat'l section**
43	Metal pipe jack covering	Removal/impact of component as indicated in plans or requested by District	Lower Roof Student Restroom Roof Breezeway Roof	9 Total	72, 70, 71	02093 HM 02095 HM
44	Metal wall flashing	Removal/impact of component as indicated in plans or requested by District	Breezeway, side A at roof Lower Roof, side B	148 Linear Feet	0.8, 1.4	02093 HM 02095 HM
45	Metal drip edge	Removal/impact of component as indicated in plans or requested by District	Lower roof, sides C & D	140 Linear Feet	Positive per EE Report Dated June 2020	02093 HM 02095 HM

Lead-Based Paint Scope of Work continues to next page.

Lead-Based Paint Classroom Building (H) – Rooms 19 and 20						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**Lead content Mg/cm^2**	**Applicable Haz. Mat'l section**
46	Metal pipe jack covering	Removal/impact of component as indicated in plans or requested by District	Rooftop, north side (D)	3 Total	71	02093 HM 02095 HM

Lead-Based Paint Staff Restroom Building						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**Lead content Mg/cm^2**	**Applicable Haz. Mat'l section**
47	No regulated lead-based paint was identified on the exterior surfaces or components anticipated to be impacted by the roofing project					

Lead-Based Paint Covered Walkways No. 1 through 7						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**Lead content Mg/cm^2**	**Applicable Haz. Mat'l section**
48	Metal pipe jack covering	Removal/impact of component as indicated in plans or requested by District	Covered Walkway no. 1	2 Total	63	02093 HM 02095 HM
49	Metal pipe jack covering	Removal/impact of component as indicated in plans or requested by District	Covered Walkway no. 3	3 Total	2.7	02093 HM 02095 HM
50	Metal wall flashing	Removal/impact of component as indicated in plans or requested by District	Covered Walkway no. 3, roof side C at wall of Building D	6 Linear Feet	1.1	02093 HM 02095 HM
51	Metal wall flashing	Removal/impact of component as indicated in plans or requested by District	Covered Walkway no. 5, roof side D at wall of Building E	128 Linear Feet	0.9, 5.8	02093 HM 02095 HM
52	Metal wall flashing	Removal/impact of component as indicated in plans or requested by District	Covered Walkway no. 7, roof side C at wall of Buildings F & G	40 Linear Feet	1.2, 1.3	02093 HM 02095 HM
53	Metal conduit	Removal/impact of component as indicated in plans or requested by District	Covered Walkway no. 3	2 Total	1.5, 1.2	02093 HM 02095 HM
54	No regulated lead-based paint was identified on surfaces and/or components that may be impacted by the roofing project for Covered Walkways No. 2, 4 and 6.					

Lead-Based Paint Scope of Work continues to next page.

Lead-Based Paint Portables						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**Lead content Mg/cm^2**	**Applicable Haz. Mat'l section**
55	No regulated lead-based paint was identified on exterior surfaces and/or components that may be impacted by the roofing project for Portables P21 through P25, P28, P29, P30 and P40.					

Lead-Based Paint Portables P26, P27 and Building C						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**Lead content Mg/cm^2**	**Applicable Haz. Mat'l section**
56	Not in scope of work for this project as directed by District					

END OF LBP SCOPE

END OF SCOPE OF WORK

1.7 WORK PLAN:

A preliminary work plan and proposed schedule shall be submitted with the bid form. Detailed work plan to be submitted within five (5) days of award of contract. At a minimum, the plan must include the following items:

A. **Project schedule:** Include the proposed shifts, time, and manpower (include number of men per shift).

B. **Detailed Work Plan:**

1. **Protective Equipment:** Specifying protective equipment (respiratory and body protection).
2. **Layout and Location on a drawing for each phase of work:**
   a. **Decontamination:** Decontamination areas.
   b. **Work Area:** Work area location, waste out area, location of equipment (staging area).
   c. **Waste Bin:** Location of waste bins.
3. **Document for each phase of work:**
   a. **Containment:** Containment construction and methods.
   b. **Disposal:** Disposal plan to include transporter and landfill name.
   c. **Removal Methods**: Removal methods to prohibit visible emissions. Specific techniques/procedures for each material to be abated.
   d. **Air monitoring firm/lab:** For conducting/analysis of personal samples.

e. **Levels of respiratory protection:** Provide levels of respiratory protection for each type of removal.

f. **Equipment:** Equipment assigned to the project.

C. **Removal Methods:** In compliance with local, state, and federal requirements for asbestos removal.

D. **Contacts:** Point of contact for questions.

E. **Security/Fire Watch Plan:** Names, qualifications, etc. (if applicable)

1.8 SITE ACCESS

Site access is available during the days and hours as specified in bid documents and/or pre-construction meetings.

END OF SECTION

SECTION 01011HM

ADDITONAL CONDITIONS FOR HAZARDOUS MATERIALS WORK

1.1 GENERAL:

A. The work to be performed by the HAZARDOUS MATERIALS CONTRACTOR is defined in the methodologies of the Hazardous Materials Specifications as referenced, the General and Special Conditions, Division1/General Requirements, all special requirements, Section 01011 HM and specifically outlined in the Scope of Work.

B. As further clarification, the following apply to this contract:

1. This Contract covers the furnishings of all labor and materials and compliant disposal of hazardous materials impacted as required by the scope of work. Some work may require only partial removal of the materials listed.
2. It is the responsibility of the Abatement Contractor and/or prime trade to use trained personnel, proper personal protection and monitoring, wet methods and compliant disposal of those materials which might be impacted during this project.
3. The District has made every attempt to identify all materials which will be impacted by this project. Except for those materials where objective information is provided to the contrary by the Owner, Owner's Representative, or Owner's Consultant, the Abatement Contractor shall presume that detectable levels of asbestos or lead are present in all remaining materials. If the Contractor is to impact materials, the contractor shall contact the Owner or Owner's representative prior to such impact.
4. The Abatement Contractor shall be responsible for conformance with all applicable Cal/OSHA Worker Protection and Cal/EPA Environmental Protection and South Coast Air Quality Management District requirements pertaining to asbestos and/or lead paint as applicable to the Abatement Contractor's work.
5. Hazardous Materials Contractor shall use California Department of Public Health (CDPH) and the Environmental Protection Agency's (EPA) Renovation, Repair, and Painting (RRP) trained and certified personnel for all lead-related work. In addition, Hazardous Material Contractor must also be certified as a firm in accordance with the EPA's RRP regulation.
6. Contractor should work on no more than one (1) building at any one time. All work must be completed prior to starting an additional work area/building. If an area should fail clearance visual/sampling, contractor is to return to re-clean area at start of shift following receipt of visual/sample results.
7. Area clearance for lead: For lead, all clearance wipes shall be randomly performed for those areas impacted through refinishing/repainting where scraping of LBP has occurred.
8. Contractor will follow the applicable abatement procedures listed in this scope of work. Where conflict among requirements or within these specifications exists, the more stringent requirements shall apply.
9. Provide an English-speaking on-site Competent Person who is able to understand and carry out the work set forth in the contract documents.
10. Have fully staffed and capable crews working simultaneously on separate areas as necessary to maintain the project schedule. This is to include working multiple shifts, off-hours construction, and weekends at no additional cost to the owner.
11. Be responsible for cooperation and coordination with school programs, Contractors of other Bid Packages, Testing Lab, local regulatory agencies, and Utility Companies.

12. Provide to District's Project Consultant satisfactory proof that the appropriate regulatory notification(s) has/have been issued and validation of a signed copy of the Contract with the District.
13. Supply power cords, distribution boxes, adapters, etc., as necessary to complete the work of this Bid package within the prescribed time frame and as such allows the District's Environmental Consultant to have access to five (5) free outlets per containment at any one time. Power will be supplied to locations within 25 feet of each containment/regulated area at no cost to the Environmental Consultant.
14. Provide task lighting as required to facilitate the work of the Bid Package in a timely manner according to the construction schedule. Provide sufficient task lighting to facilitate work of good quality. Provide sufficient task lighting for the Consultant during visual inspections and during clearance testing.
15. Provide sanitary facilities while on-site.
16. Normal hours of construction are from 7:00 am to 5:00 pm on a daily basis. Actual construction hours may be revised as project constraints may vary.
17. Provide and maintain sufficient hazardous waste containers to accommodate the hazardous waste generated on a daily basis. Full waste bin must be removed within two (2) days after bin is full. Waste and waste containers must be removed within two days (2) after the scheduled or agreed upon ending of project.
18. Maintain a clean work area. Perform a thorough clean-up of the area on a daily basis. All hazardous waste MUST be removed from the work area and stored in a locked waste bin.
19. Where areas are accessible from the exterior and cannot be secured because of containment restrictions, Hazardous Materials Contractor shall provide either 24-hour security or construct such a secured barrier while allowing Work Area accessibility to Emergency personnel, the Environmental Consultant, and the District at all times.
20. Hazardous Materials Contractor shall submit a detailed work plan and proposed schedule within five (5) days of award of contract. At a minimum, the plan must include the following items:
    a. **Project schedule:** Include the proposed shifts, time, and manpower (include number of employees per shift).
    b. **Detailed Work Plan:**
        (1) Protective Equipment: Specifying protective equipment (respiratory and body protection).
        (2) Layout and Location on a drawing for each phase of work:
            (a) Decontamination: Decontamination areas.
            (b) Work Area: work area location, waste out area, location of equipment (staging area).
            (c) Waste Bin: Location of waste bins.
        (3) Document for each phase of work:
            (a) Containment: Containment construction and methods.
            (b) Disposal: Disposal plan to include transporter and landfill name.
            (c) Removal Methods: Removal methods to prohibit visible emissions. Specific techniques/procedures for each material to be removed.

(d) Air monitoring firm/lab: For conducting analysis of personnel samples.

(e) Levels of Respiratory Protection: Provide levels of respiratory protection for each type of removal (e.g., floor tile, drywall, etc.).

(f) Contractor to provide copies to Owner of all required SCAQMD permits; “permit to operate” for asbestos related work and “permit to construct” for lead related work of all HEPA vacuums to be used during the project.

(4) Equipment: Equipment assigned to the project.

c. **Specific Removal Methods:** In compliance with local, state and federal requirements for the abatement procedures.

d. **Contacts:** Point of contact for questions.

e. **Security/Fire Watch Plan:** Names, qualifications, etc. (if applicable)

SECTION 02071HM

ASBESTOS REMOVAL

PART 1 - GENERAL

1.1 SCOPE:

This Specification covers the abatement of friable asbestos-containing materials as described in Section 01010HM, Scope of Work.

1.2 DESCRIPTION OF WORK:

A. **General:** The Work specified herein shall be the removal of asbestos-containing material by persons knowledgeable, qualified, and trained in the removal, treatment, handling, and disposal of asbestos-containing material, and the subsequent cleaning of the affected environment, and who comply with Federal, State, and Local regulations which mandate work practices, and who are capable of performing the Work of this Contract.

B. The Contractor shall supply all labor, materials, equipment, services, insurance, and incidentals which are necessary or required to perform the Work in accordance with applicable governmental regulations and these Specifications.

C. **Related Work Specified Elsewhere:** Refer to Sections:

Please refer to Section 01010HM, Scope of Work

1.3 TERMINOLOGY:

The following terms used in these Specifications are defined as listed below:

A. **Abatement:** Procedures to control fiber release from asbestos-containing building materials. Includes securing the Work area, removing the material, cleaning the area, and disposal of the material.

B. **Access Doorway:** A device to allow ingress and egress from one room to another while permitting minimal air movement between the rooms, typically constructed by placing two or three overlapping sheets of plastic over an existing or temporarily framed doorway, securing each along the top of the doorway, securing the vertical edge of one sheet along one vertical side of the doorway, and securing the vertical edge of the other sheet along the opposite vertical side of the doorway; or by using a rigid gasket door and HEPA filter vents.

C. **ACCM:** Asbestos Containing Construction Material which contain one-tenth of a percent or greater, but not greater than one percent asbestos.

D. **ACM:** Asbestos Containing Material is a material which contains greater than one percent asbestos.

E. **Air Filtration Equipment:** A portable local filtration system equipped with HEPA filtration and capable of maintaining a constant, low velocity flow to filter and trap contamination out of the air within the work area and then circulate or exhaust the filtered air to uncontaminated areas. This equipment is also used to establish a reduced pressure within the work area.

D. **Air Monitoring:** The process of measuring the fiber content of a specific volume of air in a stated period of time.

F. **Air Lock:** A system for permitting ingress and egress with minimum air movement between a contaminated area and an uncontaminated area, consisting of dual or triple curtained doorways or rigid gasket doors separated by a dead air space of four feet.

G. **Air Sampling Professional:** The professional contracted or employed to supervise air monitoring and technical deficiencies in Worker protection equipment and procedures during both planning and on-site phases of an abatement project. This individual shall be a certified California Site Surveillance Technician or a California Certified Asbestos Consultant and have specialized experience in air sampling for asbestos.

H. **Amended Water:** Water to which a surfactant has been added.

I. **Area Monitoring:** Sampling of asbestos fiber concentrations within the asbestos Work Area and outside the asbestos Work Area which is representative of the airborne concentrations of asbestos fibers which may reach the breathing zone.

J. **Asbestos:** The term asbestos includes Chrysotile, Amosite, Tremolite, Anthophyllite, and Actinolite.

K. **Asbestos Fibers:** This expression refers to asbestos fibers having an aspect ratio of 3:1 and longer than 5 micrometers.

L. **ASTM:** American Society for Testing and Materials.

M. **Authorized Person or Visitor:** The building owners, or their authorized representative, Contractor's representative, or any representative of a regulatory or other agency having jurisdiction over the Project.

N. **Ceiling Concentration:** An exposure of airborne concentrations of asbestos fibers at any time in excess of 10 fibers per cubic centimeters of air.

O. **CFR:** Code of Federal Regulations.

P. **Clean Room:** An uncontaminated area or room which is a part of the Work decontamination facility with provisions for storage of worker's street clothes and protective equipment.

Q. **Curtained Doorway:** A device to allow ingress and egress from one room to another while permitting minimal air movement between the rooms, typically constructed by placing two overlapping sheets of plastic over an existing or temporarily framed doorway, securing each along the top of the doorway, securing the vertical edge of one

sheet along one vertical side of the doorway, and securing the vertical edge of the other sheet along the opposite vertical side of the doorway.

R. **Decontamination Facility:** A series of connected rooms, with access doorways between any two adjacent rooms, for the decontamination of workers and of materials and equipment. A decontamination facility always contains at least one air lock.

S. **Encapsulant (sealant):** A liquid material which can be applied to asbestos containing material and which controls the possible release of asbestos fiber from the material either by creating a membrane over the surface (bridging encapsulant) or by penetrating into the material and binding its components together (penetrating encapsulant).

T. **Encapsulation:** Procedures necessary to apply an encapsulant to asbestos containing building materials to control the possible release of asbestos fibers into the ambient air.

U. **Encasement:** Procedures necessary to apply an encasement product to an asbestos containing building material to control the possible release of asbestos fibers into the ambient air and to provide closure of the asbestos material to the substrate.

V. **Enclosure:** Procedures necessary to enclose completely asbestos containing material behind airtight, impermeable, permanent barriers.

W. **Equipment Decontamination Facility:** That portion of a decontamination unit designed for controlled transfer of materials and equipment, typically consisting of a washroom and a holding area.

X. **Equipment Room:** A contaminated area or room which is part of the worker decontamination facility with provisions for storage of contaminated clothing and equipment.

Y. **Fixed Object:** A unit of equipment or furniture in the Work area which cannot be removed from the Work area.

Z. **Friable Asbestos Material: Asbestos Containing Material** (ACM) or **Asbestos Containing Construction Material** (ACCM) that can be crumbled, pulverized, or reduced to powder by hand pressure when dry.

AA. **Glovebag Technique:** A method with limited applications for removing small amounts of friable asbestos-containing material from HVAC ducts, short piping runs, valves, joints, elbows, and other non-planar surfaces in a non-contained work area. The glovebag assembly is a manufactured or fabricated device consisting of a glovebag (typically constructed of 6-mil transparent regulate plastic), two inward projecting long sleeve rubber gloves, one inward projecting water-wand sleeve, an internal tool pouch, and an attached, labeled receptacle for asbestos waste. The glovebag is constructed and installed in such a manner that it surrounds the object or area to be decontaminated and contains all asbestos fibers released during the removal process. All workers who are permitted to use the glovebag technique must be highly trained, experienced, and skilled in this method.

BB. **HEPA Filter:** A high efficiency particulate air (HEPA) filter capable of trapping and retaining 99.97 percent of particles (asbestos fibers) greater than 0.3 micrometers in mass median aerodynamic equivalent diameter.

CC. **HEPA Vacuum Equipment:** Vacuuming equipment with a HEPA filter system.

DD. **Holding Area:** A chamber in the equipment decontamination facility located between the washroom and an uncontaminated area. The holding area comprises an air lock.

EE. **Log Book:** A notebook or other book containing essential project data and daily project information and a daily project diary. This book is kept on the Project site at all times.

FF. **Mini-Enclosure:** A method with limited applications for removing small amounts of friable asbestos containing material typical for small-scale, short duration type projects.

GG. **Movable Object:** A unit of equipment or furniture in the Work area which can be removed from the Work area.

HH. **NESHAPS:** National Emission Standards for Hazardous Air Pollutants.

II. **Negative Air Pressure Equipment:** A portable local exhaust system equipped with HEPA filtration and capable of maintaining constant, low velocity airflow into contaminated areas from adjacent uncontaminated areas.

JJ. **NIOSH:** National Institute of Occupational Safety and Health.

KK. **Non-Friable Asbestos Material:** Material that contains asbestos in which the fibers have been locked in by a bonding agent, coating, binder, or other material so that the asbestos is well bound and will not release fibers in excess of the asbestos control limit during any appropriate use, handling, demolition, storage, transportation, processing, or disposal. Also a material which cannot easily be crumbled, pulverized, or reduced to powder by hand pressure when dry.

LL. **Personnel Monitoring:** Sampling of asbestos fiber concentrations within the breathing zone of an asbestos Worker.

MM. **Plasticize:** To cover floor, walls, and other surfaces with plastic sheeting as herein specified.

NN. **Removal:** All herein specified procedures necessary to remove asbestos-containing materials from the designated areas and to dispose of these materials at an acceptable site.

OO. **Shower Room:** A room between the clean room and the equipment room in the worker decontamination unit with hot and cold or warm running water and suitably arranged for complete showering during decontamination. The shower room comprises an air lock between contaminated and clean areas.

PP. **Surfactant:** A chemical wetting agent added to water to improve penetration.

QQ. **Washroom:** A room between the Work area and the holding area in the equipment decontamination area; or between the equipment room and non-work area (2-stage decontamination unit). The washroom comprises an air lock.

RR. **Wet Cleaning:** The process of eliminating asbestos-contamination from building surfaces and objects by using cloths, mops, or other cleaning tools which have been dampened with water, and by afterwards disposing of these cleaning tools as asbestos-contaminated waste.

SS. **Work Area:** Designated rooms, spaces, or areas of the Project in which asbestos abatement actions are to be undertaken or which may become contaminated as a result of such abatement actions. A contained work area is a work area which has been sealed, plasticized, and equipped with a decontamination enclosure system. A non-contained work area is an isolated or controlled-access work area which has not been plasticized nor equipped with a decontamination enclosure system.

TT. **Worker Decontamination Facility:** That portion of a decontamination facility designed for controlled passage of workers, and other personnel and authorized visitors, typically consisting of a clean room, a shower room, and an equipment room.

1.4 APPLICABLE DOCUMENTS:

The current issue of each document shall govern. Where conflict among requirements or with these Specifications exists, the more stringent requirements shall apply.

A. **Regulations:** Comply with applicable federal, state, and local regulations.

1. General - Codes, regulations and references applicable to asbestos abatement work include but are not limited to the following:

2. All Federal, State, Local, and South Coast Air Quality Management District regulations.

3. American National Standards Institute (ANSI) publications;

Z9.2-79	Fundamentals Governing the Design and Operation of Local Exhaust Systems
Z87.1-79	Occupational and Educational Eye and Face Protection
Z88.2-80	Practices for Respiratory Protection
Z89.1-81	Requirements for Protective Headgear for Industrial Workers
Z41-83	Personal Protection - Protective Footwear
Z88.6-84	Respiratory Protection - Respiratory use Physical Qualifications for Personnel

4. American Society for Testing and Materials (ASTM) publications;

D331-56 Surface and Interfacial Tensions of Solutions of Surface Active Agents

5. Code of Federal Regulations (CFR);

29 CFR 1910.12	Construction Work
29 CFR 1910.20	General Safety and Health Provisions Access to Employee Exposure and Medical Records
29 CFR 1910	Subpart 1, Personal Protective Equipment
29 CFR 1910.145	Specifications for Accident Prevention Signs and Tags
29 CFR 1926.1101	Asbestos
29 CFR 1926	Asbestos, Tremolite, Anthophyllite, and Actinolite (Including All Mandatory Appendices)
34 CFR 231	Appendix C, Procedures for Containing and Removing Building Materials Containing Asbestos
40 CFR 61	Subpart A and Subpart M, USEPA, National Emission Standards for Hazardous Air Pollutants (NESHAPS)

6. Compressed Gas, Inc.

G-7.1	Commodity Specification for Air (1973)

7. National Fire Protection (NFPA)

No. 70.1984 National Electrical Code

8. UL 586-77 (R1982) Test Performance of High Efficiency Particulate Air Filter Units (June 10, 1977, 5th Ed.; Rev. March 12, 1982)

9. National Institute for Occupation Safety and Health (NIOSH)

N31, 3rd. Ed., Vol. 1	Manual of Analytical Methods, Method 7400 Fibers

10. Environmental Protection Agency Documents:

EPA 530-SW-85-007	Asbestos Waste Management Guidance, May 1985
EPA 560/5-85-024	Guidance for Controlling Asbestos Containing Material in Buildings, June 1985
EPA 600/4-85-049	Measuring Airborne Asbestos Following and Abatement Action, November 1985
EPA 560 OPTS-86.001	A Guide to Respiratory Protection for the Asbestos Abatement Industry, April 1986

11. Department of Transportation (DOT)

DOT 49 CFR,	Parts 171-177 regarding the transport of hazardous materials.

12. California Administrative Code (CAC)

Title 8, Article 2.5	Registration Asbestos-Related work (Section 341.6 through 341.14)
Title 8, Section 5208	General Industry Safety Orders, Asbestos Regulations
Title 22, Division 4, Chapter 30	Minimum Standards for Management of Hazardous and Extremely Hazardous Waste

13. Air Pollution Control District Regulations

South Coast Air Quality Management District	Rule 1403

B. **Codes and Ordinances**: Comply with all state, county, and city codes and ordinances as applicable.

1.5 SUBMITTALS AND NOTICES:

Prior to commencement of work and/or within the time-frames specified below:

A. **General:** Requirements are as set forth in the General Conditions and Supplementary Conditions (Owner's) for items required to be submitted under this section.

B. **Product data**: Shall include manufacturer's product data, specifications, samples and application instructions and other pertinent information as necessary.

C. **Alternatives:** Product substitution submittal shall be in accordance with the General Conditions and Supplementary (Owner's) Conditions.

D. **Procedure Plans and Shop Drawings**: Submit to the Owner's consultant Procedure Plans and Shop Drawings and ensure that they are in compliance with this Specification and applicable regulations. Shop Drawings will include: construction of decontamination enclosure systems and/or facilities; isolation of the Work areas; placement of negative air machines and their exhaust, emergency exits, and placements of fire extinguishers and first aid kits.

1. Personal monitoring procedures in accordance with T8 CCR 1529.

2. Phasing of abatement work indicating daily roster of workers for each phase.

3. Security system warning signs locations in accordance with 29 CFR 1910.245, T8 CCR 1532.1, and T8 CCR 1529.

4. Detailed plans for decontamination facilities, toilets, and systems providing inter-room and work area to outside communication showing connections to existing building.

5. Standard procedures for protecting workers, visitors, and employees and protection of spaces outside work area from contamination.

6. Engineering systems exposure control indicating number, location, and capacity of supply and exhaust systems, the expected direction of flow, and the range of expected negative air pressure in each area.

E. **Qualifications: For Public Bid Projects** submit the following documents within seven (7) days from Notice to Proceed or by contract requirements, whichever is greater

1. **License:** Submit copy of current contractor license from the California Contractors State License Board.

2. **Insurance:** Submit copy of current insurance as required to perform work and as required by the General and Hazardous Materials specifications and Owner and Owner's representative.

3. **Registration:** Submit copy of the registration for Asbestos-Related Work from the Division of Occupational Safety and Health in accordance with Title 8, Article 2.5 of the California Administrative Code.

4. **Personnel Training-Superintendent and Foreman (Competent Person):** Submit copy of current certificate signed training institution that he or she has successfully completed a training course in asbestos abatement project supervision (Competent Person) offered by an EPA endorsed and Cal-OSHA accredited educational institution.

5. **Personnel Training-Workers:** Submit copy of the asbestos abatement employee training program, and certificates signed by each employee that he or she has had instructions on the hazards of asbestos exposure, has had training in asbestos removal, and understands this instruction. Submit copy of current certificate signed by the training institution that he or she has successfully completed a course (or refresher) in asbestos abatement worker training offered by an EPA endorsed and Cal-OSHA accredited educational institution.

6. **Personal Protection and Exposure Understanding:** Submit documentation to the Owner's consultant indicating that each employee has had instruction on the hazards of asbestos exposure, on use and fitting of respirator, on protective dress, on use of showers, on entry and exit from work areas, and on all aspects of work procedures and protective measures and understands this instruction.

7. **Respirators:** Submit a written standard operating procedure governing selection, fit-testing, and use of respirators in accordance with 29 CFR 1910, Subpart 1, 29 CFR 1926.1101, CGAI Standard G7.1, ANSI Z88.2, and Z88.6. Also submit manufacturer's certification that the respirators to be used in this project comply with these regulatory requirements.

8. **Medical Examination:** Submit proof that personnel who will be entering contaminated areas have had medical examinations, and furnish the results of said exam to Owner's consultant. Comply with 29 CFR 1910.20 for access to employee exposure and medical records.

    a. **Exam and History:** Before exposure to airborne asbestos, provide each employee with a comprehensive medical exam meeting the general definition outlined in California Administration Code Title 8 California Code of Regulations. No employee shall be allowed to enter the Work Area without having first provided a copy of his Medical History to the Owner's Representative.

    b. **Employee Roster:** Submit an employee roster to Owner's consultant for each Work shift and confirm in writing within 24 hours of commencement of shift. The roster will consist of a list of employees who have received training and medical examinations per paragraphs Part 1.5, E.4, E.5, E.6, and E.8 of this section. A copy of this list is to be maintained in the Project Logbook.

    c. **Proof of Documentation to Physician:** Contractor must provide verification to the Owner's consultant that the employer has provided the following information to the examining physician or physicians:

        i. A copy of OSHA regulation Standard 29 CFR 1926.1101 and Appendices D, E, and F.

        ii. A description of the affected employee's duties as they relate to the employee's exposure.

        iii. The employee's representative exposure level or anticipated exposure level.

        iv. A description of any personal protective and respiratory equipment used or to be used.

        v. Information from previous medical examinations of the affected employee
        vi. that is not otherwise available to the examining physician.

F. **Notifications, Permits, Communications, and Postings.**

1. **Submit copies of notifications to all appropriate Government agencies, including the following:**

    a. CAL-OSHA (310) 949-7827 Notification shall be in accordance with the Section 341.9 of Title 8 of California Administrative Code.

    b. South Coast Air Quality Management District (If required) Hazardous Materials Section:

        21865 Copely Drive
        Diamond Bar, CA 91765-8142
        (909) 396-2336

c. Any Notifications to EPA.

d. All Notifications and Copies of Government agency correspondence shall be included in the submittals and copies are to be kept in the Project Logbook.

e. Where local police and fire departments have jurisdiction, secure approval of the proposed security and safety plans for the work prior to submittal to Owner's Representative. Contact both departments for the requirements of the approval process.

2. **Proof of Permits, Site Requirements and Disposal of Waste:** Submit proof satisfactory to the Owner's consultant that all required permits, site location, and arrangements for transport and disposal of asbestos containing materials, supplies, and the like have been obtained. Copies of these items are to be kept in the Project Log Book

3. **Safety Compliance:** In addition to detailed requirements of this Specification, comply with laws, ordinances, rules, and regulations of federal, state**,** regional, local authorities, and Owner's representative regarding handling, storing, transporting, and disposing of asbestos waste materials. Comply with applicable requirements of the current issue of 29 CFR 1910, 29 CFR 1926.1101, and 40 CFR 61, Subparts A, & M, 40 CFR 61.152, and CAC Section 5208.

4. **Standards Interpretations:** Submit matters of interpretation of standards to the appropriate administrative agency for resolution before starting Work. Where requirements of this Specification and reference documents vary, the most stringent requirement shall apply.

5. **Availability of Regulatory References:** Contractor shall have at least one copy each of 29 CFR 1910, 29. CFR.1910.134; 29 CFR 1926, 40 CFR Part 261, and CAC, Title 8, Section 5208, at his office and also at the job site.

6. **Posting of Caution Signs:** Before the commencement of any Work at the site, post bilingual EPA and CAL-OSHA caution signs in and around the Work Area to comply with EPA and OSHA regulations.

7. **Submit Training and Certifications:** Submit proof to the Owner's consultant that all asbestos workers assigned to this project are currently Cal-OSHA certified and accredited as an Asbestos Worker under the Asbestos Hazard Emergency Response Act. Submit proof to the Owner's consultant that at least one employee on each shift shall be currently Cal-OSHA certified and accredited as a Supervisor and shall have successfully completed in the last 12 months a course of instruction meeting the requirement for "Competent Person" (29 CFR 1926.1101).

8. **Project Logbook Submittals:** Submit front-end documents of Project Logbook. These documents will include copies of the Contractor's Respiratory Protection Program, HUD, and OSHA documents, worker decontamination procedures, equipment decontamination procedures, authorized personnel list, format of daily report sheets, test reports on waste materials, and format of waste manifests. The completed daily reports and waste manifests shall be submitted along with pay

requests for completed work. Copies of these front-end documents shall be maintained at the site during the asbestos removal phase of the Project.

a. Superintendent is required to keep the Project Logbook up to date, ensure that all work criteria is followed in the proper sequence, and to fill out the enclosed check list to document the progression of the job. A separate checklist will be required for each individually prepped work area.

9. **Property Condition Assessment:** Owner, Architect/Engineer, or Owner's consultant, and Contractor must agree in writing on building and fixture condition prior to commencement of Work. The Contractor shall submit an inventory of all items removed from the Work area and an inventory of all items remaining in the Work area.

10. **Informing Other Trades:** The asbestos abatement contractor must inform other employers on site of the nature of the Contractor's work with asbestos-containing materials and the existence of and requirements pertaining to regulated areas. Such notification shall be coordinated with, and approved by, the Owner.

11. **Pressure Strip Recordings (Manometer):** At the termination of the project, submit copies of all pressure strip chart recordings.

G. **Field Air Sampling:**

Personal monitoring and other monitoring which is required by law or considered necessary by the Contractor for Worker protection shall be the responsibility of the Contractor and performed by Contractor's Air Sampling Professional.

H. **Certifications:**

1. **Equipment Certification:** Submit manufacturer's certification that vacuums, negative air pressure equipment filters, and other local exhaust ventilation equipment conform to ANSI Z9.2, as well as all Federal, State, Local, and SCAQMD regulations.

2. **Rental Equipment:** When rental equipment is to be used in removal areas or to transport waste materials, a copy of the written notification provided to the rental company informing them of the nature of use of the rented equipment shall be submitted to the Owner or Owner’s Representative and signed by the rental company.

I. **Use of Vec-loader Equipment:**

The use of the vacuum equipment, its placement, and safety program shall be submitted for review.

1.6 PERSONAL PROTECTION AND SAFETY:

A. **General:** The Contractor alone shall be responsible for the safety, efficiency, and adequacy of his or her plant, appliances, methods, and for any damages which may result from his or her operations, improper construction practices, or maintenance. He

or she shall erect and properly maintain at all times as required by the conditions and progress of the Work, proper safeguards for the protection of workmen and the public and shall post warning signs around the job site.

B. **Personal Protective Equipment:**

1. Provide workers and authorized visitors with sufficient set of protective full body impervious protective clothing. Personal Protective Equipment shall comply with the requirements of 29 CFR 1910, Subpart I.

2. Work clothes shall consist of fire retarding, disposable, full-body coveralls, head covers, boots, rubber gloves, and steeled-toe boots or equivalent in accordance with 29 CFR 1926.134, and ANSI Z41. Sleeves at wrists and cuffs at ankles shall be secure.

3. Provide eye protection and hardhats as required by applicable safety regulations and shall conform to ANSI 87.1 and 89.1.

4. Provide authorized visitors with suitable protective clothing, headgear, eye protection, and footwear whenever they are required to enter Work area.

C. **Respiratory Protection Requirements:**

1. Disposable (single use) respirators are not to be worn for protection against asbestos.

2. **Providing of Equipment:** Provide all workers, foremen, superintendents, authorized visitors, and inspectors personally issued and marked respiratory equipment approved by NIOSH. When respirators with disposable filters are employed, provide sufficient filters for replacement as recommended by manufacturers or this specification. Selection of respirators shall be made according to the guidance of 29 CFR 1910 Subpart 1, ANSI Z88.2; CGAI G7.1; EPA 560 OPTS-86.001; and Table I of this section. The Contractor shall provide masks, new in the box, in all sizes produced by the respirator manufacturer (one each). These masks shall be provided for the exclusive use of the Owner's representatives and shall be available at all times.

3. **Approved Respirators:** Contractor will ensure that all respirators used shall be selected from those approved by National Institute of Occupational Safety and Health (NIOSH) for use in atmospheres containing asbestos, solvents, removers, and against other toxic materials which may be used during the project.

4. **Powered Air-Purifying Respirators (PAPR) Usage:** Full containment work activities associated with the abatement of asbestos-containing materials shall be conducted while wearing, at a minimum, a full facepiece, powered air-purifying respirator equipped with HEPA filters during the following tasks or under the following conditions:

   a. During removal or disturbance of asbestos-containing materials or where the likelihood of disturbance may occur. This determination shall be up to the Owner's consultant.

b. During all cleanup and wipe down of area. This determination shall be up to the Owner's consultant.

c. During any operation where damaged friable asbestos is present during area preparation.

d. At any time that air monitoring levels indicate that asbestos concentrations are greater than 0.25 fibers/cc.

e. Any situation where gross contamination has occurred because of a tear or rupture in the containment and air sampling indicates that airborne asbestos levels have exceeded 0.25 fibers/cc.

5. **1/2 Mask Respirator Usage:** For the followings tasks or conditions a 1/2 mask air-purifying respirators equipped with high efficiency filters may be used:

   a. Provided maximum airborne fiber concentration outside the respirator is at or below 0.1 fibers/cc.

   b. Pre-construction sealing of openings and penetrations to the work areas with plastic sheeting.

   c. Decontamination of removable items.

   d. Loading asbestos-containing drums on truck for transportation and unloading bags at approved landfill.

TABLE 1

Maximum Airborne Fiber Concentration Outside The Respirator	Protection Factor	Minimum Acceptable Respirator
1 fiber/cc**	10	Half mask and dual cartridge air purifying respirator with cartridges approved for asbestos and with high efficiency filters.*
05 fibers/cc	50	Full face piece respirator and with high efficiency filters.*
10 fibers/cc	1000	Powered air purifying respirator (full face piece) and with high efficiency filters.*
100 fibers/cc**	1000	Type "C" supplied air respirators, full facepiece, pressure demand mode.
Over 100 fibers/cc**	>1000	Type "C" supplied air respirators, full facepiece, pressure demand mode, equipped with an auxiliary positive pressure self-contained breathing apparatus.

*Greater respiratory protection is always acceptable regardless of asbestos concentrations.

**Must demonstrate that the fiber levels will not exceed 0.01 fibers per cubic centimeter (f/cc) inside the respirator based on quantitative mask fit testing for each individual using the respirator protection factor formula.

6. **Type "C" Respirator Usage:** When Type "C" respirators are not required according to the OSHA standard (29 CFR 1926.1101 or this specification, whichever is more stringent), provide workers with approved, permanent, personally-issued and marked respirators with replaceable filters. Provide sufficient quantity of filters approved by NIOSH for use in asbestos environments so that workers can change filters as required by manufacturer during the workday. Filters shall not be used any longer then one workday. Respirator filters shall be stored at job site in clean room and shall be totally protected from exposure to asbestos prior to their use.

7. **Air Supply Compressors:** Compressors shall meet the requirements of 29 CFR 1910 Subpart 1 and the following:

   a. Periodic inspection of the carbon monoxide monitor shall be evidenced.

   b. Documentation of adequacy of compressed air system/respiratory protection system shall be retained on site. Documentation shall include a list of compatible components with the maximum number and type of respirators that may be used with the system.

   c. The full facepiece, type "C" supplied-air respirator system shall be fully approved by appropriate regulatory agencies. The compressor shall be specifically for breathing air and have alarms to indicate compressor failure and overheating. Compressor(s) shall have in-line air-purifying sorbent beds and filters to assure breathing air quality (Grade "D" or better for oil lubricated compressors; Grade "H" or better for electric compressors). The air supply system shall have safeguards to allow for sufficient capacity to allow workers to escape if the air system fails. If an oil-lubricated compressor is used, it shall have a high-temperature or carbon-monoxide alarm, or both. If only a high-temperature alarm is used, a carbon-monoxide converter shall be used.

   d. The compressor intake shall be designed so as to avoid entry of contaminated air into the system either from the compressor exhaust or from other sources of potential contamination. Periodic testing of compressed air shall insure that systems provide air of sufficient quality.

   e. A pressure-indicating gauge shall be placed at the point of connection (distribution point) where the respirator supply hose (which is a part of the approved facemask/hose system) is attached to the air filtration system or any supply manifold which is located between the mask/hose apparatus and the compressor/filter system. The pressure gauge shall be capable of measuring pressure levels which are consistent with those specified by the respirator operating specifications.

   f. The correct pressure level shall be verified at each distribution point each time that the system is engaged. The air supply system will be operated only when operating specifications are maintained.

      Fit Testing: Air respirators shall be fit-tested utilizing Saccharin Solution Aerosol Protocol, Bitrex\TM\ (Denatonium Benzoate) Solution Aerosol

Protocol or isoamyl acetate Protocol with organic filters at the beginning of each project or a minimum of every 12 months as described in Appendix C, 29 CFR 1926.1101. Any of the above three protocols or other similar regulatory protocol may be used.

D. **Bilingual Worker protection procedures (Posted in both English and Spanish):** Adequate shower facilities shall be provided by the Contractor. An employee leaving the Work area shall follow all decontamination procedures necessary or as described herein.

1. **Posted Procedures:** Provide and post, in the Equipment Room and the Clean Room, the decontamination and work procedures to be followed by workers and authorized visitors as described in these Specifications.

2. **Entering the Work Area:** Each worker and authorized visitor shall, upon entering the job site: put on a respirator and clean protective clothing before entering the Equipment Room or the Work area. Clothing that is appropriate for weather and temperature conditions is worn under the protective clothing.

3. **Personnel Exiting the Work Area:**

   a. Ensure that personnel do not leave work areas through the equipment decontamination enclosure.

   b. All workers and authorized visitors shall, each time they leave the Work area; remove gross contamination from clothing before leaving the Work area using a HEPA vacuum; proceed to the Equipment Room and remove all clothing except respirators by carefully rolling down the garment to reduce exposure to dust; clean the outside of the respirator with soap and water while showering; remove the respirator; and thoroughly shampoo and wash themselves.

   c. Following showering and drying off, each Worker shall proceed directly to the clean change room and dress in clean clothes at the end of each day's Work, or before eating, smoking, or drinking.

   d. Before reentering the Work area from the Clean Change Room, each worker and authorized visitor shall put on a clean respirator and shall dress in clean protective clothing.

   e. All workers and authorized visitors shall, at the end of the work day; place disposable clothing in the abatement waste; clean protective gear, including respirators, according to standard procedures; wash hands and face again; proceed to the shower facilities, being certain to wash hair.

   f. Workers shall not eat, drink, smoke, or chew gum or tobacco while in the Work area.

   g. Workers shall be fully protected with respirators and protective clothing from the time of first disturbance of asbestos-containing materials prior to commencing actual abatement and until final cleanup is completed.

4. **Equipment Removal Procedures:** Clean surfaces of contaminated containers and equipment thoroughly by wet sponging or wiping before moving such items into the equipment decontamination enclosure system washroom or through the shower for final cleaning and removal to uncontaminated areas.

    a. Contaminated work footwear shall be stored in the Equipment Room when not in use in the Work area. Upon completion of asbestos abatement, dispose of footwear as contaminated waste.

    b. Workers removing waste containers from the equipment decontamination enclosure shall enter the holding area from outside wearing a respirator and dressed in clean disposable coveralls. No worker shall use this system as a means to leave or enter the washroom or the Work area.

5. **Safety Issues:**

    a. During the removal operations the Contractor may be placing his or her workers in a potentially hazardous electrical environment. Care and special consideration should be exercised by the Contractor to avoid electrical shock to his employees. The requirements as set forth in the latest edition of the National Electrical Code, shall be adhered to at all times. Particular emphasis shall be placed on the requirements listed in Article 210—BRANCH CIRCUITS, Article 225—OUTSIDE BRANCH CIRCUITS AND FEEDERS, Article 250—GROUNDING, Article 300—WIRING METHODS, and Article 305—TEMPORARY WIRING, whenever and wherever the existing electrical power service shall be deenergized and temporary electrical power utilized.

    b. During summer work activities the Work area environment may be very hot and humid. The Contractor shall take precautions to protect his or her workers from the hostile environment as well as the asbestos material. First-aid items such as stretchers, water, and cold packs should be kept adjacent to the Work area exits, thus allowing any personnel requiring emergency treatment egress from the Work area with minimum contamination to the clean environment. No worker shall be allowed to reach through the plastic or air lock door to get water or first aid supplies during break periods inside the Work area. Breaks, lunch, or worker rest periods should be held outside the Work area. All decontamination procedures shall be followed prior to exiting the Work area except in extreme emergencies.

    c. During cold weather periods the workers shall be provided with adequate protection from the environment to not cause harm to the workers.

    d. If evacuation of the Work area is required by contaminated personnel, due to an emergency, all work efforts shall stop, and all forces shall be directed at minimizing the area contamination, cleanup operations, and first-aid procedures. These activities shall be noted in the daily logbook.

    e. During work activities requiring decontamination procedures, the Contractor shall provide a means of communication for the workers inside the Work area without requiring personnel to enter or leave the Work area. This method of communications shall be a two-way radio, localized wire-connected telephone,

or similar system. This communication system shall remain intact until the final containment plastic is removed. Then all equipment shall be wiped down, HEPA vacuumed or disposed of as asbestos-contaminated material.

E. **Posting of Warning Signs:**

Post two safety warning signs which follow the "Sample Format Warning Sign" shown below:

Sample Format Warning Sign
Minimum Size - 24" x 36"
Material - Aluminum or Fiberglass
Script:

DANGER

ASBESTOS

MAY CAUSE CANCER

CAUSES DAMAGE TO LUNGS

AUTHORIZED PERSONNEL ONLY

WEAR RESPIRATORY PROTECTION AND

PROTECTIVE CLOTHING IN THIS AREA

Signs shall be at the entry points to the Work area and shall be clearly read to a distance of 25 feet from the entry point.

F. **Emergency Precautions and Procedures:**

1. Establish emergency and fire exits from the Work Area. Emergency exits shall be equipped with 2 full sets of protective clothing and respirators.

2. Local medical emergency personnel, both ambulance crews and hospital emergency room staff, shall be notified, prior to commencement of abatement operations, as to the possibility of having to handle contaminated or injured Workers and shall be advised on safe decontamination.

3. Contractor shall be prepared to administer first aid to injured personnel after decontamination. Seriously injured personnel shall be treated immediately or evacuated without delay for decontamination. When an injury occurs, the Contractor shall stop Work and implement fiber reduction techniques (e.g., water spraying) until the injured person has been removed from the Work Area.

4. Before starting actual removal of asbestos material(s), local police and fire departments (LA County required) shall be notified as to the danger of entering the Work Area. The Contractor shall make every effort to help these agencies form plans of action should their personnel need to enter the contaminated area.

1.7 SUPERINTENDENT FOREMAN, CRAFTSMAN:

The Contractor shall have a job superintendent (Competent person) present at all times while work on this Contract is in progress.

The Project Superintendent (Competent person) shall be thoroughly familiar and experienced with asbestos removal and related work and shall be familiar with and shall enforce the use of all safety procedures and equipment. He or she shall be knowledgeable of all EPA, OSHA, and NIOSH requirements and guidelines. He or she shall be trained in the proper use of all personal protection and safety equipment including, but not limited to, air purification and respiratory systems.

In addition to the Superintendent (Competent person), the Contractor shall furnish 1 or more foremen (Competent person when Superintendent is absent) who are familiar and experienced with asbestos removal and its related work, safety procedures, and equipment.

A. It shall be a requirement of this Contract that the superintendent and/or one or more of the Contractor's foremen be inside the Work area at all times while work is in progress.

B. It is the intent of these Specifications that all phases of the Work shall be executed by skilled craftsmen experienced or receiving training by experienced personnel in each respective trade.

C. All superintendents and foremen shall have been trained by attending a five-day AHERA and Cal-OSHA approved Contractor/Supervisor of Asbestos Abatement training course and satisfactorily passing all examinations following the training program to allow and maintain all Federal, State, and local requirements and certifications. Only EPA and Cal-OSHA approved training programs will be accepted.

D. Workers shall have been trained by attending an AHERA and Cal-OSHA approved Asbestos Worker training course and satisfactorily passing all examinations following the training program to allow and maintain all Federal, State, and local requirements and certifications. Only EPA and Cal-OSHA approved training programs will be accepted.

E. The Competent person on-site must be able to clearly communicate in a manner so that the Owner’s Consultant and Owner can clearly understand.

PART 2 - MATERIAL AND EQUIPMENT

2.1 MATERIALS:

A. **Packaging:** Deliver all materials in the original packages, container, or bundles bearing the name of the manufacturer and the brand name.

B. **Storage:** Store all materials subject to damage off the ground, away from wet or damp surfaces, and under cover sufficient to prevent damage or contamination. Damaged or deteriorating materials shall not be used and shall be removed from the premises. Material that becomes contaminated with asbestos shall be disposed of in accordance with the applicable regulations.

C. **Plastic:** (Fire retardant polyethylene) Sheet, of 6-mil thickness or greater as specified in sizes to minimize the frequency of joints.

D. **Tape:** Capable of sealing joints of adjacent sheets of polyethylene and for attachment of polyethylene sheet to finished or unfinished surfaces of dissimilar materials and capable of adhering under both dry and wet conditions. Use tape with tough backing which does not leave residue on the adhering surface.

E. **PROTECTIVE PACKAGING**

1. **Impermeable containers:** Suitable to receive and retain any asbestos-containing materials until disposal at an approved site, labeled in accordance with OSHA Regulation 29 CFR 1910.1025 and DOT 49 CFR 171-177. Containers must be both air and watertight and must be resistant to damage and rupture. Drums must be appropriately labeled.

2. **Bags**: Appropriately labeled 6-mil sealable polyethylene bags as minimum.

3. **Bilingual labels**: (English and Spanish) on containment glove bags, waste packages, contaminated material packages and other containers shall be in accordance with EPA and/or OSHA standards.

F. **Warning labels and signs**: As required by 29 CFR 1926.1101 and 29 CFR 1910.145.

G. **Encapsulant use:**

1. For bridging encapsulant use:

   a. Encapsulant to be specified and approved by Owner's representative

2. After removal use clear encapsulant as follows:

   a. Encapsulant to be specified and approved by Owner's representative

3. At steam piping lagging to be encapsulated in place use penetrating encapsulant as follows:

   a. Encapsulant to be specified and approved by Owner's representative

4. Protective coating at encapsulated steam, pipe lagging:

   a. NOT APPLICABLE

H. **Surfactants:**

Surfactants or wetting agent, for amending water will be 50 percent polyoxyethylene ether and 50 percent polyoxyethylene ester, or equivalent, at a concentration of one ounce per 5 gallons of water.

I. **Encasement:**

1. Encasement material to be specified and approved by Owner's representative

2. Characteristics

    a. Meets DNA and EPA 95 guidelines for clean air.

    b. Non-toxic – Non caustic – Non flammable

    c. Grease and oil retardant

    d. Mar resistant

    e. Crack resistant

3. Suitable Product

    a. Encapsulant to be specified and approved by Owner's representative

J. **Lagging adhesive:**

1. Meets NFPA 90A Code;

K. **Other materials:**

Provide all other materials, such as lumber, nails, and hardware, which may be required to construct and dismantle the decontamination area and the barriers that isolate the Work area.

2.2 TOOLS AND EQUIPMENT:

A. **Provide suitable tools for asbestos removal.**

B. **Air filtration equipment:** High efficiency particulate air (HEPA) filtration systems shall be equipped with filtration equipment in compliance with ANSI Z9.2-79, local exhaust ventilation or equal. **Each HEPA machine will have current permitting stickers, if applicable, placed on the machine and documentation provided on-site.** No air movement system or air filtering equipment shall discharge unfiltered air outside the Work area. If volatile chemicals are used, use manufacturer's guidelines and provide appropriate filters for solvent vapor or other organic based material use.

C. **Pressure recorder (manometer):** A continuously recording monitor shall measure and record the difference in air pressure inside the Work area from that outside the Work area. The recording system shall be accurate to the nearest 0.001 inches of water pressure differential and shall be equipped with an alarm which sounds if the difference becomes less than 0.02 inches of water gauge.

D. **Aggressive sampling equipment:** Contractor shall provide a one Hp electric leaf blower and sufficient number of electric box fans for the final air clearance.

PART 3 - EXECUTION

3.1 PREPARATION:

A. **Separation of Work areas:**

Separation of work areas from occupied areas as directed in the scope of work:

1. **Reference:** Contractor will use the applicable procedures as outlined in Section 01010HM or, if none, use those contained within. Where conflict among requirements (e.g., other concurrent work) or with these Specifications exists, the more stringent requirements shall apply.

2. **For areas requiring constructed barrier walls:** Separate parts of the building required to remain in use (as shown in Plans) from parts of the building that will undergo asbestos removal by means of airtight barriers, constructed as follows:

   a. Build suitable wood or metal framing and apply 3/8-inch minimum thickness sheathing on work side only, unless noted otherwise.

   b. Cover both sides of partition with double layer of plastic sheet with joints staggered and sealed with tape. Edges of partition at floor, walls, and ceiling shall be caulked airtight.

3. **Electrical Shut-down:** Shut down electric power which serves the Work area. Provide temporary power and lighting and ensure safe installation of temporary power sources and equipment per applicable electrical code requirements.

4. **HVAC Shut-down:** Shut down and isolate heating, cooling, and ventilating air systems to prevent contamination and fiber dispersal to other areas of the structure. Physically blank off, with light gage metal, all supply and return air ductwork which leads to and from an isolated work area when the air-handling unit serves areas other than within the isolated work area.

5. **Seal off openings:** Seal off all openings, including but not limited to windows, corridors, doorways, skylights, ducts, grills, diffusers, and any other penetrations of the Work areas, with plastic sheeting (minimum of 4-mils thick) sealed with tape.

B. **Preclean work area:**

1. **Moveable Objects:** Clean all moveable objects within the Work area using HEPA vacuum equipment and wet cleaning methods. Remove these objects from the Work area to a designated temporary storage location.

   Protection of and accounting for the stored materials is the sole responsibility of the Contractor.

2. **Fixed Objects:** Preclean fixed objects within the proposed work areas, using HEPA vacuum equipment and/or wet cleaning methods as appropriate, and enclose with minimum of 6-mil polyethylene sealed with tape.

3. **Vacuum & Wet Methods:** Preclean the proposed work areas using HEPA vacuum equipment or wet cleaning methods as appropriate. Do not use methods that raise dust, such as dry sweeping or vacuuming with equipment not equipped with HEPA filters.

C. **Prepare work area:**

1. **References:** Contractor will use the applicable procedures as outlined in Section 01010HM or, if none, use those contained within. Where conflict among requirements (e.g., other concurrent work) or with these Specifications exists, the more stringent requirements shall apply.

2. **Non-Contaminated Lighting:** Remove and clean objects, such as lights and other items not previously sealed off, that may interfere with asbestos removal. Use HEPA vacuum equipment and wet methods during fixture removal to reduce asbestos dispersal. Wrap in plastic and store for reinstallation upon completion of testing procedures.

3. **Protection of Fixed Objects:** Protect all fixtures, grills, lockers, and other non-removable equipment from water. Also, protect painted surfaces and flooring.

4. **Plasticization:** Cover non-impacted floor, wall and/or ceiling surfaces with plastic sheeting sealed with tape. Use a minimum of two layers of 6-mil plastic on floors and two layers of 4-mil plastic on walls and ceilings. Cover floors first so that plastic extends at least 12 inches up on walls, then cover walls with plastic

sheeting to the floor level, thus overlapping the floor material by a minimum of 12 inches.

a. All criticals (doors, vents, openings, wall penetrations, etc.) will be covered with 2 layers of 6-mil plastic and secured with duct tape to prevent leakage of air.

b. The second layer of floor sheeting may be black or dark in color. If floor coverings are scheduled for removal, per Plans and/or Scope of Work, floor plastic is not placed until after floor coverings are removed, which occurs during Asbestos Removal activities, paragraph 3.2.

c. All joints in the plastic sheeting shall have a minimum of 12 inches of overlap and shall be securely sealed with tape to prevent leakage of air and water.

5. **Plasticization of carpeted areas:** Where carpet will remain in-place and must be protected during abatement procedures, the following applies for preparation of said surface.

   a. All carpet remaining in place during abatement activities will be covered with 2 layers of 10-mil reinforced plastic and secured with duct tape to prevent moisture intrusion or asbestos contamination.

   b. Each layer of floor sheeting shall be installed separately and seams between the top and bottom layers must be staggered by approximately three (3) feet.

   c. Seams on the same layer must have at a minimum 18 inches overlap and be held in place by the use of spray glue in the overlap area and duct tape at both plastic termination edges.

   d. Both top and bottom layers of plastic must extend to a distance of one (1) foot vertically on all walls and vertical surfaces to be covered. The plastic must be folded, not cut, at wall or corner junctures as it extends vertically. The folds shall be held in place by the use of spray glue and duct tape.

6. **Emergency Exits:** Maintain emergency and fire exits from the Work areas or establish alternative exits satisfactory to fire officials.

7. **Establish a reduced pressure in the Work area:**

   a. **Determine the Ventilation Requirements:**

      (1) **General:** Provide fully operational negative pressure systems supplying a minimum of one air change every 15 minutes. Determine the volume in cubic feet of the work area by multiplying floor area by ceiling height. Determine total ventilation requirement in cubic feet per minute (cfm) for the work area by dividing this volume by the air change rate.

      Ventilation Required (CFM) =Volume of work area (cu. ft.)/1 5 min.

(2) **Number of Units:** Determine number of units needed to achieve 15 minute change rate by dividing the ventilation requirement (CFM) above by capacity of exhaust units(s) used. Capacity of a unit for purposes of this section is the capacity in cubic feet per minute with fully loaded filters (pressure differential which causes loaded filter warning light to come on) in the machines labeled operating characteristics.

$$\text{Number of Units Needed} = \frac{\text{Ventilation Requirement (CFM)}}{\text{Capacity of Unit with Loaded Filters (CFM)}}$$

Add one additional working unit as a backup in case of equipment failure or machine shutdown for filter changing.

(3) **Location of Exhaust Units:** Locate exhaust unit(s) so that makeup air enters work area primarily through decontamination facilities and traverses work area as much as possible. This may be accomplished by positioning the exhaust unit(s) at a maximum distance from the worker access opening or other makeup air sources.

Place end of unit, or its exhaust duct, through an opening in the plastic barrier or wall covering. The plastic around the unit or duct shall then be sealed with tape.

(4) **Venting or Exhaust:** Unless authorized in writing by the Local Air Quality Management District, vent negative air exhaust to outside of building. Exhaust outlet shall be a minimum of ten feet above ground level.

(5) **Supplemental makeup air inlets:** Provide where required for proper air flow through the work space in location approved by the Project Coordinator by making openings in the plastic sheeting that allow air from outside the building into the work area.

(6) **Makeup Air Inlets:** Locate auxiliary makeup air inlets as far as possible from the exhaust unit(s) (e.g., on an opposite wall), off the floor, and away from barriers that separate the work area from occupied clean areas. Cover with flaps to reseal automatically if the negative pressure system should shut down for any reason. Spray flap and around opening with spray adhesive so that flap seals if it closes.

b. **Use of the Negative Pressure System:**

(1) **General:** Each unit shall be serviced by a dedicated minimum 115V-20A circuit with overload device tied into an existing building electrical panel that has sufficient spare capacity to accommodate the load of all negative pressure units connected. Dedication of an existing circuit may be accomplished by shutting down existing loads on the circuit.
(2)**Testing the System:** Test negative pressure system before any asbestos-containing material is wetted or removed. After the work area has been prepared, the decontamination facility set up, and the exhaust unit(s) installed, start the unit(s) (one at a time). Demonstrate operation and testing of negative pressure system to Project Coordinator.

(3) **System Evaluation:** A demonstration of the negative pressure system to the Project Coordinator will include, but not be limited to, the following:

aa. Plastic barriers and sheeting move slightly in toward work area.

bb. Curtain of decontamination units move slightly in toward work area.

cc. There is a noticeable movement of air through the decontamination unit. Use smoke tube to demonstrate air movement from Clean Room to Shower Room, from Shower Room to Equipment Room, and from Equipment Room to Work Area.

dd. Use smoke tubes to determine a positive motion of air across all area in which work is to be performed.

ee. Use a differential pressure meter or manometer to demonstrate a pressure difference of at least 0.02 inches of water across every barrier separation the Work Area from the balance of the building or outside.

ff. Modify the negative pressure system as necessary to successfully demonstrate the above.

D. **Decontamination Facilities:**

1. **General:** Contractor will use the applicable procedures as outlined in Section 01010HM or, if none, use those contained within. Where conflict among requirements (e.g. other concurrent work) or with these Specifications exists, the more stringent requirements shall apply.

2. **Construction Review:** Build suitable decontamination facilities described herein, as previously submitted for review, before start of construction.

3. **Air Locks and Access Doorways:** In all cases access between contaminated and uncontaminated rooms or areas shall be through an air lock previously defined. Passage between any two rooms within the decontamination facility shall be through an access doorway.

4. **3-Stage Decontamination Enclosure:** Construct a worker decontamination enclosure system contiguous to the Work area consisting of three totally enclosed chambers to conform to standard Plans bound herein and as follows.

   a. A shower room with two access doorways, one to the equipment room and one to the clean room. Plastic, if used, on shower room and adjoining equipment and clean rooms shall be opaque.

   b. The shower room shall contain at least one shower with hot and cold or warm water. Careful attention shall be paid to the shower enclosure to ensure against leaking of any kind.

c. Shower water shall be captured and filtered. The filtration system shall filter particulates to 3-microns. Filtered water may then be disposed of in the local sanitary/sewage system.

5. **Remote Decontamination Enclosures:** For remote decontamination systems (non-contiguous to the Work area) construction of the shower will conform to Section 2071, Part 3.1,D4, above with the following modifications:

   a. The enclosure need not be attached to the Work area, but clean room and equipment rooms must be clearly marked at their respective entrances.

   b. A HEPA filtration machine must be attached to the equipment room and must be operational while the decontamination unit is in use.

6. **Equipment Decontamination Enclosures:** For an equipment decontamination enclosure facility, construct two totally enclosed chambers as follows:

   a. A washroom, constituting an air lock, with an access doorway to a designated area of the Work area and an access doorway to the holding area.

   b. A holding area, constituting an air lock, with an access doorway to the washroom and an access doorway to an uncontaminated area.

7. **Entry/Exit systems:** All decontamination systems or entry/exit system air locks will be constructed using Z-flap design incorporating 2 layers of 6-mil plastic with the flaps extending the full height and width of the entrance space.

E. **Maintenance of enclosure system:**

1. Ensure that barriers and plastic linings are effectively sealed and taped. Repair damaged barriers and remedy defects immediately upon discovery.

2. Visually inspect enclosures at the beginning of each work period.

3. Use smoke methods to test effectiveness of barriers when directed by Owner or representative of Owner.

F. **Asbestos removal work shall not commence until:**

1. Arrangements have been made for disposal of waste at an acceptable site.

2. Work areas and decontamination facility and parts of the building required to remain in use are effectively segregated.

3. Tools, equipment, and material waste receptors are on hand.

4. Arrangements have been made for building security.

5. All other preparatory steps have been taken and applicable notices posted and permits obtained.

6. Removal work will not begin until the Owner's consultant authorizes work to commence, in writing.

3.2 ASBESTOS REMOVAL:

A. **General:** Prepare the site per paragraph 3.1.

B. **References:** Contractor will use the applicable procedures as outlined in Section 01010HM or, if none, use those contained within. Where conflict among requirements (e.g., other concurrent work) or with these Specifications exists, the more stringent requirements shall apply.

C. **Negative pressure system during abatement Operations:**

1. Start exhaust units before beginning work (before any asbestos-containing material is disturbed). After abatement work has begun, run units continuously to maintain a constant negative pressure until decontamination of the work area is complete. Do not turn off units at the end of the work shift or when abatement operations temporarily stop.

2. Start abatement work at a location farthest from the exhaust units and proceed toward them. If an electric power failure occurs, immediately stop all abatement work and do not resume until power is restored and exhaust units are in operation again.

3. At completion of abatement work, allow exhaust units to run to remove airborne dust that may have been generated during abatement work and cleanup and to purge the work area with clean makeup air. The units may be required to run for a longer time after decontamination if dry or only partially wetted asbestos material was encountered during any abatement work.

D. **Contaminated Removable Objects:**

1. For re-installable fixtures: When scheduled to be removed per Plans and/or Section 01010HM, Scope of Work, remove and clean ceiling mounted objects, such as lights and other items not previously sealed off, that may interfere with asbestos removal. Use hand-held water spraying or HEPA vacuum equipment during fixture removal to reduce fiber dispersal. Decontaminate the objects, wrap in plastic and store for reinstallation upon completion of testing procedures.

2. When scheduled for removal per Plans and/or Section 01010HM, Scope of Work, remove carpeting, carpet backing, window curtains, etc., in sections of appropriate size for packaging and dispose of as contaminated waste.

E. **Contaminated Non-Removable Objects:**

1. If a ceiling tile/grid system remains within the Work area: Remove ceiling tiles and grid system within the Work area and dispose of as contaminated waste. If approved by the Owner's consultant or the Engineer/Architect, the grid system may be removed, decontaminated, sealed in plastic, and stored for reinstallation.

F. **Amended Water Usage:**

1. Spray asbestos material with amended water, using spray equipment capable of providing a "mist" application to reduce the release of fibers. Saturate the material sufficiently to wet it to the substrate without causing excess dripping. Spray the asbestos material repeatedly during work process to maintain wet condition and to minimize asbestos fiber dispersion.

2. Protect all fixtures, grills, lockers, and other non-removable equipment from amended water. Surfactants can cause oxidation. Also, protect painted surfaces and flooring.

G. **Gross Removal:**

1. Remove the saturated asbestos material in manageable sections. Materials shall not be allowed to dry out. Material drop shall not exceed 15 feet. For heights up to 50 feet provide inclined chutes or scaffolding to intercept drop. For heights exceeding 50 feet provide enclosed dustproof chutes.

H. **Containerizing Waste:**

1. **Daily containerizing:** During each day's work, the bulk asbestos material shall be bagged in 6-mil thick bags, before it dries. No asbestos material shall be allowed to lie on the floor overnight.

2. **Types of containers:** Place the material in either sealed containers (6-mil double bags or hard sealable containers).

3. **Vec-loaders:** The use of vacuum equipment may be employed to remove gross asbestos material from the Work area. Checking of the entire system, when in use, is required every 1/2 hour. When use of such equipment is practical, a safety program shall be established to control release of asbestos fibers from routine operations and/or accidents.

4. **Labels:** Place caution labels on containers in accordance with OSHA Regulation 29 CFR 1926.1101 and DOT 49 CFR 171-177 if not already preprinted on containers.

5. **Cleaning:** Clean external surfaces of containers thoroughly by wet sponging in the designated area. Move containers to washroom, wet clean each container thoroughly, and move to holding area pending removal to uncontaminated areas. If the holding area is outside containment it will be a locked and secured area with appropriate warning signage at entrance. If holding area is within containment ensure that area is secure and appropriate signage is maintained.

6. **Safety:** Ensure that containers are removed from the holding area by workers who have entered from uncontaminated areas dressed in clean coveralls.

I. **Post Removal Cleaning:** After completion of stripping work, all surfaces from which asbestos has been removed shall be wet brushed and sponged or cleaned by an

equivalent method to remove all visible material. During this work, the surfaces being cleaned shall be kept wet. At the Contractor's option, the layer of plastic exposed to the asbestos may be removed, leaving intact the final layer of plastic.

J. **Safety:** Ensure that workers do not enter from uncontaminated areas into the washroom or the Work area; ensure that contaminated workers do not exit the Work area through the equipment decontamination enclosure system.

3.3 CLEANUP AND AIR MONITORING:

Employ the following procedures in cleaning up the Work area:

A. **Pre-Cleaning:** Wet clean all surfaces and remove all visible accumulation of asbestos containing material from the Work area including the top layer of plastic if not previously removed. Prepare the Work area for the initial pre-TEM air test (if so specified) which will be performed after a visual inspection.

B. **Pre-TEM Clearance:** Once the Work area is clean of visible accumulations of asbestos material, the Owner's consultant may perform a pre-TEM clearance test if so outlined in the Scope of Work (Section 01010HM). Such testing shall be within the limits of 0.02 f/cc using the NIOSH method 7400 (PCM). The Contractor will continue the wet cleaning process until the designated fiber level is achieved. It is the Owner's intent to pay for one Pre-TEM Series of air tests per area.

C. **Encapsulation:** After successful completion of the Pre-TEM air test, if so designated, and visual inspection has been completed finding that no visible debris has been found and/or before the last layer of the plastic sheeting is removed, apply one coat of an asbestos encapsulant sealer following manufacturer's recommendations for application. The encapsulant sealer shall be compatible with any material to be reapplied to the surface.

D. **Final Plastic Layer Removal:** While still under respirator protection, or other approved respirator usage, remove the final layer of plastic sheeting from the walls and floors after the sealant has dried. The seals on the windows, vents, doors, etc., shall remain, and HEPA filtration equipment and decontamination facilities shall also remain in service. Wet clean or HEPA vacuum work area underneath the plastic and leave the area visibly clean.

E. **Settling Period:** Enter a 24-hour settling period or other period approved by the Consultant. Dust, both visible and invisible, shall be allowed to settle within the Work area without being disturbed during this period. The minimum settling period shall be 4 hours.

F. **Final Cleaning:** After the settling period, wet clean or HEPA vacuum all surfaces within the Work area. Once this cleaning operation is complete, visually inspect the Work area to ensure that it is free of contamination.

G. **Final Visual Inspection:** Owner's consultant will conduct a thorough visual inspection prior to setting air pumps. Upon successful completion of the visual inspection and Owner's consultant determination that all surfaces in the Work area are dry and free of

contamination, the final air clearance test will be conducted. A certificate of Visual Inspection shall be issued by the Owner's Representative and shall be signed by both the contractor and the Owner's Representative. The Owner's Representative shall use the attached Form A.

H. **Final Air Clearance:** For areas where material removal amounts of greater than 160 square feet or 260 lineal feet are performed, air clearance shall be performed per Section 2080. For areas where material removal amounts of ≤ 160 square feet or 260 lineal feet are performed, air clearance will consist of five (5) TEM samples within the work area . The NIOSH method 7400 equivalent analysis will be used, as applicable, with a maximum fiber level of 0.01 f/cc being achieved prior to acceptance. In addition to the NIOSH method 7400 equivalent analysis, one of the five TEM sample cassettes shall be analyzed via TEM. TEM sample analysis must also pass as per requirements of Section 2080.

1. Aggressive sampling techniques will be used to reentrain any fibers on the walls or floors in each area to be tested. The Contractor shall provide 1 electric, 1 Hp "Leaf Blower" and 1 electric 20 inch box fan per 10,000 c.f. of air volume in the Work area for use by the Owner's consultant during the aggressive sampling. The Contractor shall also provide the necessary electrical supply for these units. All contractor supplied equipment shall be in good working order. After sampling, the leaf blower and fans shall be cleaned by the Contractor and handled as if contaminated with asbestos.

I. **Clearance Failure Contingency:** Contractor shall continue cleaning the Work site until the accepted fiber level is achieved.

1. Additional TEM or equivalent testing required after the one initial TEM clearance test set will be the responsibility of the Contractor. Additional consultant's time required for additional visual inspection, clearance sampling, and associated delivery of samples shall be at the Contractor's expense. In the event of additional testing and associated consultants time, the Contractor may reimburse Owner, or reduce the Contract amount by change order. It is the Owner's intent to have, at no charge to the Contractor, one initial TEM test performed in each area. A test set may consist of one sample or a series of samples performed at the same time.

J. **Dismantling the negative air system:** When a final inspection and the results of final wipe tests indicate that the area has been decontaminated, exhaust units may be removed from the work area. Before removal from the work area, remove and properly dispose of pre-filter, and seal intake to the machine with 6-mil polyethylene to prevent environmental contamination from the filters.

3.4 DISPOSAL OF ASBESTOS-CONTAINING MATERIALS AND ASBESTOS-CONTAMINATED WASTE:

A. **Removal from Work area:**

1. **General:** As the Work progresses, and to prevent exceeding available storage capacity on site, remove sealed and labeled containers of asbestos waste and dispose of such containers at an authorized disposal site in accordance with the requirements of disposal authority.

2. **Double bagging or containerization:** Bags of asbestos materials removed from the Work area via the equipment decontamination enclosure shall be placed in a mechanically fastened drum or a second clean bag which is then transported in an enclosed vehicle. Appropriate labels shall be affixed to the outside of the container.

3. **Cleaning:** The drums or bags shall be cleaned in the equipment decontamination enclosure as previously described and placed in the transport vehicle. A fully enclosed plastic tunnel shall be provided when loading material contained in double plastic bags. The tunnel shall connect the equipment decontamination enclosure and the transport vehicle.

4. **Respiratory Protection:** Respiratory protection will be required in loading asbestos materials.

5. **On-site storage of waste:** On-site storage of waste will not be permitted for more than 5 working days after completion of last phase or nor more than 30 days per phase, whichever is less.

6. **Wastewater:** All wastewater shall be filtered through a five-micron filter prior to final disposal in a sanitary sewer. In the absence of a sanitary sewer system, the wastewater shall be drummed and transported to a landfill per the previous requirements for disposal.

7. **Other Waste:** Asbestos waste other than contaminated water shall be drummed or bagged and transported as previously described.

B. **Transporting waste:**

1. **Permits:** Local, state, and federal permits shall be obtained for the transportation of asbestos materials, and all procedures shall be followed as they pertain to transportation of asbestos materials.

2. **Notification of Transport:** Notify the Owner's consultant **48 hours in advance** of the time when contaminated materials are to be removed from the site.

3. **Transport Vehicle:** Transport vehicle shall be lined with 6-mil plastic prior to loading asbestos waste. The vehicle shall be used for the sole purpose of transporting asbestos waste. No other contract materials or supplies shall be stored or transported in the vehicle unless it has been decontaminated.

4. **Documentation:** Activities involving removal of waste, loading onto vehicle, and disposal at the landfill, shall be documented in daily reports. A second document, landfill manifest, shall be completed when material is disposed at landfill. Both documents shall indicate date and volume of material handled. A bill of lading shall be submitted as per DOT regulations.

    a. It shall be the responsibility of the Contractor to notify the Owner or Owner's Consultant and coordinated having the Hazardous Waste Manifest or Non-Hazardous Waste Manifest properly signed by Owner or Owner's

representative. Contractor shall give the Owner or Owner's Representative or Consultant 48 hours notice prior to request for signature and waste pick-up.

b. Contractor SHALL NOT sign any Hazardous Waste Manifest for the Owner.

5. **Respiratory Protection:** Respiratory protection will be required in unloading asbestos materials.

6. **Safety:** Contractor shall be responsible for safe handling and transportation of hazardous waste generated by this Contract to the designated Hazardous Waste Site.

C. **Hazardous Materials Spills:** Contractor shall hold the Owner and Owner's consultant harmless for claims, damages, losses, and expenses, including attorney's fees arising out of or resulting from, asbestos spills on the site or spills enroute to the disposal site.

3.5 RE-ESTABLISHMENT OF OBJECTS AND SYSTEMS:

A. **Relocation of Moveable Objects:** Relocate objects moved to temporary locations in the course of the Work to their proper positions. Only clean objects are to be moved into the areas.

B. **Remounting Objects:** Remount objects removed in the course of the Work in their former positions. Repair any moveable or fixed objects damaged during the course of the Work.

C. **Systems re-establishment:** Reestablish HVAC, mechanical, and electrical systems in proper working order.

1. Install new HVAC filters and dispose of used filters as contaminated waste.

D. **Building repair/repaint:** Repair any damage to building, or building systems (electrical, mechanical, plumbing, etc.) which was not noted in writing prior to work area preparation.

1. Repaint any areas damaged during the course of the Work unless this work is scheduled to be repaired by others. See paragraph 1.2.C, Related Work Specified Elsewhere, of this section. Quality of paint and workmanship shall be consistent with that found within the building prior to this Project, unless otherwise stated. Refer to Section 09900 Painting.

END OF SECTION

SECTION 02074AHM

ASBESTOS REMOVAL
ROOFING PENETRATION AND SEAM SEALANT MATERIAL

PART 1 - GENERAL

1.1 SCOPE:

A. This Specification covers the removal and disposal of asbestos-containing roofing penetration and seam sealant materials in the locations identified in Section 01010HM, Summary of the Work.

1.2 DESCRIPTION OF WORK:

A. **General:** The Work specified herein shall be the removal of asbestos-containing and/or contaminated material by persons knowledgeable, qualified, and trained in the removal, treatment, handling, and disposal of asbestos-containing and/or contaminated material, the subsequent cleaning of the affected environment, and who comply with all Federal, State, and local laws and regulations which mandate work practices, and who are capable of performing the Work in these Specifications.

B. **Contract Fulfillment:** The Contractor shall supply all labor, materials, equipment, services, insurance, and incidentals which are necessary or required to perform the Work in accordance with all applicable governmental regulations and these Specifications.

C. **Related Work Specified Elsewhere:**

Section 02071HM, Asbestos Removal.

1.3 TERMINOLOGY:

The terms used in these Specifications are defined in Section 02071HM.

1.4 APPLICABLE DOCUMENTS:

See Section 02071HM for Applicable Documents.

1.5 SUBMITTALS AND NOTICES:

Section 02071HM, Part 1.5, Submittals and Notices, shall be modified in the following particulars only.

A. The use of RB roof cutters on roofing projects involving more than 5,580 square feet require NESHAP notification.

1.6 PERSONAL PROTECTION AND SAFETY:

A. **Respiratory protection requirements:**

1. Respiratory protection for removal of asbestos-containing and/or contaminated roofing materials; **1/2 face negative pressure** are required as a minimum.

2. If powered air-purified respirators (PAPR) respirators are required, the respiratory requirements as set forth in Section 02071HM shall govern.

3. Provide authorized visitors with suitable respirators whenever they are required to enter the Work area.

4. If any roofing materials are deemed to be friable to such an extent as the tar matrix looses its binding properties by crumbling using thumb and forefinger pressure, then the following apply:

   a. While pre-cleaning the Work area, prepping the Work area, loading the asbestos material in the transport vehicle and unloading the transport vehicle at the landfill all activities must be performed while wearing a 1/2 face negative pressure respirator.

   b. The friability of the materials shall be at the sole discretion of the Owner's consultant, either during the bid walk or prior to abatement.

B. **Posting of Procedures:** Provide and post, at the Work area, the decontamination and work procedures to be followed by workers and authorized visitors as described in these Specifications.

C. **Worker protection procedures:**

1. The Contractor shall provide adequate shower facilities. An employee leaving the Work area shall follow all decontamination procedures necessary or as described herein.

2. All workers and authorized visitors shall, don 2 sets of protective suits prior to entering the work area.

3. All workers and authorized visitors shall, each time they leave the Work area; remove gross contamination from protective clothing, HEPA vacuum clothing, and remove the outer protective suit and place within a waste bag located within the work area. All workers and authorized visitors shall then don a second disposable suit over the first, before leaving the Work area. Each person will then proceed immediately to the shower room and remove the disposable suits and place in a waste bag. After wet wiping all exposed body and equipment surfaces, workers and/or visitors may then proceed through the exit to the uncontaminated area.

4. Workers loading waste containers from the Work area, which are not directly placed in the waste bin or enclosure, shall wear a respirator and be dressed in clean disposable coveralls.

D. **Equipment removal procedures:**

1. Clean surfaces of contaminated containers and equipment thoroughly by wet sponging or wiping before moving such items from the Work area and to uncontaminated areas.

2. If gross material cannot be removed from the working end of the equipment (area coming in direct contact with asbestos-containing material), it shall be wrapped in a 6-mil plastic bag, or other suitable 6-mil plastic medium, and sealed with tape prior to leaving the Work area.

1.7 SUPERINTENDENT FOREMAN CRAFTSMAN:

The Contractor shall have a job superintendent (and/or Competent person) present at all times while work on this Contract is in progress.

The Project Superintendent (and/or Competent person) shall be thoroughly familiar and experienced with asbestos removal and related work and shall be familiar with and shall enforce the use of all safety procedures and equipment. He shall be knowledgeable of all EPA, OSHA, and NIOSH requirements and guidelines.

In addition to the Superintendent (an/or Competent person), the Contractor shall furnish one or more foremen who are familiar and experienced with asbestos removal and its related work, safety procedures, and equipment. If the Superintendent is not present then the foremen shall be a Competent person.

A. It shall be a requirement of this Contract that the superintendent and/or one or more of the Contractor's foremen be inside the Work area at all times while work is in progress.

B. It is the intent of these Specifications that all phases of the Work shall be executed by skilled craftsmen experienced or receiving training by on-site experienced personnel in each respective trade.

C. The Competent person on-site must be able to clearly communicate in a manner so that the Owner’s Consultant and Owner can clearly understand.

PART 2 - MATERIAL AND EQUIPMENT

2.1 MATERIALS:

See Section 02071HM, Part 2.1 for Materials.

2.2 TOOLS AND EQUIPMENT:

Provide suitable tools for the work at hand.

PART 3 - EXECUTION

3.1 PREPARATION:

A. **Separation of work areas from occupied areas:**

1. Separate parts of the building required to remain in use from parts of the building that will undergo asbestos removal by means of barriers, constructed as follows:

   a. Isolate the area in which removal will take place by placing barrier tape at least 25 feet from the work. If applicable, lock from external entry all but one entrance to the Work area.

   b. Place asbestos warning signs at the barrier and at all open entrances to Work area. Signs must be placed conspicuously and must be easily read. Signs must conform to legal size and wording.

2. Shut down electric power. Provide temporary power and lighting and ensure safe installation of temporary power sources (if required) and equipment per applicable electrical code requirements.

3. Shut down and isolate heating, ventilating, and air cooling (HVAC) systems to prevent contamination and fiber dispersal to other areas of the structure. Isolate all supply intake ducting from Work area by installing 2 layers of 6-mil polyethylene over the intake using 6 inches of duct tape to affix polyethylene to intake housing.

B. **Pre-clean work area:**

1. Where ACM penetration/seam sealant material is in poor friable condition, clean all moveable objects within the Work area using HEPA vacuum equipment and/or wet cleaning methods as appropriate. In all cases, remove removable objects from the Work area to a designated temporary storage location. Protection of and accounting for the stored materials is the sole responsibility of the Contractor.

2. Where ACM material is in poor friable condition, pre-clean fixed objects within the proposed work areas, using HEPA vacuum equipment and/or wet cleaning methods as appropriate and, in all cases, cover with minimum of 6-mil polyethylene.

C. **Prepare work area:**

1. Erect asbestos hazard tape barriers and post the work area to restrict access by unauthorized persons within 25 feet of this area.

2. Place a single layer of 6-mil poly on the ground surface to extend 10 feet beyond the materials extent.

3. Maintain emergency and fire exits from the Work areas, or establish alternative exits satisfactory to fire officials.

4. If a remote decontamination unit is constructed, establish 'Do Not Enter' caution tape barriers extending 10 feet beyond and surrounding the decontamination facility.

5. Roof level heating and ventilation air intake sources shall be isolated by polyethylene wrapping and the ventilation system shut down**,** or if systems cannot be shut down, devise a sealed system allowing intake air to be derived at a minimum of 15 feet beyond the work area.

D. **Decontamination enclosure systems:**

1. The decontamination enclosure facility will be constructed of two totally enclosed chambers as follows:

   a. An equipment room, constituting an air lock, with an access doorway to a designated area of the Work area and an access doorway to the shower area.

   b. A washroom, constituting an air lock, with an access doorway to the equipment room and an access doorway to an uncontaminated area.

   c. All floors of the decontamination chamber will be covered with 2 layers of 6-mil plastic. Flooring plastic will extend up 12 inches along the decontamination walls. Flooring will be seamless in its application.

2. All decontamination systems or entry/exit system air locks will be constructed using Z-flap design incorporating 2 layers of 6-mil plastic with the flaps extending the full height and width of the entrance space.

3. Ensure that a water source within the shower room is available for wet wiping of all exposed extremities and respirator prior to exiting the decontamination facility. All protective gear will be removed and be disposed of in the equipment room prior to entering the shower room.

E. **Maintenance of Decontamination Enclosure System and Work Area Barrier:**

1. Ensure that barriers are maintained and intact at all times. Repair damaged barriers and remedy defects immediately upon discovery.

2. Visually inspect enclosures and barriers at the beginning of each work period.

F. Asbestos removal work shall not commence until:

1. Arrangements have been made for disposal of waste at an acceptable site.

2. Work areas and decontamination systems and parts of the building required to remain in use are effectively segregated.

3. Tools, equipment, and material waste receptors are on hand.

4. Arrangements have been made for building security.

5. All other preparatory steps have been taken and applicable notices posted and permits obtained.

6. Removal work will not begin until the Engineer authorizes work to commence, in writing.

3.2 ASBESTOS REMOVAL – ROOFING PENETRATION/SEAM SEALANT MATERIAL:

A. **General:** The Contractor shall remove all sealant material to the base material or structure or that specified in Section 01010HM, and any loose debris shall be HEPA vacuumed.

B. **Removal Methods:**

1. Some areas may require intact removal, as outlined in the Scope of Work, and sealant applied component shall be removed with all traces of attached sealant material.

2. Where substrate material remains intact, all sealant shall be removed and a mastic remover shall be used on the substrate surfaces cleaning to a non-three (3) dimensional state.

3. Wet methods shall be used where feasible.

4. Cutting machines shall be continuously misted during use. All engine-powered rotating blade (RB) roof cutters with one or more rotating cutting blades (the edges of which are blunt as opposed to sharp or tapered edges) shall be equipped with a blade guard that completely encloses the blade and extends down close to the roof surface and a device for spraying a fine mist of water inside the blade guard in operation during the cutting of the roof.

5. The use of equipment with blades having sharp or tapered edges used for “slicing” rather than “cutting”, or other methods that do not sand, grind, cut, or abrade the roofing material do not require NESHAP notification regardless of the size of the roof being removed.

C. **Transfer of Waste to Bin:**

1. All removed non-friable sealant materials shall be expeditiously placed in 6-mil non-hazardous waste bags and shall be immediately lowered to the ground or placed directly into a disposal bin via polyethylene covered, dust-tight chute, crane or hoist, or placed in an impermeable waste bag or wrapped in polyethylene sheeting and lowered to the ground no later then the end of the work shift.

2. If possible, bagged roofing material shall be lowered to the ground directly into a disposal bin. If material must first be lowered to the ground, a 10 foot by 10 foot layer of 6-mil plastic will be set directly below the lowered material. The material will then be either carried or hauled to the disposal bin without touching the ground.

3. If a dust tight chute is used, 6-mil polyethylene will be placed from the base of the disposal bin to a distance of 8 feet beyond the perimeter of said bin. A dust cover of 6-mil polyethylene will be attached from the chute mouth to fully extend over the edges of the disposal bin at any time during its use in order to maintain a ‘closed’ system between the dust chute and the container bin.

4. Contractor shall make every effort to ensure that no over-spill occurs while loading the container bin through the use of a dust-tight chute. If over-spill occurs contractor shall immediately bag and clean the debris from the polyed area.

5. Unwrapped material shall be lowered to the ground unless contained within a dust tight apparatus and into a closed receptacle.

6. Dry sweeping or brushing during removal or clean-up is strictly prohibited. Contractor shall use a HEPA vacuum in lieu of sweeping.

3.3 CLEANUP AND AIR MONITORING:

A. **Air Monitoring:**

1. If, during removal, visible dust is present, the Contractor shall modify his or her work practices to reduce emissions and provide workers with powered air-purifying respirator protection.

B. **Clean-Up:**

1. Wet clean all surfaces and remove all visible accumulation of asbestos containing material from the Work area.

2. Where a waste bin is employed, waste within the disposal bin must be covered at all times. At the end of the shift, if waste remains on site, waste must be within a

hard-sided container and covered with 2 layers of 6-mil plastic and securely fastened to the container. During temporary storage, barrier tape must be placed around the perimeter of the bin.

3.4 DISPOSAL OF ASBESTOS-CONTAINING MATERIALS AND ASBESTOS-CONTAMINATED WASTE:

Section 02071HM, Part 3.4, Asbestos-Containing Materials and Asbestos-Contaminated Waste, shall be modified in the following particulars only.

A. **Asbestos Materials:**

1. All materials shall be disposed of as non-hazardous asbestos containing materials.

3.5 REESTABLISHMENT OF OBJECTS AND SYSTEMS:

See Section 02071HM, Part 3.5 for Reestablishment of Objects and Systems.

END OF SECTION

SECTION 02092HM

LBP, LEAD CONTAINING MATERIALS REMOVAL
(Abrasive, Ceramic Tile)

PART 1 - GENERAL

1.1 SCOPE:

This Specification covers the abatement of materials containing lead-based paint as described in Section 01010HM, Scope of Work.

1.2 DESCRIPTION OF WORK:

A. **General:** The Work specified herein shall be the removal of lead-containing materials and lead dust environments by persons knowledgeable, qualified, and trained in the removal, treatment, handling, and disposal of lead-based paint and lead containing materials, and the subsequent cleaning of the affected environment, and who comply with Federal, State, and Local regulations and guidelines which mandate work practices, and who are capable of performing the Work of this Contract.

B. **Contract Fulfillment:** The Contractor shall supply all labor, materials, equipment, services, insurance, and incidentals which are necessary or required to perform the Work in accordance with applicable governmental regulations and guidelines and these Specifications.

1.3 TERMINOLOGY:

The following terms used in these Specifications are defined as listed below:

A. **Abatement:** Any measure designed to permanently eliminate lead-based paint hazards in accordance with standard established by EPA Administrator pursuant to Title IV of the Toxic Substances Control Act (TSCA).

B. **Abatement Area:** The exterior of the building or an area isolated from the building interior by containment.

C. **Accessible Surface:** Any surface, which is below 5 feet in height from the floor or ground or is exposed in such a way that a child could come in contact with the surface.

D. **Access Doorway:** A device to allow ingress and egress from one room or area to another while permitting minimal air movement between the rooms, typically constructed by placing two or three overlapping sheets of plastic over an existing or temporarily framed doorway, securing each along the top of the doorway, securing the vertical edge of one sheet along one vertical side of the doorway, and securing the vertical edge of the other sheet along the opposite vertical side of the doorway; or by using a rigid gasketed door and HEPA filter vents.

E. **Action Level:** An exposure of airborne concentrations of lead dust particulates in excess of thirty micrograms per cubic meter (30 $\mu g/m^3$) of air calculated as an 8 hour time weighted average (TWA).

F. **Air Filtration Equipment:** A portable local filtration system equipped with HEPA filtration and capable of maintaining a constant, low velocity flow to filter and trap contamination out of the air within the work area and then circulate or exhaust the filtered air to uncontaminated areas. This equipment is also used to establish a reduced pressure within the work area.

G. **Air Monitoring:** The process of measuring the lead content of a specific volume of air in a stated period of time.

H. **Air Sampling Professional:** The professional contracted or employed to supervise air monitoring and analysis schemes. This individual is also responsible for recognition of technical deficiencies in Worker protection equipment and procedures during both planning and on-site phases of an abatement project. This individual shall be certified in the comprehensive practice of air sampling for lead by Department of Health Services (DHS) as a Lead Project Monitor or Lead Supervisor.

I. **Air Lock:** A system for permitting ingress and egress with minimum air movement between a contaminated area and an uncontaminated area, consisting of dual or triple curtained doorways or rigid gasketed doors separated by a dead air space of four feet.

J. **Authorized Person or Visitor:** The building owners, his or her authorized representative, or any representative of a regulatory or other agency having jurisdiction over the Project.

K. **Biological Monitoring:** The analysis of a person's blood to determine the level of lead contamination in the body. Biological monitoring for lead hazard reduction work includes blood sampling and analysis for lead and zinc protoporphyrin levels.

L. **Certified Industrial Hygienist:** A person certified by American Board of Industrial Hygienist and who has at least four years experience and a graduate degree or five years experience; and who has passed a two-day examination offered by the board (see also industrial hygienist).

M. **Clean Room:** An uncontaminated area or room which is a part of the Work decontamination facility with provisions for storage of worker's street clothes and protective equipment.

N. **Clearance Testing:** Post abatement procedure as required by DHS. A clearance inspection must be conducted after abatement is completed. Only a DHS certified lead inspector/assessor or a Project Monitor may conduct a clearance inspection.

O. **Code Enforcement Agency:** The State Lead Poisoning Prevention Program or its agent, or the local board of health or other agency responsible for enforcing the State Sanitary Code or Sections thereof.

P. **Commissioner:** The commissioner of Public Health.

Q. **Common Area**: A room or area that is accessible to more than one tenant in a building (e.g., common hallways, stairwells, laundry rooms).

R. **Containment:** A process for protecting other workers, residents, and the environment by isolating areas from exposures to lead dust and debris created during abatement in a work area.

S. **Curtained Doorway:** A device to allow ingress and egress from one room to another while permitting minimal air movement between the rooms, typically constructed by placing two overlapping sheets of plastic over an existing or temporarily framed doorway, securing each along the top of the doorway, securing the vertical edge of one sheet along one vertical side of the doorway, and securing the vertical edge of the other sheet along the opposite vertical side of the doorway (referred to as Z-fold design).

T. **Decontamination Facility:** A series of connected rooms, with curtained doorways between any two adjacent rooms for the decontamination of workers and of materials and equipment. A decontamination enclosure system always contains at least one airlock.

U. **Defective surface:** Peeling, flaking, chalking, scaling, or chipping paint; or, paint over crumbling, cracking, or falling plaster, or plaster with holes in it; paint over a defective or deteriorating substrate; paint that is separating from the substrate; and paint that is damaged in any manner such that a child could be exposed to the paint from the damaged area.

V. **Employee:** Any person employed or hired by an employer in any lawful employment.

W. **Employer:** Any person, firm, corporation, partnership, association, or other entity engaged in a business or providing services, including the State and any of its political subdivisions, or any person acting in the direct interest of any of the foregoing in relation to any employee or place of employment.

X. **Encapsulant (sealant):** A liquid material which can be applied to lead containing material and which controls the possible release of lead from the material either by creating a membrane over the surface (bridging encapsulant) or by penetrating into the material and binding its components together (penetrating encapsulant).

Y. **Encapsulation:** Procedures necessary to apply an encapsulant to lead containing building materials to control the possible release of lead dust particulates or entrained material into the ambient air.

Z. **Enclosure:** Procedures necessary to enclose completely lead containing material behind airtight, impermeable, permanent barriers.

AA. **Entity:** Any person, partnership, firm, association, corporation, sole proprietorship, or any other business concern, state or local government agency or political subdivision or authority thereof, or any religious, social, or union organization, whether operated for profit or otherwise.

BB. **Equipment Room:** A contaminated area or room, which is part of the Worker decontamination enclosure with provisions for storage of contaminated clothing and equipment.

CC. **Equipment Decontamination Facility:** That portion of a decontamination facility designed for controlled transfer of materials and equipment, typically consisting of a washroom and a holding area.

DD. **Equipment Room:** A contaminated area or room which is part of the worker decontamination facility with provisions for storage of contaminated clothing and equipment.

EE. **Fixed Object:** A unit of equipment or furniture in the Work area which cannot be removed from the Work area.

FF. **General Trades Contractor:** Shall refer to the contractor responsible for coordination of all filed sub-bids and general construction.

GG. **Hazardous Level of Lead for Waste Disposal:** 5.0 parts per million (ppm) as defined by RCRA Toxicity Characteristic Leachate Procedure (TLCP) or other requirements set by local or state authorities.

HH. **High Phosphate Detergent:** Detergent that contains at least five percent (5%) tri-sodium phosphate (TSP) or other equally effective cleaning agent.

II. **HEPA Filter:** A high efficiency particulate air (HEPA) filter capable of trapping and retaining 99.97 percent of particles greater than 0.3 micrometers in mass median aerodynamic equivalent diameter.

JJ. **HEPA Vacuum Equipment:** Vacuuming equipment with a HEPA filter system.

KK. **Holding Area:** A chamber in the equipment decontamination facility located between the washroom and an uncontaminated area. The holding area comprises an airlock.

LL. **Intact Surface:** A defect-free surface with no loose, peeling, chipping, or flaking paint. Painted surfaces must be free from crumbling, cracking, falling plaster, and must not have holes in them. Intact surfaces are not damaged in any way.

MM. **Log Book:** A notebook or other book containing essential project data and daily project information and a daily project diary. This book is kept on the Project site at all times.

NN. **Lead-based:** Refers to paints, glazes, and other surface coverings containing a toxic level of lead.

OO. **Lead-Containing:** Refers to Paints, glazes, and other surface covering containing a detectable level of lead.

PP. **Mini-Enclosure:** A method with limited applications for removing small amounts of lead-based paint material typical for small-scale, short duration type projects.

QQ. **Movable Object:** A unit of equipment or furniture in the Work area that can be removed from the Work area.

RR. **Negative Air Pressure Equipment:** A portable local exhaust system equipped with HEPA filtration and capable of maintaining a constant, low velocity air flow into contaminated areas from adjacent uncontaminated areas.

SS. **Paint Removal:** All herein specified procedures necessary to remove or strip lead-based paint from the surfaces of components and to dispose of these materials at an acceptable site. Removal may consist of off-site or on-site paint removal as specified.

TT. **Permissible Exposure Limit:** An airborne lead concentration of fifty micrograms per cubic meter of air (50 $\mu g/m^3$) or greater, averaged over an 8 hour period.

UU. **Personal Monitoring:** Sampling of lead fiber concentrations within the breathing zone of a lead Worker.

VV. **Plasticize:** To cover floor and walls with plastic sheeting as herein specified.

WW. **Qualified Abatement Subcontractor:** A sub-contractor capable of providing a properly trained and equipped work force for abatement work. All employees to perform abatement activities shall have successfully completed a minimum of 24 hours of training in the potential hazards of abating lead-based paint. Abatement contractors must possess the appropriate license or certification from the state or local government.

XX. **Removal:** A strategy of abatement, which entails the removal of components, such as windows, doors, and trim that contain toxic levels of lead such that new components that are lead free may be installed.

YY. **Replacement:** A method of abatement that involves removing components that have lead-based paint surfaces and installing new components free of lead-based paint.

ZZ. **Shower Room:** A room or area in the worker decontamination unit facility with hot and cold or warm running water and suitably arranged for complete showering during decontamination. An alternate site away from the decontamination facility may be used as approved by the Owner's consultant.

AAA. **Subcontractor:** Shall refer to the Abatement Contractor.

BBB. **Surfactant:** A chemical wetting agent added to water to improve penetration.

CCC. **Toxic Characteristic Leachate Procedure (TCLP):** EPA required sample preparation for determine the hazard characteristic of a waste generated at a lead abatement site.

DDD. **Toxic Level of Lead in Surface Coatings:** 1.0 milligrams or more per square centimeter (mg/cm^2) (0.7 mg/cm^2 in Los Angeles County) by XRF methods or 5,000 $\mu g/g$ (0.5%) by laboratory testing, as defined in HUD Regulation and Lead-Base Paint Poisoning Prevention Act.

EEE. **Washroom:** An area between the Work area and the holding area in the equipment decontamination area.

FFF. **Wet Cleaning:** The process of eliminating lead-based paint contamination from building surfaces and objects by using cloths, mops, or other cleaning tools that have been dampened with water, and by afterwards disposing of these cleaning tools as lead contaminated waste.

GGG. **Wet Wall:** Shall refer to walls which contain plumbing fixtures and/or pipes, including both supply and sanitary lines.

HHH. **Wipe Sampling:** The process of collecting and analyzing lead material from a specific surface area to determine residual lead levels.

III. **Work Area:** Designated rooms, spaces, or areas of the Project in which lead-based paint abatement actions are to be undertaken or which may become contaminated as a result of such abatement actions. A contained work area is a work area that has been sealed, plasticized, and equipped with a decontamination enclosure system. A non-contained work area is an isolated or controlled-access work area that has not been plasticized nor equipped with a decontamination enclosure system.

JJJ. **Worker Decontamination Facility:** That portion of a decontamination facility designed for controlled passage of workers, and other personnel and authorized visitors, typically consisting of a clean room, a shower room, and an equipment room.

1.4 APPLICABLE DOCUMENTS:

The current issue of each document shall govern. Where conflict among requirements or with these Specifications exists, the more stringent requirements shall apply.

A. **Regulations:** Comply with all codes, regulations, and references applicable to lead abatement work include but are not limited to the following:

1. All Federal, State, Local, and South Coast Air Quality Management District regulations.

2. American National Standards Institute (ANSI) publications;

Z9.2-79	Fundamentals Governing the Design and Operation of Local Exhaust Systems
Z87.1-79	Occupational and Educational Eye and Face Protection
Z88.2-80	Practices for Respiratory Protection
Z89.1-81	Requirements for Protective Headgear for Industrial Workers
Z41-83	Personal Protection - Protective Footwear

Z88.6-84 Respiratory Protection Respiratory use Physical Qualifications for Personnel

3. American Society for Testing and Materials (ASTM) publications;

   D1 331-56 Surface and Interfacial Tensions of Solutions of Surface Active Agents.

4. Code of Federal Regulations (CFR);

   29 CFR 1910 General Industry Standard

   29 CFR 1910.1025 Lead Standard for General Industry

   29 CFR 1910.134 Respiratory Protection

   29 CFR 1910.1200 Hazard Communication

   29 CFR 1910.245 Specifications for Accident Prevention (Signs and Tags)

   29 CFR 1926 Construction Industry Standards

   29 CFR 1926.62 Construction Industry Lead Standard

5. Code of Federal Regulations (CFR) (cont'd);

   40 CFR Part 261 United States Environmental Protection Agency Regulations

   40 CFR Part 745 Residential Property Renovation

   24 CFR Parts 35-37 HUD Lead-Based Paint Regulations.

6. Compressed Gas Association, Inc.

   G-7.1 Commodity Specification for Air

7. National Fire Protection Association (NFPA)

   No. 70. National Electrical Code

8. UL 586-77 (R1 982) Test Performance of High Efficiency Particulate Air Filter Units (June 10, 1977, 5th Ed.; Rev. March 12, 1982)

9. National Institute for Occupation Safety and Health (NIOSH)

   N31, 3rd. Ed., Vol. 1, Manual of Analytical Methods, Method 7082.

10. Environmental Protection Agency Documents:

EPA 530-SW-85-007	Lead Waste Management Guidance, May 1985
EPA 560/5-85-024	Guidance for Controlling Lead-Base Paint in Buildings, June 1985
EPA 600/4-85-049	Measuring Airborne Lead Following and Abatement Action, November 1985
EPA 560 OPTS-86.001	A Guide to Respiratory Protection for the Lead Abatement Industry, April 1986

11. California Administrative Code (CAQ):

    Title 8, Article 2.5, Sections 341.6 - 341.14, Registration Lead-Related work

    Title 8, Section 5216, General Industry Safety Orders, Lead Regulations

    Title 8, Section 1532.1, Cal/OSHA Construction Safety Orders, Lead

    Title 8, Section 3203, Cal/OSHA Injury and Illness Prevention Program

    Title 17, Division 1, Chapter 8, Accreditation, Certification, and Work Practices for Lead-Based Paint and Lead Hazards

12. California Administrative Code (CAQ) (cont'd):

    Title 22, Division 4, Minimum Standards for Management of

    Chapter 30 Hazardous and Extremely Hazardous Waste

13. South Coast Air Quality Management District Regulations

    Rule 1420, Emissions Standard for Lead

14. Los Angeles County Code

    Title 11, Health and Safety, Chapter 11.28, Lead Hazards

    Title 12, Environmental Protection

1.5 SUBMITTALS AND NOTICES:

Prior to commencement of work and/or within the time-frames specified below:

A. **General:** Requirements are as set forth in the General Conditions and Supplementary Conditions for items required to be submitted under this section.

B. **Product data:** Shall include manufacturer's product data, specifications, samples and application instructions and other pertinent information as necessary.

C. **Alternatives:** Product substitution submittal shall be in accordance with the General Conditions and Supplementary Conditions.

D. **Procedure Plans and Shop Drawings:** Submit to the Owner's consultant Procedure Plans and Shop Drawings and ensure that they are in compliance with this Specification and applicable regulations. Shop Drawings will include: construction of decontamination enclosure systems and/or facilities; isolation of the Work areas; placement of negative air machines and their exhaust, emergency exits, and placements of fire extinguishers and first aid kits.

1. Personnel monitoring procedures in accordance with T8 CCR 1532.1

2. Phasing of abatement work indicating daily roster of workers for each phase.

3. Security system warning signs locations in accordance with 29 CFR 1910.245, and T8 CCR 1532.1.

4. Detailed plans for decontamination facilities, toilets, and systems providing inter-room and work area to outside communication showing connections to existing building.

5. Standard procedures for protecting workers, visitors, and employees and protection of spaces outside work area from contamination.

6. Engineering systems exposure control indicating number, location, and capacity of supply and exhaust systems, the expected direction of flow, and the range of expected negative air pressure in each area.

E. **Qualifications:** Within 10 days from Notice to Proceed, submit the following documents:

1. **License:** Submit copy of current contractor license from the California Contractors State License Board.

2. **Personnel Training-Superintendent and Foreman:** Submit copy of certificates of completion from a training course in lead abatement project supervision offered by a California accredited educational institution, and a copy of certification from California Department of Public Health (CDPH) as a lead supervisor. Copies of these documents shall be maintained in the Project Logbook. Substitutions may be made by written notice to Owner's consultant.

3. **Personnel Training-Workers:** Submit copy of certificates of completion from a training course in lead abatement project supervision offered by a California accredited educational institution, and a copy of certification from California Department of Public Health (CDPH) as a lead worker. Copies of these documents shall be maintained in the Project Logbook. Substitutions may be made by written notice to Owner's consultant.

4. **Personal Protection and Exposure Understanding:** Submit documentation to the Owner's consultant indicating that each employee has had instruction on the

hazards of lead exposure, on use and fitting of respirator, on protective dress, on use of showers, on entry and exit from work areas, and on all aspects of work procedures and protective measures and understands this instruction.

5. **Respirators:** Submit a written standard operating procedure governing selection, fit-testing, and use of respirators in accordance with 29 CFR 1910, Subpart 1, 29 CFR 1926.1101, CGAI Standard G7.1, ANSI Z88.2, and Z88.6. Also submit manufacturer's certification that the respirators to be used in this project comply with these regulatory requirements.

6. **Medical Examination:** Submit proof that personnel who will be entering contaminated areas have had medical examinations, and furnish the results of said exam to Owner's consultant. Comply with 29 CFR 1910.20 for access to employee exposure and medical records.

    a. **Exam and History:** Before exposure to lead, provide each employee with a comprehensive medical exam meeting the general definition outlined in California Administration Code Title 8, CCR. No employee shall be allowed to enter the Work Area without having first provided a copy of his or her Medical History to the Owner's Representative.

    b. **Employee Roster:** Submit an employee roster to Owner's consultant for each Work shift and confirm in writing within 24 hours of commencement of shift. The roster will consist of a list of employees who have received training and medical examinations per paragraphs Part 1.5, E.2, E.3, E.5, and E.6 of this section. A copy of this list is to be maintained in the Project Logbook.

F. **Notifications, Permits, Communications and Postings.**

1. **Submit copies of notifications to all appropriate Government agencies, including the following:**

    a. CAL-OSHA (310) 949-7827 Notification shall be in accordance with the Section 341.9 of Title 8 of California Administrative Code.

    b. California Department of Public Health, Childhood Lead Poisoning Prevention Branch (if applicable - 5 days prior to work).

    c. Copies of Government agency correspondence shall be included in the submittals.

    d. Where local police and fire departments have jurisdiction, secure approval of the proposed security and safety plans for the work prior to submittal to Owner's Representative. Contact both departments for the requirements of the approval process.

2. **Proof of Permits, Site Requirements, and Disposal of Waste:** Submit proof satisfactory to the Owner's consultant that all required testing, permits, site location, and arrangements for transport and disposal of lead-coated or contaminated materials, supplies, and the like have been obtained.

3. **Safety Compliance:** In addition to detailed requirements of this Specification, comply with laws, ordinances, rules, and regulations of federal, state, regional, local authorities, and of Owners regarding handling, storing, transporting, and disposing of lead waste materials. Comply with applicable requirements of the current issue of 29 CFR 1910. 29 CFR 1926.62, and 40 CFR 261, 40 CIFR. Parts 35, 36, 37, and CAC Section 5208. Submit matters of interpretation of standards to the appropriate administrative agency for resolution before starting Work. Where requirements of this Specification and reference documents vary, the most stringent requirement shall apply.

4. **Availability of Regulatory References:** Contractor shall have at least one copy each of 29 CFR 1910; 29 CFR 1910.134; 29 CFR 1926; 40 CFR Part 261; and CAC, Title 8, Section 5208, at his or her office and also at the job site.

5. **Posting of Caution Signs:** Before the commencement of any Work at the site, post bilingual EPA and CAL-OSHA caution signs in and around the Work Area to comply with EPA and OSHA regulations.

6. **Submit Training and Certifications:** All lead workers assigned to this project must be accredited as a Lead Worker under the California Department of Public Health (CDPH). At least one employee on each shift shall be currently accredited as a Supervisor and shall have successfully completed in the last 12 months a course of instruction meeting the requirement for "Competent Person." At least one employee on each shift shall be currently accredited in accordance to the Environmental Protection Agency's (EPA) Renovation, Repair, and Painting (RRP) regulation. In addition, Hazardous Material Contractor must also be certified as a firm in accordance with the EPA's RRP regulation

7. **Project Logbook Submittals:** Submit front-end documents of Project Logbook. These documents will include copies of the Contractor's Respiratory Protection Program, HUD and OSHA documents, worker decontamination procedures, equipment decontamination procedures, authorized personnel list, format of daily report sheets, test reports on waste materials, and format of waste manifests. The completed daily reports and waste manifests shall be submitted along with pay requests for completed work. Copies of these front-end documents shall be maintained at the site during the lead removal phase of the Project.

    a. The Superintendent is required to keep the Project Logbook up to date, ensure that all work criteria is followed in the proper sequence, and to fill out the enclosed check list to document the progression of the job. A separate checklist will be required for each individually prepped work area.

8. **Property Condition Assessment:** Owner, Architect/Engineer or Owner's consultant, and Contractor must agree in writing on building and fixture condition prior to commencement of Work. The Contractor shall submit an inventory of all items removed from the Work area and an inventory of all items remaining in the Work area.

9. **Informing Other Trades:** The lead abatement contractor must inform other employers on site of the nature of the Contractor's work with lead-based paint and

the existence of and requirements pertaining to regulated areas. Such notification shall be coordinated with, and approved by, the Owner.

10. **Pressure Strip Recordings:** At the termination of the project, submit copies of all pressure strip chart recordings.

G. **Field Air Sampling:**

Personal monitoring and other monitoring which is required by law or considered necessary by the Contractor for Worker protection shall be the responsibility of the Contractor and performed by Contractor's Air Sampling Professional.

H. **Certifications:**

1. **Equipment Certification:** Submit manufacturer's certification that vacuums, negative air pressure equipment filters, and other local exhaust ventilation equipment conform to ANSI Z9.2, as well as all Federal, State, Local, and SCAQMD regulations (permit to construct).

2. **Rental Equipment:** When rental equipment is to be used in removal areas or to transport waste materials, a copy of the written notification provided to the rental company informing them of the nature of use of the rented equipment shall be submitted to the Owner's representative or Owner and signed by the rental company.

1.6 PERSONAL PROTECTION AND SAFETY:

A. **General:** The Contractor alone shall be responsible for the safety, efficiency, and adequacy of his or her plant, appliances, methods, and for any damages which may result from his or her operations, improper construction practices, or maintenance. He or she shall erect and properly maintain at all times as required by the conditions and progress of the Work, proper safeguards for the protection of workmen and the public and shall post warning signs around the job site.

B. **Personal Protective Equipment:**

1. Provide workers and authorized visitors with sufficient set of protective full body impervious protective clothing. Personal Protective Equipment shall comply with the requirements of 29 CFR 1910, Subpart I., and Title 8 CCR Section 1532.1.

2. Work clothes shall consist of fire retarding, disposable, full-body coveralls, head covers, boots, rubber gloves, and steeled-toe boots or equivalent in accordance with 29 CFR 1926.134, and ANSI Z41. Sleeves at wrists and cuffs at ankles shall be secure.

3. Provide eye protection and hardhats as required by applicable safety regulations and shall conform to ANSI 87.1 and 89.1.

C. **Respiratory Protection Requirements:**

1. Disposable (single use) respirators are not to be worn for protection against lead.

2. **Providing of Equipment:** Provide all workers, foremen, superintendents, authorized visitors, and inspectors personally issued and marked respiratory equipment approved by NIOSH. When respirators with disposable filters are employed, provide sufficient filters for replacement as recommended by manufacturers or this specification. Selection of respirators shall be made according to the guidance of 29 CFR 1910.134; Title 8 CCR Section 1532.1; ANSI Z88.2; CGAI G7.1; EPA 560 OPTS-86.001; and Table I of this section. The Contractor shall provide masks, new in the box, in all sizes produced by the respirator manufacturer (one each). These masks shall be provided for the exclusive use of the Owner's representatives and shall be available at all times.

3. **Approved Respirators:** Contractor will ensure that all respirators used shall be selected from those approved by National Institute of Occupational Safety and Health (NIOSH) for use in atmospheres containing lead, solvents, removers, and against other toxic materials which may be used during the project.

4. **Powered Air-Purifying Respirators (PAPR) usage:** Full containment work activities associated with the abatement of materials coated with lead-based paint where lead containing dust particulates are expected (i.e., sand blasting) shall be conducted while wearing, at a minimum, a full facepiece, powered air-purifying respirator equipped with HEPA filters during the following tasks or under the following conditions:

    a. During removal of lead-containing materials.

    b. During all cleanup and wipe-down of area.

    c. During final wipe down of work space.

    d. At any time that air monitoring levels indicate that lead concentrations are at least 500 $\mu g/m^3$ or greater.

    e. Any situation where gross contamination has occurred because of a tear or rupture in the containment and air sampling indicates airborne lead levels have exceeded 500 $\mu g/m^3$.

5. **1/2 Face Respirator Usage:** For the following tasks or conditions a 1/2 mask air-purifying respirators equipped with high efficiency filters may be used:

    a. Provided maximum airborne lead concentration outside the respirator is at or below 250 $\mu g/m^3$.

    b. During intact component removal, paint film stabilization (loose and flaky paint) work.

    c. Pre-construction sealing of openings and penetrations to the work areas with plastic sheeting.

    d. Decontamination of removable items.

e. Loading lead-containing drums on truck for transportation and unloading bags at approved landfill.

Rest of page intentionally blank, Table 1 follows on next page.

Table 1. Respiratory Protection for Lead Aerosols

Airborne concentration of lead or condition of use	Required Respirator
Not in excess of 500 μg/m³	*1/2 mask air purifying respirator with high efficiency filters. 2,3 *1/2 mask supplied air respirator operated in demand (negative pressure) mode.
Not in excess of 1,250 μg/m³	* Loose fitting hood or helmet powered air-purifying respirator with high efficiency filters. *Hood or helmet supplied air respirator operated in a continuous - flow mode - e.g., type CE abrasive blasting respirator operated in a continuous - flow mode.
Not in excess of 2,500 μg/m³	* Full facepiece air purifying respirator with high efficiency filters. *Tight fitting powered air-purifying respirator with high efficiency filters. *Full facepiece supplied air respirator operated in demand mode. *Full facepiece self-contained breathing apparatus (SCBA) operated in demand mode.
Not in excess of 50,000 μg/m³	*1/2 mask supplied air respirator operated in pressure demand or other positive - pressure mode
Not in excess of 100,000ug/m³	*Full facepiece supplied air respirator operated in pressure demand or other positive-pressure mode - e.g., type CE abrasive blasting respirators operated in a positive - pressure mode.
Greater than 100,000 μg/m³ unknown concentration, or fire fighting.	*Full facepiece SCBA operated in pressure demand or other positive - pressure mode.

***** Greater respiratory protection is always acceptable regardless of lead concentrations.

6. **Type "C" Respirator Usage:** When Type "C" respirators are not required according to 29 CFR 1926.134, Title 8 CCR, Section 1532.1, or this specification, (whichever is more stringent), provide sufficient quantity of filters jointly approved by NIOSH for use in **lead and other** environments so that workers can change filters as required by manufacturer during the workday. Filters shall not be used any longer than one workday. Respirator filters shall be stored at job site in clean room and shall be totally protected from exposure to lead and other hazardous materials prior to their use.

7. **Air Supply Compressors:** Compressors shall meet the requirements of 29 CFR 1910.134 and the following:

    a. Periodic inspection of the carbon monoxide monitor shall be evidenced.

    b. Documentation of adequacy of compressed air system/respiratory protection system shall be retained on site. Documentation shall include a list of compatible components with the maximum number and type of respirators that may be used with the system.

    c. The full facepiece, type "C" supplied-air respirator system shall be fully approved by appropriate regulatory agencies. The compressor shall be specifically for breathing air and have alarms to indicate compressor failure, and overheating. Compressor(s) shall have in-line air-purifying sorbent beds and filters to assure breathing air quality (Grade "D" or better for oil lubricated compressors; Grade "H" or better for electric compressors). The air supply system shall have safeguards to allow for sufficient capacity to allow workers to escape if the air system fails. If an oil-lubricated compressor is used, it shall have a high-temperature or carbon monoxide alarm, or both. If only a high-temperature alarm is used, a carbon monoxide converter shall be used.

    d. The compressor intake shall be designed so as to avoid entry of contaminated air into the system either from the compressor exhaust or other sources of potential contamination. Periodic testing of compressed air shall ensure that systems provide air of sufficient quality.

    e. A pressure-indicating gauge shall be placed at the point of connection (distribution point) where the respirator supply hose (which is a part of the approved facemask/hose system) is attached to the air filtration system or any supply manifold which is located between the mask/hose apparatus and the compressor/filter system. The pressure gauge shall be capable of measuring pressure levels that are consistent with those specified by the respirator operating specifications.

    f. The correct pressure level shall be verified at each distribution point each time the system is engaged. The air supply system will be operated only when operating specifications are maintained.

8. **Fit Testing:** Air respirators shall be fit-tested utilizing isoamyl acetate at the beginning of each project or a minimum of every 12 months as described in Appendix C, 29 CFR 1926.58. Either Isoamyl Acetate Protocol or other similar regulatory protocol may be used.

D. **Bilingual Worker protection procedures (Posted in both English and Spanish):** Adequate shower facilities shall be provided by the Contractor. An employee leaving the Work area shall follow all decontamination procedures necessary or as described herein.

1. **Posted Procedures:** Provide and post, in the Equipment Room and the Clean Room, the decontamination and work procedures to be followed by workers and authorized visitors as described in these Specifications.

2. **Entering the Work Area:** Each worker and authorized visitor shall, upon entering the job site: put on a respirator and clean protective clothing before entering the Equipment Room or the Work area. Clothing that is appropriate for weather and temperature conditions shall be worn under the protective clothing.

3. **Personnel Exiting the Work Area:**

a. Ensure that personnel do not leave work areas through the equipment decontamination enclosure.

b. All workers and authorized visitors shall, each time they leave the Work area; remove gross contamination from clothing before leaving the Work area using a HEPA vacuum; proceed to the Equipment Room and remove all clothing except respirators by carefully rolling down the garment to reduce exposure to dust; clean the outside of the respirator with soap and water while showering; remove the respirator; and thoroughly shampoo and wash themselves

c. Following showering and drying off, each Worker shall proceed directly to the clean change room and dress in clean clothes at the end of each day's Work, or before eating, smoking, or drinking. Before re-entering the Work Area from the clean-change room, each Worker and authorized visitor shall put on a clean respirator and shall dress in clean protective clothing.

d. Before re-entering the Work area from the Clean Change Room, each worker and authorized visitor shall put on a clean respirator and shall dress in clean protective clothing.

e. All workers and authorized visitors shall, at the end of the work day; place disposable clothing in the abatement waste; clean protective gear, including respirators, according to standard procedures; wash hands and face again; proceed to the shower facilities, being certain to wash hair.

f. Workers shall not eat, drink, smoke, or chew gum or tobacco while in the Work area.

g. Workers shall be fully protected with respirators and protective clothing from the time of first disturbance of lead-coated or contaminated materials prior to commencing actual lead abatement and until final cleanup is completed.

4. **Equipment removal procedures:** Clean surfaces of contaminated containers and equipment thoroughly by wet sponging or wiping before moving such items into the equipment decontamination enclosure system washroom or through the shower for final cleaning and removal to uncontaminated areas.

   a. Contaminated work footwear shall be stored in the Equipment Room when not in use in the Work area. Upon completion of lead abatement, dispose of footwear as contaminated waste.

   b. Workers removing waste containers from the equipment decontamination enclosure shall enter the holding area from outside wearing a respirator and be dressed in clean disposable coveralls. No worker shall use this system as a means to leave or enter the washroom or the Work area.

5. **Safety Issues:**

   a. During the removal operations the Contractor may be placing his workers in a potentially hazardous electrical environment. Care and special consideration should be exercised by the Contractor to avoid electrical shock to his or her employees. The requirements as set forth in the latest edition of the National Electrical Code shall be adhered to at all times. Particular emphasis shall be placed on the requirements listed in Article 210-BRANCH CIRCUITS, Article 225-OUTSIDE BRANCH CIRCUITS AND FEEDERS, Article 250-GROUNDING, Article 300-WIRING METHODS, and Article 305-TEMPORARY WIRING, whenever and wherever the existing electrical power service shall be de-energized and temporary electrical power utilized.

   b. During summer work activities the Work area environment may be very hot and humid. The Contractor shall take precautions to protect his or her workers from the hostile environment as well as the lead material. First-aid items such as stretchers, water, and cold packs should be kept adjacent to the Work area exits, thus allowing any personnel requiring emergency treatment egress from the Work area with minimum contamination to the clean environment. No worker shall be allowed to reach through the plastic or air lock door to get water or firstaid supplies during break periods inside the Work area. Breaks, lunch or worker rest periods should be held outside the Work area. All decontamination procedures shall be followed prior to exiting the Work area except in extreme emergencies.

   c. During cold weather periods the workers shall be provided with adequate protection from the environment to not cause harm to the workers.

   d. If evacuation of the Work area is required by contaminated personnel due to an emergency, all work efforts shall stop, and all forces shall be directed at minimizing the area contamination, cleanup operations and first-aid procedures. These activities shall be noted in the daily logbook.

e. During work activities requiring decontamination procedures, the Contractor shall provide a means of communication for the workers inside the Work area without requiring personnel to enter or leave the Work area. This method of communications shall be a two-way radio, localized wire-connected telephone, or similar system. This communication system shall remain intact until the final containment plastic is removed. Then all equipment shall be wiped down, HEPA vacuumed or disposed of as lead-contaminated material.

E. **Posting of Warning Signs:**

1. Post two safety warning signs which follow the "Sample Format Warning Sign" shown below:

Sample Format Warning Sign
Minimum Size - 24" x 36"
Material - Aluminum or Fiberglass
Script:

DANGER

LEAD WORK AREA

MAY DAMAGE FERTILITY OR THE UNBORN CHILD

CAUSES DAMAGE TO THE CENTRAL NERVOUS SYSTEM

DO NOT EAT, DRINK OR SMOKE IN THIS AREA

F. **Emergency Precautions and Procedures:**

1. Establish emergency and fire exits from the Work Area. Emergency exits shall be equipped with 2 full sets of protective clothing and respirators.

2. Local medical emergency personnel, both ambulance crews and hospital emergency room staff, shall be notified prior to commencement of abatement operations as to the possibility of having to handle contaminated or injured Workers, and shall be advised on safe decontamination.

3. Contractor shall be prepared to administer first aid to injured personnel after decontamination. Seriously injured personnel shall be treated immediately or evacuated without delay for decontamination. When an injury occurs, the Contractor shall stop Work and implement fiber reduction techniques (e.g., water spraying) until the injured person has been removed from the Work Area.

4. Before starting actual removal of lead material(s), local police and fire departments shall be notified as to the danger of entering the Work Area. The Contractor shall make every effort to help these agencies form plans of action should their personnel need to enter the contaminated area.

1.7 SUPERINTENDENT, FOREMAN, CRAFTSMAN:

The Contractor shall have a job superintendent present at all times while work on this Contract is in progress.

The Project Superintendent (Competent person) shall be thoroughly familiar and experienced with lead removal and related work and shall be familiar with and shall enforce the use of all safety procedures and equipment. He or she shall be knowledgeable of all HUD, EPA, OSHA (Federal and State), and NIOSH requirements and guidelines. He or she shall be trained and certified by DHS in the proper use of all personal protection and safety equipment including, but not limited to, air purification and respiratory systems.

In addition to the Superintendent, the Contractor shall furnish one or more foremen who are familiar and experienced with lead removal and its related work, safety procedures, and equipment. The Forman shall be the Competent person when the Superintendent is not present.

A. It shall be a requirement of this Contract that the superintendent and/or one or more of the Contractor's foremen be in the Work area at all times while work is in progress.

B. It is the intent of these Specifications that all phases of the Work shall be executed by skilled craftsmen experienced or receiving training by experienced personnel in each respective trade.

C. All superintendents and foremen shall have been trained by attending an appropriate HUD approved Lead-Based Paint Supervisor training course and satisfactorily passing a California State Department of Health Services sanctioned examination for the above stated training program. Only formal training programs will be accepted.

D. Workers shall, at a minimum, receive the appropriate classroom training program covering the topics listed in the HUD guidelines and the OSHA standard and shall have an additional 8 hours of hands-on training prior to beginning abatement work. Training will be through an appropriate HUD approved Lead-Based Paint work training course.

E. The Competent person on-site must be able to clearly communicate in a manner so that the Owner’s Consultant and Owner can clearly understand.

PART 2 - MATERIAL AND EQUIPMENT

2.1 MATERIALS:

A. **Packaging:** Deliver all materials in the original packages, container, or bundles bearing the name of the manufacturer and the brand name.

B. **Storage:** Store all materials subject to damage off the ground, away from wet or damp surfaces, and under cover sufficient to prevent damage or contamination. Damaged or deteriorating materials shall not be used and shall be removed from the

premises. Material that becomes contaminated with lead shall be disposed of in accordance with the applicable regulations.

C. **Chemical removers:** Shall not contain methylene chloride. Chemical removers shall be compatible with and not harm the substrate they are applied to. Chemical removers used on masonry surfaces shall contain anti-stain formulation that inhibits the discoloration of stone, granite, brick, and other masonry construction. Chemical removers used on interior surfaces shall not raise or discolor the surface being abated.

D. **Chemical stripping agent neutralizers:** May be used on exterior surfaces only. Neutralizers shall be compatible with and not harm the substrate to which they are applied. Neutralizers shall be compatible with the stripping agent that has been applied to the surface substrate.

E. **Plastic:** (Fire retardant polyethylene) Sheet, of 6-mil thickness or greater as specified in sizes to minimize the frequency of joints.

F. **Tape:** Capable of sealing joints of adjacent sheets of polyethylene and for attachment of polyethylene sheet to finished or unfinished surfaces of dissimilar materials and capable of adhering under both dry and wet conditions. Use tape with tough backing that does not leave residue on the adhering surface.

G. **Phosphate Wash (TSP Wash):** Shall consist of a solution containing at least one ounce of 5 percent trisodium phosphate (TSP) to each gallon of water.

H. **Impermeable containers:** Suitable to receive and retain any lead-coated or contaminated materials until disposal at an approved site, labeled in accordance with OSHA Regulation 29 CFR 1910.1025 and DOT 49 CFR 171-177. Containers must be both air and watertight and must be resistant to damage and rupture. Plastic bags shall be a minimum of 6-mil thick.

I. **Warning labels and signs**: As required by 29 CFR 1926, 29 CFR 1910.245, and Title 8 CCR, Section 1532.1.

J. **For bridging encapsulant use:**

1. Encapsulant to be specified and approved by Owner's representative

K. **Encapsulants/primers:**

1. Encapsulant to be specified and approved by Owner's representative

L. **Surfactants:** Or wetting agent, for amending water will be 50 percent polyoxyethylene ether and 50 percent polyoxyethylene ester, or equivalent, at a concentration of one ounce per 5 gallons of water.

M. **Other materials:** Provide all other materials, such as lumber, nails, and hardware that may be required to construct and dismantle the decontamination area and the barriers that isolate the Work area.

2.2 TOOLS AND EQUIPMENT:

A. **Tools:** Provide suitable tools for lead-based paint removal.

B. **Air filtration equipment:** High efficiency particulate air (HEPA) filtration systems shall be equipped with filtration equipment in compliance with ANSI Z9.2-79, local exhaust ventilation or equal. No air movement system or air filtering equipment shall discharge unfiltered air outside the Work area. If volatile chemicals are used, use manufacturer's guidelines and provide appropriate filters for solvent vapor or other organic based material use.

PART 3 - EXECUTION

3.1 PREPARATION (Interior Areas):

A. **Separation of work areas from occupied areas as directed in the Scope of Work:**

1. **Reference:** Contractor will use the applicable procedures as outlined in Section 01010HM or, if none, use those contained within. Where conflict among requirements (e.g., other concurrent work) or with these Specifications exists, the more stringent requirements shall apply.

2. **For areas requiring constructed barrier walls:** Separate parts of the building required to remain in use (as shown on Plans) from parts of the building that will undergo lead-containing or lead-based paint removal by means of airtight barriers, constructed as follows:

   a. Build suitable wood or metal framing and apply 3/8 inch minimum thickness sheathing on work side only, unless noted otherwise.

   b. Cover both sides of partition with double layer of plastic sheet with joints staggered and sealed with tape. Edges of partition at floor, walls, and ceiling shall be caulked airtight.

3. **Electrical Shut-down:** Shut down electric power which serves the Work area. Provide temporary power and lighting and ensure safe installation of temporary power sources and equipment per applicable electrical code requirements.

4. **HVAC Shut-down:** Shut down and isolate heating, cooling, and ventilating air systems to prevent contamination and fiber dispersal to other areas of the structure. Physically blank off, with light gage metal, all supply and return air ductwork which leads to and from an isolated work area when the air-handling unit serves areas other than within the isolated work area.

5. **Seal off openings:** Seal off all openings, including but not limited to windows, corridors, doorways, skylights, ducts, grills, diffusers, and any other penetrations of the Work areas, with plastic sheeting (minimum of 4-mils thick) sealed with tape.

B. **Preclean work area:**

1. **Moveable Objects:** Clean all moveable objects within the Work area using HEPA vacuum equipment and wet cleaning methods. Remove these objects from the Work area to a designated temporary storage location.

   Protection of and accounting for the stored materials is the sole responsibility of the Contractor.

2. **Fixed Objects:** Preclean fixed objects within the proposed work areas, using HEPA vacuum equipment and/or wet cleaning methods as appropriate, and enclose with minimum of 6-mil polyethylene sealed with tape.

3. **Vacuum and Wet Methods:** Preclean the proposed work areas using HEPA vacuum equipment or wet cleaning methods as appropriate. Do not use methods that raise dust, such as dry sweeping or vacuuming with equipment not equipped with HEPA filters.

C. **Prepare work area:**

1. **Reference:** Contractor will use the applicable procedures as outlined in Section 01010HM or, if none, use those contained within. Where conflict among requirements (e.g. other concurrent work) or with these Specifications exists, the more stringent requirements shall apply.

2. **Non-Contaminated Objects:** Remove and clean objects, such as lights and other items not previously sealed off, that may interfere with lead removal. Use HEPA vacuum equipment and wet methods during fixture removal to reduce lead dispersal. Wrap in plastic and store for reinstallation upon completion of testing procedures.

3. **Protection of Fixed Objects:** Protect all fixtures, grills, lockers, and other non-removable equipment from water. Also, protect painted surfaces and flooring.

4. **Plasticization:** Cover non-impacted floor, walls and ceiling surfaces with plastic sheeting sealed with tape. Use a minimum of two layers of 6-mil plastic on floors and two layers of 4-mil plastic on walls and ceilings. Cover floors first so that plastic extends at least 12 inches up on walls, then cover walls with plastic sheeting to the floor level, thus overlapping the floor material by a minimum of 12 inches.

   a. All criticals (doors, vents, openings, wall penetrations, etc.) will be covered with 2 layers of 6-mil plastic and secured with duct tape to prevent leakage of air. If windows, doors, door frames, or other interior/exterior transitional items on which lead-based paint is to be removed, place 2 layers of 6-mil plastic just to the outside of the surface area to be removed. All exterior lead-based paint removal is to be performed according to Section 9912, Lead-Based Paint Removal (Exterior).

   b. The second layer of floor sheeting may be black or dark in color. If floor coverings are scheduled for removal, per Plans and/or Scope of Work, floor

plastic is not placed until after floor coverings are removed, which occurs during Lead Removal activities, paragraph 3.2.

c. All joints in the plastic sheeting shall have a minimum of 12 inches of overlap and shall be securely sealed with tape to prevent leakage of air and water.

5. **Emergency Exits:** Maintain emergency and fire exits from the Work areas, or establish alternative exits satisfactory to fire officials.

6. **Establish a reduced pressure in the Work area**

a. **Determine the Ventilation Requirements:**

(1) **General:** Provide fully operational negative pressure systems supplying a minimum of one air change every 15 minutes. Determine the volume in cubic feet of the work area by multiplying floor area by ceiling height. Determine total ventilation requirement in cubic feet per minute (cfm) for the work area by dividing this volume by the air change rate.

Ventilation Required (CFM) =Volume of work area (cu. ft.)/1 5 min.

(2) **Number of Units:** Determine number of units needed to achieve 15 minute change-rate by dividing the ventilation requirement (CFM) above by capacity of exhaust units(s) used. Capacity of a unit for purposes of this section is the capacity in cubic feet per minute with fully loaded filters (pressure differential which causes loaded filter warning light to come on) in the machines labeled operating characteristics.

$$\text{Number of Units Needed} = \frac{\text{Ventilation Requirement (CFM)}}{\text{Capacity of Unit with Loaded Filters (CFM)}}$$

Add one (1) additional unit as a backup in case of equipment failure or machine shutdown for filter changing.

(3) **Location of Exhaust Units:** Locate exhaust unit(s) so that makeup air enters work area primarily through decontamination facilities and traverses work area as much as possible. This may be accomplished by positioning the exhaust unit(s) at a maximum distance from the worker access opening or other makeup air sources.

Place end of unit, or its exhaust duct, through an opening in the plastic barrier or wall covering. The plastic around the unit or duct shall then be sealed with tape.

(4) **Venting or Exhaust:** Unless authorized in writing by the Project Coordinator, vent negative air exhaust to outside of building. Exhaust outlet shall be a minimum of ten feet above ground level.

(5) **Supplemental makeup air inlets:** Provide where required for proper air flow through the work space in location approved by the Project

Coordinator by making openings in the plastic sheeting that allow air from outside the building into the work area.

(6) **Makeup Air Inlets:** Locate auxiliary makeup air inlets as far as possible from the exhaust unit(s) (e.g., on an opposite wall), off the floor, and away from barriers that separate the work area from occupied clean areas. Cover with flaps to reseal automatically if the negative pressure system should shut down for any reason. Spray flap and around opening with spray adhesive so that flap seals if it closes.

b. **Use of the Negative Pressure System:**

(1) **General:** Each unit shall be serviced by a dedicated minimum 115V-20A circuit with overload device tied into an existing building electrical panel that has sufficient spare capacity to accommodate the load of all negative pressure units connected. Dedication of an existing circuit may be accomplished by shutting down existing loads on the circuit.

(2) **Testing the System:** Test negative pressure system before any lead-containing material is wetted or removed. After the work area has been prepared, the decontamination facility set up, and the exhaust unit(s) installed, start the unit(s) (one at a time). Demonstrate operation and testing of negative pressure system to Project Coordinator.

(3) **System Evaluation:** A demonstration of the negative pressure system to the Project Coordinator will include, but not be limited to, the following:

(a) Plastic barriers and sheeting move slightly in toward work area.

(b) Curtain of decontamination units move slightly in toward work area.

(c) There is a noticeable movement of air through the decontamination unit. Use smoke tube to demonstrate air movement from Clean Room to Shower Room, from Shower Room to Equipment Room, and from Equipment Room to Work Area.

(d) Use smoke tubes to determine a positive motion of air across all area in which work is to be performed.

(e) Use a differential pressure meter or manometer to demonstrate a pressure difference of at least 0.02 inches of water across every barrier separation the Work Area from the balance of the building or outside.

(f) Modify the negative pressure system as necessary to successfully demonstrate the above.

D. **Decontamination Facilities:**

1. **General:** Contractor will use the applicable procedures as outlined in Section 01010HM or, if none, use those contained within. Where conflict among requirements (e.g., other concurrent work) or with these Specifications exists, the more stringent requirements shall apply.

2. **Construction Review:** Build suitable decontamination facilities described herein, as previously submitted for review, before start of construction.

3. **Air Locks and Access Doorways:** In all cases, access between contaminated and uncontaminated rooms or areas shall be through an air lock previously defined. Passage between any two rooms within the decontamination facility shall be through an access doorway.

4. **3-Stage Decontamination Enclosure:** Construct a worker decontamination enclosure system contiguous to the Work area consisting of three totally enclosed chambers to conform to standard Plans bound herein and as follows.

    a. A shower room with two access doorways, one to the equipment room and one to the clean room. Plastic, if used, on shower room and adjoining equipment and clean rooms shall be opaque.

    b. The shower room shall contain at least one shower with hot and cold or warm water. Careful attention shall be paid to the shower enclosure to ensure against leaking of any kind.

5. **Remote Decontamination Enclosures:** For remote decontamination systems (non-contiguous to the Work area) construction of the shower will conform to Section 02071HM, Part 3.1, D1, above with the following modifications:

    a. The enclosure need not be attached to the Work area, but clean room and equipment rooms must be clearly marked at their respective entrances.

    b. A HEPA filtration machine must be attached to the equipment room and must be operational while the decontamination unit is in use.

6. **Equipment Decontamination Enclosures:** For an equipment decontamination enclosure facility, construct two totally enclosed chambers as follows:

    a. A washroom, constituting an air lock, with an access doorway to a designated area of the Work area and an access doorway to the holding area.

    b. A holding area, constituting an air lock, with an access doorway to the washroom and an access doorway to an uncontaminated area.

7. **Entry/Exit systems:** All decontamination systems or entry/exit system air locks will be constructed using Z-flap design incorporating 2 layers of 6-mil plastic with the flaps extending the full height and width of the entrance space.

E. **Maintenance of enclosure system:**

1. Ensure that barriers and plastic linings are effectively sealed and taped. Repair damaged barriers and remedy defects immediately upon discovery.

2. Visually inspect enclosures at the beginning of each work period.

3. Use smoke methods to test effectiveness of barriers when directed by Owner or representative of Owner.

F. **Lead removal work shall not commence until:**

1. Arrangements have been made for disposal of waste at an acceptable site.

2. Work areas and decontamination facility and parts of the building required to remain in use are effectively segregated.

3. Tools, equipment, and material waste receptors are on hand.

4. Arrangements have been made for building security.

5. All other preparatory steps have been taken and applicable notices posted and permits obtained.

6. Removal work will not begin until the Owner's consultant authorizes work to commence, in writing.

3.2 LEAD REMOVAL:

A. **General:** Prepare site per paragraph 3.1.

B. **References:** Contractor will use the applicable procedures as outlined in Section 01010HM or, if none, use those contained within. Where conflict among requirements (e.g. other concurrent work) or with these Specifications exists, the more stringent requirements shall apply.

C. **Negative pressure system during abatement Operations:**

1. Start exhaust units before beginning work (before any lead-containing material is disturbed). After abatement work has begun, run units continuously to maintain a constant negative pressure until decontamination of the work area is complete. Do not turn off units at the end of the work shift or when abatement operations temporarily stop.

2. Start abatement work at a location farthest from the exhaust units and proceed toward them. If an electric power failure occurs, immediately stop all abatement work and do not resume until power is restored and exhaust units are in operation again.

3. At completion of abatement work, allow exhaust units to run, to remove airborne dust that may have been generated during abatement work and cleanup and to purge the work area with clean makeup air. The units may be required to run for a longer time after decontamination, if dry or only partially wetted lead material was encountered during any abatement work.

D. **Lead-Containing Materials Removal:**

1. Ensure that the material is thoroughly soaked with amended water prior to removal.

2. Ensure that the air is misted thoroughly during the removal process.

3. Remove materials intact as much as possible.

E. **Containerizing Waste:**

1. **Daily Containerizing**: During each day's work, the bulk lead material shall be bagged in 6-mil thick bags, before it dries. No lead material shall be allowed to lie on the floor overnight.

2. **Types of Containers:** Place the bagged material in sealed containers (hard sealable containers).

3. **Labels:** Place caution labels on containers in accordance with OSHA Regulation 29 CFR 1910.1025 and DOT 49 CFR 171-177 if not already preprinted on containers.

4. **Cleaning:** Clean external surfaces of containers thoroughly by wet sponging in the designated area. Move containers to washroom, wet clean each container thoroughly, and move to holding area pending removal to uncontaminated areas. If the holding area is outside containment it well be a locked and secured area with appropriate warning signage at entrance. If holding area is within containment ensure that area is secure and appropriate signage is maintained.

5. **Safety:** Ensure that containers are removed from the holding area by workers who have entered from uncontaminated areas dressed in clean coveralls.

F. **Post Removal Cleaning:** After completion of stripping work (chemical or abrasive), all surfaces from which lead-based paint or lead containing material has been removed shall be wet brushed and sponged or cleaned by an equivalent method to remove all visible material. During this work, the surfaces being cleaned shall be kept wet. At the Contractor's option, the layer of plastic exposed to the lead may be removed, leaving intact the final layer of plastic.

G. **Safety:** Ensure that workers do not enter from uncontaminated areas into the washroom or the Work area; ensure that contaminated workers do not exit the Work area through the equipment decontamination enclosure system.

3.3 CLEANUP AND CLEARANCE MONITORING:

Employ the following procedures in cleaning up the Work area:

A. **Wet Clean:** Wet-clean all surfaces and remove all visible accumulation of lead containing material from the Work area. Prepare the Work area for the initial visual inspection using a sequenced cleaning technique using HEPA vacuuming, a TSP washdown, and a second HEPA vacuuming.

B. **Initial Visual Inspection:** Once the Work area is clean of visible accumulations of lead material, the Owner's consultant will perform the visual inspection. The Contractor will continue the HEPA vacuuming and washdown process until the area is visible clean.

C. **Plastic Removal:** When the area is deemed clean by the Owner's consultant, remove plastic from all surfaces

D. **For surfaces to be stabilized perform the following:**

1. As directed by Owner's Representative, lead painted surfaces shall be sealed with a non-lead containing encapsulating primer after the surface is clean and dry. Apply encapsulant using airless spray equipment or suitable paint applicator where a uniform coat can be applied.

2. Prepare and apply encapsulating primer according to the manufacturer's specifications. Because application by spraying could cause dissemination of residual LBP, encapsulating primer must be applied with as much caution and at as low a nozzle pressure as possible.

3. Encapsulating primer shall be applied according to manufacturer's specifications. Encapsulating primer shall be allowed to dry between coats, per manufacturer's recommendations.

4. Upon completion of paint stabilization work, notify Owner's consultant in writing that stabilization surfaces are ready for review.

E. **Final Visual Inspection:** Owner's consultant will conduct a thorough visual inspection to determine the completeness of encapsulation and use a damp cloth for wiping abated surfaces prior to collecting the actual wipe samples.

F. **Clearance Wipe Testing:** Upon successful completion of the visual inspection and Owner's consultant's determination that all surfaces in the Work area are dry and free of contamination, the clearance wipe tests will be conducted. A certificate of Visual Inspection shall be issued by the Owner's Representative and shall be signed by both the contractor and the Owner's Representative.

1. The final wipe clearance test will consist of sampling and analysis in accordance with the HUD guidelines. The levels noted in the HUD Guidelines or Title 17, California Code Of Regulations, Division 1, Chapter 8 (whichever is more stringent at time of work) will be achieved prior to acceptance.

2. Contractor shall continue cleaning the Work site until the accepted lead level is achieved.

G. **Additional inspection/testing:** Additional inspection/testing required after the sequence detailed above will be the responsibility of the Contractor. In the event of additional testing, the Contractor may reimburse Owner, or reduce the Contract amount by change order. It is the Owner's intent to have, at no charge to the Contractor, one set of inspections/tests performed in each area. A test may consist of one sample or a series of samples performed at the same time.

H. **Dismantling the negative air system:** When a final inspection and the results of final wipe tests indicate that the area has been decontaminated, exhaust units may be removed from the work area. Before removal from the work area, remove and properly dispose of pre-filter, and seal intake to the machine with 6-mil polyethylene to prevent environmental contamination from the filters.

3.4 HANDLING AND DISPOSAL OF LEAD-COATED MATERIALS AND LEAD-CONTAMINATED WASTE:

Waste Characterization: Contractor shall submit to Owner's consultant, copies of waste characterization testing prior to transportation of all waste.

A. **Storage:** Store all waste material in a lockable container that is inaccessible to all persons other than employee's of the Contractor. Until TCLP testing proves a category to be non-hazardous, all waste shall be considered hazardous, and stored as such. Any material found to be hazardous by way of testing shall be labeled **"Hazardous Waste - Contains Lead"** and the date that the Contractor began to collect the waste in that container. All hazardous and non-hazardous waste shall be kept in totally and completely separate containers.

B. **Waste Segregation**

1. All categories of waste identified in this specification shall be kept separate from each other. The categories that have been identified include:

   a. Waste water from shower and cleaning operations
   b. Disposable suits and respirator cartridges
   c. Components that are painted with Lead-Based paint
   d. Components that are lead-laden (e.g., ceramic tile)
   e. Paint chips, debris and vacuum contents
   f. Plastic sheeting, duct tape
   g. Rags, sponges, mops and other items used to conduct clean up activities

C. **Representative Samples:** Representative material of each of the categories must be sampled and submitted for testing to determine if the material in the category are hazardous.

1. Representative samples of waste materials shall be collected by the Consultant.

D. **Waste Testing**

1. At no time shall waste be removed from the site without the following documentation submitted to the Owner or Owner's representative for approval.

   a. TCLP, STLC, and TTLC testing results as required by the specifications or according to local and state requirements.

b. Hazardous waste manifest for those materials identified as hazardous wastes.

2. Testing of those categories of materials shall be performed to minimize the storage of assumed hazardous materials. Contractor shall collect at least one composite sample from each of the categories listed above in section 3.4.B, "Waste Segregation." The analysis shall be conducted to determine if any of the waste categories are classified as a RCRA hazardous waste. The Contractor shall determine if testing for other compounds, such as pH, Flashpoint, etc., are required for disposal at a particular landfill.

3. If test results of the composite samples for any of the Waste Segregation categories indicate that the sampled materials are found to contain greater than the action levels indicated below, those materials represented by the composite sample shall be disposed of as Hazardous Waste.

   a. Greater than or equal to 1000 PPM of the total Lead as determined by the Total Threshold Limit Concentration Procedure (TTLC) by EPA 6010.

   b. Greater than or equal to five (5) PPM of soluble Lead as determined by the “California Wet Test” or Soluble Threshold Limit Concentration Procedure (STLC) by EPA 200.7.

   c. Greater than or equal to five (5) PPM of leached Lead as determined by the Toxicity Characteristic Leaching Procedure (TCLP) by EPA 200.7

4. All waste must be transported by a Certified Hazardous Waste Transporter.

5. If the test results for any of the waste segregation categories indicate that less than the action levels listed above were detected, those materials represented by the composite sample may be disposed of as construction debris provided they do not meet any other criteria that would designate them as a hazardous waste.

6. The Abatement Contractor will be required to comply with the Resource Conservation and Recovery Act (RCRA) and/or any other applicable state, county law, regulation and/or guidelines, whichever is the most stringent.

D. **Waste Transportation:** Submit the method of transport of hazardous waste including name, address, EPA I.D. number, and telephone number of transporter.

1. If the Abatement Contractor is not a RCRA/DOT/EPA certified Hazardous Waste Transporter, then a contract shall be entered into with a certified Transporter to move the waste. The Abatement Contractor shall require the certified hazardous waste transport firm to follow RCRA, DOT, EPA, and any/all other applicable regulations. Many transporters are also capable of supplying pertinent information and services applicable to necessary rules, regulations, and specifications. The certified Transporter/hauler shall submit to the Owner or Owner's representative for approval their qualifications to perform the work as specified herein. The Abatement Contractor shall be responsible for the actions of the waste hauler as pertaining to waste removal and disposal under this section and all EPA, DOT, and other applicable regulations.

E. **Hazardous Waste Site:** Submit for approval the name, class, address, EPA I.D. number, and telephone number of hazardous waste site(s) to be utilized for disposal.

1. The Abatement Contractor must supply documents that detail the site(s) to be used for ultimate waste disposal. Documents from these disposal sites must be supplied by the Abatement Contractor to the **Owner or Owner's representative** from the disposal facilities stating that hazardous and/or construction waste will be accepted by these facilities. In addition, the Abatement Contractor must submit documents from these sites proving that they are licensed/permitted to accept such waste and will accept the waste proposed by the Abatement Contractor for treatment or ultimate disposal.

D. **Containers:** Containers to be loaded for transportation from the Holding Area must be removed by Workers who have entered from uncontaminated areas, dressed in clean overalls. Workers must not enter from the Holding Area into the Washroom or the Work Area.

1. Waste Containers – The Abatement Contractor will comply with EPA and DOT regulations for waste containers. The Abatement Contractor shall contact the State and Local authorities to determine their criteria for containers. In the case of any conflict in regulations, the more stringent regulation shall apply.

   a. Paint Chips: The Abatement Contractor shall place lead-based paint fragments and debris produced as a result of any abatement activity, and lead dust in 6-mil polyethylene (plastic) bags that are air-tight and puncture-resistant.

   b. Cleaning Materials: The Abatement Contractor will place all disposable cleaning materials such as sponges, mop heads, filters, disposable clothing, and brooms in six-mil plastic bags or sealable drums. If after testing, those materials are determined to be hazardous, the bags or drums will be sealed, labeled, and considered hazardous waste.

   c. Contaminated Debris: In Particular, the Abatement Contractor shall separate, label, and containerize the following.

      (1) All paint fragments removed by chemical strippers, surface preparation, or by any abatement methodology.

      (2) Grossly contaminated body suits.

      (3) HEPA vacuum contents, filters, and respirator cartridges: paint chips or other abatement debris on plastic should always be HEPA vacuumed prior to picking up the plastic.

      (4) Dust/Debris or contaminated materials.

      (5) All hazardous waste or materials should be kept totally separate from non-hazardous materials.

      (6) Polyethylene Sheeting: Prior to removing any six (6) mil polyethylene sheeting, the Abatement Contractor shall lightly mist the sheeting in order

to keep dust down and remove and containerize any debris by folding the polyethylene sheeting inward to contain debris and to form tight bundles to containerize for disposal. The Abatement Contractor shall place all plastic sheeting in six (6) mil thick polyethylene bags or sealable drums, and seal with duct tape.

(7) Liquid Waste: The Abatement Contractor shall contain and properly dispose of all liquid waste, including lead-contaminated wash water. The container for waste waters shall be lined 55 gallon metal drums.

(8) Solvents: The Abatement Contractor shall place solvent residues and residues from strippers in drums made out of materials that cannot be dissolved or corroded by chemicals. Solvents will be tested by the Abatement Contractor to determine if they are hazardous. Solvents, caustic, and acid waste must be segregated and not stored in the same containers.

2. The Abatement Contractor shall HEPA vacuum the exterior of all waste containers prior to removing the waste containers from the work area and shall wet wipe the containers to ensure that there is no residual contamination. Containers should then be moved out of the work area into the designated storage area.

F. **Disposal:** The sealed lead containers shall be delivered to Contractor's predesignated approved Hazardous Waste Site for burial; in accordance with Title 22, CAC, EPA guidelines and 40 CFR 61.156 and local Air Pollution Control District Regulations.

G. **Notification of Transport:** Notify the Owner's consultant **48 hours in advance** of the time when contaminated materials are to be removed from the site.

H. **Safety:** Contractor shall be responsible for safe handling and transportation of hazardous waste generated by this Contract to the designated Hazardous Waste Site.

I. **Hazardous Materials Spills:** Contractor shall hold the Owner and Owner's consultant harmless for claims, damages, losses, and expenses, including attorney's fees arising out of or resulting from, lead spills on the site or spills enroute to the disposal site.

3.5 REESTABLISHMENT OF OBJECTS AND SYSTEMS:

A. **Relocation of Moveable Objects:** Relocate objects moved to temporary locations in the course of the Work to their proper positions. Only clean objects are to be moved into the areas.

B. **Remounting Objects:** Remount objects removed in the course of the Work in their former positions. Repair any moveable or fixed objects damaged during the course of the Work.

C. **Systems reestablishment:** Reestablish HVAC, mechanical, and electrical systems in proper working order.

1. Install new HVAC filters and dispose of used filters as contaminated waste.

D. **Building repair/repaint:** Repair any damage to building, or building systems (electrical, mechanical, plumbing, etc.,) which was not noted in writing prior to work area preparation.

1. Repaint any areas damaged during the course of the Work unless this work is scheduled for repair by others. See paragraph 1.2 C, Related Work Specified Elsewhere, of this section. Quality of paint and workmanship shall be consistent with that found within the building prior to this Project, unless otherwise stated. Refer to Section 09900-Painting.

END OF SECTION

SECTION 02093HM

INTERIM CONTROLS REGARDING LOOSE AND FLAKY PAINT
(Paint Film Stabilization)

PART 1 - GENERAL

1.1 SCOPE:

This Specification covers the implementation of interim controls regarding the removal of loose and flaky lead-based paint from substrates as described in Section 01010HM, Scope of Work.

1.2 DESCRIPTION OF WORK:

A. The Work specified herein shall be the removal of loose and flaky lead-based paint by persons knowledgeable, qualified, and trained in interim controls for the removal, treatment, handling, and disposal of loose and flaky lead-based paint, and the subsequent cleaning of the affected environment, and who comply with Federal, State, and Local regulations and guidelines which mandate work practices, and who are capable of performing the Work of this Contract.

B. **Contract Fulfillment:** The Contractor shall supply all labor, materials, equipment, services, insurance, and incidentals which are necessary or required to perform the Work in accordance with applicable governmental regulations and guidelines and these Specifications.

1.3 TERMINOLOGY:

See Section 02092HM, Part 1.3 for Terminology.

1.4 APPLICABLE DOCUMENTS:

Comply with Section 02092HM, Part 1.4 for Applicable Documents.

1.5 SUBMITTALS AND NOTICES:

Comply with Section 02092HM, Part 1.5 for Submittals and Notices.

1.6 **PERSONAL PROTECTION AND SAFETY:**

Comply with Section 02092HM, Part 1.6. It shall be modified in the following particulars only.

A. **Respiratory Protection Requirements:**

1. Disposable (single use) respirators are not to be worn for protection against lead.

2. For the following tasks or conditions, a 1/2 mask air-purifying respirator, equipped with high efficiency filters may be used:

   a. Provided maximum airborne lead concentration outside the respirator at or below 500 $\mu g/m^3$:

   b. Pre-construction sealing of openings and penetrations to the work areas with plastic sheeting.

   c. Decontamination of removable items.

   d. During removal of lead-containing materials.

   e. During all cleanup and wipe down of area.

   f. During final wipe down of work space.

   g. Loading lead-containing drums on truck for transportation and unloading bags at approved landfill.

3. A full facepiece, powered air-purifying respirator equipped with HEPA filters will be required under the following conditions:

   a. At any time that air monitoring levels indicate that lead concentrations are at least 500 $\mu g/m^3$ or greater.

4. All employees and visitors will wear appropriate filters for the work at hand. During chemical use, follow manufacturer guidelines for appropriate personal and respiratory protection.

B. **Bilingual Worker Protection Procedures (Posted in both English and Spanish):**

1. Each worker and authorized visitor shall: put on a respirator and don one suit of protective clothing before entering the Equipment Room or the Work area. Clothing that is appropriate for weather and temperature conditions is worn under the protective clothing.

2. Each time before leaving the work area, all workers and authorized visitors shall remove gross contamination from the protective clothing using a HEPA vacuum, then remove protective clothing except respirators by carefully rolling down the garment to reduce exposure to dust and place within a labeled hazardous material

6-mil plastic bag which is within the work area. Personnel will then proceed through to the washroom and clean the outside of the respirator with a wet disposable towel; remove the respirator; and thoroughly wet wipe themselves

3. Following wet wiping and decontamination procedures, each Worker shall proceed directly to the outside area at the end of each day's Work, or before eating, smoking, or drinking.

4. Before re-entering the Work Area, each Worker and authorized visitor shall put on a clean respirator and shall dress in clean protective clothing as described above.

5. Contaminated work footwear shall be stored in the Equipment Room or Work area in a labeled 6-mil bag when not in use in the Work area until they are appropriately decontaminated. Upon completion of lead work, dispose of footwear as contaminated waste unless they can be appropriately decontaminated. All porous type footwear will be disposed of as contaminated waste.

6. Workers removing waste containers from the equipment decontamination enclosure shall enter the holding area from outside wearing a respirator and dressed in clean disposable coveralls. No worker shall use this system as a means to leave or enter the washroom or the Work area.

7. Workers shall not eat, drink, smoke, or chew gum or tobacco while in the Work area.

8. Workers shall be fully protected with respirators and protective clothing from the time of first disturbance of lead-coated or contaminated materials prior to commencing actual lead abatement and until final cleanup is completed.

1.7 **SUPERINTENDENT, FOREMAN, CRAFTSMAN:**

Comply with Section 02092HM, Part 1.7, Superintendent, Foreman, Craftsman.

PART 2 - MATERIAL AND EQUIPMENT

Comply with Section 02092HM, Part 2.

PART 3 - EXECUTION

3.1 PREPARATION:

A. For exterior work, the contractor shall prepare the area as follows:

1. Doors and Windows: Doors and windows on the side of the building upon which a dust-generating method is being used, and on the same floor and all floors below, must be covered with 6-mil thick polyethylene sheeting.

2. Plants and ground: The ground and any plants or shrubs in the area in which exterior abatement is occurring shall be covered with two layers of 6-mil plastic in a tarp-like fashion, sufficiently bonded together to form a single layer and weighted at all edges so as to prevent blowing. A single 10-mil plastic sheet may be substituted. Such covering shall cover from the side of the structure to a point at least eight feet away from the structure for every story in height (10'). The covering shall be taped or otherwise attached to the structure.

3. Ground covers shall always be placed in a manner that traps all debris and water. This is best accomplished by elevating the edges.

4. The plastic ground cover shall be properly disposed of and not re-used.

B. For exterior work where water blasting occurs, the contractor shall prepare the area as follows:

1. Critical Barriers shall be erected whereby all water and loose paint shall be contained within the Work Area.

2. Ground: The ground shall be covered with 10-mil or 6-mil reinforced polyethylene and shall extend 18 inches vertically at all perimeter walls.

3. Vertical Surfaces: A single layer of 6-mil polyethylene shall be constructed as a critical barrier on all vertical walls and shall overlap 12 inches on top of ground poly.

4. Contractor shall contain all water within the enclosure. Contractor shall construct containment as to prevent water leakage from containment or into buildings.

5. All containment plastic shall be properly disposed of and not re-used.

6. All water within the containment shall be filtered with a HEPA filtration device.

C. For all exterior work:

1. **Special Areas:** Any abatement project being performed on any structure other than a building shall be arranged, equipped, and operated in a manner that will eliminate the possibility of lead contaminates or lead contaminated materials escaping from the work area.

2. **Maintain Barriers:** The abatement subcontractor shall maintain polyethylene barriers and a clean area as long as needed for the safe and proper completion of the work. Any openings or tears in the work area barriers shall be corrected by the abatement subcontractor at the beginning of each work day and as necessary during the workday with such openings and barriers in place and acceptable to the owner's consultant.

3. **Prior to barrier removal:** Barriers shall not be removed until the work areas are thoroughly cleaned, and the area is approved by the consultant. All debris must be bagged and removed from work areas, and the lead surface wipe samples must

have passed final clearance test, in accordance with provisions detailed in the barrier removal.

4. **Use of mini-isolation chamber:** At the Owner's, and consultant approval, the Abatement Subcontractor may utilize a portable mini-isolation chamber to create an isolated work area around single components to be removed. This chamber shall still be equipped with an adjacent clean room, and become an isolated work area sealed at all seams to where it is attached to adjacent surfaces. It shall also satisfy all requirements for a work area and satisfy all clearance criteria, as identified in this section and local law.

5. **Signs:** Prior to the preparation of the dwelling for abatement, the abatement subcontractor shall place warning signs immediately outside all entrances and exits to the dwelling, warning that abatement work is being conducted in the vicinity. The signs shall be at least 20" x 14" and read

DANGER

LEAD WORK AREA

MAY DAMAGE FERTILITY OR THE UNBORN CHILD

CAUSES DAMAGE TO THE CENTRAL NERVOUS SYSTEM

DO NOT EAT, DRINK OR SMOKE IN THIS AREA

6. Signs shall be in bold lettering with lettering not smaller than two inches tall.

7. Construct and maintain suitable polyethylene barriers within the building to isolate the exterior work area from the interior of the building. Make every effort to maintain a distance of 25 feet from the barrier tape to the closet scheduled point of work within the Work area(s).

8. Maintain emergency and fire exits from Work Areas.

D. For interior work, the contractor shall prepare the area as follows:

1. **HVAC shut down:** Shut down or isolate heating, cooling, ventilation air systems within the control area to prevent contamination and dust dispersal to other areas of the structure. During the Work, vents within the immediate removal area (to a distance of ten feet from the affected surface) shall be sealed with tape and plastic sheeting and as shown on plans.

2. **Loose equipment:** Do not begin Work until immediate work area is free of loose equipment.

3. **Pre-clean:** Pre-clean fixed objects within the proposed Work Areas using HEPA filtered vacuum equipment and/or protect occupants' belongings by covering with one layer of six mil polyethylene and have joints taped. All debris gathered during this clean up shall be disposed of properly. In addition, any loose paint or paint bearing debris found in the buildings are to be assumed hazardous and packaged

and disposed of properly. The amount of the materials should be estimated during the pre-bid walk through.

4. **Use of a mini-containment:** At the Owner's and consultant's approval, the Abatement Subcontractor may utilize a portable mini-isolation chamber to create an isolated work area around single components to be removed. This chamber shall still be equipped with an adjacent clean room, and become an isolated work area sealed at all seams to where it is attached to adjacent surfaces. It shall also satisfy all requirements for a work area and satisfy all clearance criteria, as identified in this section and local law.

5. **Walls and floors:** Lay a single layer of six-mil thick polyethylene sheeting below the impacted area. Sheeting will extend to a distance of six feet beyond the affected area in all direction not bounded by walls or non-moveable partitions. Walls directly below the affected surface will be covered with six-mil thick polyethylene sheeting to extend 4 feet in either direction beyond the affected area.

6. **Surrounding barrier:** A barrier shall be erected at room entrances, which shall be sealed with a single layer of six-mil thick polyethylene sheeting, and a suitable two-stage decontamination unit shall be erected and attached to barrier sheeting.

7. **Maintaining barriers:** The abatement subcontractor shall maintain polyethylene barriers and a clean area as long as needed for the safe and proper completion of the work. Any openings or tears in the work area barriers shall be corrected by the abatement subcontractor at the beginning of each work day and as necessary during the workday with such openings and barriers in place and acceptable to the consultant.

8. **Removal of barriers:** Barriers shall not be removed until the work areas are thoroughly cleaned, and the area approved by the consultant. All debris must be bagged and removed from work areas, and the lead surface wipe samples must have passed final clearance test according to provisions detailed in the barrier removal.

9. **Signs:** Prior to the preparation of the dwelling for abatement, the abatement subcontractor shall place warning signs immediately outside all entrances and exits to the dwelling, warning that abatement work is being conducted in the vicinity. The signs shall be at least 20" x 14" and read:

DANGER

LEAD WORK AREA

MAY DAMAGE FERTILITY OR THE UNBORN CHILD

CAUSES DAMAGE TO THE CENTRAL NERVOUS SYSTEM

DO NOT EAT, DRINK OR SMOKE IN THIS AREA

10. Signs shall be in bold lettering with lettering not smaller than two inches tall.

11. Maintain emergency and fire exits from Work Areas.

12. Construct and maintain suitable polyethylene barriers within the building to isolate the exterior work area from the interior of the building. Make every effort to maintain a distance of 10 feet from the barrier tape to the closet scheduled point of work within the Work area.

13. Maintain emergency and fire exits from Work Areas.

E. **Decontamination Facilities:**

Build suitable decontamination facilities described herein, as previously submitted for review, before start of construction.

In all cases, access between contaminated and uncontaminated rooms or areas shall be through an air lock previously defined. Passage between any two rooms within the decontamination facility shall be through an access doorway.

1. Locate decontamination facility as close in proximity to the Work area as possible.

2. Construct a two-stage worker decontamination enclosure system consisting of two totally separate areas to conform to standard Plans found herein and as follows.

   a. A shower area with two access ways: one to the equipment room and one to the outside area. Plastic, if used, on shower room and adjoining equipment rooms shall be opaque.

   b. The shower area shall contain at least one room with water for wet wiping of hands and face. Careful attention shall be paid to the shower enclosure to ensure against leaking of any kind.

3. If needed, provide or construct an equipment decontamination area consisting of two totally separate areas as follows:

   a. A washroom, with access to a designated area of the Work area and access to the holding area.

   b. A holding area with access to the washroom and access to an uncontaminated area.

4. At entrances and exits and the decontamination facility name of both the shower and equipment decontamination room, a clearly identifiable label shall be affixed that is visible from a distance of 25 feet.

3.2 INTERIM CONTROL METHODS FOR LOOSE AND FLAKY LBP:

A. Prepare site per paragraph 3.1.

B. Remove and clean or clean and wrap objects, such as lights and other items not previously sealed off that may interfere with lead removal. Use HEPA vacuum equipment and wet methods during fixture removal to reduce lead dispersal. Wrap removed items in plastic and store for reinstallation upon completion of testing procedures.

C. **Protection:** Protect all fixtures, grills, lockers, and other non-removable equipment from water. Also, protect painted surfaces and flooring.

D. **Scrapping of loose and flaky paint:**

1. All surfaces shall be final scrapped following other flaky paint removal methods.

2. The Contractor shall scrape the material in such a manner as to prevent damage to the substrate.

3. The Contractor shall use wet methods during the scrapping process, unless the substrate will result in undo damage from the wetting. If wetting cannot be performed to this condition, scrapping shall be slow and deliberate so as to lessen the distance of travel. In all cases, occasional misting of the immediate area over the drop cloth shall be performed. After scrapping the impacted area, the area shall be thoroughly HEPA vacuumed.

4. Sufficient scrapping of loose and flaky paint for application of lead-bloc or other encapsulation method shall occur when a scrapping blade is drawn across the remaining painted surface with heaviness of hand and no additional paint dislodges from the substrate. Sufficient scrapping is at the discretion of the consultant and/or inspector.

E. **Paint Stabilization:** Perform paint stabilization process according to Section 2092, Part 3.3.D.

3.3 CLEANUP AND CLEARANCE MONITORING:

Comply with Section 02092HM, Part 3.3, for Cleanup and Clearance Monitoring.

3.4 DISPOSAL OF LEAD-COATED MATERIALS AND LEAD-CONTAMINATED WASTE:

Comply with Section 02092HM, Part 3.4, for Disposal of Lead-Coated Materials and Lead-Contaminated Waste.

3.5 REESTABLISHMENT OF OBJECTS AND SYSTEMS:

Comply with Section 02092HM, Part 3.5 for Reestablishment of Objects and Systems.

END OF SECTION

SECTION 02095HM

LEAD-BASED PAINT REMOVAL (Chemical and Component)

PART 1 - GENERAL

1.1 SCOPE:

This Specification covers the abatement of materials coated with lead-based paint as described in Section 01010HM, Scope of Work.

1.2 DESCRIPTION OF WORK:

A. **The Work:** The Work specified herein shall be the removal of those materials coated with lead-based paint by persons knowledgeable, qualified, and trained in the removal, treatment, handling, and disposal of lead-based paint, and the subsequent cleaning of the affected environment, and who comply with Federal and State and Local regulations and guidelines which mandate work practices, and who are capable of performing the Work of this Contract.

B. **Contract Fulfillment:** The Contractor shall supply all labor, materials, equipment, services, insurance, and incidentals which are necessary or required to perform the Work in accordance with applicable governmental regulations and guidelines and these Specifications.

1.3 TERMINOLOGY:

See Section 02092HM, Part 1.3, for Terminology.

1.4 APPLICABLE DOCUMENTS:

Comply with Section 02092HM, Part 1.4, for Applicable Documents.

1.5 SUBMITTALS AND NOTICES:

Comply with Section 02092HM, Part 1.5, for Submittals and Notices.

1.6 PERSONAL PROTECTION AND SAFETY:

Comply with Section 02092HM, Part 1.6. It shall be modified in the following particulars only.

A. **Respiratory protection requirements:**
   1. Disposable (single use) respirators are not to be worn for protection against lead.

2. For the followings tasks or conditions a 1/2 mask air-purifying respirators equipped with high efficiency filters may be used:

    a. Provided maximum airborne lead concentration outside the respirator is at or below 500 $\mu g/m^3$:

    b. During component removal were LBP dust is not generated.

    c. During chemical removal. Suitable air-filter cartridges for use with chemicals must be employed.

    d. Pre-construction sealing of openings and penetrations to the work areas with plastic sheeting.

    e. Decontamination of removable items.

    f. During removal of lead-containing materials.

    g. During all cleanup and wipe down of area.

    h. During final wipe down of work space

    i. Loading lead-containing drums onto truck for transportation and unloading bags at approved landfill.

3. A full facepiece, powered air-purifying respirator equipped with HEPA filters will be required under the following conditions:

    a. At any time that air monitoring levels indicate that lead concentrations are at least 500 $\mu g/m^3$ or greater.

    b. Any situation where gross contamination has occurred, air sampling indicates airborne lead levels have exceeded 500 $\mu g/m^3$.

4. All Employees and visitors will wear appropriate filters for the work at hand. If chemicals are used, follow manufacturer guidelines for appropriate personal and respiratory protection.

B. **Bilingual Worker protection procedures for chemical removal(Posted in both English and Spanish):**

1. Each worker and authorized visitor shall, upon entering the job site: put on a respirator and don two suits of protective clothing before entering the Equipment Room or the Work area. Clothing that is appropriate for weather and temperature conditions is worn under the protective clothing.

2. Each time before leaving the work area, all workers and authorized visitors shall remove gross contamination from the protective clothing using a HEPA vacuum, then remove the top protective suit and place within a labeled hazardous material 6-mil plastic bag which is within the work area. Personnel will then proceed to the Equipment Room and remove remaining protective clothing except respirators by

carefully rolling down the garment to reduce exposure to dust. Personnel will then proceed through to the washroom and clean the outside of the respirator with a wet disposable towel; remove the respirator; and thoroughly wet wipe themselves

3. Following wet wiping and drying off, each Worker shall proceed directly to the outside area at the end of each day's Work, or before eating, smoking, or drinking.

4. Before re-entering the Work Area each Worker and authorized visitor shall put on a clean respirator and shall dress in clean protective clothing as described above.

5. Contaminated work footwear shall be stored in the Equipment Room or Work area in a labeled 6-mil bag when not in use in the Work area, until they are appropriately decontaminated. Upon completion of lead abatement, dispose of footwear as contaminated waste unless they can be appropriately decontaminated. All porous type footwear will be disposed of as contaminated waste.

6. Workers removing waste containers from the equipment decontamination enclosure shall enter the holding area from outside wearing a respirator and dressed in clean disposable coveralls. No worker shall use this system as a means to leave or enter the washroom or the Work area.

7. Workers shall not eat, drink, smoke, or chew gum or tobacco while in the Work area.

8. Workers shall be fully protected with respirators and protective clothing from the time of first disturbance of lead-coated or contaminated materials prior to commencing actual lead abatement and until final cleanup is completed.

C. **Bilingual Worker protection procedures for component removal(Posted in both English and Spanish):**

1. Each worker and authorized visitor shall, upon entering the job site: put on a respirator and don one suit of protective clothing before entering the Equipment Room or the Work area. Clothing that is appropriate for weather and temperature conditions is worn under the protective clothing.

2. Each time before leaving the work area, all workers and authorized visitors shall remove gross contamination from the protective clothing using a HEPA vacuum, then remove protective clothing except respirators by carefully rolling down the garment to reduce exposure to dust and place within a labeled hazardous material 6-mil plastic bag which is within the work area. Personnel will then proceed through to the washroom and clean the outside of the respirator with a wet disposable towel; remove the respirator; and thoroughly wet wipe themselves

3. Following wet wiping, each Worker shall proceed directly to the outside area at the end of each day's Work, or before eating, smoking, or drinking.

4. Before re-entering the Work Area each Worker and authorized visitor shall put on a clean respirator and shall dress in clean protective clothing as described above.

5. Contaminated work footwear shall be stored in the Equipment Room or Work area in a labeled 6-mil bag when not in use in the Work area, until they are appropriately decontaminated. Upon completion of lead work, dispose of footwear as contaminated waste unless they can be appropriately decontaminated. All porous type footwear will be disposed of as contaminated waste.

6. Workers removing waste containers from the equipment decontamination enclosure shall enter the holding area from outside wearing a respirator and dressed in clean disposable coveralls. No worker shall use this system as a means to leave or enter the washroom or the Work area.

7. Workers shall not eat, drink, smoke, or chew gum or tobacco while in the Work area.

8. Workers shall be fully protected with respirators and protective clothing from the time of first disturbance of lead-coated or contaminated materials prior to commencing actual lead abatement and until final cleanup is completed.

1.7 SUPERINTENDENT, FOREMAN, CRAFTSMAN:

Comply with Section 02092HM, Part 1.7, Superintendent, Foreman, Craftsman.

PART 2 - MATERIAL AND EQUIPMENT

Comply with Section 02092HM, Part 2. It shall be modified in the following particulars only.

2.1 MATERIALS:

A. **Chemical removers:** Shall not contain methylene chloride. Chemical removers shall be compatible with and not harm the substrate they are applied to. Chemical removers used on masonry surfaces shall contain anti-stain formulation that inhibits the discoloration of stone, granite, brick, and other masonry construction. Chemical removers used on interior surfaces shall not raise or discolor the surface being abated. Chemical removers requiring neutralizers shall not be used on interior surfaces.

B. **Chemical stripping agent neutralizers:** May be used on exterior surfaces only. Neutralizers shall be compatible with and not harm the substrate to which they are applied. Neutralizers shall be compatible with the stripping agent that has been applied to the surface substrate.

PART 3 - EXECUTION

3.1 PREPARATION:

A. For exterior work, the abatement contractor shall prepare the area as follows:

1. **Doors and Windows:** Doors and windows on the side of the building upon which a dust-generating method is being used, and on the same floor and all floors below, must be covered with 6-mil thick polyethylene sheeting.

2. **Plants and ground:** The ground and any plants or shrubs in the area in which exterior abatement is occurring shall be covered with two layers of 6-mil plastic in a tarp-like fashion, sufficiently bonded together to form a single layer, and weighted at all edges so as to prevent blowing. A single 12-mil plastic sheet may be substituted. Such covering shall cover from the side of the structure to a point at least eight feet away from the structure for every story in height (10'). The covering shall be taped or otherwise attached to the structure.

3. Ground covers shall always be placed in manner that traps all debris and water. This is best accomplished by elevating the edges.

4. The plastic ground cover shall be properly disposed of and not re-used.

5. **Special Areas:** Any abatement project being performed on any structure other than a building shall be arranged, equipped, and operated in a manner which will eliminated the possibility of lead contaminates or lead contaminated materials escaping from the work.

6. **Maintain Barriers:** The abatement subcontractor shall maintain polyethylene barriers and a clean area as long as needed for the safe and proper completion of the work. Any openings or tears in the work area barriers shall be corrected by the abatement subcontractor at the beginning of each work day and as necessary during the workday with such openings and barriers in place and acceptable to the owner's consultant.

7. **Prior to barrier removal:** Barriers shall not be removed until the work areas are thoroughly cleaned and the area approved by the consultant. All debris must be bagged and removed from work areas, and the lead surface wipe samples must have passed final clearance test, in accordance with provisions detailed in the barrier removal.

8. **Use of mini-isolation chamber:** At the Owner's and consultant’s approval, the Abatement Subcontractor may utilize a portable mini-isolation chamber to create an isolated work area around single components to be removed. This chamber shall still be equipped with an adjacent clean room, and become an isolated work area sealed at all seams to where it is attached to adjacent surfaces. It shall also satisfy all requirements for a work area and satisfy all clearance criteria, as identified in this section and local law.

9. **Signs:** Prior to the preparation of the dwelling for abatement, the abatement subcontractor shall place warning signs immediately outside all entrances and exits to the dwelling, warning that abatement work is being conducted in the vicinity. The signs shall be at least 20" x 14" and read

DANGER

LEAD WORK AREA

MAY DAMAGE FERTILITY OR THE UNBORN CHILD

CAUSES DAMAGE TO THE CENTRAL NERVOUS SYSTEM

DO NOT EAT, DRINK OR SMOKE IN THIS AREA

10. Signs shall be in bold lettering with lettering not smaller than two inches tall.

11. Construct and maintain suitable polyethylene barriers within the building to isolate the exterior work area from the interior of the building. Make every effort to maintain a distance of 25 feet from the barrier tape to the closet scheduled point of work within the Work area.

12. Maintain emergency and fire exits from Work Areas.

B. For interior work, the abatement contractor shall prepare the area as follows:

1. **HVAC shut down:** Shut down or isolate heating, cooling, ventilation air systems within the control area to prevent contamination and dust dispersal to other areas of the structure. During the Work, vents within the immediate removal area (to a distance of ten feet from the affected surface) shall be sealed with tape and plastic sheeting and as shown on plans.

2. **Loose equipment:** Do not begin Work until immediate work area is free of loose equipment.

3. **Pre-clean:** Pre-clean fixed objects within the proposed Work Areas, using HEPA filtered vacuum equipment and/or protect occupants' belongings by covering with one layer of six mil polyethylene and have joints taped. All debris gathered during this clean up shall be disposed of properly. In addition, any loose paint or paint bearing debris found in the buildings are to be assumed hazardous and packaged and disposed of properly. The amount of the materials should be estimated during the pre-bid walk through.

4. **Use of a mini-containment:** At the Owner's and consultant's approval, the Abatement Subcontractor may utilize a portable mini-isolation chamber to create an isolated work area around single components to be removed. This chamber shall still be equipped with an adjacent clean room, and become an isolated work area sealed at all seams to where it is attached to adjacent surfaces. It shall also satisfy all requirements for a work area and satisfy all clearance criteria, as identified in this section and local law.

5. **Walls and floors:** Lay a single layer of six-mil thick polyethylene sheeting below impacted area. Sheeting will extend to a distance of six feet beyond the affected

area in all directions not bounded by walls or non-moveable partitions. Walls directly below the affected surface will be covered with six-mil thick polyethylene sheeting to extend 4 feet in either direction beyond the affected area.

6. **Surrounding barrier:** A barrier shall be erected at room entrances, which shall be sealed with a single layer of six-mil thick polyethylene sheeting and a suitable 2 stage decontamination unit, shall be erected and attached to barrier sheeting.

7. **Maintaining barriers:** The abatement subcontractor shall maintain polyethylene barriers and a clean area as long as needed for the safe and proper completion of the work. Any openings or tears in the work area barriers shall be corrected by the abatement subcontractor at the beginning of each work day and as necessary during the workday with such openings and barriers in place and acceptable to the consultant.

8. **Removal of barriers:** Barriers shall not be removed until the work areas are thoroughly cleaned, and the area approved by the consultant. All debris must be bagged and removed from work areas, and the lead surface wipe samples must have passed final clearance test, in accordance with provisions detailed in the barrier removal.

9. **Signs:** Prior to the preparation of the dwelling for abatement, the abatement subcontractor shall place warning signs immediately outside all entrances and exits to the dwelling, warning that abatement work is being conducted in the vicinity. The signs shall be at least 20" x 14" and read:

DANGER

LEAD WORK AREA

MAY DAMAGE FERTILITY OR THE UNBORN CHILD

CAUSES DAMAGE TO THE CENTRAL NERVOUS SYSTEM
DO NOT EAT, DRINK OR SMOKE IN THIS AREA

10. Signs shall be in bold lettering with lettering not smaller than two inches tall.

11. Maintain emergency and fire exits from Work Areas.

12. Construct and maintain suitable polyethylene barriers within the building to isolate the exterior work area from the interior of the building. Make every effort to maintain a distance of 10 feet from the barrier tape to the closet scheduled point of work within the Work area.

13. Maintain emergency and fire exits from Work Areas.

C. **Decontamination Facilities:**

Build suitable decontamination facilities described herein, as previously submitted for review, before start of construction.

In all cases, access between contaminated and uncontaminated rooms or areas shall be through an air lock previously defined. Passage between any two rooms within the decontamination facility shall be through an access doorway.

1. Locate decontamination facility as close in proximity to the Work area as possible.

2. Construct a two-stage worker decontamination enclosure system consisting of three totally separate areas to conform to standard Plans bound herein and as follows.

    a. A shower area with two access ways, one to the equipment room and one to the outside area. Plastic, if used, on shower room and adjoining equipment rooms shall be opaque.

    b. The shower area shall contain at least one room with water for wet wiping of hands and face. Careful attention shall be paid to the shower enclosure to ensure against leaking of any kind.

3. If needed, provide or construct an equipment decontamination area consisting of two totally separate areas as follows:

    a. A washroom, with access to a designated area of the Work area and access to the holding area.

    b. A holding area with access to the washroom and access to an uncontaminated area.

4. The entrances and exits and the decontamination facility name of both the shower and equipment decontamination room will be appropriately labeled and identifiable from a distance of 25 feet.

3.2 LEAD REMOVAL:

A. Prepare site per paragraph 3.1.

B. Remove and clean or clean and wrap objects, such as lights and other items not previously sealed off that may interfere with lead removal. Use HEPA vacuum equipment and wet methods during fixture removal to reduce lead dispersal. Wrap removed items in plastic and store for reinstallation upon completion of testing procedures.

C. Protect all fixtures, grills, lockers and other non-removable equipment from water. Also, protect painted surfaces and flooring.

D. **Lead-Based Paint Removal (component):**

1. Care must be taken so that leaded materials are neither burned, nor dusted, nor result in further exposure to workers, residents, children, or observers.

2. Care shall be taken to avoid damage to adjacent areas during the removal of components to be replaced. The Abatement Subcontractor shall run a utility knife around the edge (score) of the abatement substrate and the adjacent (non-abated) substrate to cut any bonding between the substrates and thereby eliminate damage.

3. If components to be removed contain gross areas of loose of peeling paint, these areas shall be wet scrapped or HEPA vacuumed prior to removal. The paint chips shall be contained either in the HEPA vacuum or in a separate 6-mil polyethylene bag. Temporary encapsulants used expressly for this purpose are also acceptable.

4. Components that are removed for replacement shall be temporarily wrapped for transport to the dumpster. Care shall be taken when transporting leaded components from the work area to the dumpster. All leaded components shall be sealed in airtight containers from transport to the dumpsite. Once the materials have been transferred, it shall be removed from the container and placed in the lined dumpster.

5. A pry device shall be utilized to carefully remove exterior materials. Remove each component and carefully lower to the ground. Care shall be taken to preserve the integrity of the structural elements of the materials. Continuously control dust utilizing an airless spray or apply a light application of water. Containerization shall be accomplished by removing or flattening all nails to prevent punctures or tearing.

E. **Lead-Based Paint Removal (Chemically):**

1. Use only chemical removers and neutralizers as outlined in Part 2.1.A & B above.

2. Protect all surrounding non-removal surfaces from chemical exposure.

3. Ensure that the chemical is applied and removed in strict accordance with manufacture instructions.

4. Ensure that damaging of the substrate material is prevented while chemical is being removed from the surface. If damage occurs, contractor will prep the material accordingly for a smooth pre-finishing surface.

5. Ensure that any chemical that falls or looses contact with the removal surface is immediately wiped up.

6. Place all hazardous waste immediately upon removal in appropriate containers per manufacturers and regulatory guidelines.

3.3 CLEANUP AND CLEARANCE MONITORING:

Comply with Section 02092HM, Part 3.3, for Cleanup and Clearance Monitoring.

3.4 DISPOSAL OF LEAD-COATED MATERIALS AND LEAD-CONTAMINATED WASTE:

Comply with Section 02092HM, Part 3.4, for Disposal of Lead-Coated Materials and Lead-Contaminated Waste.

3.5 REESTABLISHMENT OF OBJECTS AND SYSTEMS:

Comply with Section 02092HM, Part 3.5, for Reestablishment of Objects and Systems.

END OF SECTION

APPENDIX A – LIMITED ASBESTOS INSPECTION REPORT DATED FEBRUARY 2, 2022

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene • Air Quality • Lead & Asbestos • Training • Health & Safety

LIMITED ASBESTOS INSPECTION REPORT

Conducted at:

ENCINITA ELEMENTARY SCHOOL
ROOFING PROJECT
4515 ENCINITA AVENUE
ROSEMEAD, CALIFORNIA 91770

Prepared for:

MS. MARIA RIOS
ASSISTANT SUPERINTENDENT OF ADMINISTRATIVE SERVICES
ROSEMEAD SCHOOL DISTRICT
3907 ROSEMEAD BOULEVARD, SUITE 220
ROSEMEAD, CALIFORNIA 91770

Prepared by:

EXECUTIVE ENVIRONMENTAL
310 EAST FOOTHILL BOULEVARD, SUITE 200
ARCADIA, CALIFORNIA 91006

Project Number EE 22-Z0046-0002
February 2, 2022

Report generated/reviewed by:

Yesenia G. Galeana
Technical Report Writer
Executive Environmental

Report assembled by:

Tim Galeana, CLP
Manager Asbestos/Lead Group
Executive Environmental

TABLE OF CONTENTS

LIMITED ASBESTOS INSPECTION REPORT

Project Number:	EE 22-Z0046-0002
Client:	Rosemead School District 3907 Rosemead Boulevard, Suite 220 Rosemead, California 91770
Site Location:	Encinita Elementary School Roofing Project 4515 Encinita Avenue Rosemead, California 91770
Site Use:	School Property
Contact Person:	Ms. Maria Rios Assistant Superintendent of Administrative Services Phone: (626) 312-2900 Ext 219
Inspection Date:	January 4 throughout 7, 2022
Inspected By:	Mr. Matthew Barna Certified Site Surveillance Technician, # 19-6738
Report Assembled By:	Ms. Yesenia G. Galeana Technical Report Writer
Report Generated/Reviewed By:	Mr. Tim Galeana Certified Asbestos Consultant, # 98-2470

I. EXECUTIVE SUMMARY

Executive Environmental (EE) provided the services of a of a Certified Site Surveillance Technician (Mr. Matthew Barna # 19-6738), to conduct a limited asbestos inspection of the permanent buildings, portables and covered walkways at Encinita Elementary School located at 4515 Encinita Avenue, Rosemead, California. The inspection was conducted as a precursor to the upcoming roofing project. At the time of the inspection, no visible signs of fire or structural damage were observed. Per the request of the district representative, the following Building and Portables were excluded from this inspection: Building C and Portables P26 and P27. Materials suspected of containing asbestos were sampled and analyzed for the presence of asbestos. Asbestos-Containing Materials (ACM) were identified during this inspection. *This is considered to be a limited inspection. Inspection was limited to materials anticipated to be impacted by the roofing project*.

II. SAMPLING METHODOLOGY

A visual inspection of the exterior of the permanent buildings, portables and covered walkways at Encinita Elementary School was conducted prior to the collection of any

bulk samples. The visual inspection was conducted to identify and record the location and condition of the materials to be sampled. Following the visual inspection, bulk material samples of the identified suspect asbestos-containing building materials were collected. The materials were categorized into homogeneous groupings, and each sample was assigned a unique sample number and placed into a sealed container.

Upon completion of the bulk sample collection, a chain of custody was prepared and the samples were delivered to the laboratory for analysis. LA Testing, located at 520 Mission Street, South Pasadena, California 91030 (323-254-9960) analyzed the samples via EPA 600/R-93/116 method using Polarized Light Microscopy (PLM). LA Testing is an accredited participant in the National Voluntary Laboratory Accreditation Program (NVLAP), No. 200232-0, and also accredited by the American Industrial Hygiene Association (AIHA), No. 102814. The principles described in the current Environmental Protection Agency (EPA) 600 method were used in the preparation and analysis of the bulk samples.

Note: Inaccessible suspect asbestos materials may be located within sealed ceilings, walls, or floors; or within wall cavities, interstitials, shafts, etc. Suspect asbestos materials located in these areas must be sampled prior to any activities that might cause them to be disturbed.

III. SAMPLE ANALYSIS

One hundred and eighty-three (183) samples were collected during this inspection. The laboratory analysis results are identified in the following table. Materials determined not to contain asbestos are listed as “No Asbestos Detected” (NAD).

Any material found to contain more than 1% of a known asbestos substance is considered to be an asbestos-containing material (ACM). Materials falling within this category are controlled and must be handled in accordance with the California Occupational Safety & Health Administration (Cal/OSHA), EPA, and South Coast Air Quality Management District (SCAQMD) regulations.

In addition, materials which are characterized as non-ACM by EPA or other local regulatory agencies may fall within the regulatory standards of Cal/OSHA, which further regulates any materials found to contain more than 1/10 of 1%, but 1% or less, of a known asbestos substance as asbestos-containing construction materials (ACCMs). Impacting or handling ACCMs requires special employer registration, documentation, training, and personal protective equipment. When a material is to be impacted, the National Emission Standards for Hazardous Air Pollutants (NESHAPs) regulations require further testing for materials that fall within this category.

The PLM analytical protocol requires each layer of the sample to be analyzed separately. The quantity of analyses will vary based on the number of layers in a sample and whether a "positive stop" is employed. When one sample of a homogeneous area is positive, the remainder of the samples need not be analyzed because the entire homogeneous area must be considered positive.

Sampling results begin on the next page.
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POLARIZED LIGHT MICROSCOPY (PLM) ANALYSIS DATA

Encinita Elementary School
4515 Encinita Avenue
Rosemead, California 91770

Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Condition[A]	Type[B]	Friable	Percent Damaged	Sample Number	Sample Location	Analytical Results
Administration Building (A)										
1	Roofing material (core sample)	Throughout rooftop and overhang	3,000 Square Feet	G	Misc.	No	0	2201040002MB-01	Overhang, west	Layers A thru E: NAD[C]
								2201040002MB-02	North	Layers A thru C: NAD
								2201040002MB-03	Southeast	Layers A thru F: NAD
2	Roof penetration mastic	Throughout rooftop at overhang, HVAC, parapet wall support (HVAC enclosure) and jacks	30 Square Feet	G	Misc.	No	0	2201040002MB-04	North, HVAC roof jack	NAD
								2201040002MB-05	Northeast, parapet wall support (HVAC enclosure) roof jack	Layers A & B: NAD
								2201040002MB-06	Southeast, roof jack	Layers A & B: NAD
3	Stucco	Throughout exterior walls	2,500 Square Feet	G	Surf.	No	0	2002060027RK-01 thru 2002060027RK-05	---	Negative per EE Report 20-0027, dated June 2020

Note: This table must be used in conjunction with the entire report. This document is not to be used for contract bidding and is intended to be used to identify asbestos-containing materials and their locations only.

Sampling results continue on the next page.
The remainder of this page is blank.

[A] G = Good; D = Damaged; SD = Severely Damaged
[B] Misc. = Miscellaneous; Surf. = Surfacing; TSI = Thermal System Insulation
[C] NAD = No Asbestos Detected.

POLARIZED LIGHT MICROSCOPY (PLM) ANALYSIS DATA

Encinita Elementary School
4515 Encinita Avenue
Rosemead, California 91770

Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Condition[D]	Type[E]	Friable	Percent Damaged	Sample Number	Sample Location	Analytical Results
Classroom Building (B) – Rooms 1 through 3										
4	Roofing material (core sample)	Throughout rooftop no. 1	2,100 Square Feet	G	Misc.	No	0	2201040002MB-07	Southwest	Layers A thru D: NAD[F]
								2201040002MB-08	South by HVAC	Layers A thru E: NAD
								2201040002MB-09	Northeast	Layers A thru E: NAD
5	Roof penetration mastic	Throughout rooftop no. 1 at roof jacks, HVAC, conduit blocks, seams, patches, penetrations and flashing	30 Square Feet	G	Misc.	No	0	2201040002MB-10	Southwest, roof jack	8% Chrysotile
								2201040002MB-11	South, HVAC roof jack	10% Chrysotile
								2201040002MB-12	Northeast, flashing	7% Chrysotile
6	Roofing material (core sample)	Throughout rooftop no. 2	1,100 Square Feet	G	Misc.	No	0	2201040002MB-13	West	Layers A thru E: NAD
								2201040002MB-14	North	Layers A thru D: NAD
								2201040002MB-15	East	Layers A thru F: NAD
7	Roof penetration mastic	Throughout rooftop no. 2 at roof jacks, seams, patches, penetrations and flashing	10 Square Feet	G	Misc.	No	0	2201040002MB-16	Northwest, roof jack	NAD
								2201040002MB-17	North, roof jack	NAD
								2201040002MB-18	Northeast, flashing	Layer A: 4% Chrysotile
										Layer B: NAD

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POLARIZED LIGHT MICROSCOPY (PLM) ANALYSIS DATA

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Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Condition[G]	Type[H]	Friable	Percent Damaged	Sample Number	Sample Location	Analytical Results
Classroom Building (B) – Rooms 1 through 3										
8	Roofing material (core sample)	Throughout rooftop of Breezeway and Student Restroom	1,100 Square Feet	G	Misc.	No	0	2201040002MB-19	Student Restroom, northwest	Layers A thru D: NAD[I]
								2201040002MB-20	Student Restroom, south	Layers A thru C: NAD
								2201040002MB-21	Breezeway, northeast	Layers A thru D: NAD
9	Roof penetration mastic	Breezeway and Student Restroom rooftop at skylights, conduit blocks, flashing, roof jacks, seams, patches and penetrations	10 Square Feet	G	Misc.	No	0	2201040002MB-22	Student Restroom, northwest skylight	Layers A thru C: NAD
								2201040002MB-23	Student Restroom, south conduit block	10% Chrysotile
								2201040002MB-24	Breezeway, northeast roof jack	7% Chrysotile
10	Stucco	Throughout exterior walls and breezeway ceiling	2,500 Square Feet	G	Surf.	No	0	2002060027RK-06 thru 2002060027RK-10	---	Negative per EE Report 20-0027, dated June 2020

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POLARIZED LIGHT MICROSCOPY (PLM) ANALYSIS DATA
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Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Condition[J]	Type[K]	Friable	Percent Damaged	Sample Number	Sample Location	Analytical Results
Building C (Multi-Purpose Building)										
Not in scope of work for this project, as directed by District										

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POLARIZED LIGHT MICROSCOPY (PLM) ANALYSIS DATA

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Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Condition[L]	Type[M]	Friable	Percent Damaged	Sample Number	Sample Location	Analytical Results
Classrooms Building (D) – Rooms 4 through 6										
11	Roofing material (core sample)	Throughout rooftop no. 1	2,750 Square Feet	G	Misc.	No	0	2201040002MB-25	Southwest	Layers A thru D: NAD[N]
								2201040002MB-26	North	Layers A thru D: NAD
								2201040002MB-27	Northeast	Layers A thru G: NAD
12	Roof penetration mastic	Throughout rooftop no. 1 at HVAC, roof jacks, flashing, conduit support blocks, seams, patches and penetrations	30 Square Feet	G	Misc.	No	0	2201040002MB-28	Southwest, roof jack	10% Chrysotile
								2201040002MB-29	North, HVAC roof jack	10% Chrysotile
								2201040002MB-30	Northeast, flashing	Layer A: 5% Chrysotile
										Layer B: NAD
13	Roofing material (core sample)	Throughout rooftop no. 2	1,450 Square Feet	G	Misc.	No	0	2201040002MB-31	Northwest	Layers A & B: NAD
								2201040002MB-32	South	Layers A thru D: NAD
								2201040002MB-33	Northeast	Layers A thru E: NAD
14	Roof penetration mastic	Throughout rooftop no. 2 at roof jacks, seams, patches, penetrations and flashing	15 Square Feet	G	Misc.	No	0	2201040002MB-34	Northwest, roof jack	10% Chrysotile
								2201040002MB-35	South, roof jack	NAD
								2201040002MB-36	Northeast, roof jack	NAD
15	Stucco	Throughout exterior walls	2,000 Square Feet	G	Surf.	No	0	2002060027RK-18 thru 2002060027RK-22	---	Negative per EE Report 20-0027, dated June 2020

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POLARIZED LIGHT MICROSCOPY (PLM) ANALYSIS DATA

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Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Condition[O]	Type[P]	Friable	Percent Damaged	Sample Number	Sample Location	Analytical Results
Classrooms Building (E) – Rooms 7 through 10										
16	Roofing material (core sample)	Throughout rooftop no. 1	2,750 Square Feet	G	Misc.	No	0	2201040002MB-37	Southwest	Layers A thru D: NAD[Q]
								2201040002MB-38	North at HVAC	Layers A thru E: NAD
								2201040002MB-39	Northeast	Layers A thru E: NAD
17	Roof penetration mastic	Throughout rooftop no. 1 at roof jacks, HVAC, seams, patches, penetrations and flashing	30 Square Feet	G	Misc.	No	0	2201040002MB-40	Southwest, roof jack	10% Chrysotile
								2201040002MB-41	North, HVAC roof jack	10% Chrysotile
								2201040002MB-42	Northeast, flashing	5% Chrysotile
18	Roofing material (core sample)	Throughout rooftop no. 2	1,450 Square Feet	G	Misc.	No	0	2201040002MB-43	Northwest	Layers A thru D: NAD
								2201040002MB-44	South	Layers A thru C: NAD
								2201040002MB-45	Northeast	Layers A thru E: NAD
19	Roof penetration mastic	Throughout rooftop no. 2 at conduit blocks, roof jacks, seams, patches, penetrations and flashing	15 Square Feet	G	Misc.	No	0	2201040002MB-46	Northwest, roof jack	6% Chrysotile
								2201040002MB-47	South, conduit block	10% Chrysotile
								2201040002MB-48	Northeast, flashing	NAD

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POLARIZED LIGHT MICROSCOPY (PLM) ANALYSIS DATA

Encinita Elementary School
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Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Condition[R]	Type[S]	Friable	Percent Damaged	Sample Number	Sample Location	Analytical Results
Classrooms Building (E) – Rooms 7 through 10										
21	Roofing material (core sample)	Throughout rooftop of Breezeway and Student Restroom	990 Square Feet	G	Misc.	No	0	2201040002MB-49	Student restroom, northwest	Layers A thru D: NAD[T]
								2201040002MB-50	Student restroom, south	Layers A thru D: NAD
								2201040002MB-51	Breezeway, northeast	Layers A thru E: NAD
22	Roof penetration mastic	Breezeway and Student Restroom rooftop at skylights, conduit blocks, flashing, roof jacks, seams, patches and penetrations	10 Square Feet	G	Misc.	No	0	2201040002MB-52	Student restroom, northwest skylight	NAD
								2201040002MB-53	Student restroom, south roof jack	NAD
								2201040002MB-54	Breezeway, east flashing	8% Chrysotile
23	Stucco	Throughout exterior walls	2,500 Square Feet	G	Surf.	No	0	2002060027RK-23 thru 2002060027RK-27	---	Negative per EE Report 20-0027, dated June 2020

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Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Condition[U]	Type[V]	Friable	Percent Damaged	Sample Number	Sample Location	Analytical Results
Classrooms Building (F) – Rooms 11 through 14										
24	Roofing material (core sample)	Throughout rooftop no. 1	2,750 Square Feet	G	Misc.	No	0	2201060002MB-55	Southwest	Layers A thru D: NAD[W]
								2201060002MB-56	South at HVAC	Layers A thru D: NAD
								2201060002MB-57	Northeast	Layers A thru E: NAD
25	Roof penetration mastic	Throughout rooftop no. 1 at roof jacks, HVAC, conduit blocks, seams, patches, penetrations and flashing	30 Square Feet	G	Misc.	No	0	2201060002MB-58	Southwest, roof jack	10% Chrysotile
								2201060002MB-59	South, HVAC	10% Chrysotile
								2201060002MB-60	Northeast, conduit block	10% Chrysotile
26	Roofing material (core sample)	Throughout rooftop no. 2	1,450 Square Feet	G	Misc.	No	0	2201060002MB-61	Northwest	Layers A thru C: NAD
								2201060002MB-62	North	Layers A thru C: NAD
								2201060002MB-63	Northeast	Layers A thru E: NAD
27	Roof penetration mastic	Throughout rooftop no. 2 at roof jacks, seams, patches, penetrations and flashing	15 Square Feet	G	Misc.	No	0	2201060002MB-64	Northwest, roof jack	8% Chrysotile
								2201060002MB-65	North, roof jack	NAD
								2201060002MB-66	Northeast, flashing	8% Chrysotile
28	Stucco	Throughout exterior walls	2,000 Square Feet	G	Surf.	No	0	2002070027RK-28 thru 2002070027RK-32	---	Negative per EE Report 20-0027, dated June 2020

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Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Condition[X]	Type[Y]	Friable	Percent Damaged	Sample Number	Sample Location	Analytical Results
Classroom Building (G) – Rooms 15 through 18										
29	Roofing material (core sample)	Throughout rooftop no. 1	2,750 Square Feet	G	Misc.	No	0	2201060002MB-67	Southeast	Layers A thru E: NAD[Z]
								2201060002MB-68	South at HVAC	Layers A thru D: NAD
								2201060002MB-69	Southwest	Layers A thru E: NAD
30	Roof penetration mastic	Throughout rooftop no. 1 at conduit blocks, roof jacks, HVAC, seams, patches, penetrations and flashing	30 Square Feet	G	Misc.	No	0	2201060002MB-70	Southeast, conduit block	10% Chrysotile
								2201060002MB-71	South, HVAC	8% Chrysotile
								2201060002MB-72	Southwest, roof jack	Layer A: 7% Chrysotile
										Layer B: NAD
31	Roofing material (core sample)	Throughout rooftop no. 2	1,450 Square Feet	G	Misc.	No	0	2201060002MB-73	Northwest	Layers A thru D: NAD
								2201060002MB-74	North	Layers A thru C: NAD
								2201060002MB-75	Northeast	Layers A thru F: NAD
32	Roof penetration mastic	Throughout rooftop no. 2 at roof jacks, seams, patches and penetrations	15 Square Feet	G	Misc.	No	0	2201060002MB-76	Northwest, roof jack	8% Chrysotile
								2201060002MB-77	North, roof jack	Layer A: 8% Chrysotile
										Layers B & C: NAD
								2201060002MB-78	Northeast, patch	10% Chrysotile

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Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Condition [AA]	Type[BB]	Friable	Percent Damaged	Sample Number	Sample Location	Analytical Results
Classroom Building (G) – Rooms 15 through 18										
33	Roofing material (core sample)	Throughout rooftop of Breezeway and Student Restroom	990 Square Feet	G	Misc.	No	0	2201060002MB-79	Student restroom, northwest	Layers A thru D: NAD[CC]
								2201060002MB-80	Student restroom, southwest	Layers A thru D: NAD
								2201060002MB-81	Breezeway, northeast	Layers A thru E: NAD
34	Roof penetration mastic	Breezeway and Student Restroom rooftop at skylights, flashing, roof jacks, seams, patches and penetrations	10 Square Feet	G	Misc.	No	0	2201060002MB-82	Student restroom, northwest skylight	NAD
								2201060002MB-83	Student restroom, southwest roof jack	Layers A & B: NAD
								2201060002MB-84	Breezeway, northeast flashing	8% Chrysotile
35	Stucco	Throughout exterior walls	2,500 Square Feet	G	Surf.	No	0	2002070027RK-33 thru 2002070027RK-37	---	Negative per EE Report 20-0027, dated June 2020

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POLARIZED LIGHT MICROSCOPY (PLM) ANALYSIS DATA

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Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Condition [DD]	Type[EE]	Friable	Percent Damaged	Sample Number	Sample Location	Analytical Results
Classroom Building (H) – Rooms 19 and 20										
36	Roofing material (core sample)	Throughout rooftop and overhang	3,700 Square Feet	G	Misc.	No	0	2201060002MB-85	Northwest	Layers A thru D: NAD[FF]
								2201060002MB-86	Center at HVAC	Layers A thru D: NAD
								2201060002MB-87	Overhang, south	Layers A thru F: NAD
37	Roof penetration mastic	Throughout rooftop at HVAC, conduit blocks, roof jacks, seams, patches and penetration	20 Square Feet	G	Misc.	No	0	2201060002MB-88	Northwest, roof jack	NAD
								2201060002MB-89	Center at HVAC	NAD
								2201060002MB-90	Overhang, south, conduit block	10% Chrysotile
38	Stucco	Throughout exterior walls	1,500 Square Feet	G	Surf.	No	0	2002070027RK-38 thru 2002070027RK-42	---	Negative per EE Report 20-0027, dated June 2020

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POLARIZED LIGHT MICROSCOPY (PLM) ANALYSIS DATA

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Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Condition [GG]	Type[HH]	Friable	Percent Damaged	Sample Number	Sample Location	Analytical Results
Staff Restroom Building										
39	Roofing material (core sample)	Throughout rooftop	300 Square Feet	G	Misc.	No	0	2201060002MB-91	North	Layers A thru D: NAD[II]
								2201060002MB-92	Northeast	Layers A thru D: NAD
								2201060002MB-93	South	Layers A thru E: NAD
40	Roof penetration mastic	Throughout rooftop at HVAC, conduit blocks, roof jacks, seams, patches and penetrations	4 Square Feet	G	Misc.	No	0	2201060002MB-94	North, drain	NAD
								2201060002MB-95	Northeast, skylight	NAD
								2201060002MB-96	South, roof jack	Layers A & B: NAD
41	Roofing material (core sample)	Throughout overhang roof	60 Square Feet	G	Misc.	No	0	2201060002MB-97	Northwest	Layers A thru D: NAD
								2201060002MB-98	North	Layers A thru D: NAD
								2201060002MB-99	Northeast	Layers A thru F: NAD
42	Stucco	Throughout exterior walls and overhangs	700 Square Feet	G	Surf.	No	0	2002070027RK-46 thru 2002070027RK-48	---	Negative per EE Report 20-0027, dated June 2020

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Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Condition[JJ]	Type[KK]	Friable	Percent Damaged	Sample Number	Sample Location	Analytical Results
Covered Walkways										
43	Roofing material (core sample)	Throughout rooftop of Covered Walkway no. 1	300 Square Feet	G	Misc.	No	0	2201070002MB-100	Northwest	Layers A thru D: NAD[LL]
								2201070002MB-101	North	Layers A thru C: NAD
								2201070002MB-102	Southeast	Layers A thru E: NAD
44	Roof penetration mastic	Throughout rooftop of Covered Walkway no. 1 at flashing, conduit blocks and roof jacks	3 Square Feet	G	Misc.	No	0	2201070002MB-103	Northwest, flashing	8% Chrysotile
								2201070002MB-104	South, conduit block	5% Chrysotile
								2201070002MB-105	Southeast, roof jack	10% Chrysotile
45	Roofing material (core sample)	Throughout rooftop of Covered Walkway no. 2	1,400 Square Feet	G	Misc.	No	0	2201070002MB-106	Northwest	Layers A thru D: NAD
								2201070002MB-107	North	Layers A thru D: NAD
								2201070002MB-108	Southeast	Layers A thru E: NAD
46	Roof penetration mastic	Throughout rooftop of Covered Walkway no. 2 at patches, flashing, conduit blocks and roof jacks	14 Square Feet	G	Misc.	No	0	2201070002MB-109	Northwest, patch	5% Chrysotile
								2201070002MB-110	South, conduit block	5% Chrysotile
								2201070002MB-111	East, flashing	10% Chrysotile

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Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Condition [MM]	Type[NN]	Friable	Percent Damaged	Sample Number	Sample Location	Analytical Results
Covered Walkways										
47	Roofing material (core sample)	Throughout rooftop of Covered Walkway no. 3	1,150 Square Feet	G	Misc.	No	0	2201070002MB-112	Northwest	Layers A thru C: NAD[OO]
								2201070002MB-113	East	Layers A thru C: NAD
								2201070002MB-114	Southwest	Layers A thru F: NAD
48	Roof penetration mastic	Throughout rooftop of Covered Walkway no. 3 at flashing, patches, HVAC and roof jacks	12 Square Feet	G	Misc.	No	0	2201070002MB-115	North, roof jack	Layer A: NAD
										Layer B: 4% Chrysotile
								2201070002MB-116	Northeast, HVAC jack	NAD
								2201070002MB-117	Southwest, flashing	NAD
49	Roofing material (core sample)	Throughout rooftop of Covered Walkway no. 4	1,850 Square Feet	G	Misc.	No	0	2201070002MB-118	Northwest	Layers A thru C: NAD
								2201070002MB-119	Northeast	Layers A thru C: NAD
								2201070002MB-120	Southeast	Layers A thru E: NAD
50	Roof penetration mastic	Throughout rooftop of Covered Walkway no. 4 at patches, flashing and conduit blocks	20 Square Feet	G	Misc.	No	0	2201070002MB-121	Northwest, conduit block	4% Chrysotile
								2201070002MB-122	Northeast, flashing	6% Chrysotile
								2201070002MB-123	Southeast, conduit block	8% Chrysotile

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Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Condition [PP]	Type[QQ]	Friable	Percent Damaged	Sample Number	Sample Location	Analytical Results
Covered Walkways										
51	Roofing material (core sample)	Throughout rooftop of Covered Walkway no. 5	1,700 Square Feet	G	Misc.	No	0	2201070002MB-124	Northeast	Layers A thru C: NAD[RR]
								2201070002MB-125	Southeast	Layers A thru C: NAD
								2201070002MB-126	Southwest	Layers A thru E: NAD
52	Roof penetration mastic	Throughout rooftop of Covered Walkway no. 5 at flashing, patches, conduit blocks	20 Square Feet	G	Misc.	No	0	2201070002MB-127	Northeast, patch	3% Chrysotile
								2201070002MB-128	Southeast conduit block	Layer A: NAD
										Layer B: 5% Chrysotile
								2201070002MB-129	Southwest, flashing	NAD
53	Roofing material (core sample)	Throughout rooftop of Covered Walkway no. 6	1,200 Square Feet	G	Misc.	No	0	2201070002MB-130	Northwest	Layers A thru C: NAD
								2201070002MB-131	North	Layers A thru C: NAD
								2201070002MB-132	Southeast	Layers A thru F: NAD
54	Roof penetration mastic	Throughout rooftop of Covered Walkway no. 6 at patches, flashing conduit blocks and roof jacks	12 Square Feet	G	Misc.	No	0	2201070002MB-133	Northwest, conduit block	NAD
								2201070002MB-134	North, roof jack	NAD
								2201070002MB-135	Southeast, flashing	4% Chrysotile

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4515 Encinita Avenue
Rosemead, California 91770

Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Condition [SS]	Type[TT]	Friable	Percent Damaged	Sample Number	Sample Location	Analytical Results
Covered Walkways										
55	Roofing material (core sample)	Throughout rooftop of Covered Walkway no. 7	2,550 Square Feet	G	Misc.	No	0	2201070002MB-136	Northeast	Layers A thru C: NAD[UU]
								2201070002MB-137	East	Layers A thru C: NAD
								2201070002MB-138	South	Layers A thru D: NAD
56	Roof penetration mastic	Throughout rooftop of Covered Walkway no. 7 at flashing, patches, conduit blocks	30 Square Feet	G	Misc.	No	0	2201070002MB-139	Northeast, conduit block	4% Chrysotile
								2201070002MB-140	East, patch	5% Chrysotile
								2201070002MB-141	South, conduit block	8% Chrysotile
57	Stucco	Covered walkway no. 2 ceilings	450 Square Feet	G	Surf.	No	0	2002070027RK-49 thru 2002070027RK-51	---	Negative per EE Report 20-0027, dated June 2020
58	Stucco	Covered walkway no. 3 ceilings	900 Square Feet	G	Surf.	No	0	2002070027RK-52 thru 2002070027RK-54	---	Negative per EE Report 20-0027, dated June 2020

Note: This table must be used in conjunction with the entire report. This document is not to be used for contract bidding and is intended to be used to identify asbestos-containing materials and their locations only.

Sampling results continue on the next page.
The remainder of this page is blank.

[SS] G = Good; D = Damaged; SD = Severely Damaged
[TT] Misc. = Miscellaneous; Surf. = Surfacing; TSI = Thermal System Insulation
[UU] NAD = No Asbestos Detected.

POLARIZED LIGHT MICROSCOPY (PLM) ANALYSIS DATA

Encinita Elementary School
4515 Encinita Avenue
Rosemead, California 91770

Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Condition [VV]	Type[WW]	Friable	Percent Damaged	Sample Number	Sample Location	Analytical Results
Portables[XX]										
59	Roof penetration mastic	Rooftop of Portable P40 at roof jack	3 Square Feet	G	Misc.	No	0	2201070002MB-142	Northeast	NAD[YY]
								2201070002MB-143	Northeast	NAD
								2201070002MB-144	Northeast	NAD
60	Roofing material (core sample)	Throughout rooftop of Portable P21	1,200 Square Feet	G	Misc.	No	0	2201070002MB-145	Northwest	Layers A & B: NAD
								2201070002MB-146	East	Layers A & B: NAD
								2201070002MB-147	South	Layers A thru C: NAD
61	Roofing material (core sample)	Throughout rooftop of Portable P22	1,200 Square Feet	G	Misc.	No	0	2201070002MB-148	Northwest	Layers A & B: NAD
								2201070002MB-149	East	Layers A & B: NAD
								2201070002MB-150	South	Layers A thru D: NAD
62	Roof penetration mastic	Rooftop of Portable P22 at patches	2 Square Feet	G	Misc.	No	0	2201070002MB-151	North patch	5% Chrysotile
								2201070002MB-152	South patch	7% Chrysotile
								2201070002MB-153	South patch	8% Chrysotile
63	Roofing material (core sample)	Throughout rooftop of Portable P23	1,200 Square Feet	G	Misc.	No	0	2201070002MB-154	Northwest	Layers A thru C: NAD
								2201070002MB-155	East	Layers A & B: NAD
								2201070002MB-156	South	Layers A thru C: NAD
64	Roof penetration mastic	Rooftop of Portable P23 at patches	2 Square Feet	G	Misc.	No	0	2201070002MB-157	North	3% Chrysotile
								2201070002MB-158	South	5% Chrysotile
								2201070002MB-159	South	8% Chrysotile

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[VV] G = Good; D = Damaged; SD = Severely Damaged
[WW] Misc. = Miscellaneous; Surf. = Surfacing; TSI = Thermal System Insulation
[XX] NOTE: Per the request of the district representative, the following Portables were excluded from this inspection: Portables P26 and P27
[YY] NAD = No Asbestos Detected.

POLARIZED LIGHT MICROSCOPY (PLM) ANALYSIS DATA

Encinita Elementary School
4515 Encinita Avenue
Rosemead, California 91770

Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Condition[ZZ]	Type[AAA]	Friable	Percent Damaged	Sample Number	Sample Location	Analytical Results
Portables										
65	Roofing material (core sample)	Throughout rooftop of Portable P24	1,200 Square Feet	G	Misc.	No	0	2201070002MB-160	Northwest	Layers A & B: NAD[BBB]
								2201070002MB-161	East	Layers A & B: NAD
								2201070002MB-162	South	Layers A thru C: NAD
66	Roof penetration mastic	Rooftop of Portable P24 at patches	2 Square Feet	G	Misc.	No	0	2201070002MB-163	North	5% Chrysotile
								2201070002MB-164	South	7% Chrysotile
								2201070002MB-165	South	10% Chrysotile
67	Roofing material (core sample)	Throughout rooftop of Portable P25	1,200 Square Feet	G	Misc.	No	0	2201070002MB-166	Northwest	Layers A & B: NAD
								2201070002MB-167	East	Layers A & B: NAD
								2201070002MB-168	South	Layers A thru C: NAD
68	Roof penetration mastic	Rooftop of Portable P25 at patches and roof jacks	2 Square Feet	G	Misc.	No	0	2201070002MB-169	North, patch	5% Chrysotile
								2201070002MB-170	Southwest, roof jack	NAD
								2201070002MB-171	South, patch	10% Chrysotile
69	Roof penetration mastic	Rooftop of Portable P28 at roof jacks	5 Square Feet	G	Misc.	No	0	2201070002MB-172	East	NAD
								2201070002MB-173	East	NAD
								2201070002MB-174	East	NAD
70	Caulking	Throughout rooftop of Portable P28	5 Square Feet	G	Misc.	No	0	2201070002MB-175	Northeast	NAD
								2201070002MB-176	Northwest	NAD
								2201070002MB-177	South	NAD

Note: This table must be used in conjunction with the entire report. This document is not to be used for contract bidding and is intended to be used to identify asbestos-containing materials and their locations only.

[ZZ] G = Good; D = Damaged; SD = Severely Damaged
[AAA] Misc. = Miscellaneous; Surf. = Surfacing; TSI = Thermal System Insulation
[BBB] NAD = No Asbestos Detected.

POLARIZED LIGHT MICROSCOPY (PLM) ANALYSIS DATA

Encinita Elementary School
4515 Encinita Avenue
Rosemead, California 91770

Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Condition [CCC]	Type[DDD]	Friable	Percent Damaged	Sample Number	Sample Location	Analytical Results
Portables										
71	Caulking	Throughout rooftop of Portable P29	5 Square Feet	G	Misc.	No	0	2201070002MB-178	Northwest	NAD[EEE]
								2201070002MB-179	Northeast	NAD
								2201070002MB-180	South	NAD
72	Caulking	Throughout rooftop of Portable P30	5 Square Feet	G	Misc.	No	0	2201070002MB-181	Northwest	NAD
								2201070002MB-182	Northeast	NAD
								2201070002MB-183	South	NAD
No suspect asbestos-containing materials were identified on the exterior walls of the Portables P21, P22, P23, P24, P25, P28, P29, P30 and P40.										
P26 and P27 were not in scope of work for this project, as directed by District										

Note: This table must be used in conjunction with the entire report. This document is not to be used for contract bidding and is intended to be used to identify asbestos-containing materials and their locations only.

The remainder of this page is blank.

[CCC] G = Good; D = Damaged; SD = Severely Damaged
[DDD] Misc. = Miscellaneous; Surf. = Surfacing; TSI = Thermal System Insulation
[EEE] NAD = No Asbestos Detected.

IV. FINDINGS

EE conducted a limited asbestos inspection of the permanent buildings, portables and covered walkways at Encinita Elementary School located at 4515 Encinita Avenue, Rosemead, California.

Seventy-two (72) homogeneous material groups were identified during the visual property inspection. One hundred and eighty-three (183) samples of suspect asbestos-containing materials were collected and delivered to LA Testing of South Pasadena, for analysis. The homogeneous area and sampling results are listed on the table in Section III.

The analytical data revealed that the following materials contain asbestos:

Classroom Building (B) – Rooms 1 through 3:

- Roof penetration mastic: The roof penetration mastic located throughout rooftop no. 1 at roof jacks, HVAC, conduit blocks, seams, patches, penetrations and flashing tested positive for asbestos.
- Roof penetration mastic: The roof penetration mastic located throughout rooftop no. 2 at roof jacks, seams, patches, penetrations and flashing tested positive for asbestos.
- Roof penetration mastic: The roof penetration mastic located at the Breezeway and Student Restroom rooftop at skylights, conduit blocks, flashing, roof jacks, seams, patches and penetrations tested positive for asbestos.

Classrooms Building (D) – Rooms 4 through 6:

- Roof penetration mastic: The roof penetration mastic located throughout rooftop no. 1 at HVAC, roof jacks, flashing, conduit support blocks, seams, patches and penetrations tested positive for asbestos.
- Roof penetration mastic: The roof penetration mastic located throughout rooftop no. 2 at roof jacks, seams, patches, penetrations and flashing tested positive for asbestos.

Classrooms Building (E) – Rooms 7 through 10:

- Roof penetration mastic: The roof penetration mastic located throughout rooftop no. 1 at HVAC, roof jacks, flashing, seams, patches and penetrations tested positive for asbestos.
- Roof penetration mastic: The roof penetration mastic located throughout rooftop no. 2 at conduit blocks, roof jacks, seams, patches, penetrations and flashing tested positive for asbestos.
- Roof penetration mastic: The roof penetration mastic located at the Breezeway and Student Restroom rooftop at skylights, conduit blocks, flashing, roof jacks, seams, patches and penetrations tested positive for asbestos.

Classrooms Building (F) – Rooms 11 through 14:

- Roof penetration mastic: The roof penetration mastic located throughout rooftop no. 1 at roof jacks, HVAC, conduit blocks, seams, patches, penetrations and flashing tested positive for asbestos.
- Roof penetration mastic: The roof penetration mastic located throughout rooftop no. 2 at roof jacks, seams, patches, penetrations and flashing tested positive for asbestos.

Classrooms Building (G) – Rooms 15 through 18:

- Roof penetration mastic: The roof penetration mastic located throughout rooftop no. 1 at conduit blocks, roof jacks, HVAC, seams, patches, penetrations and flashing tested positive for asbestos.
- Roof penetration mastic: The roof penetration mastic located throughout rooftop no. 2 at roof jacks, seams, patches and penetrations tested positive for asbestos.
- Roof penetration mastic: The roof penetration mastic located on the Breezeway and Student Restroom rooftop at skylights, flashing, roof jacks, seams, patches and penetrations tested positive for asbestos.

Classrooms Building (H) – Rooms 19 and 20:

- Roof penetration mastic: The roof penetration mastic located throughout the roof top at HVAC, conduit blocks, roof jacks, seams, patches and penetration tested positive for asbestos.

Covered Walkways:

- Roof penetration mastic: The roof penetration mastic located Throughout roof top of Covered Walkway no. 1 at flashing, conduit blocks and roof jacks tested positive for asbestos.
- Roof penetration mastic: The roof penetration mastic located throughout the roof tops of Covered Walkways no. 2 and 6 at patches, flashing, conduit blocks and roof jacks tested positive for asbestos.
- Roof penetration mastic: The roof penetration mastic located throughout the roof top of Covered Walkway no. 3 at flashing, patches, HVAC and roof jacks tested positive for asbestos.
- Roof penetration mastic: The roof penetration mastic located throughout the roof tops of Covered Walkways no. 4, 5 and 7 at patches, flashing and conduit blocks tested positive for asbestos.

Portables:

- Roof penetration mastic: The roof penetration mastic located throughout the rooftops of Portables P22, P23, P24 and P25 at patches and roof jacks tested positive for asbestos.

V. CONCLUSIONS/RECOMMENDATIONS

Normally, asbestos-containing material found to be in good condition is not considered a hazard, unless it is disturbed. Prior to the start of any activity, such as remodeling, demolition, or renovation that might disturb these materials, a Certified Asbestos Consultant should be contracted to design and monitor the project. A California-licensed asbestos contractor should be hired to complete the asbestos abatement procedures

If you have any questions, please call Mr. Tim Galeana at 626-441-7050. We are glad we could be of service to you.

VI. DISCLAIMER/REPORT LIMITATIONS

All reports and recommendations are based on conditions and practices observed and information made available to Executive Environmental (EE) by the client and the designated sites/facilities on the days sampling was conducted. This report does not purport to set forth all hazards, nor to indicate that other hazards do not exist. No responsibility is assumed by EE for the control or correction of conditions or practices existing at the facilities, or at any other premises surveyed by EE, for and on the behalf of the client. Services provided by EE shall be governed by the standard of practice for professional services measured at the time those services are rendered.

All information contained in this report is proprietary and limited to the scope of services, parameters of the analytical methods used and the conditions present at the time of this inspection. Any references to quantities are considered estimates and are not to be construed as actual.

APPENDIX A – LABORATORY ANALYSIS REPORT

LA Testing

520 Mission Street South Pasadena, CA 91030
Tel/Fax: (323) 254-9960 / (323) 254-9982
http://www.LATesting.com / pasadenalab@latesting.com

LA Testing Order: 322200678
Customer ID: 32EXEC52
Customer PO:
Project ID:

Attention: Yesenia Galeana
Executive Environmental Services Corp.
310 East Foothill Blvd.
Suite 200
Arcadia, CA 91006
Project: 22-Z0046-0002/Sampler:Matt Barna/Rhys Kuzmic

Phone: (626) 441-7050
Fax: (626) 441-0016
Received Date: 01/10/2022 2:30 PM
Analysis Date: 01/13/2022 - 01/17/2022
Collected Date: 01/04/2022

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

		Non-Asbestos		Asbestos
Sample	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
2201040002MB-1-A *322200678-0001*	White/Black Fibrous Heterogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
2201040002MB-1-B *322200678-0001D*	Black Fibrous Homogeneous	8% Glass	92% Non-fibrous (Other)	None Detected
2201040002MB-1-C *322200678-0001E*	Black Fibrous Homogeneous	12% Glass	88% Non-fibrous (Other)	None Detected
2201040002MB-1-D *322200678-0001F*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201040002MB-1-E *322200678-0001G*	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201040002MB-2-A *322200678-0002*	White/Black Fibrous Heterogeneous	4% Synthetic 10% Glass	86% Non-fibrous (Other)	None Detected
2201040002MB-2-B *322200678-0002C*	Black Fibrous Homogeneous	3% Synthetic 10% Glass	87% Non-fibrous (Other)	None Detected
2201040002MB-2-C *322200678-0002D*	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201040002MB-3-A *322200678-0003*	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201040002MB-3-B *322200678-0003A*	Gray/Black Fibrous Heterogeneous	15% Synthetic	85% Non-fibrous (Other)	None Detected
2201040002MB-3-C *322200678-0003B*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201040002MB-3-D *322200678-0003C*	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2201040002MB-3-E *322200678-0003D*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201040002MB-3-F *322200678-0003E*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201040002MB-4 *322200678-0004*	White/Black/Silver Non-Fibrous Heterogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
2201040002MB-5-A *322200678-0005*	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Report amended: 02/04/2022 11:26:09 Replaces amended report from: 01/26/2022 13:13:41 Reason Code: Data Entry-Change to Sample ID

LA Testing
520 Mission Street South Pasadena, CA 91030
Tel/Fax: (323) 254-9960 / (323) 254-9982
http://www.LATesting.com / pasadenalab@latesting.com

LA Testing Order: 322200678
Customer ID: 32EXEC52
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

		Non-Asbestos		Asbestos
Sample	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
2201040002MB-5-B *322200678-0005A*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201040002MB-6-A *322200678-0006*	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201040002MB-6-B *322200678-0006A*	Black/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201040002MB-7-A *322200678-0007*	Gray/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201040002MB-7-B *322200678-0007A*	Black Fibrous Homogeneous	8% Glass	92% Non-fibrous (Other)	None Detected
2201040002MB-7-C *322200678-0007B*	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201040002MB-7-D *322200678-0007C*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201040002MB-8-A *322200678-0008*	Gray/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201040002MB-8-B *322200678-0008A*	White/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201040002MB-8-C *322200678-0008B*	Black Fibrous Homogeneous	8% Glass	92% Non-fibrous (Other)	None Detected
2201040002MB-8-D *322200678-0008C*	Black Fibrous Homogeneous	8% Glass	92% Non-fibrous (Other)	None Detected
2201040002MB-8-E *322200678-0008D*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201040002MB-9-A *322200678-0009*	Gray/Black Fibrous Heterogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
2201040002MB-9-B *322200678-0009A* *Mastic*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201040002MB-9-C *322200678-0009B*	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2201040002MB-9-D *322200678-0009C*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201040002MB-9-E *322200678-0009D*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201040002MB-10 *322200678-0010* *QC*	Black/Silver Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile

Report amended: 02/04/2022 11:26:09 Replaces amended report from: 01/26/2022 13:13:41 Reason Code: Data Entry-Change to Sample ID

LA Testing

520 Mission Street South Pasadena, CA 91030

Tel/Fax: (323) 254-9960 / (323) 254-9982

http://www.LATesting.com / pasadenalab@latesting.com

LA Testing Order: 322200678
Customer ID: 32EXEC52
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

		Non-Asbestos		Asbestos
Sample	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
2201040002MB-11 *322200678-0011* *QC*	Gray/Black/Silver Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
2201040002MB-12 *322200678-0012*	Black/Silver Non-Fibrous Homogeneous		93% Non-fibrous (Other)	7% Chrysotile
2201040002MB-13-A *322200678-0013*	Gray/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201040002MB-13-B *322200678-0013A*	Black Fibrous Homogeneous	12% Synthetic 8% Glass	80% Non-fibrous (Other)	None Detected
2201040002MB-13-C *322200678-0013B*	Black Fibrous Homogeneous	8% Glass	92% Non-fibrous (Other)	None Detected
2201040002MB-13-D *322200678-0013C*	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201040002MB-13-E *322200678-0013D*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201040002MB-14-A *322200678-0014*	Gray/Black Fibrous Heterogeneous	12% Synthetic 8% Glass	80% Non-fibrous (Other)	None Detected
2201040002MB-14-B *322200678-0014A*	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201040002MB-14-C *322200678-0014B*	Black Fibrous Homogeneous	8% Glass	92% Non-fibrous (Other)	None Detected
2201040002MB-14-D *322200678-0014C*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201040002MB-15-A *322200678-0015*	Gray/Black Fibrous Heterogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
2201040002MB-15-B *322200678-0015A*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201040002MB-15-C *322200678-0015B*	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2201040002MB-15-D *322200678-0015C*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201040002MB-15-E *322200678-0015D*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201040002MB-15-F *322200678-0015E*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201040002MB-16 *322200678-0016*	Gray/Black Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
2201040002MB-17 *322200678-0017*	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Report amended: 02/04/2022 11:26:09 Replaces amended report from: 01/26/2022 13:13:41 Reason Code: Data Entry-Change to Sample ID

LA Testing

520 Mission Street South Pasadena, CA 91030

Tel/Fax: (323) 254-9960 / (323) 254-9982

http://www.LATesting.com / pasadenalab@latesting.com

LA Testing Order: 322200678
Customer ID: 32EXEC52
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

		Non-Asbestos		Asbestos
Sample	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
2201040002MB-18-A *322200678-0018*	Black/Silver Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
2201040002MB-18-B *322200678-0018A*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201040002MB-19-A *322200678-0019*	Gray/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201040002MB-19-B *322200678-0019A*	Black Fibrous Homogeneous	8% Glass	92% Non-fibrous (Other)	None Detected
2201040002MB-19-C *322200678-0019B*	Black Fibrous Homogeneous	8% Glass	92% Non-fibrous (Other)	None Detected
2201040002MB-19-D *322200678-0019C*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201040002MB-20-A *322200678-0020*	Gray/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201040002MB-20-B *322200678-0020A*	Black Fibrous Homogeneous	8% Glass	92% Non-fibrous (Other)	None Detected
2201040002MB-20-C *322200678-0020B*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201040002MB-21-A *322200678-0021*	Gray/Black Fibrous Heterogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
2201040002MB-21-B *322200678-0021A*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201040002MB-21-C *322200678-0021B*	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2201040002MB-21-D *322200678-0021C*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201040002MB-22-A *322200678-0022* *QC*	Black/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201040002MB-22-B *322200678-0022A*	Yellow/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201040002MB-22-C *322200678-0022B* *QC*	Black Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
2201040002MB-23 *322200678-0023* *QC*	Gray/Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
2201040002MB-24 *322200678-0024*	Black/Silver Non-Fibrous Homogeneous		93% Non-fibrous (Other)	7% Chrysotile

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LA Testing Order: 322200678
Customer ID: 32EXEC52
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

		Non-Asbestos		Asbestos
Sample	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
2201040002MB-25-A *322200678-0025*	Gray/Black Fibrous Heterogeneous	8% Glass	92% Non-fibrous (Other)	None Detected
2201040002MB-25-B *322200678-0025A*	Black Fibrous Homogeneous	8% Glass	92% Non-fibrous (Other)	None Detected
2201040002MB25-C *322200678-0025B*	Black Fibrous Homogeneous	8% Glass	92% Non-fibrous (Other)	None Detected
2201040002MB-25-D *322200678-0025C*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201040002MB-26-A *322200678-0026*	Gray/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201040002MB-26-B *322200678-0026A*	Black Fibrous Homogeneous	8% Glass	92% Non-fibrous (Other)	None Detected
2201040002MB-26-C *322200678-0026B*	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201040002MB-26-D *322200678-0026C*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201040002MB-27-A *322200678-0027*	Gray/Black Fibrous Heterogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
2201040002MB-27-B *322200678-0027A* *Mastic*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201040002MB-27-C *322200678-0027B*	Black/Beige Fibrous Heterogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
2201040002MB-27-D *322200678-0027C* *Mastic*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201040002MB-27-E *322200678-0027D*	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2201040002MB-27-F *322200678-0027E*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201040002MB-27-G *322200678-0027F*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201040002MB-28 *322200678-0028* *QC*	Gray/Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
2201040002MB-29 *322200678-0029* *QC*	Gray/Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
2201040002MB-30-A *322200678-0030*	Black/Silver Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

		Non-Asbestos		Asbestos
Sample	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
2201040002MB-30-B *322200678-0030A*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201040002MB-31-A *322200678-0031*	Gray/Black Fibrous Heterogeneous	10% Synthetic 5% Glass	85% Non-fibrous (Other)	None Detected
2201040002MB-31-B *322200678-0031A*	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201040002MB-32-A *322200678-0032*	Gray/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201040002MB-32-B *322200678-0032A*	Black Fibrous Homogeneous	8% Glass	92% Non-fibrous (Other)	None Detected
2201040002MB-32-C *322200678-0032B*	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201040002MB-32-D *322200678-0032C*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201040002MB-33-A *322200678-0033*	Gray/Black Fibrous Heterogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
2201040002MB-33-B *322200678-0033A* *Mastic*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201040002MB-33-C *322200678-0033B*	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2201040002MB-33-D *322200678-0033C*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201040002MB-33-E *322200678-0033D*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201040002MB-34 *322200678-0034*	Gray/Black/Silver Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
2201040002MB-35 *322200678-0035*	Black Non-Fibrous Homogeneous	8% Cellulose	92% Non-fibrous (Other)	None Detected
2201040002MB-36 *322200678-0036*	Black/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201040002MB-37-A *322200678-0037*	Gray/Black Fibrous Heterogeneous	12% Synthetic 10% Glass	78% Non-fibrous (Other)	None Detected
2201040002MB-37-B *322200678-0037A*	Black Fibrous Homogeneous	8% Glass	92% Non-fibrous (Other)	None Detected
2201040002MB-37-C *322200678-0037B*	Black Fibrous Homogeneous	8% Glass	92% Non-fibrous (Other)	None Detected
2201040002MB-37-D *322200678-0037C*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

		Non-Asbestos		Asbestos
Sample	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
2201040002MB-38-A *322200678-0038*	Gray/Black Fibrous Heterogeneous	15% Synthetic 10% Glass	75% Non-fibrous (Other)	None Detected
2201040002MB-38-B *322200678-0038A*	Black Fibrous Homogeneous	12% Synthetic 10% Glass	78% Non-fibrous (Other)	None Detected
2201040002MB-38-C *322200678-0038B*	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201040002MB-38-D *322200678-0038C*	Black Fibrous Homogeneous	12% Glass	88% Non-fibrous (Other)	None Detected
2201040002MB-38-E *322200678-0038D*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201040002MB-39-A *322200678-0039*	Gray/Black Fibrous Heterogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
2201040002MB-39-B *322200678-0039A* *Mastic*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201040002MB-39-C *322200678-0039B*	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2201040002MB-39-D *322200678-0039C*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201040002MB-39-E *322200678-0039D*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201040002MB-40 *322200678-0040*	Gray/Black/Silver Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
2201040002MB-41 *322200678-0041*	Gray/Black/Silver Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
2201040002MB-42 *322200678-0042*	Gray/Black Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
2201040002MB-43-A *322200678-0043*	Gray/Black Fibrous Heterogeneous	12% Synthetic 10% Glass	78% Non-fibrous (Other)	None Detected
2201040002MB-43-B *322200678-0043A*	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201040002MB-43-C *322200678-0043B*	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201040002MB-43-D *322200678-0043C*	Brown Fibrous Homogeneous	85% Cellulose	8% Perlite 7% Non-fibrous (Other)	None Detected
2201040002MB-44-A *322200678-0044*	Gray/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201040002MB-44-B *322200678-0044A*	Black Fibrous Homogeneous	8% Glass	92% Non-fibrous (Other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

		Non-Asbestos		Asbestos
Sample	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
2201040002MB-44-C *322200678-0044B*	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201040002MB-45-A *322200678-0045*	Gray/Black Fibrous Heterogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
2201040002MB-45-B *322200678-0045A* *Mastic*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201040002MB-45-C *322200678-0045B*	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2201040002MB-45-D *322200678-0045C*	Brown Fibrous Homogeneous	80% Cellulose 5% Glass	15% Non-fibrous (Other)	None Detected
2201040002MB-45-E *322200678-0045D*	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201040002MB-46 *322200678-0046*	Black/Silver Non-Fibrous Homogeneous		94% Non-fibrous (Other)	6% Chrysotile
2201040002MB-47 *322200678-0047*	Gray/Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
2201040002MB-48 *322200678-0048*	Black Non-Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
2201040002MB-49-A *322200678-0049*	Gray/Black/Silver Fibrous Heterogeneous	15% Synthetic 10% Glass	75% Non-fibrous (Other)	None Detected
2201040002MB-49-B *322200678-0049A*	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201040002MB-49-C *322200678-0049B*	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201040002MB-49-D *322200678-0049C*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201040002MB-50-A *322200678-0050*	Gray/Black Fibrous Heterogeneous	12% Synthetic 10% Glass	78% Non-fibrous (Other)	None Detected
2201040002MB-50-B *322200678-0050A*	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201040002MB-50-C *322200678-0050B*	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201040002MB-50-D *322200678-0050C*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201040002MB-51-A *322200678-0051*	Gray/Black Fibrous Heterogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
2201040002MB-51-B *322200678-0051A* *Mastic*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

		Non-Asbestos		Asbestos
Sample	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
2201040002MB-51-C *322200678-0051B*	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2201040002MB-51-D *322200678-0051C*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201040002MB-51-E *322200678-0051D*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201040002MB-52 *322200678-0052*	Black/Silver Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
2201040002MB-53 *322200678-0053*	Black Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
2201040002MB-54 *322200678-0054*	Gray/Black Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
2201060002MB-55-A *322200678-0055*	Gray/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201060002MB-55-B *322200678-0055A*	Black Fibrous Homogeneous	8% Glass	92% Non-fibrous (Other)	None Detected
2201060002MB-55-C *322200678-0055B*	Black Non-Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201060002MB-55-D *322200678-0055C*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201060002MB-56-A *322200678-0056*	Gray/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201060002MB-56-B *322200678-0056A*	Black Fibrous Homogeneous	8% Glass	92% Non-fibrous (Other)	None Detected
2201060002MB-56-C *322200678-0056B*	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201060002MB-56-D *322200678-0056C*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201060002MB-57-A *322200678-0057*	Gray/Black Fibrous Heterogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
2201060002MB-57-B *322200678-0057A* *Mastic*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201060002MB-57-C *322200678-0057B*	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2201060002MB-57-D *322200678-0057C*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201060002MB-57-E *322200678-0057D*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

		Non-Asbestos		Asbestos
Sample	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
2201060002MB-58 *322200678-0058*	Gray/Black/Silver Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
2201060002MB-59 *322200678-0059*	Gray/Black/Silver Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
2201060002MB-60 *322200678-0060*	Gray/Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
2201060002MB-61-A *322200678-0061*	Gray/Black Fibrous Heterogeneous	12% Synthetic 8% Glass	80% Non-fibrous (Other)	None Detected
2201060002MB-61-B *322200678-0061A*	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201060002MB-61-C *322200678-0061B*	Brown Fibrous Homogeneous	80% Cellulose	10% Perlite 10% Non-fibrous (Other)	None Detected
2201060002MB-62-A *322200678-0062*	Gray/Black Fibrous Heterogeneous	12% Synthetic 10% Glass	78% Non-fibrous (Other)	None Detected
2201060002MB-62-B *322200678-0062A*	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201060002MB-62-C *322200678-0062B*	Brown/Black Fibrous Homogeneous	80% Cellulose	10% Perlite 10% Non-fibrous (Other)	None Detected
2201060002MB-63-A *322200678-0063*	Gray/Black Fibrous Heterogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
2201060002MB-63-B *322200678-0063A* *Mastic*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201060002MB-63-C *322200678-0063B*	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2201060002MB-63-D *322200678-0063C*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201060002MB-63-E *322200678-0063D*	Brown Fibrous Homogeneous	80% Cellulose 5% Glass	15% Non-fibrous (Other)	None Detected
2201060002MB-64 *322200678-0064* *QC'd*	Black/Silver Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
2201060002MB-65 *322200678-0065* *QC'd*	Gray/Black Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
2201060002MB-66 *322200678-0066*	Gray/Black Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
2201060002MB-67-A *322200678-0067*	Gray/Black Fibrous Heterogeneous	15% Synthetic 10% Glass	75% Non-fibrous (Other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

		Non-Asbestos		Asbestos
Sample	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
2201060002MB-67-B *322200678-0067A*	Black Fibrous Homogeneous	8% Glass	92% Non-fibrous (Other)	None Detected
2201060002MB-67-C *322200678-0067B*	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201060002MB-67-D *322200678-0067C*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201060002MB-67-E *322200678-0067D*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201060002MB-68-A *322200678-0068*	Gray/Black Fibrous Heterogeneous	12% Synthetic 8% Glass	80% Non-fibrous (Other)	None Detected
2201060002MB-68-B *322200678-0068A*	Black Fibrous Homogeneous	8% Glass	92% Non-fibrous (Other)	None Detected
2201060002MB-68-C *322200678-0068B*	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201060002MB-68-D *322200678-0068C*	Brown Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
2201060002MB-69-A *322200678-0069*	Gray/Black Fibrous Heterogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
2201060002MB-69-B *322200678-0069A* *Mastic*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201060002MB-69-C *322200678-0069B*	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2201060002MB-69-D *322200678-0069C*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201060002MB-69-E *322200678-0069D*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201060002MB-70 *322200678-0070*	Gray/Black/Silver Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
2201060002MB-71 *322200678-0071*	Gray/Black/Silver Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
2201060002MB-72-A *322200678-0072* *Mastic*	Black/Silver Non-Fibrous Homogeneous		93% Non-fibrous (Other)	7% Chrysotile
2201060002MB-72-B *322200678-0072A*	Black Fibrous Homogeneous	85% Cellulose	15% Non-fibrous (Other)	None Detected
2201060002MB-73-A *322200678-0073*	Gray/Black Non-Fibrous Homogeneous	12% Synthetic 10% Glass	78% Non-fibrous (Other)	None Detected
2201060002MB-73-B *322200678-0073A*	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

		Non-Asbestos		Asbestos
Sample	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
2201060002MB-73-C *322200678-0073B*	Black Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201060002MB-73-D *322200678-0073C*	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201060002MB-74-A *322200678-0074*	Gray/Black Fibrous Heterogeneous	15% Synthetic 10% Glass	75% Non-fibrous (Other)	None Detected
2201060002MB-74-B *322200678-0074A*	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201060002MB-74-C *322200678-0074B*	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201060002MB-75-A *322200678-0075*	Gray/Black Fibrous Heterogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
2201060002MB-75-B *322200678-0075A* *Mastic*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201060002MB-75-C *322200678-0075B*	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2201060002MB-75-D *322200678-0075C*	Brown Fibrous Homogeneous	85% Cellulose 3% Glass	12% Non-fibrous (Other)	None Detected
2201060002MB-75-E *322200678-0075D*	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201060002MB-75-F *322200678-0075E*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201060002MB-76 *322200678-0076* *QC*	Black/Silver Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
2201060002MB-77-A *322200678-0077*	Black/Silver Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
2201060002MB-77-B *322200678-0077A*	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201060002MB-77-C *322200678-0077B*	White Fibrous Homogeneous	98% Synthetic	2% Non-fibrous (Other)	None Detected
2201060002MB-78 *322200678-0078*	Gray/Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
2201060002MB-79-A *322200678-0079*	Gray/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201060002MB-79-B *322200678-0079A*	Black Fibrous Homogeneous	8% Glass	92% Non-fibrous (Other)	None Detected
2201060002MB-79-C *322200678-0079B*	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected

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LA Testing Order: 322200678
Customer ID: 32EXEC52
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

		Non-Asbestos		Asbestos
Sample	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
2201060002MB-79-D *322200678-0079C*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201060002MB-80-A *322200678-0080*	Gray/Black Fibrous Heterogeneous	12% Synthetic 8% Glass	80% Non-fibrous (Other)	None Detected
2201060002MB-80-B *322200678-0080A*	Black Fibrous Homogeneous	8% Glass	92% Non-fibrous (Other)	None Detected
2201060002MB-80-C *322200678-0080B*	Black Fibrous Homogeneous	12% Glass	88% Non-fibrous (Other)	None Detected
2201060002MB-80-D *322200678-0080C*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201060002MB-81-A *322200678-0081*	Gray/Black Fibrous Heterogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
2201060002MB-81-B *322200678-0081A* *Mastic*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201060002MB-81-C *322200678-0081B*	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2201060002MB-81-D *322200678-0081C*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201060002MB-81-E *322200678-0081D*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201060002MB-82 *322200678-0082*	Black/Silver Non-Fibrous Homogeneous	8% Cellulose	92% Non-fibrous (Other)	None Detected
2201060002MB-83-A *322200678-0083* *QC*	Gray/Black Non-Fibrous Homogeneous	8% Cellulose	92% Non-fibrous (Other)	None Detected
2201060002MB-83-B *322200678-0083A*	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201060002MB-84 *322200678-0084*	Black/Silver Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
2201060002MB-85-A *322200678-0085*	Gray/Black Fibrous Heterogeneous	12% Synthetic 8% Glass	80% Non-fibrous (Other)	None Detected
2201060002MB-85-B *322200678-0085A*	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201060002MB-85-C *322200678-0085B*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201060002MB-85-D *322200678-0085C*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201060002MB-86-A *322200678-0086*	Gray/Black Fibrous Heterogeneous	15% Synthetic 8% Glass	77% Non-fibrous (Other)	None Detected

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LA Testing Order: 322200678
Customer ID: 32EXEC52
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Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

		Non-Asbestos		Asbestos
Sample	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
2201060002MB-86-B *322200678-0086A*	Black Non-Fibrous Homogeneous	8% Glass	92% Non-fibrous (Other)	None Detected
2201060002MB-86-C *322200678-0086B*	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201060002MB-86-D *322200678-0086C*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201060002MB-87-A *322200678-0087*	Gray/Black Fibrous Heterogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
2201060002MB-87-B *322200678-0087A* *Mastic*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201060002MB-87-C *322200678-0087B*	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2201060002MB-87-D *322200678-0087C*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201060002MB-87-E *322200678-0087D*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201060002MB-87-F *322200678-0087E*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201060002MB-88 *322200678-0088* *QC*	Black/Silver Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
2201060002MB-89 *322200678-0089*	Black/Silver Non-Fibrous Homogeneous	8% Cellulose	92% Non-fibrous (Other)	None Detected
2201060002MB-90 *322200678-0090*	Gray/Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
2201060002MB-91-A *322200678-0091*	Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201060002MB-91-B *322200678-0091A*	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201060002MB-91-C *322200678-0091B*	Black Fibrous Homogeneous	12% Glass	88% Non-fibrous (Other)	None Detected
2201060002MB-91-D *322200678-0091C*	Silver Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2201060002MB-92-A *322200678-0092*	Black Fibrous Heterogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
2201060002MB-92-B *322200678-0092A*	Black Fibrous Homogeneous	8% Glass	92% Non-fibrous (Other)	None Detected
2201060002MB-92-C *322200678-0092B*	Black Fibrous Homogeneous	12% Glass	88% Non-fibrous (Other)	None Detected

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LA Testing Order: 322200678
Customer ID: 32EXEC52
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

		Non-Asbestos		Asbestos
Sample	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
2201060002MB-92-D *322200678-0092C*	Silver Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2201060002MB-93-A *322200678-0093*	Gray/Red/Black Fibrous Heterogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
2201060002MB-93-B *322200678-0093A* *Mastic*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201060002MB-93-C *322200678-0093B*	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2201060002MB-93-D *322200678-0093C* *Mastic*	Black/Silver Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201060002MB-93-E *322200678-0093D*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201060002MB-94 *322200678-0094*	Gray/Black Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
2201060002MB-95 *322200678-0095*	Gray/Black Non-Fibrous Homogeneous	8% Cellulose	92% Non-fibrous (Other)	None Detected
2201060002MB-96-A *322200678-0096* *Mastic*	Black/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201060002MB-96-B *322200678-0096A* *Mastic*	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201060002MB-97-A *322200678-0097*	Silver Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2201060002MB-97-B *322200678-0097A*	Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201060002MB-97-C *322200678-0097B*	Black Fibrous Homogeneous	8% Glass	92% Non-fibrous (Other)	None Detected
2201060002MB-97-D *322200678-0097C*	Black Fibrous Homogeneous	12% Glass	88% Non-fibrous (Other)	None Detected
2201060002MB-98-A *322200678-0098*	Silver Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2201060002MB-98-B *322200678-0098A*	Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201060002MB-98-C *322200678-0098B*	Black Fibrous Homogeneous	8% Glass	92% Non-fibrous (Other)	None Detected
2201060002MB-98-D *322200678-0098C*	Black Fibrous Homogeneous	12% Glass	88% Non-fibrous (Other)	None Detected

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LA Testing Order: 322200678
Customer ID: 32EXEC52
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

		Non-Asbestos		Asbestos
Sample	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
2201060002MB-99-A *322200678-0099* *Mastic*	Black/Silver Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201060002MB-99-B *322200678-0099A*	Black Fibrous Homogeneous	45% Synthetic	55% Non-fibrous (Other)	None Detected
2201060002MB-99-C *322200678-0099B* *Mastic*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201060002MB-99-D *322200678-0099C*	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2201060002MB-99-E *322200678-0099D*	Gray/Black Fibrous Homogeneous	45% Synthetic	55% Non-fibrous (Other)	None Detected
2201060002MB-99-F *322200678-0099E*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201070002MB-100-A *322200678-0100*	Gray/Black Non-Fibrous Heterogeneous	5% Synthetic 10% Glass	85% Non-fibrous (Other)	None Detected
2201070002MB-100-B *322200678-0100A*	Black Non-Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201070002MB-100-C *322200678-0100B*	Black Non-Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2201070002MB-100-D *322200678-0100C*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201070002MB-101-A *322200678-0101*	Gray/Black Non-Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201070002MB-101-B *322200678-0101A*	Black Non-Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
2201070002MB-101-C *322200678-0101B*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201070002MB-102-A *322200678-0102*	Gray/Black Fibrous Heterogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
2201070002MB-102-B *322200678-0102A* *Mastic*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201070002MB-102-C *322200678-0102B*	Black Fibrous Heterogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2201070002MB-102-D *322200678-0102C*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201070002MB-102-E *322200678-0102D*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected

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LA Testing Order: 322200678
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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

		Non-Asbestos		Asbestos
Sample	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
2201070002MB-103 *322200678-0103*	Black/Silver Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
2201070002MB-104 *322200678-0104*	Black/Silver Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
2201070002MB-105 *322200678-0105*	Gray/Black/Silver Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
2201070002MB-106-A *322200678-0106*	Black Non-Fibrous Homogeneous	5% Synthetic 10% Glass	85% Non-fibrous (Other)	None Detected
2201070002MB-106-B *322200678-0106A*	Black Non-Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
2201070002MB-106-C *322200678-0106B*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201070002MB-106-D *322200678-0106C*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201070002MB-107-A *322200678-0107*	Gray/Black Non-Fibrous Heterogeneous	5% Synthetic 10% Glass	85% Non-fibrous (Other)	None Detected
2201070002MB-107-B *322200678-0107A*	Black Non-Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201070002MB-107-C *322200678-0107B*	Black Non-Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
2201070002MB-107-D *322200678-0107C*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201070002MB-108-A *322200678-0108*	Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201070002MB-108-B *322200678-0108A* *Mastic*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201070002MB-108-C *322200678-0108B*	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2201070002MB-108-D *322200678-0108C*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201070002MB-108-E *322200678-0108D*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201070002MB-109 *322200678-0109*	Black Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
2201070002MB-110 *322200678-0110*	Black Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
2201070002MB-111 *322200678-0111*	White/Black/Silver Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

		Non-Asbestos		Asbestos
Sample	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
2201070002MB-112-A *322200678-0112*	Black Non-Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201070002MB-112-B *322200678-0112A*	Black Non-Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
2201070002MB-112-C *322200678-0112B*	Brown Non-Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201070002MB-113-A *322200678-0113*	Black Non-Fibrous Homogeneous	5% Synthetic 10% Glass	85% Non-fibrous (Other)	None Detected
2201070002MB-113-B *322200678-0113A*	Black Non-Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
2201070002MB-113-C *322200678-0113B*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201070002MB/114-A *322200678-0114*	Gray/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201070002MB-114-B *322200678-0114A* *Mastic*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201070002MB-114-C *322200678-0114B*	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2201070002MB-114-D *322200678-0114C*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201070002MB-114-E *322200678-0114D*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201070002MB-114-F *322200678-0114E*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201070002MB-115-A *322200678-0115*	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201070002MB-115-B *322200678-0115A*	Black/Silver Non-Fibrous Homogeneous	20% Cellulose	76% Non-fibrous (Other)	4% Chrysotile
2201070002MB-116 *322200678-0116*	Black/Silver Non-Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
2201070002MB-117 *322200678-0117*	White/Black/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201070002MB-118-A *322200678-0118*	Black Non-Fibrous Homogeneous	5% Synthetic	95% Non-fibrous (Other)	None Detected
2201070002MB-118-B *322200678-0118A*	Black Non-Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2201070002MB-118-C *322200678-0118B*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

		Non-Asbestos		Asbestos
Sample	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
2201070002MB-119-A *322200678-0119*	Black Non-Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201070002MB-119-B *322200678-0119A*	Black Non-Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
2201070002MB-119-C *322200678-0119B*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201070002MB-120-A *322200678-0120*	Gray/Black Fibrous Heterogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
2201070002MB-120-B *322200678-0120A* *Mastic*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201070002MB-120-C *322200678-0120B*	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2201070002MB-120-D *322200678-0120C*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201070002MB-120-E *322200678-0120D*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201070002MB-121 *322200678-0121*	Black Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
2201070002MB-122 *322200678-0122*	Black Non-Fibrous Homogeneous		94% Non-fibrous (Other)	6% Chrysotile
2201070002MB-123 *322200678-0123*	Gray/Black Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
2201070002MB-124-A *322200678-0124*	Black Non-Fibrous Homogeneous	5% Synthetic 10% Glass	85% Non-fibrous (Other)	None Detected
2201070002MB-124-B *322200678-0124A*	Black Non-Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
2201070002MB-124-B *322200678-0124B*	Brown Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
2201070002MB-125-A *322200678-0125*	Black Non-Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201070002MB-125-B *322200678-0125A*	Black Non-Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2201070002MB-125-C *322200678-0125B*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201070002MB-126-A *322200678-0126*	Gray/Black Fibrous Heterogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
2201070002MB-126-B *322200678-0126A* *Mastic*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Report amended: 02/04/2022 11:26:09 Replaces amended report from: 01/26/2022 13:13:41 Reason Code: Data Entry-Change to Sample ID

LA Testing
520 Mission Street South Pasadena, CA 91030
Tel/Fax: (323) 254-9960 / (323) 254-9982
http://www.LATesting.com / pasadenalab@latesting.com

LA Testing Order: 322200678
Customer ID: 32EXEC52
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

		Non-Asbestos		Asbestos
Sample	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
2201070002MB-126-C *322200678-0126B*	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2201070002MB-126-D *322200678-0126C*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201070002MB-126-E *322200678-0126D*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201070002MB-127 *322200678-0127*	Black Non-Fibrous Homogeneous	10% Glass	87% Non-fibrous (Other)	3% Chrysotile
2201070002MB-128-A *322200678-0128*	Black Non-Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
2201070002MB-128-B *322200678-0128A*	Black Non-Fibrous Homogeneous	5% Cellulose	90% Non-fibrous (Other)	5% Chrysotile
2201070002MB-129 *322200678-0129*	Black Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
2201070002MB-130-A *322200678-0130*	Black Non-Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201070002MB-130-B *322200678-0130A*	Black Non-Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2201070002MB-130-C *322200678-0130B*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201070002MB-131-A *322200678-0131*	Black Non-Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201070002MB-131-B *322200678-0131A*	Black Non-Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2201070002MB-131-C *322200678-0131B*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201070002MB-132-A *322200678-0132*	Gray/Black Fibrous Heterogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
2201070002MB-132-B *322200678-0132A* *Mastic*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201070002MB-132-C *322200678-0132B*	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2201070002MB-132-D *322200678-0132C*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201070002MB-132-E *322200678-0132D*	Brown Non-Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201070002MB-132-F *322200678-0132E*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected

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http://www.LATesting.com / pasadenalab@latesting.com

LA Testing Order: 322200678
Customer ID: 32EXEC52
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

		Non-Asbestos		Asbestos
Sample	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
2201070002MB-133 *322200678-0133*	Black Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
2201070002MB-134 *322200678-0134*	Black Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
2201070002MB-135 *322200678-0135*	Black/Silver Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
2201070002MB-136-A *322200678-0136*	Black Non-Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201070002MB-136-B *322200678-0136A*	Black Non-Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2201070002MB-136-C *322200678-0136B*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201070002MB-137-A *322200678-0137*	Gray/Black Non-Fibrous Heterogeneous	5% Synthetic 10% Glass	85% Non-fibrous (Other)	None Detected
2201070002MB-137-B *322200678-0137A*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201070002MB-137-C *322200678-0137B*	Black Non-Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2201070002MB-138-A *322200678-0138*	Gray/Black Fibrous Heterogeneous	15% Synthetic 8% Glass	77% Non-fibrous (Other)	None Detected
2201070002MB-138-B *322200678-0138A*	Black Fibrous Homogeneous	8% Glass	92% Non-fibrous (Other)	None Detected
2201070002MB-138-C *322200678-0138B*	Black Fibrous Homogeneous	12% Glass	88% Non-fibrous (Other)	None Detected
2201070002MB-138-D *322200678-0138C*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201070002MB-139 *322200678-0139*	Black Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
2201070002MB-140 *322200678-0140*	Black Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
2201070002MB-141 *322200678-0141*	Gray/Black Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
2201070002MB-142 *322200678-0142*	Black Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
2201070002MB-143 *322200678-0143*	Black Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
2201070002MB-144 *322200678-0144*	Gray/Black Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected

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LA Testing

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http://www.LATesting.com / pasadenalab@latesting.com

LA Testing Order: 322200678
Customer ID: 32EXEC52
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

		Non-Asbestos		Asbestos
Sample	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
2201070002MB-145-A *322200678-0145*	Black Non-Fibrous Homogeneous	10% Synthetic	90% Non-fibrous (Other)	None Detected
2201070002MB-145-B *322200678-0145A*	Black Non-Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2201070002MB-146-A *322200678-0146*	Black Non-Fibrous Homogeneous	10% Synthetic	90% Non-fibrous (Other)	None Detected
2201070002MB-146-B *322200678-0146A*	Black Non-Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2201070002MB-147-A *322200678-0147*	Gray/Black Fibrous Heterogeneous	15% Synthetic	85% Non-fibrous (Other)	None Detected
2201070002MB-147-B *322200678-0147A*	Black Fibrous Homogeneous	12% Glass	88% Non-fibrous (Other)	None Detected
2201070002MB-147-C *322200678-0147B*	White/Black Non-Fibrous Homogeneous	8% Synthetic	92% Non-fibrous (Other)	None Detected
2201070002MB-148-A *322200678-0148*	Black Non-Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201070002MB-148-B *322200678-0148A*	Black Non-Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2201070002MB-149-A *322200678-0149*	Black Non-Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201070002MB-149-B *322200678-0149A*	Black Non-Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2201070002MB-150-A *322200678-0150*	Gray/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201070002MB-150-B *322200678-0150A*	Brown/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201070002MB-150-C *322200678-0150B*	Black Fibrous Homogeneous	8% Glass	92% Non-fibrous (Other)	None Detected
2201070002MB-150-D *322200678-0150C*	Black Non-Fibrous Homogeneous	8% Glass	92% Non-fibrous (Other)	None Detected
2201070002MB-151 *322200678-0151*	Black Non-Fibrous Homogeneous	5% Glass	90% Non-fibrous (Other)	5% Chrysotile
2201070002MB-152 *322200678-0152*	Black Non-Fibrous Homogeneous		93% Non-fibrous (Other)	7% Chrysotile
2201070002MB-153 *322200678-0153*	Gray/Black Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
2201070002MB-154-A *322200678-0154*	Black Non-Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected

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http://www.LATesting.com / pasadenalab@latesting.com

LA Testing Order: 322200678
Customer ID: 32EXEC52
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

		Non-Asbestos		Asbestos
Sample	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
2201070002MB-154-B *322200678-0154A*	Black Non-Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2201070002MB-154-C *322200678-0154B*	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
2201070002MB-155-A *322200678-0155*	Black Non-Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201070002MB-155-B *322200678-0155A*	Black Non-Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2201070002MB-156-A *322200678-0156*	Gray/Black Fibrous Heterogeneous	8% Glass	92% Non-fibrous (Other)	None Detected
2201070002MB-156-B *322200678-0156A*	Black Fibrous Homogeneous	8% Glass	92% Non-fibrous (Other)	None Detected
2201070002MB-156-C *322200678-0156B*	Black Fibrous Homogeneous	8% Glass	92% Non-fibrous (Other)	None Detected
2201070002MB-157 *322200678-0157*	Black Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
2201070002MB-158 *322200678-0158*	Black Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
2201070002MB-159 *322200678-0159*	Gray/Black Non-Fibrous Homogeneous	10% Glass	82% Non-fibrous (Other)	8% Chrysotile
2201070002MB-160-A *322200678-0160*	Black Non-Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201070002MB-160-B *322200678-0160A*	Black Non-Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2201070002MB-161-A *322200678-0161*	Black Non-Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201070002MB-161-B *322200678-0161A*	Black Non-Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2201070002MB-162-A *322200678-0162*	Gray/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201070002MB-162-B *322200678-0162A*	Brown/Black Fibrous Homogeneous	8% Glass	92% Non-fibrous (Other)	None Detected
2201070002MB-162-C *322200678-0162B*	Black Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
2201070002MB-163 *322200678-0163*	Black Non-Fibrous Homogeneous	10% Glass	85% Non-fibrous (Other)	5% Chrysotile
2201070002MB-164 *322200678-0164*	Black Non-Fibrous Homogeneous	10% Glass	83% Non-fibrous (Other)	7 % Chrysotile

Report amended: 02/04/2022 11:26:09 Replaces amended report from: 01/26/2022 13:13:41 Reason Code: Data Entry-Change to Sample ID

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http://www.LATesting.com / pasadenalab@latesting.com

LA Testing Order: 322200678
Customer ID: 32EXEC52
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

		Non-Asbestos		Asbestos
Sample	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
2201070002MB-165 *322200678-0165*	Gray/Black Non-Fibrous Homogeneous	6% Glass	84% Non-fibrous (Other)	10% Chrysotile
2201070002MB-166-A *322200678-0166*	Black Non-Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201070002MB-166-B *322200678-0166A*	Black Non-Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2201070002MB-167-A *322200678-0167*	Black Non-Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201070002MB-167-B *322200678-0167A*	Black Non-Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2201070002MB-168-A *322200678-0168*	Gray/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201070002MB-168-B *322200678-0168A*	Brown/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201070002MB-168-C *322200678-0168B*	Black Fibrous Homogeneous	12% Glass	88% Non-fibrous (Other)	None Detected
2201070002MB-169 *322200678-0169*	Black Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
2201070002MB-170 *322200678-0170*	Black Non-Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2201070002MB-171 *322200678-0171*	Gray/Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
2201070002MB-172 *322200678-0172*	Black Non-Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
2201070002MB-173 *322200678-0173*	Black Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
2201070002MB-174 *322200678-0174*	Black Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
2201070002MB-175 *322200678-0175*	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201070002MB-176 *322200678-0176*	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201070002MB-177 *322200678-0177*	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201070002MB-178 *322200678-0178*	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2201070002MB-179 *322200678-0179*	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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LA Testing Order: 322200678
Customer ID: 32EXEC52
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

		Non-Asbestos		Asbestos
Sample	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
2201070002MB-180	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
322200678-0180				
2201070002MB-181	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
322200678-0181				
2201070002MB-182	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
322200678-0182				
2201070002MB-183	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
322200678-0183				

Analyst(s)

David Flores (202)
Humberto Espinoza Bajo (149)
Rafael Palacios (100)

Jerry Drapala Ph.D, Laboratory Manager
or Other Approved Signatory

Report amended: 02/04/2022 11:26:09 Replaces amended report from: 01/26/2022 13:13:41 Reason Code: Data Entry-Change to Sample ID

322000678#

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☐ AmeriSci
☐ EMLab (Glendale)
☒ LA Testing

☐ Routine (5 Working Days)	☒ RUSH (surcharges may apply) Circle One: 6 hours / 24 hours / 48 hours / (3 to 5 days)	Project #: 22-Z0046-0002	Sampled by: Matt Barna / Rhys Kuzmic	Site Zip Code: 91770	Sample Date: 1/4/22	Page 1 of 3

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 with a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. ~~Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%~~ MB
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Building Name: Administration Building (A)

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Prefix:2201 04 0002MB-

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
1	Overhang W	Roof Core	Administration Building (A) Overhang	1	300 SF	0
2	Roof N	"	"	"	"	"
3	Roof SE	"	"	"	"	"
4	Roof N HVAC Roof Jack	Roof Mastic	Administration Building (A) and Overhang, HVAC	2	30 SF	0
5	Roof NE Parapet Wall Support Roof Jack	"	Parapet Wall Support, and Roof Jacks	"	"	"
6	Roof SE Roof Jack	"	"	"	"	"

PER YESENIA, 1 WEEK TAT OK MB

Notes:

Released By, Date, & Time:	Received By, Date, & Time::	Released By, Date, & Time:
1/10/22 MB 2:48PM	KW(DB) 1/10/22 2:30PM	

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OrderID: 322000678

322200678 #

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☐ AmeriSci
☐ EMLab (Glendale)
☒ LA Testing

☐ **Routine** (5 Working Days)

☒ **RUSH** (surcharges may apply) Circle One: 6 hours | 24 hours | 48 hours | (3 to 5 days)

Project #: 22-Z0046-0002

Sampled by: Matt Barna / Rhys Kuzmic

Site Zip Code: 91770

Sample Date: 1/4/22

Page 2 of 31

Building Name: Classroom Building (B) Rooms 1-3

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. ~~Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%~~ MB
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
7	Roof 1 SW	Roof Core	Classroom Building (B) Rooms 1-3 Roof 1	3	2100 SF	0
8	Roof 1 S HVAC	〃	〃	〃	〃	〃
9	Roof 1 NE	〃	〃	〃	〃	〃
10	Roof 1 SW Roof Jack	Roof Mastic	Classroom Building (B) Rooms 1-3 Roof 1	4	30 SF	0
11	Roof 1 S HVAC Roof Jack	〃	at Roof Jacks, HVAC, Conduit Block, and Flashings	〃	〃	〃
12	Roof 1 NE Flashing	〃	〃	〃	〃	〃

Prefix:2201 04 0002MB-

Notes:

Released By, Date, & Time:	Received By, Date, & Time::	Released By, Date, & Time:
1/10/22 MB 2:20PM	KW(DB) 1/10/2022 2:30PM	

OrderID: 322200678

Page 2 Of 31

322200678 #

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☐ AmeriSci
☐ EMLab (Glendale)
☒ LA Testing

☐ **Routine** (5 Working Days)

☒ **RUSH** (surcharges may apply)
Circle One: 6 hours | 24 hours | 48 hours | (3 to 5 days)

Project #: 22-Z0046-0002

Sampled by: Matt Barna / Rhys Kuzmic

Site Zip Code: 91770

Sample Date: 1/4/22

Page 3 of 31

Building Name: Classroom Bldg (B) Rooms 1-3

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. ~~Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%~~ MB
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Prefix:2201 0002MB-

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
13	Roof 2 W	Roof Core	Roof 2	5	1100SF	0
14	Roof 2 N	"	"	"	"	"
15	Roof 2 E	"	"	"	"	"
16	Roof 2 NW Roof Jack	Roof Master	Roof 2 Roof Jacks, Flashings	6	10SF	0
17	Roof 2 N Roof Jack	"	"	"	"	"
18	Roof 2 NE ~~Roof Jack~~ Flashing	"	"	"	"	"

Notes:

Released By, Date, & Time:	Received By, Date, & Time::	Released By, Date, & Time:
1/10/22 NW 2:20PM	RW(OB) 1/10/22 2:30PM	

OrderID: 322200678

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Rev. 1/19

Form: AL-006PLM

322200678#

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☐ AmeriSci
☐ EMLab (Glendale)
☒ LA Testing

☐ **Routine** (5 Working Days)

☒ **RUSH** (surcharges may apply) Circle One: 6 hours / 24 hours / 48 hours / (3 to 5 days)

Project #: 22-Z0046-0002

Sampled by: Matt Barna / Rhys Kuzmic

Site Zip Code: 91770

Sample Date: 1/4/22

Page 4 of 31

Building Name: Classroom Building (B) Room 1-3

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. ~~Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%~~ MB
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Prefix:2201 0002MB- 25

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
19	Student RR NW	Roof Core	Student RR, Breezeway	7	1100sf	0
20	Student RR S	"	"	"	"	"
21	Breezeway NE	"	"	"	"	"
22	Student RR NW Skylight	Roof Mastic	Student RR, Breezway Skylights, Conduit Blocks,	8	10sf	0
23	Student RR S Conduit Block	"	Flashings, Roof Jacks	"	"	"
24	Breezeway NE Roof Jack	"	"	"	"	"

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Notes:

Released By, Date, & Time:	Received By, Date, & Time:	Released By, Date, & Time:
1/10/22 MB 2:20PM	KW(LOB) 1/10/22 2:30PM	

OrderID: 322200678

322200678 #

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☐ AmeriSci
☐ EMLab (Glendale)
☒ LA Testing

☐ Routine (5 Working Days)	☑ RUSH (surcharges may apply) Circle One: 6 hours / 24 hours / 48 hours / (3 to 5 days)	Project #: 22-Z0046-0002	Sampled by: Matt Barna / Rhys Kuzmic	Site Zip Code: 91770	Sample Date: 1/4/22	Page 5 of 31

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. ~~Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%~~ MB
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Building Name: Classroom (Building D) Room 4-6

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Prefix:2201 0002MB-

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
25	Roof 1 SW	Roof Core	Roof 1	9	2750sf	0
26	Roof 1 N	"	"	"	"	"
27	Roof 1 NE	"	"	"	"	"
28	Roof 1 SW Roof Jack	Roof Mastic	Roof 1 HVAC Roof Jacks, Flashings,	10	30sf	0
29	Roof 1 N HVAC Roof Jack	"	Conduit Support Blocks	"	"	"
30	Roof 1 NE Flashing	"	"	"	"	"

Notes:

Released By, Date, & Time:	Received By, Date, & Time:	Released By, Date, & Time:
1/10/22 2:20PM	KW(DB) 1/10/22 2:30PM	

322000678#

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☐ AmeriSci
☐ EMLab (Glendale)
☒ LA Testing

☐ **Routine** (5 Working Days)

☒ **RUSH** (surcharges may apply) Circle One: 6 hours | 24 hours | 48 hours | (3 to 5 days)

Project #: 22-Z0046-0002

Sampled by: Matt Barna / Rhys Kuzmic

Site Zip Code: 91770

Sample Date: 1/4/22

Page 6 of 31

Building Name: Classroom Building (D) Room 4-6

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. ~~Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%~~ MB
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Prefix:2201 W 0002MB-

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
31	Roof 2 NW	Rock Core	Roof 2	11	1450SF	0
32	Roof 2 S	"	"	"	"	"
33	Roof 2 NE	"	"	"	"	"
34	Roof 2 NW Roof Jack	Rock Mastic	Roof 2 Roof Jacks	12	155F	0
35	Roof 2 S Roof Jack	"	"	"	"	"
36	Roof 2 NE Roof Jack	"	"	"	"	"

Notes:

Released By, Date, & Time:	Received By, Date, & Time::	Released By, Date, & Time:
1/10/22 MB 2:20PM	FW(DB) 1/10/22 2:30PM	

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OrderID: 322000678

Rev. 1/19

Form: AL-006PLM

322200678

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☐ AmeriSci
☐ EMLab (Glendale)
☒ LA Testing

☐ **Routine** (5 Working Days)

☐ **RUSH** (surcharges may apply) Circle One: 6 hours | 24 hours | 48 hours | 3 to 5 days

Project #: 22-Z0046-0002

Sampled by: Matt Barna / Rhys Kuzmic

Site Zip Code: 91770

Sample Date: 1/4/22

Page 7 of 31

Building Name: Classroom Building (E) Rooms 7-10

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. ~~Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%~~ MB
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Prefix:2201-0002MB-

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
37	Roof 1 SW	Roof Core	Roof 1	13	2750 SF	0
38	Roof 1 N HVAC	"	"	"	"	"
39	Roof 1 NE	"	"	"	"	"
40	Roof 1 SW Roof Jack	Roof Mastic	Roof 1 HVAC Flashings, and Roof Jacks	14	30 SF	0
41	Roof 1 N HVAC Roof Jack	"	"	"	"	"
42	Roof 1 NE Flashing	"	"	"	"	"

Page 7 Of 31

Notes:

Released By, Date, & Time:	Received By, Date, & Time::	Released By, Date, & Time:
1/10/22 MB 2:20PM	KW (OPS) 1/10/22 2:30PM	

OrderID: 322200678

322200678#

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

Originating Office
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Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☐ AmeriSci
☐ EMLab (Glendale)
☒ LA Testing

☐ **Routine** (5 Working Days)

☒ **RUSH** (surcharges may apply)
Circle One: 6 hours | 24 hours | 48 hours | (3 to 5 days)

Project #: 22-Z0046-0002

Sampled by: Matt Barna / Rhys Kuzmic

Site Zip Code: 91770

Sample Date: 1/4/22

Page 8 of 31

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. ~~Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%~~ MB
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Building Name: Classroom Building (E) Rooms 7-10

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Prefix:2201-0002MB- 30

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
43	Roof 2 NW	Roof Core	Roof 2	15	1450 SF	0
44	Roof 2 S	"	"	"	"	"
45	Roof 2 NE	"	"	"	"	"
46	Roof 2 NW Roof Jack	Roof Mastic	Roof 2 Conduit Blocks, Flashings, Roof Jacks	16	15 SF	0
47	Roof 2 S Conduit Block	"	"	"	"	"
48	Roof 2 NE Flashing	"	"	"	"	"

Notes:

Released By, Date, & Time:	Received By, Date, & Time::	Released By, Date, & Time:
1/6/22 MB 2:20PM	KW(DB) 1/10/22 2:30PM	

OrderID: 322200678

322006 78#

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☐ AmeriSci
☐ EMLab (Glendale)
☒ LA Testing

☐ Routine (5 Working Days)	☒ RUSH (surcharges may apply) Circle One: 6 hours / 24 hours / 48 hours / (3 to 5 days)	Project #: 22-Z0046-0002	Sampled by: Matt Barna / Rhys Kuzmic	Site Zip Code: 91770	Sample Date: 1/4/22	Page 9 of 31

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. ~~Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%~~ MB
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Building Name: Classroom Building (E) Rooms 7-10

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Prefix:2201MB-0002MB-

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
49	Student Restroom NW	Roof Core	Student Restroom, Breezeway	17	990sf	0
50	Student Restroom S	↓	↓	↓	↓	↓
51	Breezeway NE	↓	↓	↓	↓	↓
52	Student Restroom NW skylight	Roof Mastic	Student RR, Breezeway Skylights, Conduit Blocks	18	105f	0
53	Student Restroom ~~NE~~ NW Sk Roof Jack ~~flashing~~	↓	Flashings, Roof Jacks	↓	↓	↓
54	Breezeway ~~NE~~ Flashing	↓	↓	↓	↓	↓

Notes:

Released By, Date, & Time:	Received By, Date, & Time::	Released By, Date, & Time:
1/10/22 MB 2:20PM	KW(DB) 1/10/22 2:30pm	

OrderID: 322200678

322200678 #

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

Originating Office
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Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☐ AmeriSci
☐ EMLab (Glendale)
☒ LA Testing

☐ Routine (5 Working Days)	☒ RUSH (surcharges may apply) Circle One: 6 hours / 24 hours / 48 hours / (3 to 5 days)	Project #: 22-Z0046-0002	Sampled by: Matt Barna / Rhys Kuzmic	Site Zip Code: 91770	Sample Date: 1/6/22	Page 10 of 31

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. ~~Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%~~ MB
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Building Name: Classroom Building (F) Room 11-14

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Prefix:2201 0002MB- 8

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
55	Roof 1 SW	Roof Core	Roof 1	19	2750 SF	0
56	Roof 1 S HVAC	"	"	"	"	"
57	Roof 1 NE	"	"	"	"	"
58	Roof 1 SW Roof Jack	Roof Mastic	Roof 1 HVAC Conduit Blocks, Roof	20	30 SF	0
59	Roof 1 S HVAC	"	Jacks	"	"	"
60	Roof 1 NE Conduit Block	"	"	"	"	"

Notes:

Released By, Date, & Time:	Received By, Date, & Time::	Released By, Date, & Time:
1/10/22 MB 2:20PM	KW(DB) 1/10/22 2:30pm	

OrderID: 322200678

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322200678 #

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

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Arcadia, CA 91006
Phone: 626.441.7050
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Lab Submitted to:
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☐ EMLab (Glendale)
☒ LA Testing

☐ **Routine** (5 Working Days)

☒ **RUSH** (surcharges may apply) Circle One: 6 hours | 24 hours | 48 hours | ~~3 to 5 days~~

Project #: 22-Z0046-0002

Sampled by: Matt Barna / Rhys Kuzmic

Site Zip Code: 91770

Sample Date: 1/6/22

Page 11 of 31

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. ~~Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%~~ MB
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Building Name: Classroom Building (F) Room 11-14

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Prefix:2201 0002MB- 08

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
61	Roof 2 NW	Roof Core	Roof 2	21	1450 SF	0
62	Roof 2 N	"	"	"	"	"
63	Roof 2 NE	"	"	"	"	"
64	Roof 2 NW Jack	Roof Mastic	Roof 2 Flashings, Roof Jacks	22	15 SF	0
65	Roof 2 N Jack	"	"	"	"	"
66	Roof 2 NE Flashing	"	"	"	"	"

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Notes:

Released By, Date, & Time:	Received By, Date, & Time::	Released By, Date, & Time:
1/10/22 AMB 2:20PM	KW(DB) 1/10/22 2:30pm	

OrderID: 322200678

322200678 #

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

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HEALTH & SAFETY SIMPLIFIED

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Arcadia, CA 91006
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Lab Submitted to:
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☒ LA Testing

☐ **Routine** (5 Working Days)

☒ **RUSH** (surcharges may apply) Circle One: 6 hours | 24 hours | 48 hours | (3 to 5 days)

Project #: 22-Z0046-0002

Sampled by: Matt Barna / Rhys Kuzmic

Site Zip Code: 91770

Sample Date: 1/6/22

Page 12 of 31

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. ~~Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%~~ MB
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Building Name: Classroom Building (6) Room 15-18

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Prefix:220106 0002MB-

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
67	Roof 1 SE	Roof Core	Roof 1	23	2750 SF	0
68	Roof 1 S HVAC	"	"	"	"	"
69	Roof 1 SW Roof	"	"	"	"	"
70	Roof 1 SE Conduit Block	Roof Mastic	Roof 1 Conduit Blocks, HVAC, Flashings,	24	30 SF	0
71	Roof 1 S HVAC	"	Roof Jacks	"	"	"
72	Roof 1 SW Roof Jack	"	"	"	"	"

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Notes:

Released By, Date, & Time:	Received By, Date, & Time::	Released By, Date, & Time:
1/10/22 MB 2:20PM	KW(DB) 1/10/22 2:30PM	

OrderID: 322200678

322006 78 #

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

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Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☐ AmeriSci
☐ EMLab (Glendale)
☒ LA Testing

☐ **Routine** (5 Working Days)

☒ **RUSH** (surcharges may apply) Circle One: 6 hours | 24 hours | 48 hours | 3 to 5 days

Project #: 22-Z0046-0002

Sampled by: Matt Barna / Rhys Kuzmic

Site Zip Code: 91770

Sample Date: 1/6/22

Page 13 of 31

Building Name: Classroom Building (G) Room 15-18

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. ~~Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%~~ MB
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5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

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☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Prefix:22010002MB-

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
73	Roof 2 NW	Roof Core	Roof 2	25	1450 SF	0
74	Roof 2 N	〃	〃	〃	〃	〃
75	Roof 2 NE	〃	〃	〃	〃	〃
76	Roof 2 NW Roof Jack	Roof Mastic	Roof 2 patches, Roof Jacks	26	15 SF	0
77	Roof 2 N Roof Jack	〃	〃	〃	〃	〃
78	Roof 2 NE Patch	〃	〃	〃	〃	〃

Notes:

Released By, Date, & Time:	Received By, Date, & Time:	Released By, Date, & Time:
1/18/22 MB 2:20PM	KW(DB) 1/10/22 2:30PM	

OrderID: 322200678

Rev. 1/19

Form: AL-006PLM

322200678 #

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HEALTH & SAFETY SIMPLIFIED

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☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☐ AmeriSci
☐ EMLab (Glendale)
☑ LA Testing

☐ **Routine** (5 Working Days)

☑ **RUSH** (surcharges may apply) Circle One: 6 hours | 24 hours | 48 hours | 3 to 5 days

Project #: 22-Z0046-0002

Sampled by: Matt Barna / Rhys Kuzmic

Site Zip Code: 91770

Sample Date: 1/6/22

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. ~~Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%~~ MH
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Building Name: Classroom Building (G) Room 15+1

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Prefix:2201 0002MB- 83

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Student Homogeneous Location	No.	Quantity	Percent Damaged
79	Student RR NW	Roof Core	Restroom, Breezeway	27	990 sf	0
80	Student RR SW	"	"	"	"	"
81	Breezeway NE	"	"	"	"	"
82	Student RR NW Skylight	Roof Mastic	Student RR, Breezeway	28	10 SF	0
83	Student RR SW Roof Jack	"	"	"	"	"
84	Breezeway NE Flashing	"	"	"	"	"

Notes:

Released By, Date, & Time:	Received By, Date, & Time::	Released By, Date, & Time:
1/10/22 MB 2:20PM	KW(DB) 1/10/22 2:30PM	

OrderID: 322200678

322200678 #

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☐ AmeriSci
☐ EMLab (Glendale)
☒ LA Testing

☐ **Routine** (5 Working Days)

☒ **RUSH** (surcharges may apply)
Circle One: 6 hours | 24 hours | 48 hours | (3 to 5 days)

Project #: 22-Z0046-0002

Sampled by: Matt Barna / Rhys Kuzmic

Site Zip Code: 91770

Sample Date: 1/6/22

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. ~~Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%~~ MF
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Building Name: Classroom Building (H) Room 19+20

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Prefix:2201 0002MB- 38

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
85	Roof NW	Roof Core	Roof and overhang	29		0
86	Roof Center HVAC	"	"	"	"	"
87	Roof 45 overhang	"	"	"	"	"
88	Roof NW Roof Jack	Roof Mastic	Roof HVAC, Conduit Blocks, Roof Jacks	30		0
89	Roof 3/4 Center HVAC	"	"	"	"	"
90	Roof 5 Conduit Block	"	"	"	"	"

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Notes:

Released By, Date, & Time:	Received By, Date, & Time::	Released By, Date, & Time:
1/10/22 MF 2:20PM	KW(DB) 1/10/22 2:30PM	

OrderID: 322200678

322200678#

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☐ AmeriSci
☐ EMLab (Glendale)
☒ LA Testing

☐ **Routine** (5 Working Days)

☑ **RUSH** (surcharges may apply)
Circle One: 6 hours | 24 hours | 48 hours | 3 to 5 days

Project #: 22-Z0046-0002

Sampled by: Matt Barna / Rhys Kuzmic

Site Zip Code: 91770

Sample Date: 1/6/22

Page 16 of 31

Building Name: Staff Restroom

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. ~~Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%~~ MB
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Prefix:22100606-0002MB-

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
91	Roof N	Roof Core	Roof	31	300SF	0
92	Roof NE	〃	〃	〃	〃	〃
93	Roof S	〃	〃	〃	〃	〃
94	Roof N Drain	Roof Mastic	Roof Skylights, Drains, Roof Jacks	32	4SF	0
95	Roof NE Skylight	〃	〃	〃	〃	〃
96	Roof S Roof Jack	〃	〃	〃	〃	〃

Notes:

Released By, Date, & Time:	Received By, Date, & Time::	Released By, Date, & Time:
1/10/22 MB 2:20PM	KW(DB) 1/10/22 2:30PM	

OrderID: 322200678

322200678 #

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☐ AmeriSci
☐ EMLab (Glendale)
☒ LA Testing

☐ **Routine** (5 Working Days)

☑ **RUSH** (surcharges may apply)
Circle One: 6 hours | 24 hours | 48 hours | 3 to 5 days

Project #: 22-Z0046-0002

Sampled by: Matt Barna / Rhys Kuzmic

Site Zip Code: 91770

Sample Date: 1/6/22

Building Name: Staff Restroom

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. ~~Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%~~ MB
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Prefix:2201 0002MB-

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
97	Overhang NW	Roof Core	Overhang	33	60 SF	0
98	Overhang N	〃	〃	〃	〃	〃
99	Overhang NE	〃	〃	〃	〃	〃

Notes:

Released By, Date, & Time:	Received By, Date, & Time:	Released By, Date, & Time:
1/10/22 MB 2:20PM	RW(DB) 1/11/22 2:30PM	

OrderID: 322200678

Rev. 1/19

Form: AL-006PLM

322200678 #

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☐ AmeriSci
☐ EMLab (Glendale)
☒ LA Testing

☐ **Routine** (5 Working Days)

☒ **RUSH** (surcharges may apply)
Circle One: 6 hours | 24 hours | 48 hours | (3 to 5 days)

Project #: 22-Z0046-0002

Sampled by: Matt Barna / Rhys Kuzmic

Site Zip Code: 91770

Sample Date: 1/7/22

Building Name: Covered Walkway 1

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. ~~Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%~~ MB
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
100	Roof NW	Roof Core	CW1	34	300SF	0
101	Roof N	"	"	"	"	"
102	Roof SE	"	"	"	"	"
103	Roof NW Flashings	Roof Mastic	CW1 Flashings, Conduit Blocks, Roof Jacks	35	3SF	0
104	Roof ~~Mastic~~ Conduit S Block	"	"	"	"	"
105	Roof SE Jack	"	"	"	"	"

Prefix:22107 0002MB-

Notes:

Released By, Date, & Time:	Received By, Date, & Time:	Released By, Date, & Time:
1/10/22 2:20PM	KW(DB) 1/10/22 2:30PM	

OrderID: 322200678

322006 78 #

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

Originating Office
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Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☐ AmeriSci
☐ EMLab (Glendale)
☒ LA Testing

☐ Routine (5 Working Days)	☒ RUSH (surcharges may apply) Circle One: 6 hours / 24 hours / 48 hours / 3 to 5 days	Project #: 22-Z0046-0002	Sampled by: Matt Barna / Rhys Kuzmic	Site Zip Code: 91770	Sample Date: 1/7/22	Page 19 of 31

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. ~~Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%~~ MB
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Building Name: Covered Walkway 2

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Prefix:22015 0002MB-

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
106	Roof NW	Roof Core	CW2	36	1400SF	0
107	Roof N	〃	〃	〃	〃	〃
108	Roof SE	〃	〃	〃	〃	〃
109	Roof NW Patch	Roof Mastic	CW2 Patches, Flashings, Conduit Blocks, Roof Jacks	37	14SF	0
110	Roof S Conduit Block	〃	〃	〃	〃	〃
111	Roof E Flashing	〃	〃	〃	〃	〃

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Notes:

Released By, Date, & Time:	Received By, Date, & Time::	Released By, Date, & Time:
1/10/22 MB 2:20PM	KW (OB) 1/14/22 7:30PM	

OrderID: 322006678

322200678 #

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☐ AmeriSci
☐ EMLab (Glendale)
☒ LA Testing

☐ **Routine** (5 Working Days)

☒ **RUSH** (surcharges may apply) Circle One: 6 hours / 24 hours / 48 hours / (3 to 5 days)

Project #: 22-Z0046-0002

Sampled by: Matt Barna / Rhys Kuzmic

Site Zip Code: 91770

Sample Date: 1/7/22

Page 20 of 31

Building Name: Covered Walkway 3

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. ~~Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%~~ MB
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Prefix:22100002MB-

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
112	Roof NW	Roof Core	CW3	38	1150 SF	0
113	Roof E	〃	〃	〃	〃	〃
114	Roof SW	〃	〃	〃	〃	〃
115	Roof N Roof Jack	Roof Master	CW3 Flashings, Patches, HVAC, Roof Jacks	39	125 SF	0
116	Roof NE HVAC Jack	〃	〃	〃	〃	〃
117	Roof SW Flashing	〃	〃	〃	〃	〃

Notes:

Released By, Date, & Time:	Received By, Date, & Time::	Released By, Date, & Time:
1/10/22 MB 2:20PM	KW(DB) 1/10/22 2:30PM	

OrderID: 322200678

Rev. 1/19

Form: AL-006PLM

322006 78

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

Originating Office
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Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☐ AmeriSci
☐ EMLab (Glendale)
☒ LA Testing

☐ **Routine** (5 Working Days)

☑ **RUSH** (surcharges may apply) Circle One: 6 hours | 24 hours | 48 hours | (3 to 5 days)

Project #: 22-Z0046-0002

Sampled by: Matt Barna / Rhys Kuzmic

Site Zip Code: 91770

Sample Date: 1/7/22

Building Name: Covered Walkway 4

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. ~~Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%~~ NB
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Prefix: 22-Z0046-0002MB-

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
118	Roof NW	Roof Core	CW4	40	1850SF	0
119	Roof NE	"	"	"	"	"
120	Roof SE	"	"	"	"	"
121	Roof NW Conduit Block	Roof Mastic	CW4 Conduit Blocks, Flashings, Patches	41	20SF	0
122	Roof NE Flashing	"	"	"	"	"
123	Roof SE Conduit Block	"	"	"	"	"

Notes:

Released By, Date, & Time:	Received By, Date, & Time:	Released By, Date, & Time:
1/10/22 MP 2:20PM	KW (DB) 1/10/22 2:30PM	

OrderID: 322200678

322200678 #

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

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Lab Submitted to:
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☐ EMLab (Glendale)
☒ LA Testing

☐ **Routine** (5 Working Days)

☑ **RUSH** (surcharges may apply) Circle One: 6 hours | 24 hours | 48 hours | (3 to 5 days)

Project #: 22-Z0046-0002

Sampled by: Matt Barna / Rhys Kuzmic

Site Zip Code: 91770

Sample Date: 1/7/22

Page 22 of 31

Building Name: Covered Walkway 5

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. ~~Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%~~ MB
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Prefix:2201 0002MB-

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
124	Roof NE	Roof Core	CWS	42	1700 SF	0
125	Roof SE	"	"	"	"	"
126	Roof SW	"	"	"	"	"
127	Roof NE Patch	Roof Mastic	CWS Flashings, Curbs, Blocks, Patches	43	20 SF	0
128	Roof SE Block	"	"	"	"	"
129	Roof SW flashing	"	"	"	"	"

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Notes:

Released By, Date, & Time:	Received By, Date, & Time::	Released By, Date, & Time:
1/10/22 MB 2:20PM	KW(DB) 1/10/22 2:30PM	

322200678 #

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene Laboratory Submittal
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Fax: 626.441.0016

Lab Submitted to:
☐ AmeriSci
☐ EMLab (Glendale)
☒ LA Testing

☐ **Routine** (5 Working Days)

☒ **RUSH** (surcharges may apply) Circle One: 6 hours | 24 hours | 48 hours | (3 to 5 days)

Project #: 22-Z0046-0002

Sampled by: Matt Barna / Rhys Kuzmic

Site Zip Code: 91770

Sample Date: 1/7/22

Page 23 of 31

Building Name: Covered Walkway 6

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. ~~Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%~~ MB
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Prefix:22010002MB-

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
130	Roof NW	Roof Core	CW6	44	1200 SF	0
131	Roof N	"	"	"	"	"
132	Roof SE	"	"	"	"	"
133	Roof NW Conduit Block	Roof Mastic	CW6 Flashings, Patches, Conduit Blocks	45	125 F	0
134	Roof N Roof Jack	"	Roof Jacks	"	"	"
135	Roof SE Flashing	"	"	"	"	"

Notes:

Released By, Date, & Time:	Received By, Date, & Time:	Released By, Date, & Time:
1/18/22 MB 2:20PM	KW(DB) 1/10/22 2:30PM	

OrderID: 322200678

322200678#

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene Laboratory Submittal
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Fax: 626.441.0016

Lab Submitted to:
☐ AmeriSci
☐ EMLab (Glendale)
☒ LA Testing

☐ **Routine** (5 Working Days)

☒ **RUSH** (surcharges may apply) Circle One: 6 hours | 24 hours | 48 hours | (3 to 5 days)

Project #: 22-Z0046-0002

Sampled by: Matt Barna / Rhys Kuzmic

Site Zip Code: 91770

Sample Date: 1/7/22

Building Name: covered Walkway 7

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. ~~Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%~~ MB
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Prefix:22017-0002MB-

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
136	Roof NE	Roof Core	CW7	46	2550	0
137	Roof E	〃	〃	〃	〃	〃
138	Roof S	〃	〃	〃	〃	〃
139	Roof NE Block conduit	Roof Mastic	CW7 Patches, Flashings, conduit	47	30 SF	0
140	Roof E Patch	〃	Blocks	〃	〃	〃
141	Roof S Conduit Block	〃	〃	〃	〃	〃

Notes:

Released By, Date, & Time:	Received By, Date, & Time::	Released By, Date, & Time:
1/10/22 MB 2:20PM	KW(OB) 1/10/22 2:30PM	

OrderID: 322200678

322200678 #

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

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Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☐ AmeriSci
☐ EMLab (Glendale)
☒ LA Testing

☐ **Routine** (5 Working Days)

☑ **RUSH** (surcharges may apply) Circle One: 6 hours | 24 hours | 48 hours | (3 to 5 days)

Project #: 22-Z0046-0002

Sampled by: Matt Barna / Rhys Kuzmic

Site Zip Code: 91770

Sample Date: 1/7/22

Page 25 of 31

Building Name: Portables

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. ~~Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%~~ MB
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Prefix:2201 67 0002MB-

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
142	Roof NE Roof Jack	Roof Mastic	P40 Roof Jacks	48	3 SF	0
143	Roof NE Roof Jack	"	"	"	"	"
144	Roof NE Roof Jack	"	"	"	"	"
145	Roof NW	Roof Core	P21 Roof	49	1200 SF	0
146	Roof E	"	"	"	"	"
147	Roof S	"	"	"	"	"

Notes:

Released By, Date, & Time:	Received By, Date, & Time::	Released By, Date, & Time:
1/10/22 MB 2:20PM	KW (DB) 1/10/22 2:30PM	

OrderID: 322200678

Rev. 1/19

Form: AL-006PLM

322200678 / 8 #

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☐ AmeriSci
☐ EMLab (Glendale)
☒ LA Testing

☐ Routine (5 Working Days)	☒ RUSH (surcharges may apply) Circle One: 6 hours / 24 hours / 48 hours / 3 to 5 days	Project #: 22-Z0046-0002	Sampled by: Matt Barna / Rhys Kuzmic	Site Zip Code: 91770	Sample Date: 1/7/22	Page 26 of 31

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. ~~Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%~~ MB
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Building Name: Portable P22

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Prefix:2201 0002MB-

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
148	Roof NW	Roof Core	P22 Roof	50	1200SF	0
149	Roof E	〃	〃	〃	〃	〃
150	Roof S	〃	〃	〃	〃	〃
151	Roof N patch	Roof Mastic	P22 Patches	51	12SF	0
152	Roof S patch	〃	〃	〃	〃	〃
153	Roof S patch	〃	〃	〃	〃	〃

Notes:

Released By, Date, & Time:	Received By, Date, & Time::	Released By, Date, & Time:
1/10/22 MB 2:20 PM	KW(OB) 1/10/22 2:30PM	

Form: AL-006PLM

OrderID: 322200678

322200678#

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☐ AmeriSci
☐ EMLab (Glendale)
☒ LA Testing

☐ **Routine** (5 Working Days)

☑ **RUSH** (surcharges may apply)
Circle One: 6 hours | 24 hours | 48 hours | 3 to 5 days

Project #: 22-Z0046-0002

Sampled by: Matt Barna / Rhys Kuzmic

Site Zip Code: 91770

Sample Date: 1/7/22

Building Name: Portable P23

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. ~~Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%~~ MB
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Prefix:2201 07 0002MB-

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
154	Roof NW	Roof Core	P23 Roof	52	1200sf	0
155	Roof E	〃	〃	〃	〃	〃
156	Roof S	〃	〃	〃	〃	〃
157	Roof N Patch	Roof Mastic	P23 Patches	53	32sf	0
158	Roof S patch	〃	〃	〃	〃	〃
159	Roof S Patch	〃	〃	〃	〃	〃

Notes:

Released By, Date, & Time:	Received By, Date, & Time::	Released By, Date, & Time:
1/10/22 MB 2:20PM	KW(DB) 1/10/22 12:30PM	

Form: AL-006PLM

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OrderID: 322200678

322200678

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☐ AmeriSci
☐ EMLab (Glendale)
☒ LA Testing

☐ Routine (5 Working Days)	☒ RUSH (surcharges may apply) Circle One: 6 hours / 24 hours / 48 hours / 3 to 5 days	Project #: 22-Z0046-0002	Sampled by: Matt Barna / Rhys Kuzmic	Site Zip Code: 91770	Sample Date: 1/7/22	Page 28 of 31

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. ~~Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%~~ MB
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Building Name: Portable P24

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Prefix:22010002MB-

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
160	Roof NW	Roof Core	P24 Roof	54	1200sf	0
161	Roof E	〃	〃	〃	〃	〃
162	Roof S	〃	〃	〃	〃	〃
163	Roof N Patch	Roof Mastic	P24 Patches	55	25sf	0
164	Roof S Patch	〃	〃	〃	〃	〃
165	Roof S Patch	〃	〃	〃	〃	〃

Notes:

Released By, Date, & Time:	Received By, Date, & Time:	Released By, Date, & Time:
1/10/22 MB 2:20PM	KW(DB) 1/10/22 2:30PM	

Form: AL-006PLM

322200678 #

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☐ AmeriSci
☐ EMLab (Glendale)
☒ LA Testing

☐ **Routine** (5 Working Days)

☑ **RUSH** (surcharges may apply) Circle One: 6 hours | 24 hours | 48 hours | 3 to 5 days

Project #: 22-Z0046-0002

Sampled by: Matt Barna / Rhys Kuzmic

Site Zip Code: 91770

Sample Date: 1/7/22

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. ~~Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%~~ MS
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Building Name: Portable P25

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Prefix:2201 0002MB- (67)

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
166	Roof NW	Roof Core	P25 Roof	56	1200sf	0
167	Roof E	"	"	"	"	"
168	Roof S	"	"	"	"	"
169	Roof N Patch	Roof Mastic	P25 Patches and Roof Jack	57	25f	0
170	Roof SW ~~Roof~~ Roof Jack	"	"	"	"	"
171	Roof S Patch	"	"	"	"	"

Notes:

Released By, Date, & Time:	Received By, Date, & Time::	Released By, Date, & Time:
1/10/22 MMB 2:20PM	KW(DB) 1/10/22 2:30PM	

OrderID: 322200678

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EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☐ AmeriSci
☐ EMLab (Glendale)
☒ LA Testing

☐ **Routine** (5 Working Days)

☑ **RUSH** (surcharges may apply) Circle One: 6 hours | 24 hours | 48 hours | 3 to 5 days

Project #: 22-Z0046-0002

Sampled by: Matt Barna / Rhys Kuzmic

Site Zip Code: 91770

Sample Date: 1/7/22

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. ~~Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%~~ NA
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Building Name: Portable P28

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
172	Roof E Roof Jack	Roof Mastic	Roof Roof Jacks	58		0
173	Roof E Roof Jack	"	"	"	"	"
174	Roof E Roof Jack	"	"	"	"	"
175	Roof NE	Roof Caulking	Roof	59		0
176	Roof NW	"	"	"	"	"
177	Roof S	"	"	"	"	"

Prefix:220107 0002MB-

Notes:

Released By, Date, & Time:	Received By, Date, & Time::	Released By, Date, & Time:
1/10/22 MB 2:20PM	KW(DB) 1/10/22 2:30PM	

Form: AL-006PLM

OrderID: 322200678

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32200678#

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☐ AmeriSci
☐ EMLab (Glendale)
☒ LA Testing

☐ Routine (5 Working days)

☐ RUSH (surcharges may apply) Circle One: 6 hours | 24 hours | 48 hours | 3 to 5 days

Project #: 22-Z0046-0002

Sampled by: Matt Barna / Rhys Kuzmic

Site Zip Code: 91770

Sample Date: 1/7/22

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. ~~Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%~~ NB
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Building Name: Portables

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☐ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
178	Roof NW	Roof Caulking	P29 Roof	60	5 SF	0
179	Roof NE	"	"	"	"	"
180	Roof S	"	"	"	"	"
181	Roof NW	Roof Caulking	P30 Roof	61	5SF	0
182	Roof NE	"	"	"	"	"
183	Roof S	"	"	"	"	"

Notes:

Relinquished By, Date, & Time:	Received By, Date, & Time:	Released By, Date, & Time:
1/10/22 MB 2:20PM	KW (DB) 1/10/22 2:30PM	

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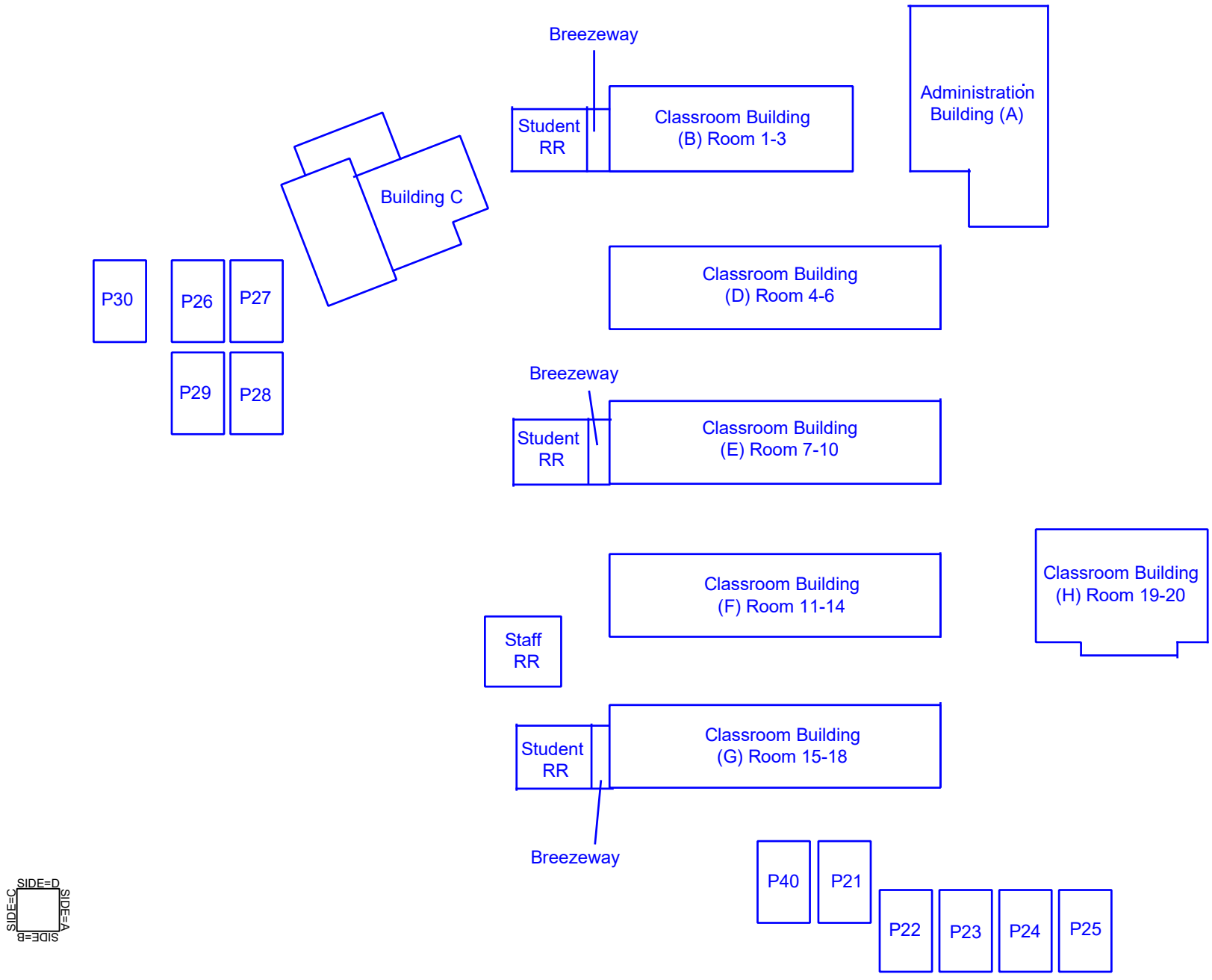
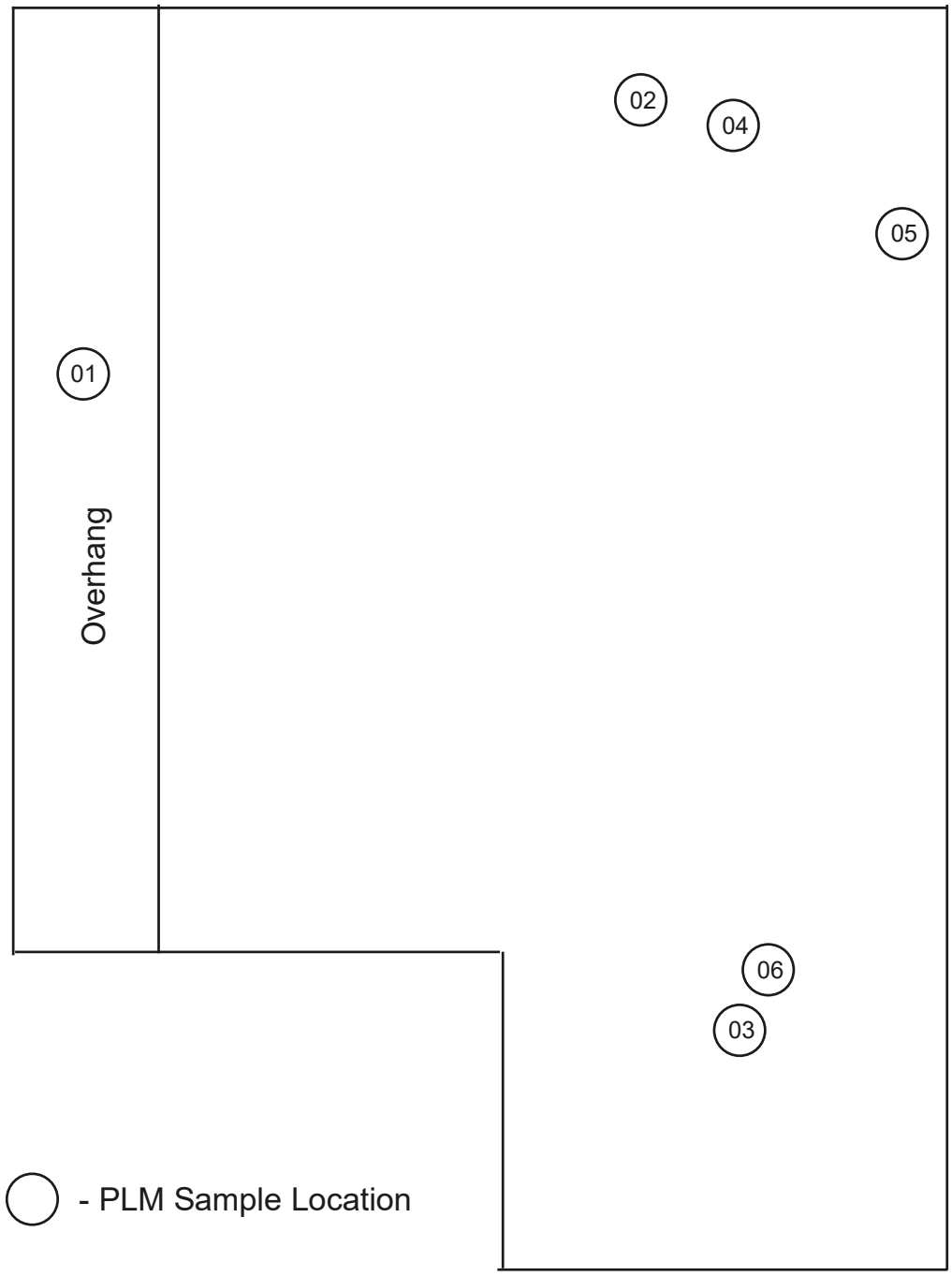
APPENDIX B – SAMPLE/ACM LOCATIONS DRAWING



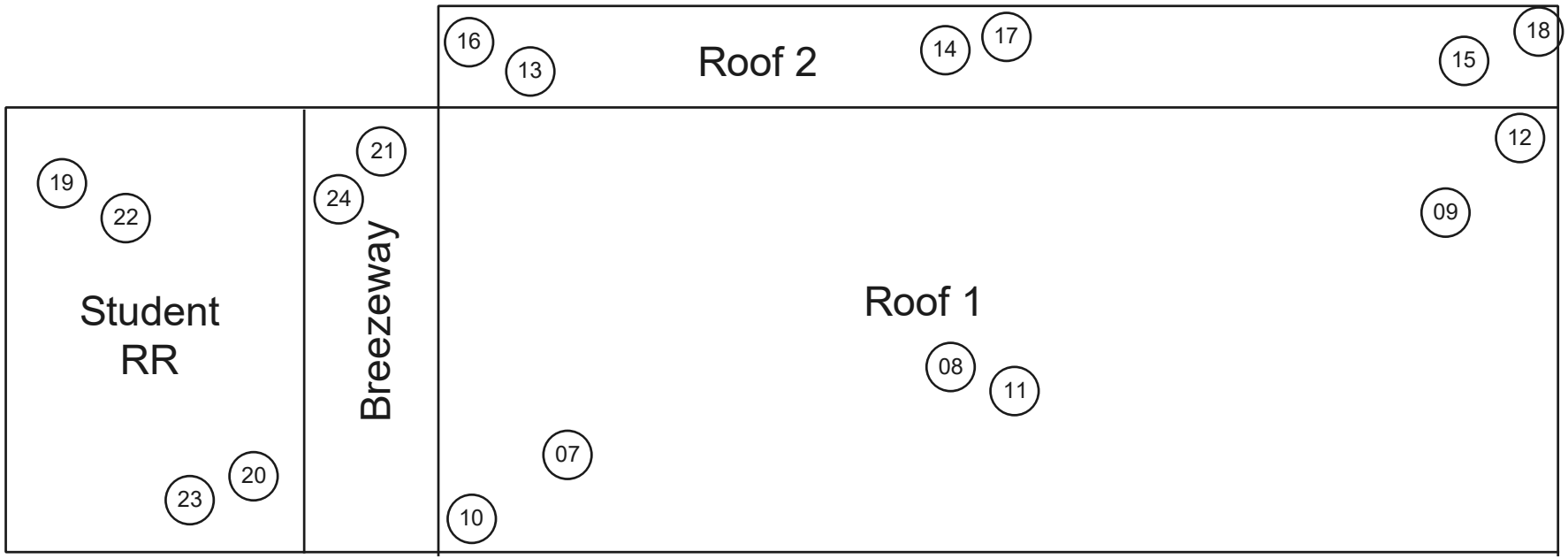
Client: Rosemead School District	**Project #:** 22-Z0046-0002	**Info:** Campus Wide
EXECUTIVE ENVIRONMENTAL HEALTH & SAFETY SIMPLIFIED		**Site:** Encinita Elementary School **Adress:** 4515 Encinita Avenue Rosemead, California 91770

Administration Building (A)
Roof



Client: Rosemead School District	**Project#:** 22-Z0046-0002	**Info:** PLM Sample Location
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Encinita Elementary School - Roofing Project **Address:** 4515 Encinita Avenue Rosemead, California 91770

Classroom Building (B)
(Classrooms 1 through 3)
Roof

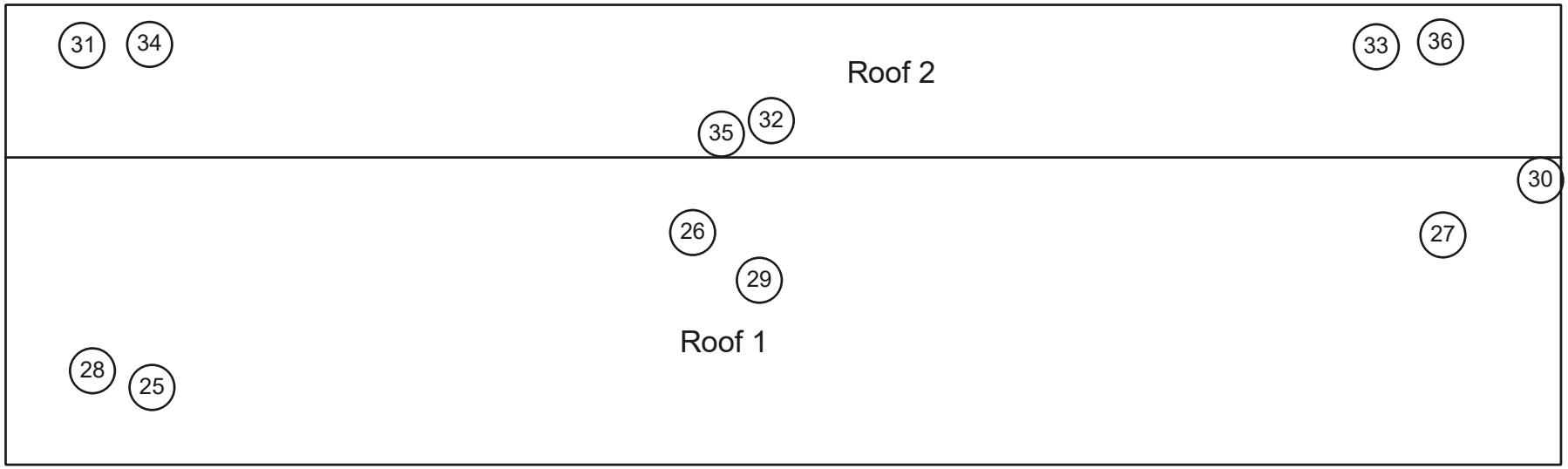


◯ - PLM Sample Location

N

Client: Rosemead School District	**Project #:** 22-Z0046-0002	**Info:** PLM Sample Location
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Encinita Elementary School - Painting Project **Adress:** 4515 Encinita Avenue Rosemead, California 91770

Classroom Building (D)
(Classrooms 4 through 6)
Roof

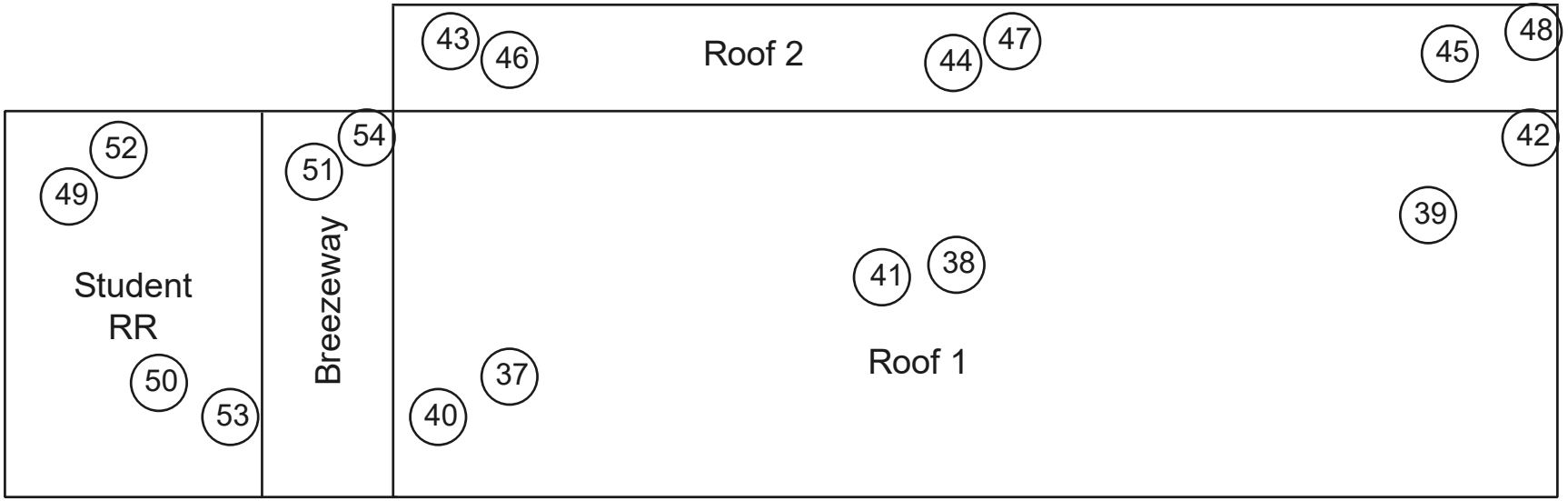


◯ - PLM Sample Location

N

Client: Rosemead School District	**Project #:** 22-Z0046-0002	**Info:** PLM Sample Location
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Encinita Elementary School **Adress:** 4515 Encinita Avenue Rosemead, California 91770

Classroom Building (E)
(Classroom 7 through 10)
Roof

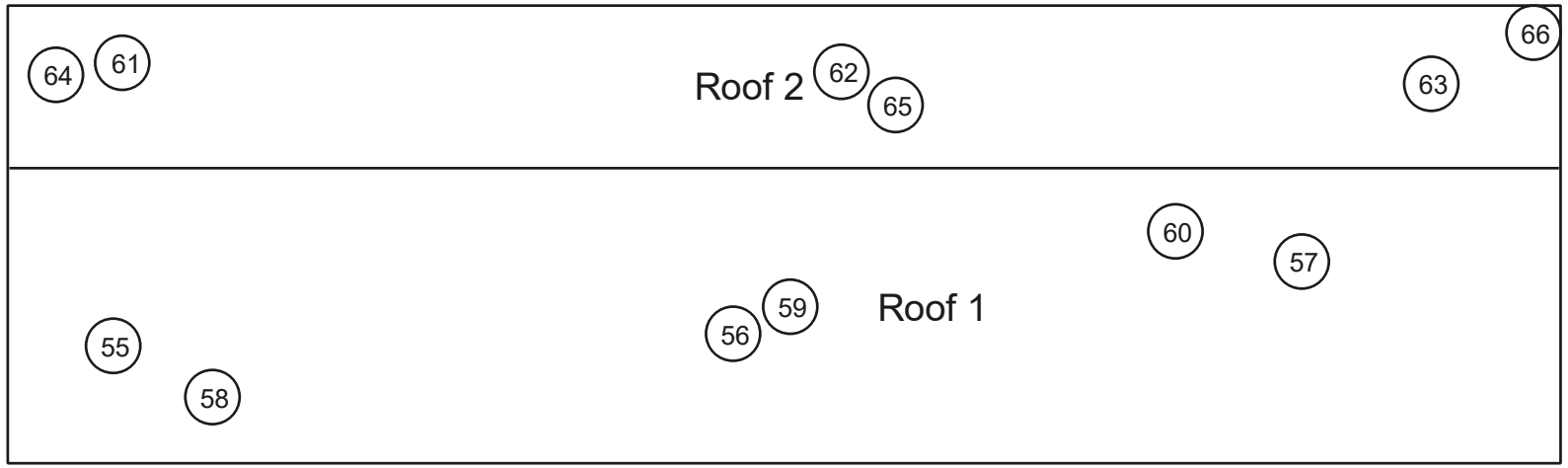


- PLM Sample Location

N

Client: Rosemead School District	**Project #:** 22-Z0046-0002	**Info:** PLM Sample Location
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Encinita Elementary School **Adress:** 4515 Encinita Avenue Rosemead, California 91770

Classroom Building (F)
(Classroom 11 through 14)
Roof

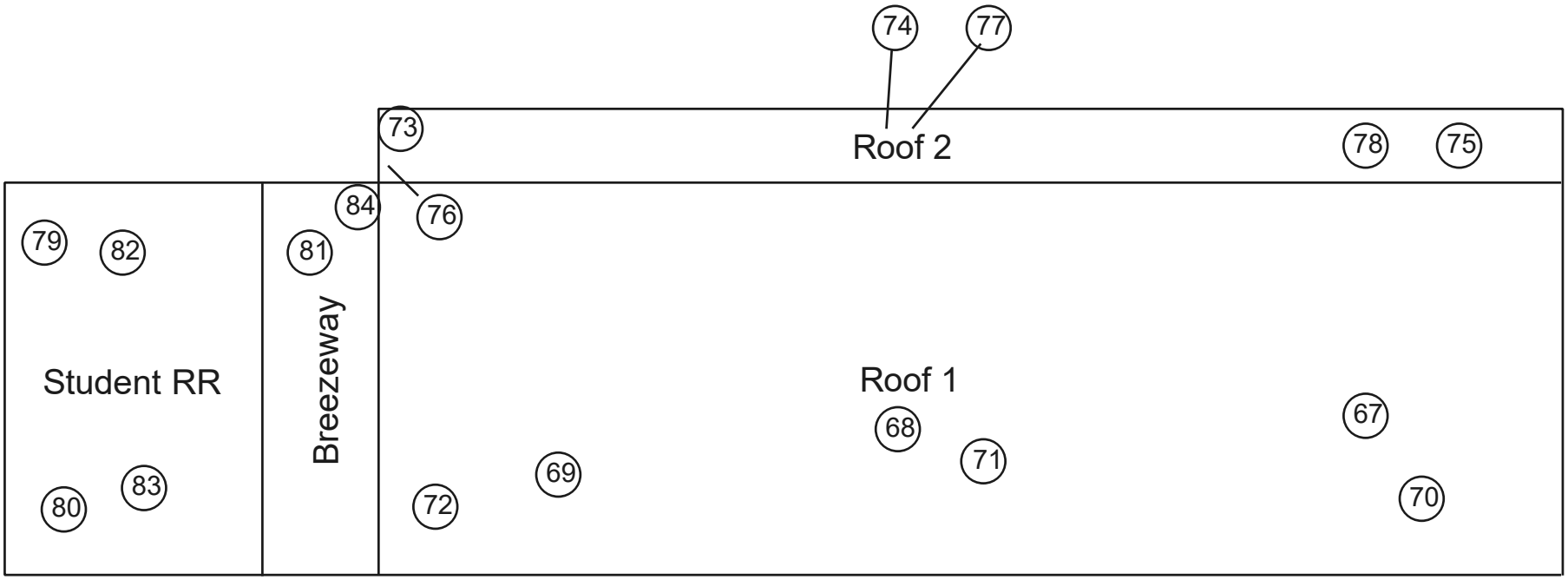


○ - PLM Sample Location

N

Client: Rosemead School District	**Project #:** 22-Z0046-0002	**Info:** PLM Sample Location
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Encinita Elementary School **Adress:** 4515 Encinita Avenue Rosemead, California 91770

Classroom Building (G)
(Classroom 15 through 18)
Roof



◯ - PLM Sample Location

N

Client: Rosemead School District	**Project #:** 22-Z0046-0002	**Info:** PLM Sample Location
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Encinita Elementary School **Adress:** 4515 Encinita Avenue Rosemead, California 91770

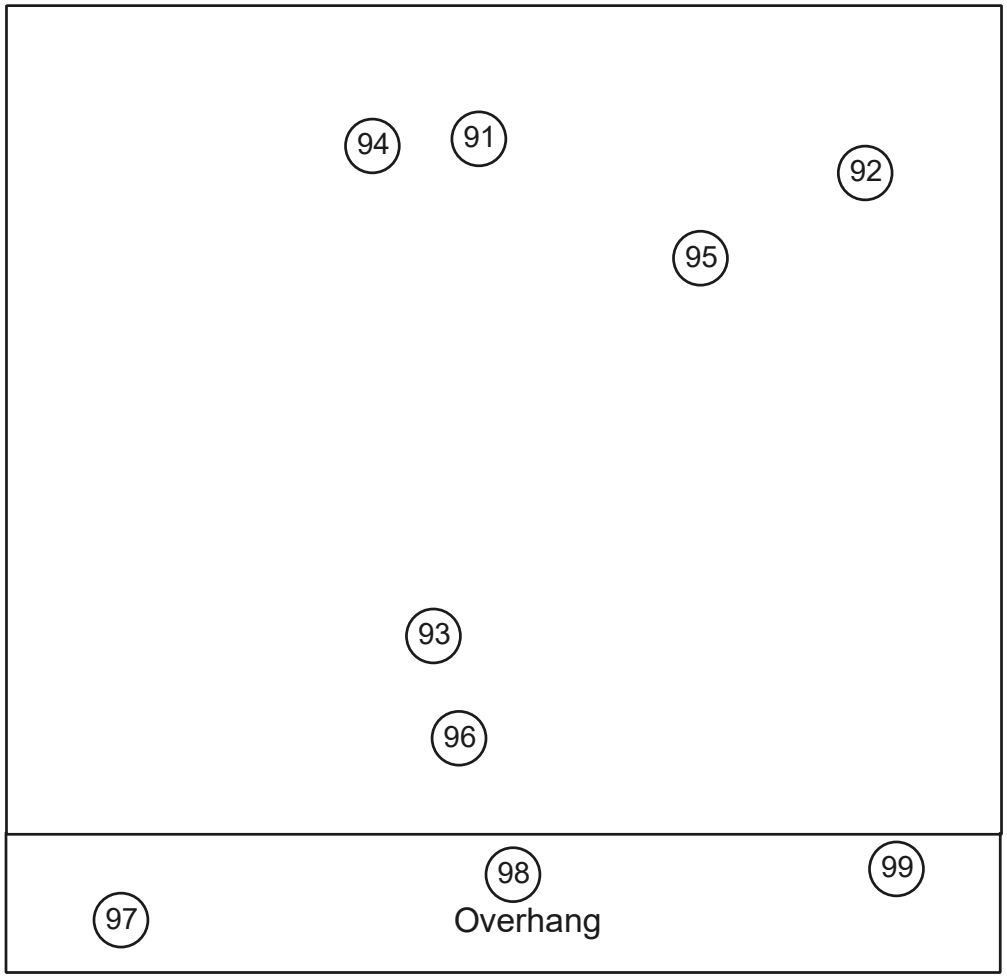
Classroom Building (H)
(Classrooms 19 through 20)
Roof

◯ - PLM Sample Location

N

Client: Rosemead School District	**Project #:** 22-Z0046-0002	**Info:** PLM Sample Location
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Encinita Elementary School **Adress:** 4515 Encinita Avenue Rosemead, California 91770

Staff Restroom Building

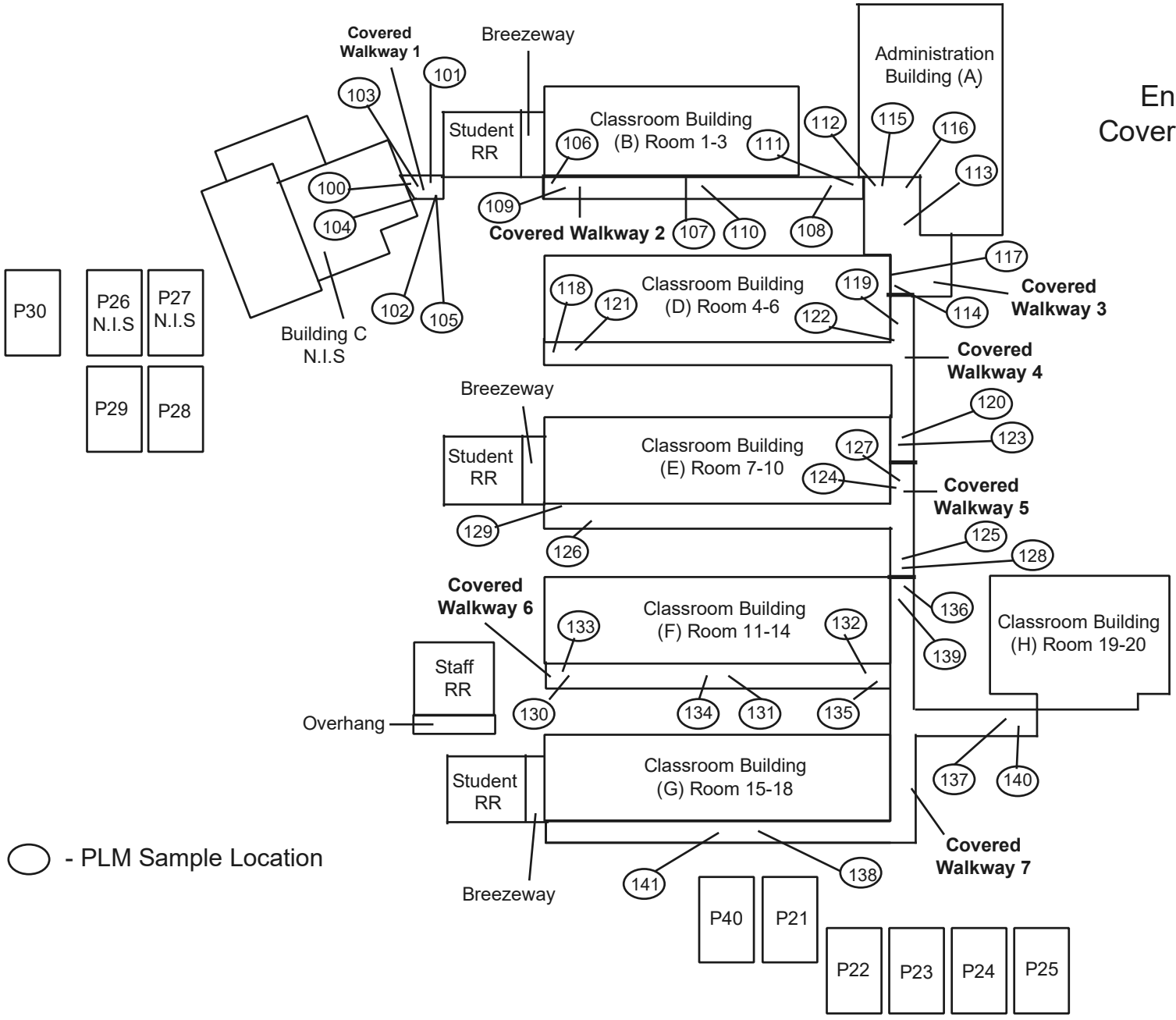


○ - PLM Sample Location

N

Client: Rosemead School District	**Project #:** 22-Z0046-0002	**Info:** PLM Sample Location
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Encinita Elementary School **Adress:** 4515 Encinita Avenue Rosemead, California 91770

Encinitas ES
Covered Walkways

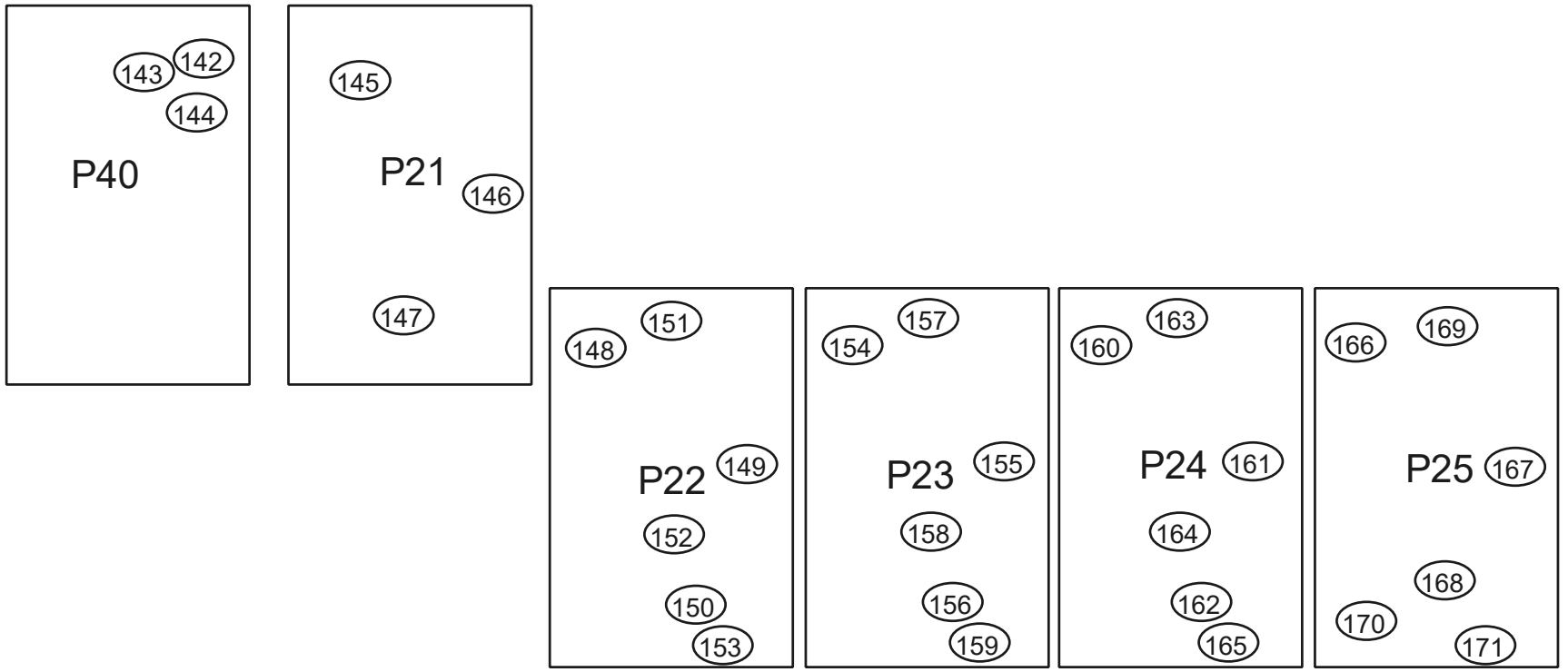


Client: Rosemead School District	**Project #:** 22-Z0046-0002	**Info:** PLM Sample Location

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Site: Encinita Elementary School
Adress: 4515 Encinita Avenue
Rosemead, California 91770

Portables
Roof

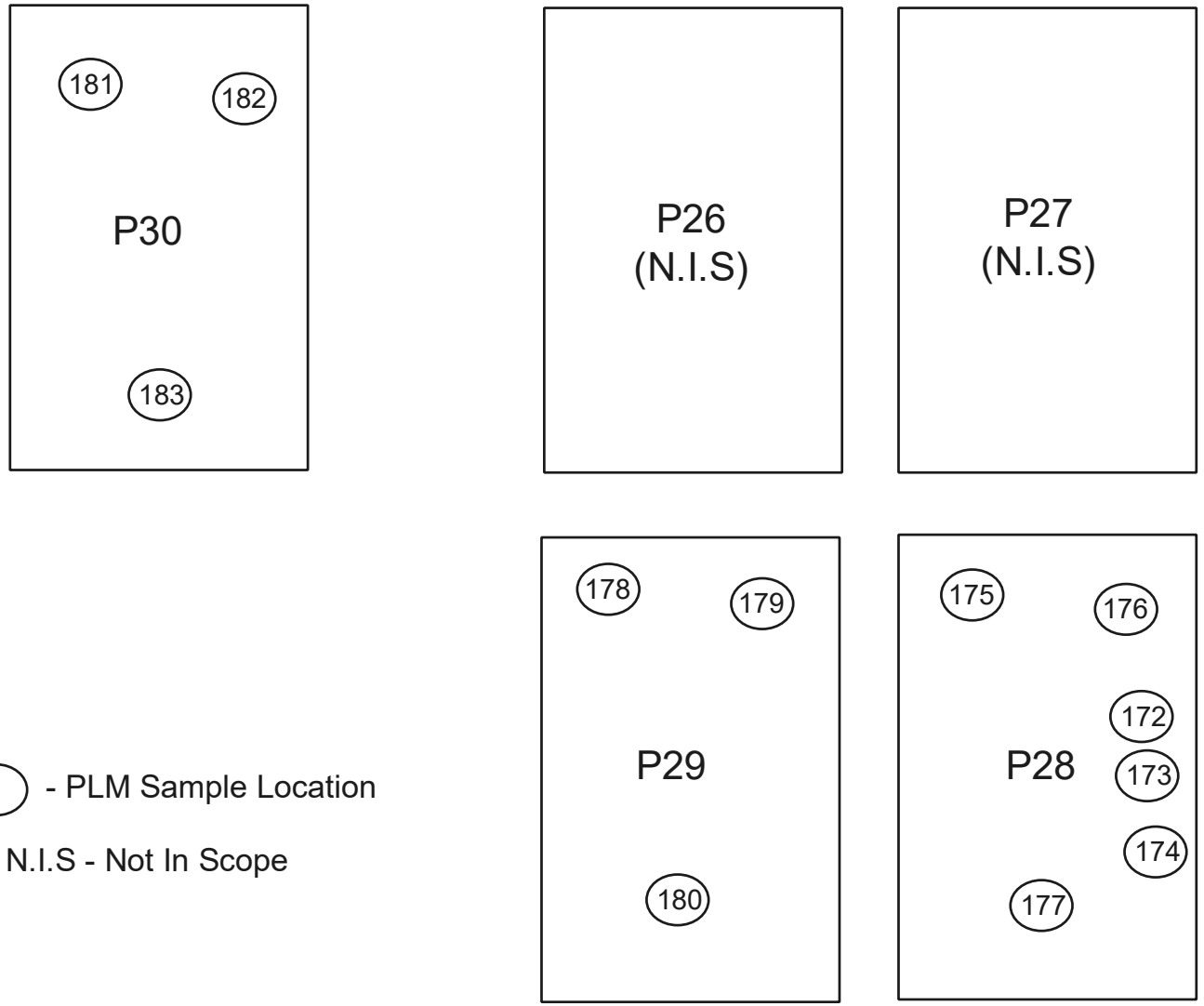


⬭ - PLM Sample Location

N

Client: Rosemead School District	**Project #:** 22-Z0046-0002	**Info:** PLM Sample Location
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Encinita Elementary School **Adress:** 4515 Encinita Avenue Rosemead, California 91770

Portables
Roof



- PLM Sample Location

N.I.S - Not In Scope

Client: Rosemead School District	**Project #:** 22-Z0046-0002	**Info:** PLM Sample Location
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Encinita Elementary School **Adress:** 4515 Encinita Avenue Rosemead, California 91770

APPENDIX C – STAFF CERTIFICATION

State of California
Division of Occupational Safety and Health

Certified Site Surveillance Technician

Matthew C Barna
Name

Certification No. 19-6738

Expires on 01/15/23

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

APPENDIX D – EE'S ASBESTOS REPORT NO. 20-Z0046-0027, DATED JANUARY 2020

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene • Air Quality • Lead & Asbestos • Training • Health & Safety

LIMITED ASBESTOS INSPECTION REPORT

Conducted at:

ENCINITA ELEMENTARY SCHOOL
PAINTING PROJECT
4515 ENCINITA AVENUE
ROSEMEAD, CALIFORNIA 91770

Prepared for:

MR. HAROLD SULLINS
ASSISTANT SUPERINTENDENT
ROSEMEAD SCHOOL DISTRICT
3907 ROSEMEAD BOULEVARD, SUITE 220
ROSEMEAD, CALIFORNIA 91770

Prepared by:

EXECUTIVE ENVIRONMENTAL
310 EAST FOOTHILL BOULEVARD, SUITE 200
ARCADIA, CALIFORNIA 91006

Project Number EE 20-Z0046-0027
February 26, 2020

Report assembled by:

Yesenia G. Galeana
Technical Report Writer
Executive Environmental

Report generated/reviewed by:

Tim Galeana, CAC# 98-2470
Senior Project Manager
Executive Environmental

TABLE OF CONTENTS

LIMITED ASBESTOS INSPECTION REPORT

Project Number:	EE 20-Z0046-0027
Client:	Rosemead School District 3907 Rosemead Boulevard, Suite 220 Rosemead, California 91770
Site Location:	Encinita Elementary School Exterior Painting Project 4515 Encinita Avenue Rosemead, California 91770
Site Use:	School Property
Contact Person:	Mr. Harold Sullins Assistant Superintendent Phone: (626) 312-2900
Inspection Date:	February 6 and 7, 2020
Inspected By:	Mr. Rhys Kuzmic Certified Asbestos Consultant, # 09-4586
Report Assembled By:	Ms. Yesenia G. Galeana Technical Report Writer
Report Generated/Reviewed By:	Mr. Tim Galeana Certified Asbestos Consultant, # 98-2470

I. EXECUTIVE SUMMARY

Executive Environmental (EE) provided the services of a Certified Asbestos Consultant to conduct a limited asbestos inspection of the permanent buildings, portables and covered walkways at Encinita Elementary School located at 4515 Encinita Avenue, Rosemead, California. The inspection was conducted as a precursor to the upcoming exterior painting project. Materials suspected of containing asbestos were sampled and analyzed for the presence of asbestos. No Asbestos-Containing Materials (ACM) were identified during this inspection. *This is considered to be a limited inspection. Inspection was limited to exterior materials anticipated to be impacted by the exterior painting project.*

II. SAMPLING METHODOLOGY

A visual inspection of the exterior of the permanent buildings, portables and covered walkways at Encinita Elementary School was conducted prior to the collection of any bulk samples. The visual inspection was conducted to identify and record the location and condition of the materials to be sampled. Following the visual inspection, bulk material samples of the identified suspect asbestos-containing building materials were

collected. The materials were categorized into homogeneous groupings, and each sample was assigned a unique sample number and placed into a sealed container.

Upon completion of the bulk sample collection, a chain of custody was prepared and the samples were delivered to the laboratory for analysis. AmeriSci of Carson, CA, analyzed the samples using Polarized Light Microscopy (PLM). AmeriSci is an accredited participant in the National Voluntary Laboratory Accreditation Program (NVLAP), No. 200346-0. The principles described in the current Environmental Protection Agency (EPA) 600 method were used in the preparation and analysis of the bulk samples.

Note: Inaccessible suspect asbestos materials may be located within sealed ceilings, walls, or floors; or within wall cavities, interstitials, shafts, etc. Suspect asbestos materials located in these areas must be sampled prior to any activities that might cause them to be disturbed.

III. SAMPLE ANALYSIS

Fifty-seven (57) samples were collected during this inspection. The laboratory analysis results are identified in the following table. Materials determined not to contain asbestos are listed as "No Asbestos Detected" (NAD).

Any material found to contain more than 1% of a known asbestos substance is considered to be an asbestos-containing material (ACM). Materials falling within this category are controlled and must be handled in accordance with the California Occupational Safety & Health Administration (Cal/OSHA), EPA, and South Coast Air Quality Management District (SCAQMD) regulations.

In addition, materials which are characterized as non-ACM by EPA or other local regulatory agencies may fall within the regulatory standards of Cal/OSHA, which further regulates any materials found to contain more than 1/10 of 1%, but 1% or less, of a known asbestos substance as asbestos-containing construction materials (ACCMs). Impacting or handling ACCMs requires special employer registration, documentation, training, and personal protective equipment. When a material is to be impacted, the National Emission Standards for Hazardous Air Pollutants (NESHAPs) regulations require further testing for materials that fall within this category.

The PLM analytical protocol requires each layer of the sample to be analyzed separately. The quantity of analyses will vary based on the number of layers in a sample and whether a "positive stop" is employed. When one sample of a homogeneous area is positive, the remainder of the samples need not be analyzed because the entire homogeneous area must be considered positive.

Sampling results begin on the next page.
The remainder of this page is blank.

POLARIZED LIGHT MICROSCOPY (PLM) ANALYSIS DATA

Encinita Elementary School
4515 Encinita Avenue
Rosemead, California 91770

Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Condition[A]	Type[B]	Friable	Percent Damaged	Sample Number	Sample Location	Analytical Results
Building A (Administration Building)[C]										
1	Stucco	Throughout exterior walls	2,500 Square Feet	G	Surf.	No	0	2002060027RK-01	North wall, east end	NAD[D]
								2002060027RK-02	West wall	NAD
								2002060027RK-03	South wall, west end	NAD
								2002060027RK-04	West wall, south end	NAD
								2002060027RK-05	South wall, east end	NAD
Building B (Classrooms 1 thru 3/Restroom)[E]										
2	Stucco	Throughout exterior walls and breezeway ceiling	2,500 Square Feet	G	Surf.	No	0	2002060027RK-06	South wall, east end	NAD
								2002060027RK-07	West wall	NAD
								2002060027RK-08	Breezeway ceiling	NAD
								2002060027RK-09	West wall of Student restroom	NAD
								2002060027RK-10	East wall	NAD

Note: This table must be used in conjunction with the entire report. This document is not to be used for contract bidding and is intended to be used to identify asbestos-containing materials and their locations only.

[A] G = Good; D = Damaged; SD = Severely Damaged
[B] Misc. = Miscellaneous; Surf. = Surfacing; TSI = Thermal System Insulation
[C] NOTE: 1) No window putty.
[D] NAD = No Asbestos Detected.
[E] NOTE: 1) No window putty.

POLARIZED LIGHT MICROSCOPY (PLM) ANALYSIS DATA

Encinita Elementary School
4515 Encinita Avenue
Rosemead, California 91770

Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Condition[F]	Type[G]	Friable	Percent Damaged	Sample Number	Sample Location	Analytical Results
Building C (Multi-Purpose Building)[H]										
3	Stucco	Throughout exterior walls and overhangs	5,000 Square Feet	G	Surf.	No	0	2002060027RK-11	Northeast overhang ceiling	NAD[I]
								2002060027RK-12	East wall of Kitchen	NAD
								2002060027RK-13	East upper wall at roof	NAD
								2002060027RK-14	South wall near southeast entry	NAD
								2002060027RK-15	South wall	NAD
								2002060027RK-16	West wall, south end	NAD
								2002060027RK-17	West wall, north end	NAD
Building D (Classrooms 4 thru 6)[J]										
4	Stucco	Throughout exterior walls	2,000 Square Feet	G	Surf.	No	0	2002060027RK-18	East wall, south end	NAD
								2002060027RK-19	South wall	NAD
								2002060027RK-20	West wall, south end	NAD
								2002060027RK-21	North wall, west end	NAD
								2002060027RK-22	East wall	NAD

Note: This table must be used in conjunction with the entire report. This document is not to be used for contract bidding and is intended to be used to identify asbestos-containing materials and their locations only.

[F] G = Good; D = Damaged; SD = Severely Damaged
[G] Misc. = Miscellaneous; Surf. = Surfacing; TSI = Thermal System Insulation
[H] NOTE: 1) No window putty.
[I] NAD = No Asbestos Detected.
[J] NOTE: 1) No window putty.

POLARIZED LIGHT MICROSCOPY (PLM) ANALYSIS DATA

Encinita Elementary School
4515 Encinita Avenue
Rosemead, California 91770

Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Condition[K]	Type[L]	Friable	Percent Damaged	Sample Number	Sample Location	Analytical Results
Building E (Classrooms 7 thru 10/Restroom)[M]										
5	Stucco	Throughout exterior walls and Breezeway ceilings	2,500 Square Feet	G	Surf.	No	0	2002060027RK-23	East wall, north end	NAD[N]
								2002060027RK-24	South wall	NAD
								2002060027RK-25	West wall of Student restroom	NAD
								2002060027RK-26	Breezeway ceiling, northwest	NAD
								2002060027RK-27	North wall, west end	NAD
Building F (Classrooms 11 thru 14)[O]										
6	Stucco	Throughout exterior walls	2,000 Square Feet	G	Surf.	No	0	2002070027RK-28	East wall, north end	NAD
								2002070027RK-29	South wall, east end	NAD
								2002070027RK-30	South wall	NAD
								2002070027RK-31	West wall, south end	NAD
								2002070027RK-32	North wall, west end	NAD

Note: This table must be used in conjunction with the entire report. This document is not to be used for contract bidding and is intended to be used to identify asbestos-containing materials and their locations only.

[K] G = Good; D = Damaged; SD = Severely Damaged
[L] Misc. = Miscellaneous; Surf. = Surfacing; TSI = Thermal System Insulation
[M] NOTE: 1) No window putty.
[N] NAD = No Asbestos Detected.
[O] NOTE: 1) No window putty.

POLARIZED LIGHT MICROSCOPY (PLM) ANALYSIS DATA

Encinita Elementary School
4515 Encinita Avenue
Rosemead, California 91770

Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Condition[P]	Type[Q]	Friable	Percent Damaged	Sample Number	Sample Location	Analytical Results
Building G (Classrooms 15 thru 18/Restroom)[R]										
7	Stucco	Throughout exterior walls and Breezeway ceilings	2,500 Square Feet	G	Surf.	No	0	2002070027RK-33	East wall, north end	NAD[S]
								2002070027RK-34	South wall, east end	NAD
								2002070027RK-35	West wall of Student restroom	NAD
								2002070027RK-36	Breezeway ceiling, southeast	NAD
								2002070027RK-37	West wall of Room, 18, north end	NAD
Building H (Classrooms 19 thru 20)										
8	Stucco	Throughout exterior walls	1,500 Square Feet	G	Surf.	No	0	2002070027RK-38	South wall, west end	NAD
								2002070027RK-39	West wall, south end	NAD
								2002070027RK-40	West	NAD
								2002070027RK-41	North wall, west end	NAD
								2002070027RK-42	East wall, north end	NAD
9	Window putty	Throughout exterior windows	330 Linear Feet	G	Misc.	No	<1	2002070027RK-43	West	NAD
								2002070027RK-44	West wall, south end	NAD
								2002070027RK-45	North	NAD

Note: This table must be used in conjunction with the entire report. This document is not to be used for contract bidding and is intended to be used to identify asbestos-containing materials and their locations only.

[P] G = Good; D = Damaged; SD = Severely Damaged
[Q] Misc. = Miscellaneous; Surf. = Surfacing; TSI = Thermal System Insulation
[R] NOTE: 1) No window putty.
[S] NAD = No Asbestos Detected.

POLARIZED LIGHT MICROSCOPY (PLM) ANALYSIS DATA

Encinita Elementary School
4515 Encinita Avenue
Rosemead, California 91770

Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Condition[T]	Type[U]	Friable	Percent Damaged	Sample Number	Sample Location	Analytical Results
Staff Restroom Building[V]										
9	Stucco	Throughout exterior walls and overhangs	700 Square Feet	G	Surf.	No	0	2002070027RK-46	West	NAD[W]
								2002070027RK-47	North	NAD
								2002070027RK-48	Overhang, southeast	NAD
Covered Walkways[X]										
10	Stucco	Covered walkway no. 2 ceilings	450 Square Feet	G	Surf.	No	0	2002070027RK-49	Northwest	NAD
								2002070027RK-50	West	NAD
								2002070027RK-51	Southwest	NAD
10	Stucco	Covered walkway no. 3 ceilings	900 Square Feet	G	Surf.	No	0	2002070027RK-52	Northwest	NAD
								2002070027RK-53	West	NAD
								2002070027RK-54	Southwest	NAD
11	Stucco	Covered walkway no. 9 ceilings	470 Square Feet	G	Surf.	No	0	2002070027RK-55	Southwest	NAD
								2002070027RK-56	South	NAD
								2002070027RK-57	Southeast	NAD
Portables[Y]										
No suspect asbestos-containing materials were identified on the exterior walls or windows of the Portables P21, P22, P23, P24, P25, P26, P27, P28, P29, P30 and P40.										

Note: This table must be used in conjunction with the entire report. This document is not to be used for contract bidding and is intended to be used to identify asbestos-containing materials and their locations only

[T] G = Good; D = Damaged; SD = Severely Damaged
[U] Misc. = Miscellaneous; Surf. = Surfacing; TSI = Thermal System Insulation
[V] NOTE: 1) No window putty.
[W] NAD = No Asbestos Detected.
[X] NOTE: 1) Covered walkways no. 1, 4, 5, 6, 7, 8 and 10 have wood ceilings and metal poles.
[Y] NOTE: 1) Portables P21, P22, P23, P24, P25, P26, P27, P28, P29, P30 and P40 have exterior wood walls and no window putty.

IV. FINDINGS

EE conducted a limited asbestos inspection of the permanent buildings, portables and covered walkways at Encinita Elementary School located at 4515 Encinita Avenue, Rosemead, California.

Eleven (11) homogeneous material groups were identified during the visual property inspection. Fifty-seven (57) samples of suspect asbestos-containing materials were collected and delivered to AmeriSci of Carson, for analysis. The homogeneous area and sampling results are listed on the table in Section III.

The analytical data revealed that the sampled materials do not contain asbestos.

V. CONCLUSIONS/RECOMMENDATIONS

No asbestos-containing materials were identified during this inspection. Activities involving the inspected materials may proceed as normal construction actions. If suspect asbestos materials that were not sampled are to be disturbed, additional sampling will be required

If you have any questions, please call Mr. Tim Galeana at 626-441-7050. We are glad we could be of service to you.

VI. DISCLAIMER/REPORT LIMITATIONS

All reports and recommendations are based on conditions and practices observed and information made available to Executive Environmental (EE) by the client and the designated sites/facilities on the days sampling was conducted. This report does not purport to set forth all hazards, nor to indicate that other hazards do not exist. No responsibility is assumed by EE for the control or correction of conditions or practices existing at the facilities, or at any other premises surveyed by EE, for and on the behalf of the client. Services provided by EE shall be governed by the standard of practice for professional services measured at the time those services are rendered.

All information contained in this report is proprietary and limited to the scope of services, parameters of the analytical methods used and the conditions present at the time of this inspection. Any references to quantities are considered estimates and are not to be construed as actual.

APPENDIX A – LABORATORY ANALYSIS REPORT

Please Reply To:

AmeriSci Los Angeles
24416 S. Main Street, Ste 308
Carson, California 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

FACSIMILE TELECOPY TRANSMISSION

To:	Yesenia Galeana Executive Environmental Services Corporation	**From:**	Wesene Sebhat
		AmeriSci Job #:	920021185
Fax #:		**Subject:**	PLM 5 day Results
		Client Project:	20-Z0046-0027; A Administration, B Classroom Bldg Rooms 1-3, C MPR, D Classroom
Email:	info@execenv.com,ygaleana@execenv.com		

Date: Saturday, February 15, 2020
Time: 07:22:20
Comments:

Number of Pages: 22 (including cover sheet)

AmeriSci Los Angeles
24416 S. Main Street, Ste 308
Carson, California 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

PLM Bulk Asbestos Report

Executive Environmental Services Corpo
Attn: Yesenia Galeana
310 East Foothill Blvd.
Suite 200
Arcadia, CA 91006

Date Received 02/10/20
Date Examined 02/13/20

AmeriSci Job # 920021185
P.O. #

RE: 20-Z0046-0027; A Administration, B Classroom Bldg Rooms 1-3, C MPR, D Classroom Bldg Rooms 4-6, E Classroom Bldg Rooms 7-10, F Classroom Bldg Rooms 11-14, G Classroom Bldg Rooms 15-18, H Classroom Bldg Rooms 19-20, Staff Restroom Bldg, Covered Walkways

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2002060027RK-01	920021185-01	*No*	NAD (by CVES) by Wesene Sebhat on 02/13/20
Location: Exterior, North Wall - East End / Exterior Stucco / To Exterior Walls			
Analyst Description: Grey/White, Heterogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2002060027RK-02	920021185-02	*No*	NAD (by CVES) by Wesene Sebhat on 02/13/20
Location: Exterior, West Wall / Exterior Stucco			
Analyst Description: Off-White, Heterogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2002060027RK-03	920021185-03	*No*	NAD (by CVES) by Wesene Sebhat on 02/13/20
Location: Exterior, South Wall-West End / Exterior Stucco			
Analyst Description: Off-White, Heterogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2002060027RK-04	920021185-04	*No*	NAD (by CVES) by Wesene Sebhat on 02/13/20
Location: Exterior, West Wall-South End			
Analyst Description: Off-White, Heterogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2002060027RK-05	920021185-05	*No*	NAD (by CVES) by Wesene Sebhat on 02/13/20
Location: Exterior, South Wall-East End			
Analyst Description: Off-White, Heterogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

20-Z0046-0027; A Administration, B Classroom Bldg Rooms 1-3, C MPR, D Classroom Bldg Rooms 4-6, E Classroom Bldg Rooms 7-10, F Classroom Bldg Rooms 11-14, G Classroom Bldg Rooms 15-18, H Classroom Bldg Rooms 19-20, Staff Restroom Bldg, Covered Walkways

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2002060027RK-06	920021185-06	*No*	NAD (by CVES) by Wesene Sebhat on 02/13/20
Location: Exterior, South Wall-East End / Exterior Stucco / T-O Exterior Walls And Breezeway Ceiling			
Analyst Description: Grey/White, Heterogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2002060027RK-07	920021185-07	*No*	NAD (by CVES) by Wesene Sebhat on 02/13/20
Location: Exterior, West Wall / Exterior Stucco			
Analyst Description: Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2002060027RK-08	920021185-08	*No*	NAD (by CVES) by Wesene Sebhat on 02/13/20
Location: Exterior, Breezeway Ceiling / Exterior Stucco			
Analyst Description: Off-White, Heterogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2002060027RK-09	920021185-09	*No*	NAD (by CVES) by Wesene Sebhat on 02/13/20
Location: Exterior, West Wall Of Student Restroom / Exterior Stucco			
Analyst Description: Grey/White, Heterogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2002060027RK-10	920021185-10	*No*	NAD (by CVES) by Wesene Sebhat on 02/13/20
Location: Exterior, East Wall / Exterior Stucco			
Analyst Description: Grey/White, Heterogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2002060027RK-11	920021185-11	*No*	NAD (by CVES) by Wesene Sebhat on 02/13/20
Location: Exterior, NE Overhang Ceiling / Exterior Stucco / T-O Exterior Walls And Overhangs			
Analyst Description: Grey/White, Heterogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

20-Z0046-0027; A Administration, B Classroom Bldg Rooms 1-3, C MPR, D Classroom Bldg Rooms 4-6, E Classroom Bldg Rooms 7-10, F Classroom Bldg Rooms 11-14, G Classroom Bldg Rooms 15-18, H Classroom Bldg Rooms 19-20, Staff Restroom Bldg, Covered Walkways

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2002060027RK-12	920021185-12	*No*	NAD (by CVES) by Wesene Sebhat on 02/13/20
Location: Exterior, East Wall Of Kitchen / Exterior Stucco			
Analyst Description: Grey/White, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2002060027RK-13	920021185-13	*No*	NAD (by CVES) by Wesene Sebhat on 02/13/20
Location: Exterior, East Upper Wall At Roof / Exterior Stucco			
Analyst Description: Grey/White, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2002060027RK-14	920021185-14	*No*	NAD (by CVES) by Wesene Sebhat on 02/13/20
Location: Exterior, South Wall Near SE Entry			
Analyst Description: Grey/White, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2002060027RK-15	920021185-15	*No*	NAD (by CVES) by Wesene Sebhat on 02/13/20
Location: Exterior, South Wall / Exterior Stucco			
Analyst Description: Grey/White, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2002060027RK-16	920021185-16	*No*	NAD (by CVES) by Wesene Sebhat on 02/13/20
Location: Exterior, West Wall-South End / Exterior Stucco			
Analyst Description: Grey/White, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2002060027RK-17	920021185-17	*No*	NAD (by CVES) by Wesene Sebhat on 02/13/20
Location: Exterior, West Wall-North End			
Analyst Description: White, Heterogeneous, Non-Fibrous, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

20-Z0046-0027; A Administration, B Classroom Bldg Rooms 1-3, C MPR, D Classroom Bldg Rooms 4-6, E Classroom Bldg Rooms 7-10, F Classroom Bldg Rooms 11-14, G Classroom Bldg Rooms 15-18, H Classroom Bldg Rooms 19-20, Staff Restroom Bldg, Covered Walkways

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2002060027RK-18	920021185-18	*No*	NAD (by CVES) by Kristina Martinez on 02/14/20
Location: Exterior, East Wall-South End / Exterior Stucco/ T-O Exterior			
Analyst Description: White/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2002060027RK-19	920021185-19	*No*	NAD (by CVES) by Kristina Martinez on 02/14/20
Location: Exterior, South Wall / Exterior Stucco			
Analyst Description: White/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2002060027RK-20	920021185-20	*No*	NAD (by CVES) by Kristina Martinez on 02/14/20
Location: Exterior, West Wall-South End / Exterior Stucco			
Analyst Description: Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2002060027RK-21	920021185-21	*No*	NAD (by CVES) by Kristina Martinez on 02/14/20
Location: Exterior, North Wall-West End / Exterior Stucco			
Analyst Description: Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2002060027RK-22	920021185-22	*No*	NAD (by CVES) by Kristina Martinez on 02/14/20
Location: Exterior, East Wall / Exterior Stucco			
Analyst Description: Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2002060027RK-23	920021185-23	*No*	NAD (by CVES) by Kristina Martinez on 02/14/20
Location: Exterior, East Wall-North End / Exterior Stucco / T-O Exterior Walls And Breezeway Ceiling			
Analyst Description: Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

20-Z0046-0027; A Administration, B Classroom Bldg Rooms 1-3, C MPR, D Classroom Bldg Rooms 4-6, E Classroom Bldg Rooms 7-10, F Classroom Bldg Rooms 11-14, G Classroom Bldg Rooms 15-18, H Classroom Bldg Rooms 19-20, Staff Restroom Bldg, Covered Walkways

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2002060027RK-24	920021185-24	*No*	NAD (by CVES) by Kristina Martinez on 02/14/20
Location: Exterior, South Wall / Exterior Stucco			
Analyst Description: Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2002060027RK-25	920021185-25	*No*	NAD (by CVES) by Kristina Martinez on 02/14/20
Location: Exterior, West Wall-South End / Exterior Stucco			
Analyst Description: Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2002060027RK-26	920021185-26	*No*	NAD (by CVES) by Kristina Martinez on 02/14/20
Location: Exterior, Breezeway Ceiling, NW / Exterior Stucco			
Analyst Description: Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2002060027RK-27	920021185-27	*No*	NAD (by CVES) by Kristina Martinez on 02/14/20
Location: Exterior, North Wall-West End / Exterior Stucco			
Analyst Description: Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2002070027RK-28	920021185-28	*No*	NAD (by CVES) by Arturo A. Aldana on 02/15/20
Location: Exterior, East Wall-North End / Exterior Stucco / T-O Exterior Walls			
Analyst Description: Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2002070027RK-29	920021185-29	*No*	NAD (by CVES) by Arturo A. Aldana on 02/15/20
Location: Exterior, South Wall- East End / Exterior Stucco			
Analyst Description: Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

20-Z0046-0027; A Administration, B Classroom Bldg Rooms 1-3, C MPR, D Classroom Bldg Rooms 4-6, E Classroom Bldg Rooms 7-10, F Classroom Bldg Rooms 11-14, G Classroom Bldg Rooms 15-18, H Classroom Bldg Rooms 19-20, Staff Restroom Bldg, Covered Walkways

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2002070027RK-30	920021185-30	***No***	NAD (by CVES) by Arturo A. Aldana on 02/15/20
Location: Exterior, South Wall / Exterior Stucco			
Analyst Description: Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2002070027RK-31	920021185-31	***No***	NAD (by CVES) by Arturo A. Aldana on 02/15/20
Location: Exterior, West Wall- South End / Exterior Stucco			
Analyst Description: Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2002070027RK-32	920021185-32	***No***	NAD (by CVES) by Arturo A. Aldana on 02/15/20
Location: Exterior, North Wall-West End / Exterior Stucco			
Analyst Description: Off-White, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2002070027RK-33	920021185-33	***No***	NAD (by CVES) by Arturo A. Aldana on 02/15/20
Location: Exterior, East Wall-North End / Exterior Stucco / T-O Exterior Walls And Breezway Ceiling			
Analyst Description: Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2002070027RK-34	920021185-34	***No***	NAD (by CVES) by Arturo A. Aldana on 02/15/20
Location: Exterior, South Wall-East / Exterior Stucco			
Analyst Description: Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2002070027RK-35	920021185-35	***No***	NAD (by CVES) by Arturo A. Aldana on 02/15/20
Location: Exterior, West Wall Of Student Restroom / Exterior Stucco			
Analyst Description: White/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

20-Z0046-0027; A Administration, B Classroom Bldg Rooms 1-3, C MPR, D Classroom Bldg Rooms 4-6, E Classroom Bldg Rooms 7-10, F Classroom Bldg Rooms 11-14, G Classroom Bldg Rooms 15-18, H Classroom Bldg Rooms 19-20, Staff Restroom Bldg, Covered Walkways

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2002070027RK-36	920021185-36	*No*	NAD (by CVES) by Arturo A. Aldana on 02/15/20
Location: Exterior Breezeway Ceiling, SE / Exterior Stucco			
Analyst Description: White/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2002070027RK-37	920021185-37	*No*	NAD (by CVES) by Arturo A. Aldana on 02/15/20
Location: Exterior, West Wall Of Room 18-North End / Exterior Stucco			
Analyst Description: Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2002070027RK-38	920021185-38	*No*	NAD (by CVES) by Arturo A. Aldana on 02/15/20
Location: Exterior, South Wall-West End / Exterior Stucco / T-O Exterior Walls			
Analyst Description: Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2002070027RK-39	920021185-39	*No*	NAD (by CVES) by Arturo A. Aldana on 02/15/20
Location: Exterior, West Wall-South End / Exterior Stucco			
Analyst Description: Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2002070027RK-40	920021185-40	*No*	NAD (by CVES) by Arturo A. Aldana on 02/15/20
Location: Exterior, West Wall / Exterior Stucco			
Analyst Description: Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2002070027RK-41	920021185-41	*No*	NAD (by CVES) by Arturo A. Aldana on 02/15/20
Location: Exterior, North Wall-West End / Exterior Stucco			
Analyst Description: Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

20-Z0046-0027; A Administration, B Classroom Bldg Rooms 1-3, C MPR, D Classroom Bldg Rooms 4-6, E Classroom Bldg Rooms 7-10, F Classroom Bldg Rooms 11-14, G Classroom Bldg Rooms 15-18, H Classroom Bldg Rooms 19-20, Staff Restroom Bldg, Covered Walkways

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2002070027RK-42	920021185-42	*No*	NAD (by CVES) by Arturo A. Aldana on 02/15/20
Location: Exterior, East Wall-North End / Exterior Stucco			
Analyst Description: Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2002070027RK-43	920021185-43	*No*	NAD (by CVES) by Arturo A. Aldana on 02/15/20
Location: Exterior, West Wall / Exterior Window Putty / T-O Exterior Windows			
Analyst Description: White, Homogeneous, Non-Fibrous, Window Putty **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2002070027RK-44	920021185-44	*No*	NAD (by CVES) by Arturo A. Aldana on 02/15/20
Location: Exterior, West Wall-South End / Exterior Window Putty / T-O Exterior Windows			
Analyst Description: White, Homogeneous, Non-Fibrous, Window Putty **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2002070027RK-45	920021185-45	*No*	NAD (by CVES) by Arturo A. Aldana on 02/15/20
Location: Exterior, North Wall / Exterior Window Putty			
Analyst Description: Beige, Homogeneous, Non-Fibrous, Window Putty **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2002070027RK-46	920021185-46	*No*	NAD (by CVES) by Arturo A. Aldana on 02/15/20
Location: Exterior, West Wall / Exterior Stucco / T-O Exterior Walls And Overhang			
Analyst Description: White/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2002070027RK-47	920021185-47	*No*	NAD (by CVES) by Arturo A. Aldana on 02/15/20
Location: Exterior, North Wall / Exterior Stucco			
Analyst Description: White/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

20-Z0046-0027; A Administration, B Classroom Bldg Rooms 1-3, C MPR, D Classroom Bldg Rooms 4-6, E Classroom Bldg Rooms 7-10, F Classroom Bldg Rooms 11-14, G Classroom Bldg Rooms 15-18, H Classroom Bldg Rooms 19-20, Staff Restroom Bldg, Covered Walkways

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2002070027RK-48	920021185-48	*No*	NAD (by CVES) by Arturo A. Aldana on 02/15/20
Location: Exterior Overhang, SE / Exterior Stucco			
Analyst Description: White/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2002070027RK-49	920021185-49	*No*	NAD (by CVES) by Arturo A. Aldana on 02/15/20
Location: Covered Walkway 2 Ceiling, NW / Exterior Stucco / Covered Walkway 2 Ceiling			
Analyst Description: Green/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2002070027RK-50	920021185-50	*No*	NAD (by CVES) by Arturo A. Aldana on 02/15/20
Location: Covered Walkway 2 Ceiling, West / Exterior Stucco			
Analyst Description: Green/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2002070027RK-51	920021185-51	*No*	NAD (by CVES) by Arturo A. Aldana on 02/15/20
Location: Covered Walkway 2 Ceiling, SW / Exterior Stucco			
Analyst Description: Green/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2002070027RK-52	920021185-52	*No*	NAD (by CVES) by Arturo A. Aldana on 02/15/20
Location: Covered Walkway 3 Ceiling, NW / Exterior Stucco			
Analyst Description: Green/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2002070027RK-53	920021185-53	*No*	NAD (by CVES) by Arturo A. Aldana on 02/15/20
Location: Covered Walkway 3 Ceiling, West / Exterior Stucco			
Analyst Description: Green/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

20-Z0046-0027; A Administration, B Classroom Bldg Rooms 1-3, C MPR, D Classroom Bldg Rooms 4-6, E Classroom Bldg Rooms 7-10, F Classroom Bldg Rooms 11-14, G Classroom Bldg Rooms 15-18, H Classroom Bldg Rooms 19-20, Staff Restroom Bldg, Covered Walkways

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2002070027RK-54	920021185-54	*No*	NAD (by CVES) by Arturo A. Aldana on 02/15/20
Location: Covered Walkway 3 Ceiling, SW / Exterior Stucco			
Analyst Description: Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2002070027RK-55	920021185-55	*No*	NAD (by CVES) by Arturo A. Aldana on 02/15/20
Location: Covered Walkway 9, SW / Exterior Stucco / Covered Walkway 9 Ceiling			
Analyst Description: White/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2002070027RK-56	920021185-56	*No*	NAD (by CVES) by Arturo A. Aldana on 02/15/20
Location: Covered Walkway 9, South / Exterior Stucco			
Analyst Description: Green/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2002070027RK-57	920021185-57	*No*	NAD (by CVES) by Arturo A. Aldana on 02/15/20
Location: Covered Walkway 9, SE / Exterior Stucco			
Analyst Description: White/Green/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

Reporting Notes:
Analyzed By: Wesene Sebhat at aldn; Date Analyzed: 2/13/2020 2/15/20
*NAD = no asbestos detected; Detection Limit <1%; Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; NA = not analyzed; NA/PS = not analyzed / positive stop; NVA = No Visible Asbestos; PLM (polarized light microscopy) Bulk Asbestos Analysis by EPA 600/R-93/116, including requirements for EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab #200346-0); Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full with the approval of the laboratory. This PLM report relates ONLY to the items tested.

Reviewed By: at aldn

C12002185

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☑ AmeriSci
☐ EMLab (Glendale)
☐ LA Testing

☐ Routine (5 Working Days)	☐ RUSH (surcharges may apply) Circle One: 6 hours / 24 hours / 48 hours / (3 to 5 days)	Project #: 20-Z0046-0027	Sampled by: Rhys Kuzmic	Site Zip Code: 91770	Sample Date: 02/06/2020	Page 1 of 11

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 with a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Building Name: A Administration

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Prefix: 200206002 7RK

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
-01	Exterior, north wall - east end	Exterior stucco	To exterior walls	1	2,500 SF	0
-02 *	Exterior, west wall					
-03	Exterior, south wall - west end					
-04	Exterior, west wall - south end					
-05	Exterior, south wall - east end					

Notes:

Released By, Date, & Time:	Received By, Date, & Time:	Released By, Date, & Time:
RyKu 02/10/2020 11:00AM	P. Jones 2/10/20 0100	

9200211 85

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☑ AmeriSci
☐ EMLab (Glendale)
☐ LA Testing

☐ Routine (5 Working Days)	☐ RUSH (surcharges may apply) Circle One: 6 hours / 24 hours / 48 hours / (3 to 5 days)	Project #: 20-Z0046-0027	Sampled by: Rhys Kuzmic	Site Zip Code: 91770	Sample Date: 02/06/2020	Page 2 of 11

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 with a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%

Building Name: B Classroom Bldg Rooms 1-3

4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Prefix: Z0020600027RK

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
-06	Exterior, south wall - east end	Exterior stucco	T-O exterior walls and breezeway ceiling	2	2,500SF	0
-07	Exterior, west wall	↓		↓	↓	↓
-08	Exterior, breezeway ceiling					
-09	Exterior, west wall of student restroom					
-10 *	Exterior, east wall					

Notes:

Released By, Date, & Time:	Received By, Date, & Time:	Released By, Date, & Time:
Rhys Kuzmic 02/10/2020 11:00AM	P. Torres 2/10/2020 11:00	

9200211185

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☑ AmeriSci
☐ EMLab (Glendale)
☐ LA Testing

☐ Routine (5 Working Days)	☐ RUSH (surcharges may apply) Circle One: 6 hours / 24 hours / 48 hours / (3 to 5 days)	Project #: 20-Z0046-0027	Sampled by: Rhys Kuzmic	Site Zip Code: 91770	Sample Date: 02/06/2020	Page 3 of 11

Building Name: C MPR

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 with a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Prefix: 200206002-7RK

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
-11	Exterior, NE overhang ceiling	Exterior stucco	T-O exterior walls and overhangs	3	5,000 SF	0
-12	Exterior, east wall of kitchen					
-13	Exterior, ~~south wall near SE~~ east upper wall (2x) ~~entry~~ at roof					
-14	Exterior, south wall near SE entry					
-15 #	Exterior, south wall					
-16	Exterior, west wall - south end					
-17	Exterior, west wall - north end	↓		↓	↓	↓

Notes:

Released By, Date & Time:	Received By, Date & Time:	Released By, Date & Time:
Rhys Kuz 02/10/2020 11:00 AM	DJones 2/10/20 @11:00	

4200611185

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☑ AmeriSci
☐ EMLab (Glendale)
☐ LA Testing

☐ **Routine** (5 Working Days)

☐ **RUSH** (surcharges may apply) Circle One: 6 hours | 24 hours | 48 hours | 3 to 5 days

Project #: 20-Z0046-0027

Sampled by: Rhys Kuzmic

Site Zip Code: 91770

Sample Date: 02/06/2020

Building Name: D Classroom Bldg Rooms 4-6

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 with a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Prefix: 200206 0027 RK

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
-18	Exterior, east wall - south end	Exterior stucco	To exterior walls	4	2,000 SF	0
-19	Exterior, south wall	↓		↓	↓	↓
-20	Exterior, west wall - south end					
-21	Exterior, north wall - west end					
-22	Exterior, east wall					

Notes:

Released By, Date, & Time:	Received By, Date, & Time:	Released By, Date, & Time:
RK 02/10/2020 11:30 AM	P. Jones 2/10/2020 11:00	

0420021185

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☑ AmeriSci
☐ EMLab (Glendale)
☐ LA Testing

☐ **Routine** (5 Working Days)

☐ **RUSH** (surcharges may apply) Circle One: 6 hours | 24 hours | 48 hours | 3 to 5 days

Project #: 20-Z0046-0027

Sampled by: Rhys Kuzmic

Site Zip Code: 91770

Sample Date: 02/06/2020

Building Name: E Classroom Bldg Rooms 7-10

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Optional items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Prefix: 20020600027RK

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
-23 *	Exterior, east wall - north end	Exterior stucco	T-O exterior walls and breezeway ceilings	5	2,500 SF	0
-24	Exterior, south wall					
-25	Exterior, west wall - south end					
-26	Exterior breezeway ceiling, NW					
-27	Exterior, north wall - west end					

Notes:

Released By, Date, & Time:	Received By, Date, & Time:	Released By, Date, & Time:
Rhys Kuzmic 02/07/2020 11:00AM	P. Jones 2/10/2020 11:00	

9200211185

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☑ AmeriSci
☐ EMLab (Glendale)
☐ LA Testing

☐ Routine (5 Working Days)	☐ RUSH (surcharges may apply) Circle One: 6 hours / 24 hours / 48 hours / (3 to 5 days)	Project #: 20-Z0046-0027	Sampled by: Rhys Kuzmic	Site Zip Code: 91770	Sample Date: 02/07/2020	Page 6 of 11

Building Name: F Classroom Bldg Rooms 11-14

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Prefix: 200207002RK

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
-28	Exterior, east wall - north end	Exterior stucco	F-D exterior walls	6	2,000 SF	0
-29	Exterior, south wall - east end	↓		↓	↓	↓
-30	Exterior, south wall					
-31	Exterior, west wall - south end					
-32 *	Exterior, north wall - west end					

Notes:

Released By, Date, & Time:	Received By, Date, & Time:	Released By, Date, & Time:
Rhys Kuzmic 02/10/2020 11:00 AM	P. Jones 2/10/2020 11:00	

9Z002118S

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☑ AmeriSci
☐ EMLab (Glendale)
☐ LA Testing

☐ **Routine** (5 Working Days)

☐ **RUSH** (surcharges may apply) Circle One: 6 hours | 24 hours | 48 hours | (3 to 5 days)

Project #: 20-Z0046-0027

Sampled by: Rhys Kuzmic

Site Zip Code: 91770

Sample Date: 02/07/2020

Building Name: G Classroom Bldg Rooms 15-18

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 with a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Prefix: 200207002?RK

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
-33	Exterior, east wall - north end	Exterior stucco	T-O exterior walls and breezeway ceiling	7	2,500SF	0
-34	Exterior, south wall - east end	↓		↓	↓	↓
-35 *	Exterior, West wall of Student Restroom					
-36	Exterior breezeway ceiling SE					
-37	Exterior, West wall of Room 18 - north end					

Notes:

Released By, Date, & Time:	Received By, Date, & Time:	Released By, Date, & Time:
RK 02/10/2020 11:00AM	P. Jones 2/10/20 0 11.00	

9'20'41185

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

EXECUTIVE ENVIRONMENTAL
REACTIVE SAFETY SIMPLIFIED

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☑ AmeriSci
☐ EMLab (Glendale)
☐ LA Testing

☐ **Routine** (5 Working Days)

☐ **RUSH** (surcharges may apply) Circle One: 6 hours | 24 hours | 48 hours | 3 to 5 days

Project #: 20-Z0046-0027

Sampled by: Rhys Kuzmic

Site Zip Code: 91770

Sample Date: 02/07/2020

Building Name: H Classroom Bldg Rooms 19-20

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Prefix: Z00207 0027 RK

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
-38 *	Exterior, South Wall - West end	Exterior stucco	T-O exterior walls	8	1,500 SF	0
-39	Exterior, West Wall - south end	↓		↓	↓	↓
-40	Exterior, West Wall					
-41	Exterior, North Wall - West end					
-42	Exterior, East Wall - north end					
-43	Exterior, West Wall	Exterior window putty	T-O exterior windows	9	330 LF	<1
-44	Exterior, West Wall - south end					
-45 *	Exterior, North wall	↓		↓	↓	↓

Notes:

Released By, Date, & Time:	Received By, Date, & Time:	Released By, Date, & Time:
Rhys Kuzmic 02/10/2020 11:00 AM	P. Jones 2/10/20 @11:00	

Form: AL-006PLM

4120021185

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☑ AmeriSci
☐ EMLab (Glendale)
☐ LA Testing

☐ Routine (5 Working Days)	☐ RUSH (surcharges may apply) Circle One: 6 hours / 24 hours / 48 hours / 3 to 5 days	Project #: 20-Z0046-0027	Sampled by: Rhys Kuzmic	Site Zip Code: 91770	Sample Date: 02/07/2020	Page 9 of 11

Building Name: Staff Restroom Bldg

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 with a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Prefix: 200207002-RK

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
-46	Exterior, West Wall	Exterior stucco	T-O exterior walls and overhangs	10	7005F	0
-47 *	Exterior, North Wall	↓		↓	↓	↓
-48	Exterior overhang, SE					

Notes:

Released By, Date & Time:	Received By, Date & Time:	Released By, Date & Time:
Rhys Kuz 02/18/2020 11:00 AM	P. Jones 2/20/20 11:00	

9200211185

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☑ AmeriSci
☐ EMLab (Glendale)
☐ LA Testing

☐ Routine (5 Working Days)	☐ RUSH (surcharges may apply) Circle One: 6 hours / 24 hours / 48 hours / (3 to 5 days)	Project #: 20-Z0046-0027	Sampled by: Rhys Kuzmic	Site Zip Code: 91770	Sample Date: 02/07/2020	Page 1 of 11

Building Name: Covered Walkways

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Prefix: 200207002>RK

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
-49	Covered Walkway 2 ceilings, NW	Exterior stucco	Covered Walkway 2 ceilings	11	450SF	0
-50	Covered Walkway 2 ceilings, West	↓		↓	↓	↓
-51 *	Covered Walkway 2 ceilings, SW	↓		↓	↓	↓
-52	Covered Walkway 3 ceilings, NW	Exterior stucco	Covered Walkway 3 ceilings	12	900SF	0
-53	Covered Walkway 3 ceiling, West	↓		↓	↓	↓
-54	Covered Walk Way 3 ceilings, SW	↓		↓	↓	↓

Notes:

Released By, Date, & Time:	Received By, Date, & Time:	Released By, Date, & Time:
Rhys K 02/07/2020 11:00 AM	P. Torres 2/10/20 @11:00	

9200421185

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☑ AmeriSci
☐ EMLab (Glendale)
☐ LA Testing

☐ Routine (5 Working Days)	☐ RUSH (surcharges may apply) Circle One: 6 hours / 24 hours / 48 hours / 3 to 5 days	Project #: 20-Z0046-0027	Sampled by: Rhys Kuzmic	Site Zip Code: 91770	Sample Date: 02/07/2020	Page 1 of 11

Building Name: Covered Walkways

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 with a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%
4. All lab reports and invoices are to contain the Project Number from above.
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Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

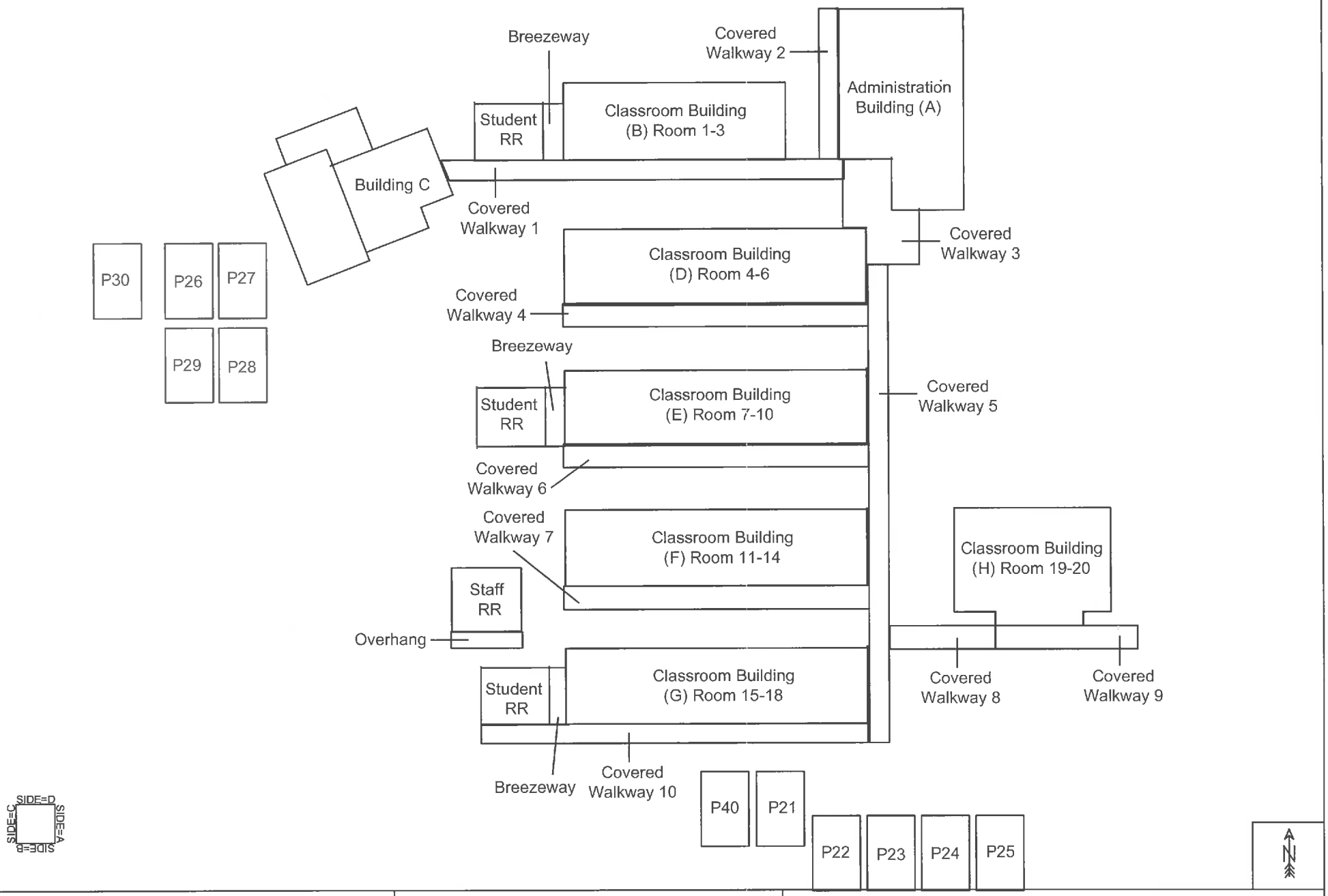
Prefix: 200207002RK

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
-55	Covered Walkway 9, SW	Exterior stucco	Covered Walkway 9 ceiling	13	4705F	0
-56	Covered Walkway 9, South	↓		↓	↓	↓
-57 *	Covered Walkway 9, SE					

Notes:

Released By, Date & Time:	Received By, Date & Time:	Released By, Date & Time:
RK 02/10/2020 11:00AM	P. Soria 2/10/20 11:00	

APPENDIX B – SAMPLE/ACM LOCATIONS DRAWING



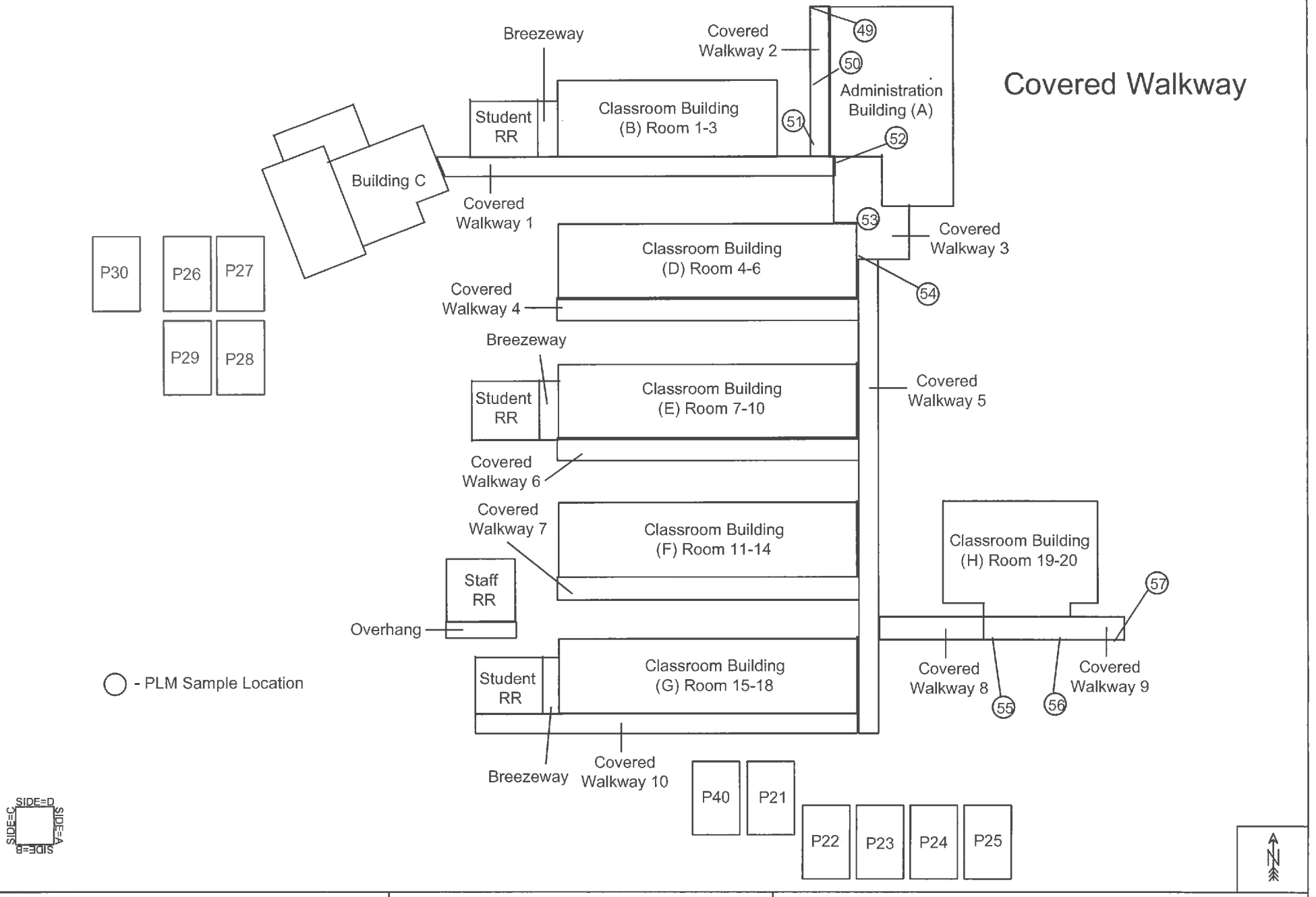
Client: Rosemead School District

Project #: 20-Z0046-0027

Info: Site Map

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Site: Encinita Elementary School - Painting Project
Adress: 4515 Encinita Avenue
Rosemead, California 91770



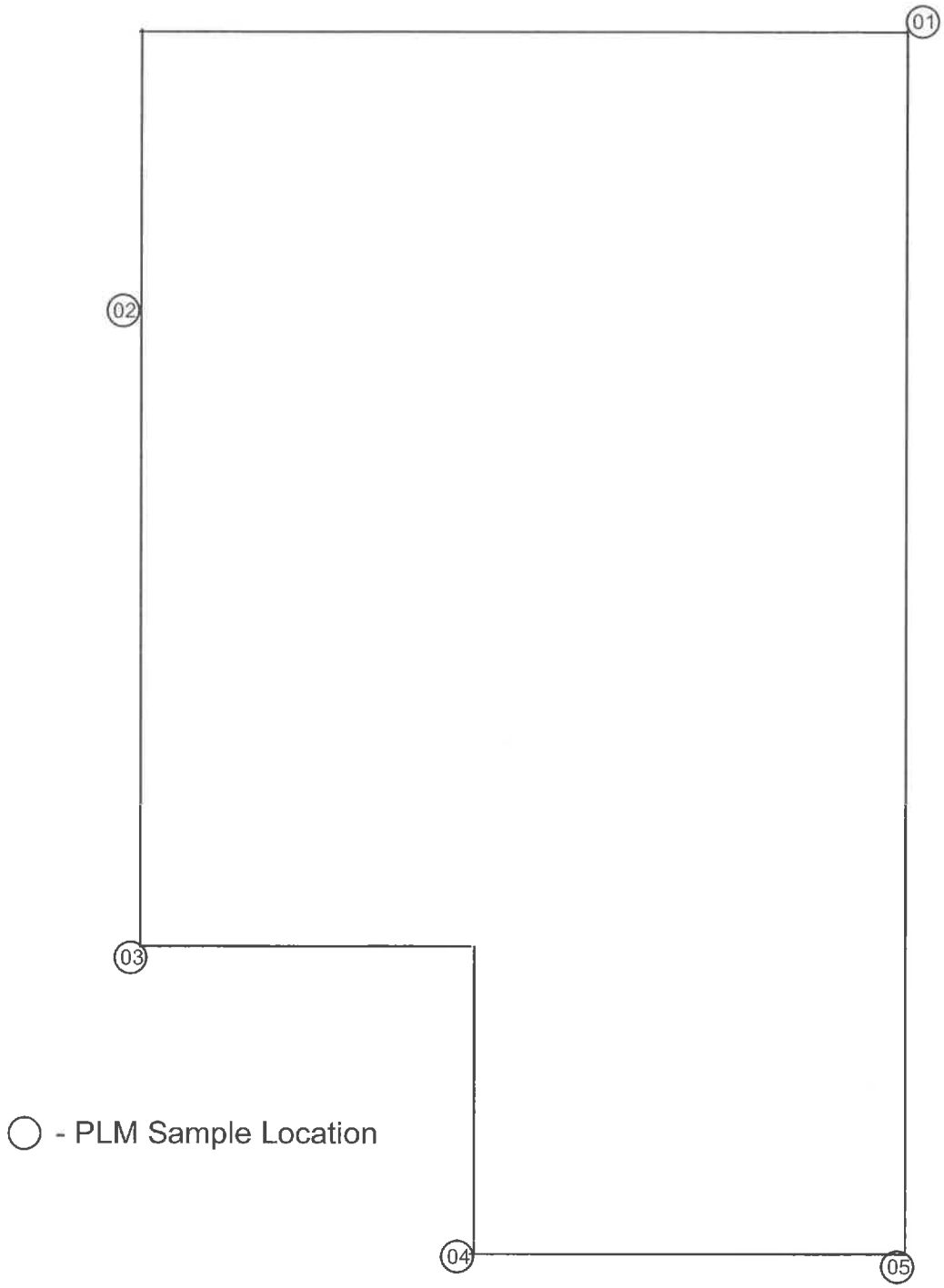
Client: Rosemead School District | **Project #:** 20-Z0046-0027 | **Info:** PLM Sample Locations

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Site Address: Encinita Elementary School - Painting Project
4515 Encinita Avenue
Rosemead, California 91770

Drawing Not to Scale - © 2012

Administration Building (A)

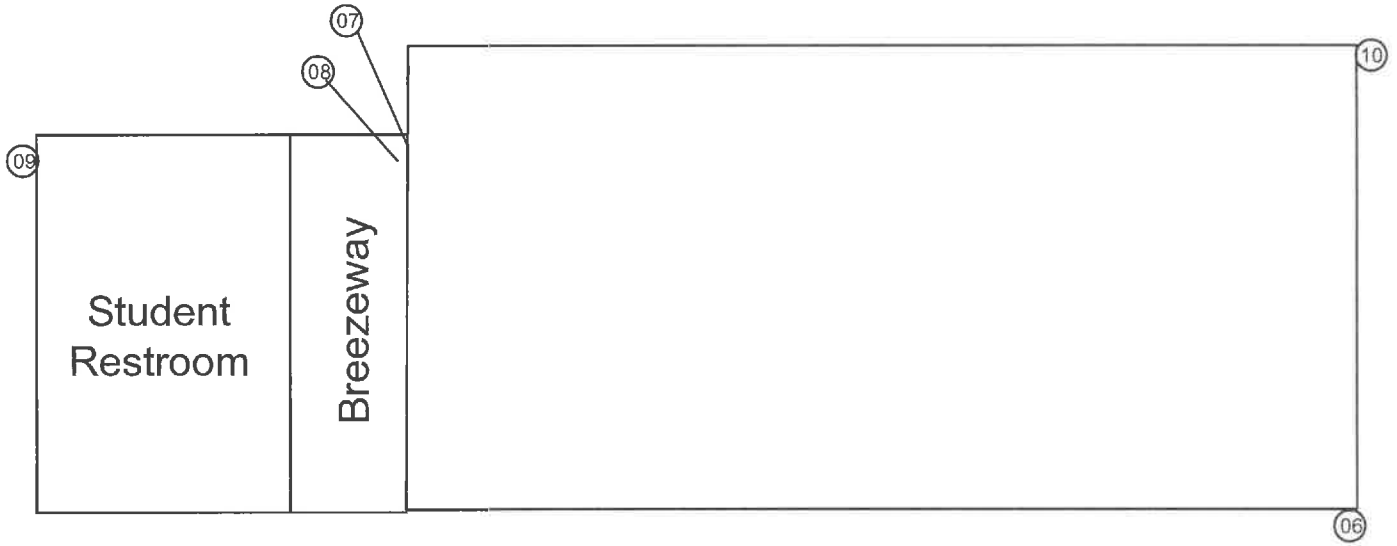


○ - PLM Sample Location

N

Client: Rosemead School District	**Project#:** 20-Z0046-0027	**Info:** PLM Sample Locations
EXECUTIVE ENVIRONMENTAL HEALTH & SAFETY SIMPLIFIED		**Site:** Encinita Elementary School - Roofing Project **Address:** 4515 Encinita Avenue Drawing Not to Scale - © 2012 Rosemead, California 91770

Classroom Building (B)
Room 1-3



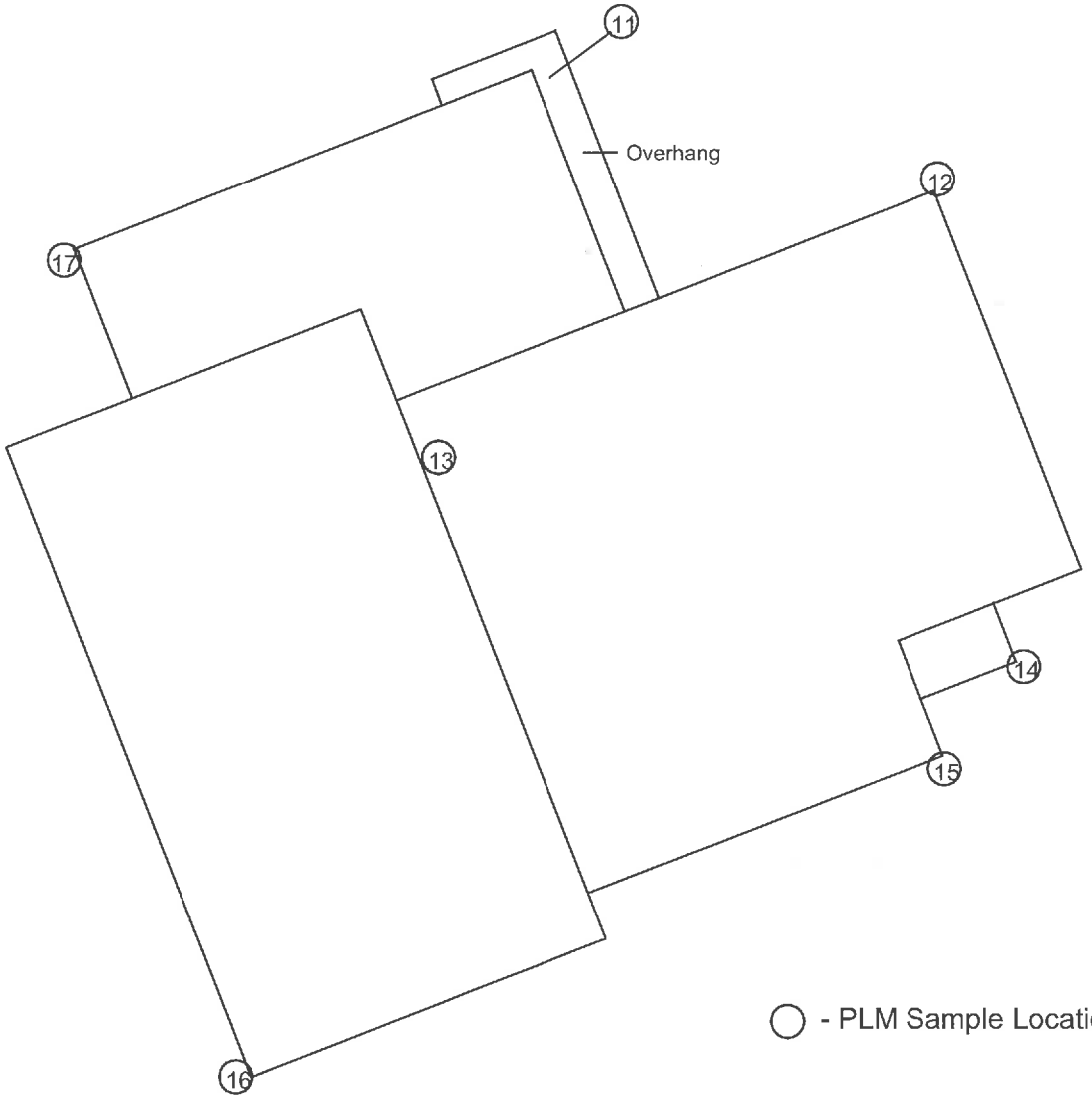
◯ - PLM Sample Location

SIDE=D
SIDE=C
SIDE=A
SIDE=B

N

Client: Rosemead School District	**Project #:** 20-Z0046-0027	**Info:** PLM Sample Location
EXECUTIVE ENVIRONMENTAL HEALTH & SAFETY SIMPLIFIED		**Site:** Encinita Elementary School - Painting Project **Address:** 4515 Encinita Avenue Rosemead, California 91770

Building C (Multi-Purpose Building)



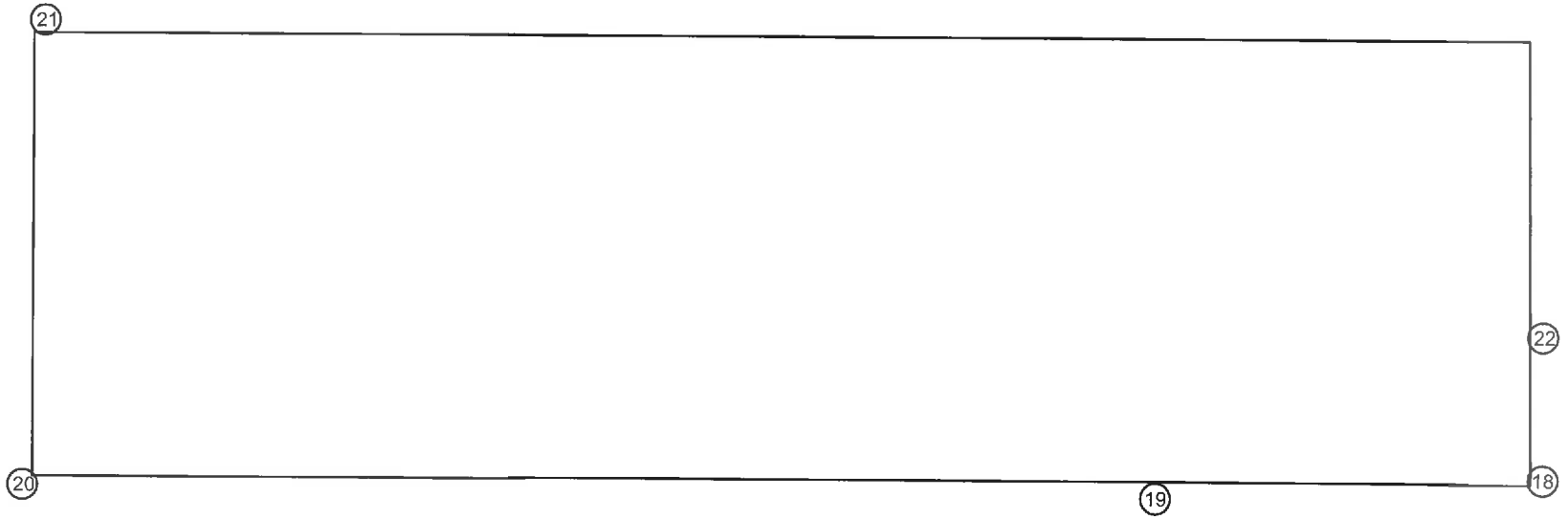
SIDE=D
SIDE=C
SIDE=A
SIDE=B

○ - PLM Sample Location

N

Client: Rosemead School District	**Project #:** 20-Z0046-0027	**Info:** PLM Sample Locations
EXECUTIVE ENVIRONMENTAL HEALTH & SAFETY SIMPLIFIED		**Site:** Encinita Elementary School - Painting Project **Address:** 4515 Encinita Avenue Rosemead, California 91770

Classroom Building (D)
Room 4-6



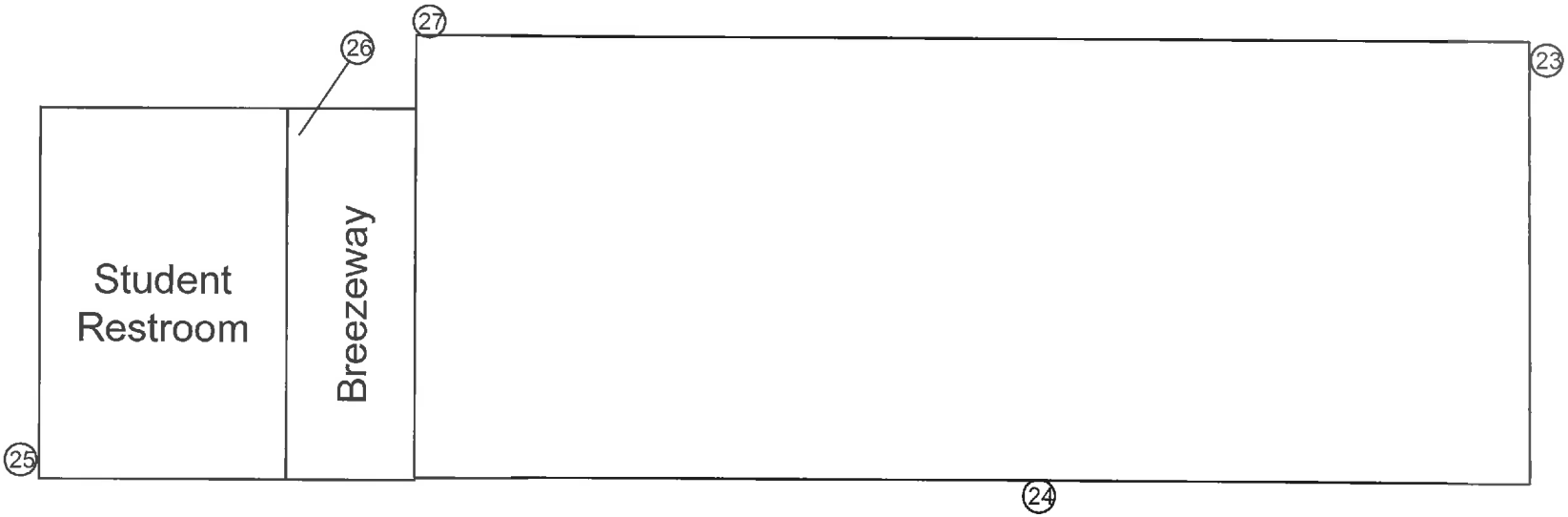
SIDE=D
SIDE=C
SIDE=A
SIDE=B

◯ - PLM Sample Location

N

Client: Rosemead School District	**Project #:** 20-Z0046-0027	**Info:** PLM Sample Locations
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Encinita Elementary School - Painting Project **Address:** 4515 Encinita Avenue Rosemead, California 91770

Classroom Building (E)
Room 7-10



◯ - PLM Sample Location

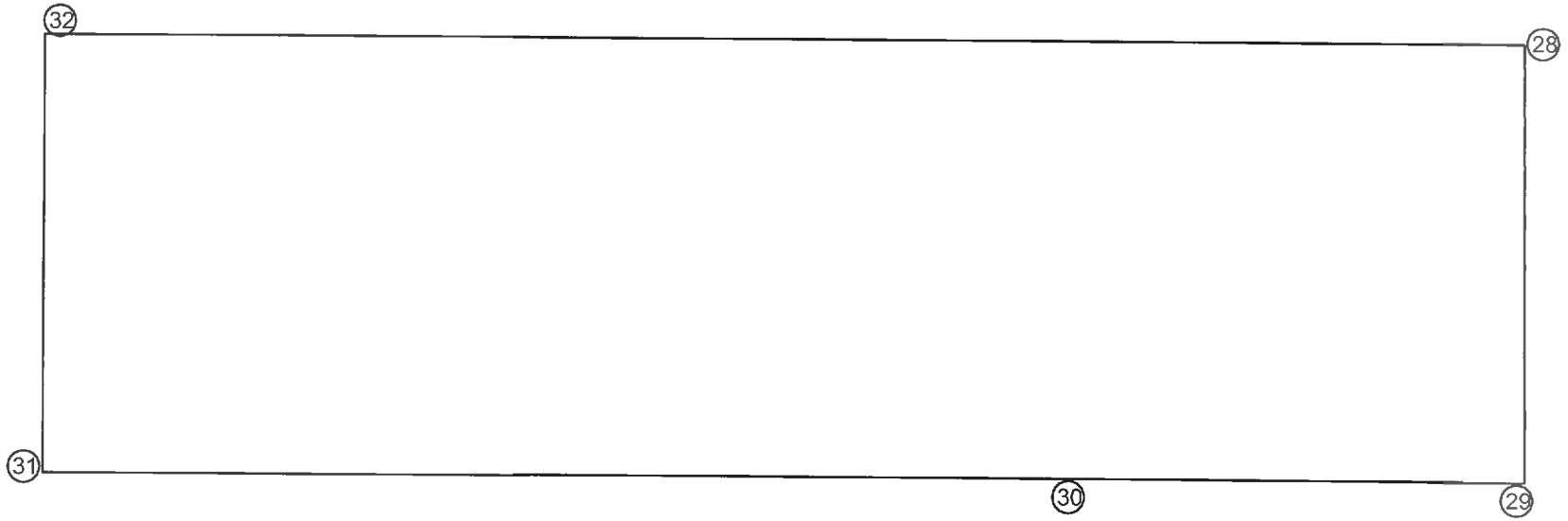
N

Client: Rosemead School District | **Project #:** 20-Z0046-0027 | **Info:** PLM Sample Locations

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Site: Encinita Elementary School - Painting Project
Address: 4515 Encinita Avenue
Rosemead, California 91770

Classroom Building (F)
Room 11-14



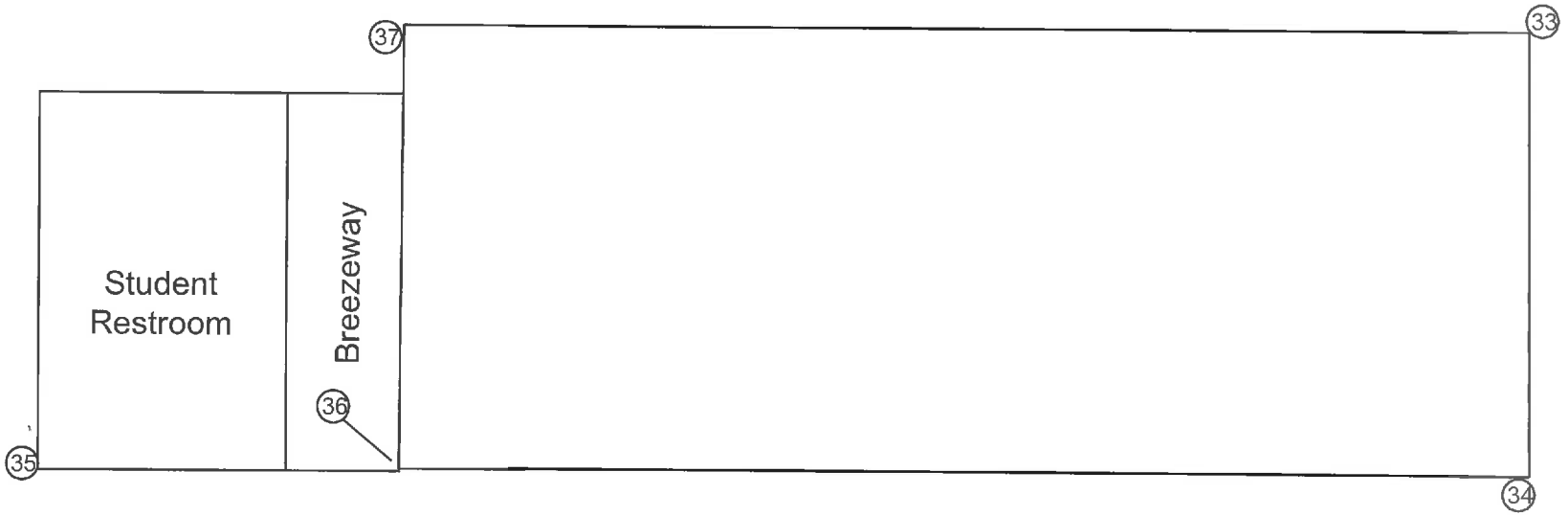
SIDE=D
SIDE=C
SIDE=A
SIDE=B

○ - PLM Sample Location

N

Client: Rosemead School District	**Project #:** 20-Z0046-0027	**Info:** PLM Sample Locations
EXECUTIVE ENVIRONMENTAL HEALTH & SAFETY SIMPLIFIED		**Site:** Encinita Elementary School - Painting Project **Address:** 4515 Encinita Avenue Rosemead, California 91770

Classroom Building (G)
Room 15-18



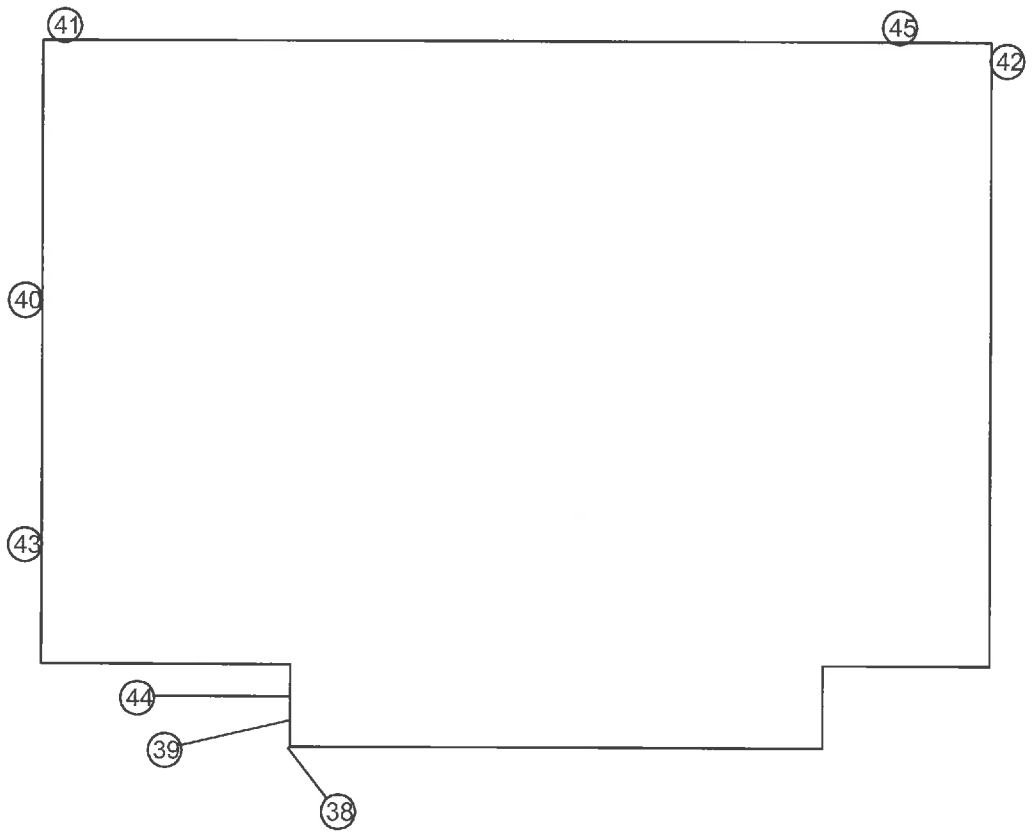
◯ - PLM Sample Location

SIDE=D
SIDE=C
SIDE=A
SIDE=B

N

Client: Rosemead School District	**Project #:** 20-Z0046-0027	**Info:** PLM Sample Locations
EXECUTIVE ENVIRONMENTAL HEALTH & SAFETY SIMPLIFIED		**Site:** Encinita Elementary School **Address:** 4515 Encinita Avenue Rosemead, California 91770

Classroom Building (H)
Room 19-20



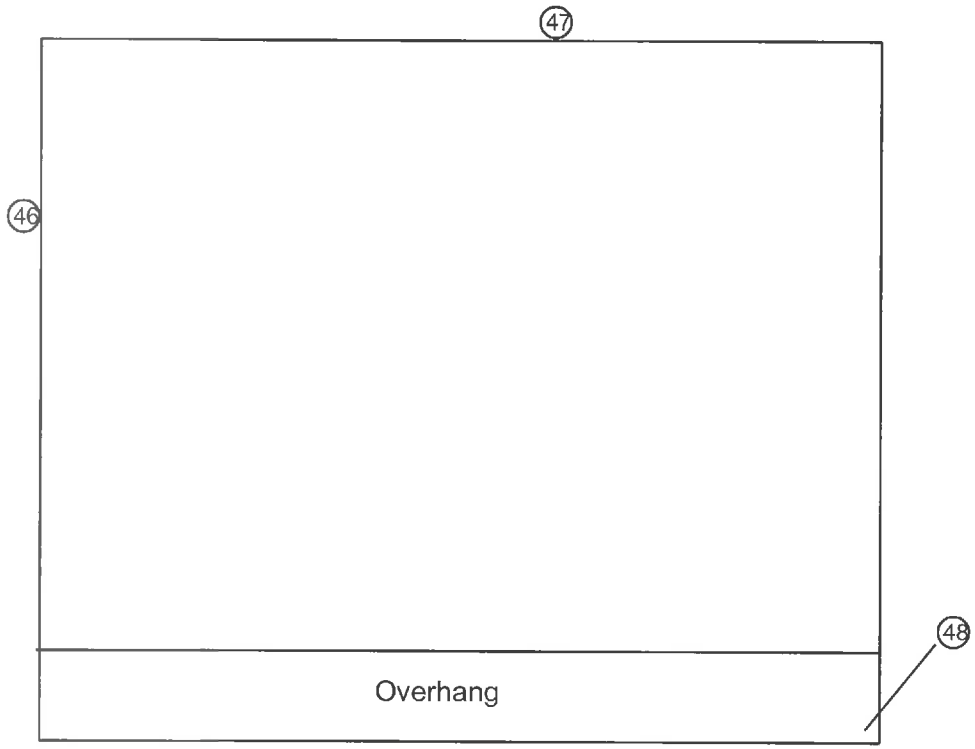
SIDE=D
SIDE=C
SIDE=A
SIDE=B

○ - PLM Sample Location

N

Client: Rosemead School District	**Project #:** 20-Z0046-0027	**Info:** PLM Sample Location
EXECUTIVE ENVIRONMENTAL HEALTH & SAFETY SIMPLIFIED		**Site:** Encinita Elementary School - Painting Project **Address:** 4515 Encinita Avenue Rosemead, California 91770

Staff Restroom



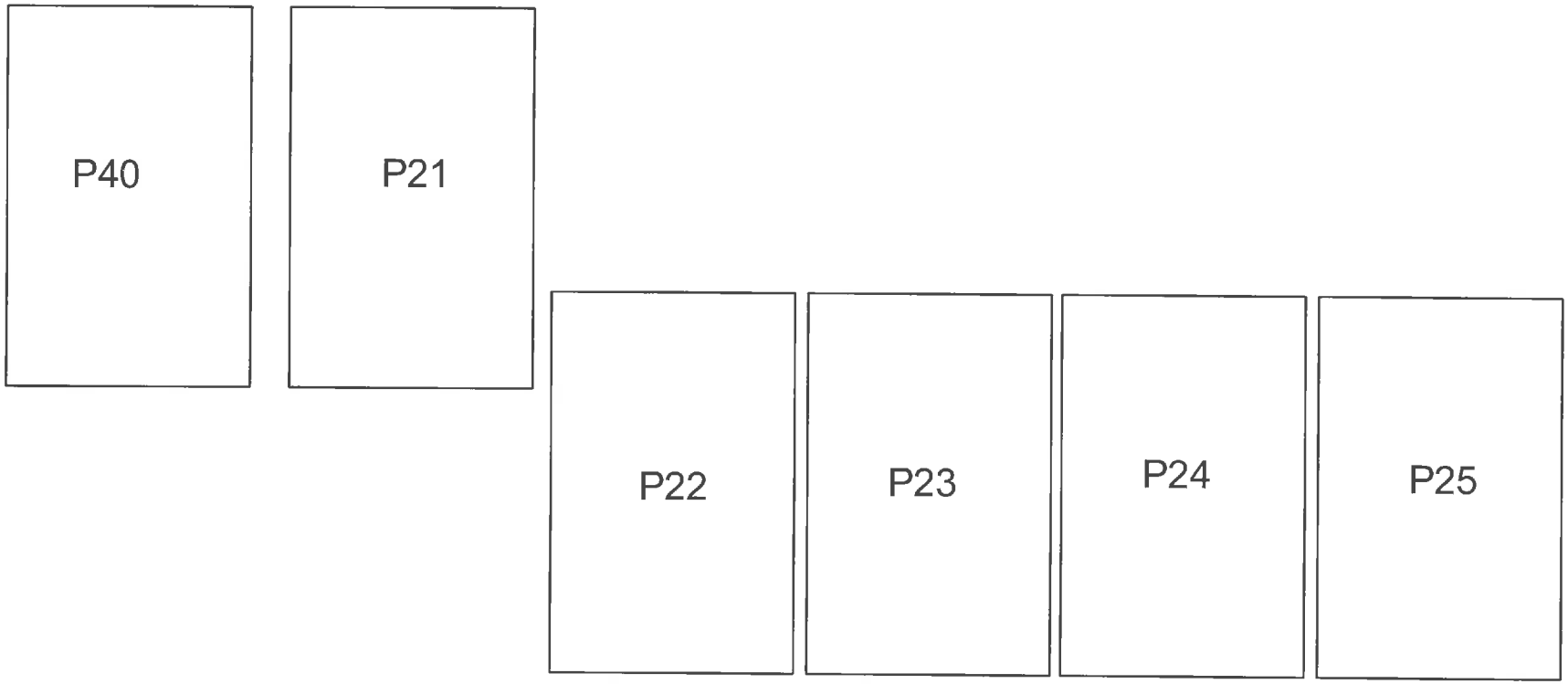
○ - PLM Sample Location

Client: Rosemead School District	**Project #:** 20-Z0046-0027	**Info:** PLM Sample Locations
EXECUTIVE ENVIRONMENTAL HEALTH & SAFETY SIMPLIFIED		**Site:** Encinita Elementary School - Painting Project **Address:** 4515 Encinita Avenue Rosemead, California 91770

Portables

Client: Rosemead School District	**Project #:** 20-Z0046-0027	**Info:** Non-Suspected Materials Indentified
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Encinita Elementary School - Painting Project **Address:** 4515 Encinita Avenue Rosemead, California 91770

Portables



Client: Rosemead School District	**Project #:** 20-Z0046-0027	**Info:** Non-Suspected Materials Indentified
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Encinita Elementary School - Painting Project **Address:** 4515 Encinita Avenue Rosemead, California 91770

APPENDIX B – LIMITED LEAD-BASED PAINT INSPECTION REPORT DATED FEBRUARY 2, 2022

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene • Air Quality • Lead & Asbestos • Training • Health & Safety

LIMITED LEAD-BASED PAINT INSPECTION REPORT

Conducted at:

ENCINITA ELEMENTARY SCHOOL ROOFING PROJECT
4515 ENCINITA AVENUE
ROSEMEAD, CALIFORNIA 91770

Prepared for:

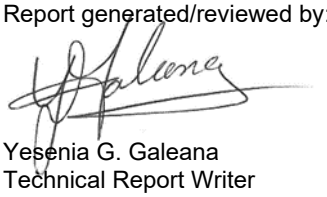
MR. HAROLD SULLINS
ASSISTANT SUPERINTENDENT
ROSEMEAD SCHOOL DISTRICT
3907 ROSEMEAD BOULEVARD
ROSEMEAD, CALIFORNIA 91770

Prepared by:

EXECUTIVE ENVIRONMENTAL
310 EAST FOOTHILL BOULEVARD, SUITE 200
ARCADIA, CALIFORNIA 91006

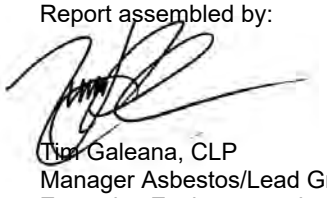
Project Number EE 22-Z0046-0002
February 2, 2022

Report generated/reviewed by:



Yesenia G. Galeana
Technical Report Writer
Executive Environmental

Report assembled by:



Tim Galeana, CLP
Manager Asbestos/Lead Group
Executive Environmental

Table of Contents

LIMITED LEAD-BASED PAINT INSPECTION

Project Number:	EE 22-Z0046-0002
Client:	Rosemead School District 3907 Rosemead Boulevard, Suite 220 Rosemead, California 91770
Site Location:	Encinita Elementary School Roofing Project 4515 Encinita Avenue Rosemead, California 91770
Site Use:	School Property
Contact Person:	Ms. Maria Rios Assistant Superintendent of Administrative Services Phone: (626) 312-2900 Ext 219
Inspection Date Between:	January 4 and 10, 2022
Inspected By:	Mr. Rhys Kuzmic Certified Lead Professional, CDPH/LRC-00004395 Mr. Matthew Barna Lead Sampling Technician, CDPH/LRC-00003242
Report Assembled By:	Ms. Yesenia G. Galeana Technical Report Writer
Report Generated/Reviewed By:	Mr. Tim Galeana Certified Lead Professional, CDPH/LRC-00000395

I. EXECUTIVE SUMMARY

Executive Environmental (EE) provided the services of Certified Lead Professionals (CLP) to conduct a limited lead-based paint inspection of the permanent buildings, portables and covered walkways at Encinita Elementary School located at 4515 Encinita Avenue, Rosemead, California. The inspection was conducted as a precursor to the upcoming roofing project. Per the request of the district representative, the following Building and Portables were excluded from this inspection: Building C and Portables P26 and P27. EE provided a California Department of Public Health Certified Lead Inspector to conduct the inspection. Regulated lead-based paint was detected during this inspection. EE's Certified Lead Professional conducted these services between January 4 and 10, 2022. *Inspection was limited to exterior surfaces and components anticipated to be impacted by the roofing project, as directed by the District.*

II. SAMPLING PROTOCOL

According to the United States Department of Housing and Urban Development's (HUD) guideline document, Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing, and Section 1017 of Title X, Residential Lead-Based Paint Hazard Reduction Act of 1992, Public Law 102-550, paint found to have a lead concentration of at least 1.0 mg/cm^2 (milligrams per centimeter squared) by X-Ray Fluorescence (XRF), or 0.5 percent (5000 parts per million) by weight, is regulated as lead-based paint.

Los Angeles County Childhood Lead Poisoning Prevention Program, established in 1991, further regulates that paint found to have a lead concentration greater than 0.7 mg/cm^2 via XRF readings, or 0.06 weight-to-weight percent by Atomic Absorption Spectrometry (AAS) analysis, is considered to be lead-based paint. The Los Angeles County 0.7 mg/cm^2 action level was used for determining the lead content in this inspection because it is more stringent than the HUD Guidelines.

Any material containing any detectable level of lead is subject to the Occupational Safety and Health Administration's (OSHA) Lead Exposure in Construction Rule 29 Code of Federal Regulation (CFR) 1926.62 and California Code of Regulations Title 8, Section 1532.1 Lead (8CCR1532.1) and Title 8, Section 5198, Lead (8CCR5198). All work that disturbs this type of material must be performed in accordance with this and any other applicable standards.

All facilities built prior to 1979 for residential buildings and prior to 1993 for schools are suspect for lead-containing materials. Federal and state regulations recognize only the following methods of identification: analysis by an XRF instrument, paint bulk sample collection and analysis, or a combination of both. This inspection was conducted via XRF instrumentation. The parameters used to interpret the XRF results are outlined in the HUD guidelines and the XRF Performance Characteristics Sheets (PCS).

III. SAMPLING METHODOLOGY

A visual inspection of the exterior of the permanent buildings, portables and covered walkways was conducted by EE's CLP to identify major site features and surfaces and/or components suspected of being coated with lead-based paint. After identifying the materials suspected of being coated with lead-based paint, EE grouped the components, substrates, and room equivalents into testing combinations. A testing combination is defined as the room equivalent, component, and substrate. A room equivalent is an identifiable part of a building (e.g. classrooms, restrooms, mechanical rooms, exterior). Color does not accurately indicate painting history, and is not included when assigning testing combinations. If there was any reason to suspect that materials may have been installed or painted at different times, even though they appear uniform, they were assigned to separate testing combinations.

Following the visual inspection, screening for the presence of lead-based paint or ceramic glaze was performed on-site using a portable XRF instrument. The XRF has the ability to measure lead content in paint and ceramic glaze within the range of 0 to 50 milligrams per centimeter squared (mg/cm^2). The on-site inspection capability of the XRF instrument typically reduces the number of paint-chip samples that may need to be collected and sent for laboratory analysis. The portable XRF instrument used in this inspection was manufactured by Heuresis.

The following specifications apply to the Viken Detection XRF (formerly Heuresis):

- Ability to report Positive and Negative determination at 1.0mg lead/cm^2 with 2-sigma confidence with measurement time of 1-3 nominal seconds on mast lead paint samples.
- Detects lead at 0.1 mg/cm^2 with 2-sigma confidence with a measurement time of 1 second on most samples.
- Equipped with a ^{57}Co sealed source, 5mCi (185 MBq), radioactive source. Substrate effects are automatically corrected through a complex algorithm and calibration.

IV. SAMPLE ANALYSIS

According to local, state and federal standards, the following surfaces and/or components that were analyzed with the Viken Detection XRF instrument during this inspection are considered to be coated with a regulated lead-based paint.

XRF SAMPLE ANALYSIS DATA
Encinita Elementary School[1]
4515 Encinita Avenue
Rosemead, California 91770

Location	Component	Substrate	Estimate Quantity	XRF Result Mg/cm^2
Administration Building (A)				
Exterior, side A	Drip edge	Metal	67 Linear Feet	3.5, 25.2
	Fascia	Wood	67 Linear Feet	137, 79, 21.4, 31
Rooftop	Pipe jack covering	Metal	5 Total	68
	HVAC duct support post	Metal	20 EA	68
Classroom Building (B) – Rooms 1 through 3				
Lower Roof Student Restroom Roof Breezeway Roof	Pipe jack covering	Metal	7 Total	68, 61, 70
Breezeway, side A at roof	Wall flashing	Metal	20 Linear Feet	1.4
Classroom Building (D) – Rooms 4 through 6				
Lower Roof	Pipe jack covering	Metal	4 Total	70

Note: This table must be used in conjunction with the entire report.

[1] NOTE: Per the request of the district representative, Building C, Portables P26 and P27 were excluded from this inspection.

XRF SAMPLE ANALYSIS DATA

Encinita Elementary School
4515 Encinita Avenue
Rosemead, California 91770

Location	Component	Substrate	Estimate Quantity	XRF Result Mg/cm^2
Classroom Building (E) – Rooms 7 through 10				
Lower Roof Student Restroom Roof Breezeway Roof	Pipe jack covering	Metal	6 Total	69, 69, 28.9
Breezeway, side A at roof	Wall flashing	Metal	20 Linear Feet	3.1
Classroom Building (F) – Rooms 11 through 14				
Lower Roof	Pipe jack covering	Metal	4 Total	70
Lower roof, sides C & D	Drip edge	Metal	140 Linear Feet	Positive Per EE Report 20-0027 Dated June 2020
Classroom Building (G) – Rooms 15 through 18				
Lower Roof Student Restroom Roof Breezeway Roof	Pipe jack covering	Metal	9 Total	72, 70, 71
Breezeway, side A at roof Lower Roof, side B	Wall flashing	Metal	148 Linear Feet	0.8, 1.4
Lower roof, sides C & D	Drip edge	Metal	140 Linear Feet	Positive Per EE Report 20-0027 Dated June 2020
Classroom Building (H) – Rooms 19 and 20				
Rooftop, north side (D)	Pipe jack covering	Metal	3 Total	71
Staff Restroom Building				
No regulated lead-based paint was identified on exterior surfaces and/or components that may be impacted by the roofing project.				

Note: This table must be used in conjunction with the entire report.

XRF SAMPLE ANALYSIS DATA
Encinita Elementary School
4515 Encinita Avenue
Rosemead, California 91770

Location	Component	Substrate	Estimate Quantity	XRF Result Mg/cm^2
Covered Walkways				
Covered Walkway no. 1	Pipe jack covering	Metal	2 Total	63
Covered Walkway no. 3	Pipe jack covering	Metal	3 Total	2.7
Covered Walkway no. 3, roof side C at wall of Building D	Wall flashing	Metal	6 Linear Feet	1.1
Covered Walkway no. 5, roof side D at wall of Building E	Wall flashing	Metal	128 Linear Feet	0.9, 5.8
Covered Walkway no. 7, roof side C at wall of Buildings F & G	Wall flashing	Metal	40 Linear Feet	1.2, 1.3
Covered Walkway no. 3	Conduit	Metal	2 Total	1.5, 1.2
No regulated lead-based paint was identified on exterior surfaces and/or components that may be impacted by the roofing project of the following Covered Walkways: No. 2, 4 and 6.				
Portables				
No regulated lead-based paint was identified on exterior surfaces and/or components that may be impacted by the roofing project of Portables P21 through P25, P28, P29, P30 and P40.				
Portables P26, P27 and Building C				
Not in scope of work for this project as directed by District				

V. CONCLUSIONS/RECOMMENDATIONS

EE conducted a limited lead-based paint inspection of the permanent buildings, portables and covered walkways at Encinita Elementary School located at 4515 Encinita Avenue, Rosemead, California. The inspection was conducted as a precursor for the upcoming roofing project. The following conclusions and/or recommendations apply:

Limited Lead-Based Paint Inspection

- Exterior coated surfaces and components of the permanent buildings, portables and covered walkways were tested via the Viken Detection XRF for the presence of lead.
- The items listed in the previous tables were identified as being coated with a regulated lead-based paint.

- The surfaces/components were observed to be in intact condition during this inspection.
- A fully representative number of XRF readings were taken at the project site. The results of these assays are presented in the XRF Summary Results spreadsheets.

It is recommended that all renovation, remodelling, construction, or demolition actions that might potentially disturb surfaces covered with lead-based paint and/or ceramic glaze be performed by properly trained and qualified personnel.

VI. DISCLAIMER/REPORT LIMITATIONS

All reports and recommendations are based on conditions and practices observed and information made available to Executive Environmental (EE) by the client and the designated sites/facilities on the days sampling was conducted. This report does not purport to set forth all hazards, nor to indicate that other hazards do not exist. No responsibility is assumed by EE for the control or correction of conditions or practices existing at the facilities, or at any other premises surveyed by EE, for and on the behalf of the client. Services provided by EE shall be governed by the standard of practice for professional services measured at the time those services are rendered.

All information contained in this report is proprietary and limited to the scope of services, parameters of the analytical methods used and the conditions present at the time of this inspection. Any references to quantities are considered estimates and are not to be construed as actual.

APPENDIX A – XRF SUMMARY RESULTS

Reading #	Date	Building	Room	Component	Substrate	Side	Condition	Concentration	Result
1	1/4/22			Calibrate				1	Positive
2	1/4/22			Calibrate				1	Positive
3	1/4/22			Calibrate				1	Positive
4	**1/4/22**	**Building A**	**Exterior**	**Drip edge**	**Metal**	**A**	**Intact**	**3.5**	**Positive**
5	**1/4/22**	**Building A**	**Exterior**	**Fascia**	**Wood**	**A**	**Intact**	**137**	**Positive**
6	**1/4/22**	**Building A**	**Exterior**	**Fascia**	**Wood**	**A**	**Intact**	**79**	**Positive**
7	1/4/22	Building A	Exterior	Fascia	Wood	D	Intact	-0.2	Negative
8	1/4/22	Building A	Exterior	Fascia	Wood	D	Intact	-0.1	Negative
9	1/4/22	Building A	Exterior	Fascia	Wood	D	Intact	-0.2	Negative
10	**1/4/22**	**Building A**	**Exterior**	**Fascia**	**Wood**	**A**	**Intact**	**21.4**	**Positive**
11	1/4/22	Building A	Exterior	Fascia	Wood	A	Intact	-1.3	Negative
12	1/4/22	Building A	Exterior	Fascia	Wood	A	Intact	-0.3	Negative
13	1/4/22	Building A	Exterior	Fascia	Wood	A	Intact	-0.2	Negative
14	**1/4/22**	**Building A**	**Exterior**	**Fascia**	**Wood**	**A**	**Intact**	**31**	**Positive**
15	1/4/22	Building A	Exterior	Gutter	Metal	C	Intact	-0.2	Negative
16	1/4/22	Building A	Exterior	Gutter	Metal	C	Intact	0	Negative
17	1/4/22	Building A	Exterior	Drip edge	Metal	C	Intact	0.2	Negative
18	1/4/22	Building A	Exterior	Fascia	Wood	C	Intact	-0.1	Negative
19	1/4/22	Building A	Exterior	Fascia	Wood	C	Intact	-0.1	Negative
20	1/4/22	Building A	Exterior	Fascia	Wood	D	Intact	-0.4	Negative
21	1/4/22	Building A	Exterior	Fascia	Wood	D	Intact	-0.2	Negative
22	1/4/22	Building A	Exterior	Fascia	Wood	D	Intact	-0.1	Negative
23	1/4/22	Building A	Exterior	Fascia	Wood	D	Intact	-0.2	Negative
24	1/4/22	Building A	Exterior	Drip edge	Metal	D	Intact	-0.5	Negative
25	1/4/22	Building A	Exterior	Drip edge	Metal	D	Intact	0	Negative
26	1/4/22	Building A	Exterior	Drip edge	Metal	D	Intact	-0.2	Negative
27	1/4/22	Building A	Exterior	Drip edge	Metal	A	Intact	-0.1	Negative
28	**1/4/22**	**Building A**	**Exterior**	**Drip edge**	**Metal**	**A**	**Intact**	**25.2**	**Positive**
29	1/4/22	Building A	Exterior	HVAC enclosure	Metal	Roof	Intact	-0.1	Negative
30	1/4/22	Building A	Exterior	HVAC enclosure	Metal	Roof	Intact	-0.2	Negative
31	1/4/22	Building A	Exterior	HVAC enclosure	Metal	Roof	Intact	0	Negative
32	1/4/22	Building A	Exterior	HVAC enclosure	Metal	Roof	Intact	-0.1	Negative
33	1/4/22	Building A	Exterior	HVAC enclosure	Metal	Roof	Intact	-0.1	Negative

Reading #	Date	Building	Room	Component	Substrate	Side	Condition	Concentration	Result
34	1/4/22	Building A	Exterior	HVAC enclosure	Metal	Roof	Intact	-0.1	Negative
35	1/4/22	Building A	Exterior	HVAC enclosure	Metal	Roof	Intact	-0.1	Negative
36	1/4/22	Building A	Exterior	HVAC enclosure	Metal	Roof	Intact	-0.1	Negative
37	1/4/22	Building A	Exterior	HVAC enclosure	Metal	Roof	Intact	-0.2	Negative
38	1/4/22	Building A	Exterior	HVAC enclosure	Metal	Roof	Intact	-0.1	Negative
39	1/4/22	Building A	Exterior	HVAC enclosure	Metal	Roof	Intact	0	Negative
40	1/4/22	Building A	Exterior	Drip edge	Metal	B	Intact	0.1	Negative
41	1/4/22	Building A	Exterior	Drip edge	Metal	B	Intact	-0.1	Negative
42	1/4/22	Building A	Exterior	Fascia	Wood	B	Intact	-0.3	Negative
43	1/4/22	Building A	Exterior	Fascia	Wood	B	Intact	-0.1	Negative
44	1/4/22	Building A	Exterior	Flashing	Metal	Roof	Intact	0	Negative
45	1/4/22	Building A	Exterior	Flashing	Metal	Roof	Intact	0.1	Negative
46	1/4/22	Building A	Exterior	Flashing	Metal	Roof	Intact	0	Negative
47	1/4/22	Building A	Exterior	Roof jack	Metal	Roof	Intact	0	Negative
48	1/4/22	Building A	Exterior	Roof jack	Metal	Roof	Intact	-0.1	Negative
49	1/4/22	Building A	Exterior	Roof jack	Metal	Roof	Intact	-0.1	Negative
50	1/4/22	Building A	Exterior	HVAC enclosure	Metal	Roof	Intact	0.2	Negative
51	1/4/22	Building B	Exterior	Drip edge	Metal	A	Intact	0.2	Negative
52	1/4/22	Building B	Exterior	Drip edge	Metal	B	Intact	0	Negative
53	1/4/22	Building B	Exterior	Drip edge	Metal	B	Intact	0.1	Negative
54	1/4/22	Building B	Exterior	Drip edge	Metal	B	Intact	0.1	Negative
55	1/4/22	Building B	Exterior	Drip edge	Metal	B	Intact	0.2	Negative
56	1/4/22	Building B	Exterior	Gutter	Metal	B	Intact	0	Negative
57	1/4/22	Building B	Exterior	Gutter	Metal	B	Intact	-0.1	Negative
58	1/4/22	Building B	Exterior	Gutter	Metal	B	Intact	0	Negative
59	1/4/22	Building B	Exterior	Drip edge	Metal	A	Intact	0.1	Negative
60	1/4/22	Building B	Exterior	Drip edge	Metal	D	Intact	0.2	Negative
61	1/4/22	Building B	Exterior	Drip edge	Metal	D	Intact	0.1	Negative
62	1/4/22	Building B	Exterior	Drip edge	Metal	D	Intact	0.2	Negative
63	1/4/22	Building B	Exterior	Drip edge	Metal	D	Intact	-0.2	Negative
64	1/4/22	Building B	Exterior	Drip edge	Metal	C	Intact	-0.4	Negative
65	1/4/22	Building B	Exterior	Drip edge	Metal	C	Intact	0.1	Negative
66	1/4/22	Building B	Exterior	Drip edge	Metal	C	Intact	0.1	Negative

Reading #	Date	Building	Room	Component	Substrate	Side	Condition	Concentration	Result
67	1/4/22	Building B	Exterior	Drip edge	Metal	C	Intact	0.1	Negative
68	1/4/22	Building B	Exterior	Drip edge	Metal	D	Intact	0.2	Negative
69	1/4/22	Building B	Exterior	Drip edge	Metal	D	Intact	0.2	Negative
70	1/4/22	Building B	Exterior	Drip edge	Metal	D	Intact	-0.3	Negative
71	1/4/22	Building B	Exterior	Gutter	Metal	D	Intact	-0.1	Negative
72	1/4/22	Building B	Exterior	Gutter	Metal	D	Intact	-0.1	Negative
73	1/4/22	Building B	Exterior	Gutter	Metal	D	Intact	-0.1	Negative
74	1/4/22	Building B	Exterior	Drip edge	Metal	A	Intact	0.1	Negative
75	1/4/22	Building B	Exterior	Drip edge	Metal	A	Intact	0.2	Negative
76	1/4/22	Building B	Exterior	Flashing	Metal	Roof	Intact	-0.3	Negative
77	1/4/22	Building B	Exterior	Flashing	Metal	Roof	Intact	0.1	Negative
78	1/4/22	Building B	Exterior	Flashing	Metal	Roof	Intact	-0.2	Negative
79	1/4/22	Building D	Exterior	Drip edge	Metal	A	Intact	0.1	Negative
80	1/4/22	Building D	Exterior	Drip edge	Metal	A	Intact	0.2	Negative
81	1/4/22	Building D	Exterior	Drip edge	Metal	B	Intact	0	Negative
82	1/4/22	Building D	Exterior	Drip edge	Metal	B	Intact	0.1	Negative
83	1/4/22	Building D	Exterior	Drip edge	Metal	B	Intact	0.1	Negative
84	1/4/22	Building D	Exterior	Drip edge	Metal	B	Intact	0.2	Negative
85	1/4/22	Building D	Exterior	Gutter	Metal	B	Intact	0	Negative
86	1/4/22	Building D	Exterior	Gutter	Metal	B	Intact	-0.1	Negative
87	1/4/22	Building D	Exterior	Gutter	Metal	B	Intact	0	Negative
88	1/4/22	Building D	Exterior	Gutter	Metal	B	Intact	0	Negative
89	1/4/22	Building D	Exterior	Drip edge	Metal	C	Intact	0	Negative
90	1/4/22	Building D	Exterior	Drip edge	Metal	C	Intact	0.1	Negative
91	1/4/22	Building D	Exterior	Drip edge	Metal	D	Intact	0	Negative
92	1/4/22	Building D	Exterior	Drip edge	Metal	D	Intact	0	Negative
93	1/4/22	Building D	Exterior	Drip edge	Metal	D	Intact	0.2	Negative
94	1/4/22	Building D	Exterior	Drip edge	Metal	D	Intact	0.1	Negative
95	1/4/22	Building D	Exterior	Drip edge	Metal	C	Intact	0.1	Negative
96	1/4/22	Building D	Exterior	Drip edge	Metal	C	Intact	0.2	Negative
97	1/4/22	Building D	Exterior	Drip edge	Metal	D	Intact	-0.1	Negative
98	1/4/22	Building D	Exterior	Drip edge	Metal	D	Intact	0	Negative
99	1/4/22	Building D	Exterior	Drip edge	Metal	D	Intact	0.2	Negative

Reading #	Date	Building	Room	Component	Substrate	Side	Condition	Concentration	Result
100	1/4/22	Building D	Exterior	Drip edge	Metal	D	Intact	0.2	Negative
101	1/4/22	Building D	Exterior	Gutter	Metal	D	Intact	0	Negative
102	1/4/22	Building D	Exterior	Gutter	Metal	D	Intact	0	Negative
103	1/4/22	Building D	Exterior	Gutter	Metal	D	Intact	-0.1	Negative
104	1/4/22	Building D	Exterior	Flashing	Metal	Roof	Intact	0	Negative
105	1/4/22	Building D	Exterior	Flashing	Metal	Roof	Intact	0.1	Negative
106	1/4/22	Building D	Exterior	Flashing	Metal	Roof	Intact	0.1	Negative
107	1/4/22	Building D	Exterior	Flashing	Metal	Roof	Intact	0	Negative
108	1/4/22	Building D	Exterior	Roof jack	Metal	Roof	Intact	-0.4	Negative
109	**1/4/22**	**Building D**	**Exterior**	**Roof jack pipe covering**	**Metal**	**Roof**	**Intact**	**70**	**Positive**
110	**1/4/22**	**Building B**	**Exterior**	**Roof jack pipe covering**	**Metal**	**Roof**	**Intact**	**68**	**Positive**
111	**1/4/22**	**Building A**	**Exterior**	**Roof jack pipe covering**	**Metal**	**Roof**	**Intact**	**68**	**Positive**
112	**1/4/22**	**Building A**	**Exterior**	**HVAC duct support post**	**Metal**	**Roof**	**Intact**	**68**	**Positive**
113	1/4/22			Calibrate				0.9	Positive
114	1/4/22			Calibrate				0.9	Positive
115	1/4/22			Calibrate				1	Positive
116	1/4/22	Building E	Exterior	Drip edge	Metal	A	Intact	0.2	Negative
117	1/4/22	Building E	Exterior	Drip edge	Metal	A	Intact	0.2	Negative
118	1/4/22	Building E	Exterior	Drip edge	Metal	A	Intact	-0.2	Negative
119	1/4/22	Building E	Exterior	Drip edge	Metal	B	Intact	-0.2	Negative
120	1/4/22	Building E	Exterior	Drip edge	Metal	B	Intact	0.1	Negative
121	1/4/22	Building E	Exterior	Drip edge	Metal	B	Intact	0	Negative
122	1/4/22	Building E	Exterior	Drip edge	Metal	B	Intact	0.1	Negative
123	1/4/22	Building E	Exterior	Gutter	Metal	B	Intact	0	Negative
124	1/4/22	Building E	Exterior	Gutter	Metal	B	Intact	0	Negative
125	1/4/22	Building E	Exterior	Gutter	Metal	B	Intact	0	Negative
126	1/4/22	Building E	Exterior	Gutter	Metal	B	Intact	0	Negative
127	1/4/22	Building E	Exterior	Drip edge	Metal	D	Intact	0.2	Negative
128	1/4/22	Building E	Exterior	Drip edge	Metal	D	Intact	0	Negative
129	1/4/22	Building E	Exterior	Drip edge	Metal	D	Intact	0.2	Negative
130	1/4/22	Building E	Exterior	Drip edge	Metal	D	Intact	0.1	Negative
131	1/4/22	Building E	Exterior	Drip edge	Metal	C	Intact	0.1	Negative
132	1/4/22	Building E	Exterior	Drip edge	Metal	C	Intact	0.1	Negative

Reading #	Date	Building	Room	Component	Substrate	Side	Condition	Concentration	Result
133	1/4/22	Building E	Exterior	Drip edge	Metal	C	Intact	0.1	Negative
134	1/4/22	Building E	Exterior	Flashing	Metal	Roof	Intact	0.4	Negative
135	1/4/22	Building E	Exterior	Flashing	Metal	Roof	Intact	0.3	Negative
136	1/4/22	Building E	Exterior	Flashing	Metal	Roof	Intact	-0.1	Negative
137	1/4/22	Building E	Exterior	Flashing	Metal	Roof	Intact	0	Negative
138	1/4/22	Building E	Exterior	Flashing	Metal	Roof	Intact	-0.4	Negative
139	**1/4/22**	**Building E**	**Exterior**	**Roof jack pipe covering**	**Metal**	**Roof**	**Intact**	**69**	**Positive**
140	1/4/22	Building E	Exterior	Gutter	Metal	B	Intact	0	Negative
141	1/4/22	Building E	Exterior	Gutter	Metal	B	Intact	0	Negative
142	1/4/22	Building F	Exterior	Drip edge	Metal	D	Intact	-0.1	Negative
143	1/4/22	Building F	Exterior	Drip edge	Metal	D	Intact	0	Negative
144	1/4/22	Building F	Exterior	Drip edge	Metal	D	Intact	0.1	Negative
145	1/4/22	Building F	Exterior	Drip edge	Metal	D	Intact	0.1	Negative
146	1/4/22	Building F	Exterior	Drip edge	Metal	A	Intact	-0.2	Negative
147	1/4/22	Building F	Exterior	Drip edge	Metal	A	Intact	0	Negative
148	1/4/22	Building F	Exterior	Drip edge	Metal	A	Intact	0	Negative
149	1/4/22	Building F	Exterior	Drip edge	Metal	B	Intact	0.2	Negative
150	1/4/22	Building F	Exterior	Drip edge	Metal	B	Intact	0.1	Negative
151	1/4/22	Building F	Exterior	Drip edge	Metal	B	Intact	-0.3	Negative
152	1/4/22	Building F	Exterior	Gutter	Metal	B	Intact	0	Negative
153	1/4/22	Building F	Exterior	Gutter	Metal	B	Intact	0	Negative
154	1/4/22	Building F	Exterior	Gutter	Metal	B	Intact	0	Negative
155	1/4/22	Building F	Exterior	Gutter	Metal	B	Intact	-0.1	Negative
156	1/4/22	Building F	Exterior	Drip edge	Metal	C	Intact	0.1	Negative
157	1/4/22	Building F	Exterior	Drip edge	Metal	C	Intact	0.1	Negative
158	1/4/22	Building F	Exterior	Drip edge	Metal	C	Intact	0.1	Negative
159	1/4/22	Building F	Exterior	Flashing	Metal	Roof	Intact	0.1	Negative
160	1/4/22	Building F	Exterior	Flashing	Metal	Roof	Intact	0	Negative
161	1/4/22	Building F	Exterior	Flashing	Metal	Roof	Intact	0.1	Negative
162	1/4/22	Building F	Exterior	Flashing	Metal	Roof	Intact	0.2	Negative
163	**1/4/22**	**Building F**	**Exterior**	**Roof jack pipe covering**	**Metal**	**Roof**	**Intact**	**70**	**Positive**
164	1/4/22	Building G	Exterior	Drip edge	Metal	A	Intact	0.1	Negative
165	1/4/22	Building G	Exterior	Drip edge	Metal	A	Intact	-0.1	Negative

Reading #	Date	Building	Room	Component	Substrate	Side	Condition	Concentration	Result
166	1/4/22	Building G	Exterior	Drip edge	Metal	A	Intact	-0.1	Negative
167	1/4/22	Building G	Exterior	Drip edge	Metal	B	Intact	-0.1	Negative
168	1/4/22	Building G	Exterior	Drip edge	Metal	B	Intact	0.1	Negative
169	1/4/22	Building G	Exterior	Drip edge	Metal	B	Intact	0	Negative
170	1/4/22	Building G	Exterior	Drip edge	Metal	B	Intact	0.1	Negative
171	1/4/22	Building G	Exterior	Drip edge	Metal	C	Intact	-0.1	Negative
172	1/4/22	Building G	Exterior	Drip edge	Metal	C	Intact	-0.1	Negative
173	1/4/22	Building G	Exterior	Drip edge	Metal	C	Intact	0	Negative
174	1/4/22	Building G	Exterior	Drip edge	Metal	D	Intact	-0.1	Negative
175	1/4/22	Building G	Exterior	Drip edge	Metal	D	Intact	-0.1	Negative
176	1/4/22	Building G	Exterior	Drip edge	Metal	D	Intact	0	Negative
177	1/4/22	Building G	Exterior	Drip edge	Metal	D	Intact	-0.1	Negative
178	1/4/22	Building G	Exterior	Drip edge	Metal	D	Intact	0.2	Negative
179	1/4/22	Building G	Exterior	Drip edge	Metal	D	Intact	0.1	Negative
180	1/4/22	Building G	Exterior	Drip edge	Metal	D	Intact	0.2	Negative
181	1/4/22	Building G	Exterior	Drip edge	Metal	D	Intact	0.1	Negative
182	1/4/22	Building G	Exterior	Drip edge	Metal	C	Intact	0	Negative
183	1/4/22	Building G	Exterior	Drip edge	Metal	C	Intact	0.1	Negative
184	1/4/22	Building G	Exterior	Gutter	Metal	D	Intact	0	Negative
185	1/4/22	Building G	Exterior	Gutter	Metal	D	Intact	-0.1	Negative
186	1/4/22	Building G	Exterior	Gutter	Metal	D	Intact	0	Negative
187	1/4/22	Building G	Exterior	Flashing	Metal	Roof	Intact	0.1	Negative
188	**1/4/22**	**Building G**	**Exterior**	**Flashing**	**Metal**	**Roof**	**Intact**	**0.8**	**Positive**
189	**1/4/22**	**Building G**	**Exterior**	**Roof jack pipe covering**	**Metal**	**Roof**	**Intact**	**72**	**Positive**
190	1/4/22	Building F	Exterior	Drip edge	Metal	D	Intact	0.1	Negative
191	1/4/22	Building F	Exterior	Drip edge	Metal	D	Intact	0.1	Negative
192	1/4/22	Building F	Exterior	Drip edge	Metal	D	Intact	0.2	Negative
193	1/4/22	Building F	Exterior	Drip edge	Metal	D	Intact	0.2	Negative
194	1/4/22	Building F	Exterior	Gutter	Metal	D	Intact	-0.1	Negative
195	1/4/22	Building F	Exterior	Drip edge	Metal	C	Intact	0.1	Negative
196	1/4/22	Building F	Exterior	Drip edge	Metal	C	Intact	-0.1	Negative
197	1/4/22	Building F	Exterior	Gutter	Metal	D	Intact	-0.2	Negative
198	1/4/22	Building F	Exterior	Gutter	Metal	D	Intact	0.1	Negative

Reading #	Date	Building	Room	Component	Substrate	Side	Condition	Concentration	Result
199	1/4/22	Building H	Exterior	Drip edge	Metal	A	Intact	-0.1	Negative
200	1/4/22	Building H	Exterior	Drip edge	Metal	A	Intact	0.2	Negative
201	1/4/22	Building H	Exterior	Gutter	Metal	A	Intact	0	Negative
202	1/4/22	Building H	Exterior	Drip edge	Metal	A	Intact	0	Negative
203	1/4/22	Building H	Exterior	Drip edge	Metal	A	Intact	0.2	Negative
204	1/4/22	Building H	Exterior	Drip edge	Metal	D	Intact	0.2	Negative
205	1/4/22	Building H	Exterior	Drip edge	Metal	D	Intact	0.1	Negative
206	1/4/22	Building H	Exterior	Drip edge	Metal	C	Intact	0.2	Negative
207	1/4/22	Building H	Exterior	Drip edge	Metal	C	Intact	-0.5	Negative
208	1/4/22	Building H	Exterior	Gutter	Metal	C	Intact	0.1	Negative
209	1/4/22	Building H	Exterior	Gutter	Metal	B	Intact	-0.1	Negative
210	1/4/22	Building H	Exterior	Drip edge	Metal	B	Intact	-0.2	Negative
211	**1/4/22**	**Building H**	**Exterior**	**Roof jack pipe covering**	**Metal**	**Roof**	**Intact**	**71**	**Positive**
212	1/4/22	Building H	Exterior	Pipe	Metal	Roof	Intact	0	Negative
213	1/4/22	Building H	Exterior	Pipe	Metal	Roof	Intact	0	Negative
214	1/4/22	Building H	Exterior	Roof jack	Metal	Roof	Intact	0	Negative
215	1/4/22	Building H	Exterior	Roof jack	Metal	Roof	Intact	0	Negative
216	1/4/22			Calibrate				1	Positive
217	1/4/22			Calibrate				0.9	Positive
218	1/4/22			Calibrate				1	Positive
219	1/10/22			Calibrate				1	Positive
220	1/10/22			Calibrate				1	Positive
221	1/10/22			Calibrate				1	Positive
222	1/10/22	Staff Restroom Building	Exterior	Flashing	Metal	A	Intact	0.1	Negative
223	1/10/22	Staff Restroom Building	Exterior	Flashing	Metal	B	Intact	0.1	Negative
224	1/10/22	Staff Restroom Building	Exterior	Flashing	Metal	C	Intact	0.2	Negative
225	1/10/22	Staff Restroom Building	Exterior	Flashing	Metal	D	Intact	0.1	Negative
226	1/10/22	Staff Restroom Building	Exterior	Roof Coating	Roofing		Intact	0	Negative
227	1/10/22	Staff Restroom Building	Exterior	Roof Coating	Roofing		Intact	-0.1	Negative
228	1/10/22	Staff Restroom Building	Exterior	Vent	Metal		Intact	0.1	Negative
229	1/10/22	Staff Restroom Building	Exterior	Drain	Metal		Intact	0.1	Negative
230	1/10/22	Staff Restroom Building	Exterior	Vent	Metal		Intact	-0.1	Negative
231	1/10/22	Staff Restroom Building	Overhang	Drip edge	Metal	A	Intact	-0.1	Negative

Reading #	Date	Building	Room	Component	Substrate	Side	Condition	Concentration	Result
232	1/10/22	Staff Restroom Building	Overhang	Drip edge	Metal	B	Intact	0.1	Negative
233	1/10/22	Staff Restroom Building	Overhang	Drip edge	Metal	C	Intact	-0.2	Negative
234	1/10/22	Staff Restroom Building	Overhang	Flashing	Metal	D	Intact	0.1	Negative
235	1/10/22	Staff Restroom Building	Overhang	Roof Coating	Roofing		Intact	-0.1	Negative
236	1/10/22	Staff Restroom Building	Overhang	Fascia	Wood	B	Intact	-0.1	Negative
237	**1/10/22**	**Building B Student Restroom and Breezeway**	**Exterior**	**Roof jack pipe covering**	**Metal**	**Roof**	**Intact**	**61**	**Positive**
238	**1/10/22**	**Building B Student Restroom and Breezeway**	**Exterior**	**Roof jack pipe covering**	**Metal**	**Roof**	**Intact**	**70**	**Positive**
239	1/10/22	Building B Student Restroom and Breezeway	Exterior	Vent	Metal	Roof	Intact	-0.1	Negative
240	1/10/22	Building B Student Restroom and Breezeway	Exterior	Vent	Metal	Roof	Intact	0	Negative
241	1/10/22	Building B Student Restroom and Breezeway	Exterior	Skylight	Metal	Roof	Intact	0.3	Negative
242	1/10/22	Building B Student Restroom and Breezeway	Exterior	Gas Pipe	Metal	Roof	Intact	0.1	Negative
243	1/10/22	Building B Student Restroom and Breezeway	Exterior	Flashing	Metal	A	Intact	0.3	Negative
244	**1/10/22**	**Building B Student Restroom and Breezeway**	**Exterior**	**Flashing**	**Metal**	**A**	**Intact**	**1.4**	**Positive**
245	1/10/22	Building B Student Restroom and Breezeway	Exterior	Drip edge	Metal	A	Intact	0	Negative
246	1/10/22	Building B Student Restroom and Breezeway	Exterior	Drip edge	Metal	B	Intact	-0.3	Negative
247	1/10/22	Building B Student Restroom and Breezeway	Exterior	Fascia	Wood	B	Intact	-0.1	Negative
248	1/10/22	Building B Student Restroom and Breezeway	Exterior	Drip edge	Metal	C	Intact	-0.2	Negative
249	1/10/22	Building B Student Restroom and Breezeway	Exterior	Drip edge	Metal	C	Intact	0	Negative
250	1/10/22	Building B Student Restroom and Breezeway	Exterior	Drip edge	Metal	D	Intact	0.1	Negative

Reading #	Date	Building	Room	Component	Substrate	Side	Condition	Concentration	Result
251	1/10/22	Building B Student Restroom and Breezeway	Exterior	Ceiling beam	Wood	Upper	Intact	-0.2	Negative
252	1/10/22	Building B Student Restroom and Breezeway	Exterior	Ceiling beam	Wood	Upper	Intact	0.1	Negative
253	1/10/22	Building B Student Restroom and Breezeway	Exterior	Ceiling	Wood	Upper	Intact	-0.2	Negative
254	1/10/22	Building B Student Restroom and Breezeway	Exterior	Ceiling	Wood	Upper	Intact	-0.1	Negative
255	**1/10/22**	**Building E Student Restroom and Breezeway**	**Exterior**	**Roof jack pipe covering**	**Metal**	**Roof**	**Intact**	**69**	**Positive**
256	**1/10/22**	**Building E Student Restroom and Breezeway**	**Exterior**	**Roof jack pipe covering**	**Metal**	**Roof**	**Intact**	**28.9**	**Positive**
257	1/10/22	Building E Student Restroom and Breezeway	Exterior	Vent	Metal	Roof	Intact	0	Negative
258	1/10/22	Building E Student Restroom and Breezeway	Exterior	Vent	Metal	Roof	Intact	0	Negative
259	1/10/22	Building E Student Restroom and Breezeway	Exterior	Skylight	Metal	Roof	Intact	0.1	Negative
260	**1/10/22**	**Building E Student Restroom and Breezeway**	**Exterior**	**Flashing**	**Metal**	**A**	**Intact**	**3.1**	**Positive**
261	1/10/22	Building E Student Restroom and Breezeway	Exterior	Drip edge	Metal	A	Intact	-0.1	Negative
262	1/10/22	Building E Student Restroom and Breezeway	Exterior	Drip edge	Metal	B	Intact	0.2	Negative
263	1/10/22	Building E Student Restroom and Breezeway	Exterior	Fascia	Wood	B	Intact	-0.1	Negative
264	1/10/22	Building E Student Restroom and Breezeway	Exterior	Drip edge	Metal	C	Intact	0.2	Negative
265	1/10/22	Building E Student Restroom and Breezeway	Exterior	Fascia	Wood	C	Intact	-0.2	Negative
266	1/10/22	Building E Student Restroom and Breezeway	Exterior	Flashing	Metal	C	Intact	0.1	Negative

Reading #	Date	Building	Room	Component	Substrate	Side	Condition	Concentration	Result
267	1/10/22	Building E Student Restroom and Breezeway	Exterior	Flashing	Metal	D	Intact	0.2	Negative
268	1/10/22	Building E Student Restroom and Breezeway	Exterior	Ceiling beam	Wood	Upper	Intact	-0.1	Negative
269	1/10/22	Building E Student Restroom and Breezeway	Exterior	Ceiling beam	Wood	Upper	Intact	-0.4	Negative
270	1/10/22	Building E Student Restroom and Breezeway	Exterior	Ceiling	Wood	Upper	Intact	0	Negative
271	1/10/22	Building E Student Restroom and Breezeway	Exterior	Ceiling	Wood	Upper	Intact	-0.1	Negative
272	**1/10/22**	**Building G Student Restroom and Breezeway**	**Exterior**	**Roof jack pipe covering**	**Metal**	**Roof**	**Intact**	**70**	**Positive**
273	**1/10/22**	**Building G Student Restroom and Breezeway**	**Exterior**	**Roof jack pipe covering**	**Metal**	**Roof**	**Intact**	**71**	**Positive**
274	**1/10/22**	**Building G Student Restroom and Breezeway**	**Exterior**	**Roof jack pipe covering**	**Metal**	**Roof**	**Intact**	**71**	**Positive**
275	1/10/22	Building G Student Restroom and Breezeway	Exterior	Vent	Metal	Roof	Intact	0	Negative
276	1/10/22	Building G Student Restroom and Breezeway	Exterior	Vent	Metal	Roof	Intact	0	Negative
277	1/10/22	Building G Student Restroom and Breezeway	Exterior	Skylight	Metal	Roof	Intact	0	Negative
278	**1/10/22**	**Building G Student Restroom and Breezeway**	**Exterior**	**Flashing**	**Metal**	**A**	**Intact**	**1.4**	**Positive**
279	1/10/22	Building G Student Restroom and Breezeway	Exterior	Flashing	Metal	A	Intact	0	Negative
280	1/10/22	Building G Student Restroom and Breezeway	Exterior	Drip edge	Metal	A	Intact	-0.3	Negative
281	1/10/22	Building G Student Restroom and Breezeway	Exterior	Drip edge	Metal	A	Intact	0.1	Negative
282	1/10/22	Building G Student Restroom and Breezeway	Exterior	Flashing	Metal	B	Intact	0.1	Negative

Reading #	Date	Building	Room	Component	Substrate	Side	Condition	Concentration	Result
283	1/10/22	Building G Student Restroom and Breezeway	Exterior	Fascia	Wood	B	Intact	-0.1	Negative
284	1/10/22	Building G Student Restroom and Breezeway	Exterior	Drip edge	Metal	B	Intact	0.2	Negative
285	1/10/22	Building G Student Restroom and Breezeway	Exterior	Flashing	Metal	C	Intact	0.1	Negative
286	1/10/22	Building G Student Restroom and Breezeway	Exterior	Fascia	Wood	C	Intact	-0.1	Negative
287	1/10/22	Building G Student Restroom and Breezeway	Exterior	Flashing	Metal	C	Intact	0.4	Negative
288	1/10/22	Building G Student Restroom and Breezeway	Exterior	Flashing	Metal	D	Intact	0.2	Negative
289	1/10/22	Building G Student Restroom and Breezeway	Exterior	Ceiling beam	Wood	Upper	Intact	-0.1	Negative
290	1/10/22	Building G Student Restroom and Breezeway	Exterior	Ceiling beam	Wood	Upper	Intact	-0.2	Negative
291	1/10/22	Building G Student Restroom and Breezeway	Exterior	Ceiling	Wood	Upper	Intact	-0.2	Negative
292	1/10/22	Building G Student Restroom and Breezeway	Exterior	Ceiling	Wood	Upper	Intact	-0.2	Negative
293	**1/10/22**	**Covered Walkway 1**	**Exterior**	**Roof jack pipe covering**	**Metal**	**A**	**Intact**	**63**	**Positive**
294	1/10/22	Covered Walkway 1	Exterior	Gas Pipe	Metal		Intact	0.2	Negative
295	1/10/22	Covered Walkway 1	Exterior	Electrical box	Metal	C	Intact	0.1	Negative
296	1/10/22	Covered Walkway 1	Exterior	Flashing	Metal	C	Intact	0.1	Negative
297	1/10/22	Covered Walkway 1	Exterior	Flashing	Metal	C	Intact	-0.2	Negative
298	1/10/22	Covered Walkway 1	Exterior	Gutter	Metal	B	Intact	0	Negative
299	1/10/22	Covered Walkway 1	Exterior	Drip edge	Metal	B	Intact	0.1	Negative
300	1/10/22	Covered Walkway 1	Exterior	Fascia	Wood	B	Intact	-0.1	Negative
301	1/10/22	Covered Walkway 1	Exterior	Drip edge	Metal	C	Intact	0.2	Negative
302	1/10/22	Covered Walkway 1	Exterior	Fascia	Wood	C	Intact	-0.1	Negative
303	1/10/22	Covered Walkway 1	Exterior	Drip edge	Metal	D	Intact	-0.3	Negative
304	1/10/22	Covered Walkway 1	Exterior	Fascia	Wood	D	Intact	-0.1	Negative
305	1/10/22	Covered Walkway 1	Exterior	Ceiling beam	Wood	Upper	Intact	-0.2	Negative

Reading #	Date	Building	Room	Component	Substrate	Side	Condition	Concentration	Result
306	1/10/22	Covered Walkway 1	Exterior	Ceiling beam	Wood	Upper	Intact	-0.3	Negative
307	1/10/22	Covered Walkway 1	Exterior	Ceiling	Wood	Upper	Intact	-0.2	Negative
308	1/10/22	Covered Walkway 1	Exterior	Ceiling	Wood	Upper	Intact	-0.2	Negative
309	1/10/22	Covered Walkway 1	Exterior	Downspout	Metal	B	Intact	-0.2	Negative
310	1/10/22	Covered Walkway 2	Exterior	Gas Pipe	Metal	Roof	Intact	0.1	Negative
311	1/10/22	Covered Walkway 2	Exterior	Flashing	Metal	A	Intact	0.2	Negative
312	1/10/22	Covered Walkway 2	Exterior	Fascia	Wood	A	Intact	-0.1	Negative
313	1/10/22	Covered Walkway 2	Exterior	Drip edge	Metal	B	Intact	0.2	Negative
314	1/10/22	Covered Walkway 2	Exterior	Drip edge	Metal	B	Intact	0.2	Negative
315	1/10/22	Covered Walkway 2	Exterior	Drip edge	Metal	B	Intact	0.2	Negative
316	1/10/22			Calibrate				1	Positive
317	1/10/22			Calibrate				1	Positive
318	1/10/22			Calibrate				1	Positive
319	1/10/22	Covered Walkway 2	Exterior	Flashing	Metal	D	Intact	-0.3	Negative
320	1/10/22	Covered Walkway 2	Exterior	Flashing	Metal	D	Intact	0	Negative
321	1/10/22	Covered Walkway 2	Exterior	Flashing	Metal	D	Intact	-0.3	Negative
322	1/10/22	Covered Walkway 2	Exterior	Ceiling beam	Wood	Upper	Intact	-0.4	Negative
323	1/10/22	Covered Walkway 2	Exterior	Ceiling beam	Wood	Upper	Intact	-0.1	Negative
324	1/10/22	Covered Walkway 2	Exterior	Ceiling beam	Wood	Upper	Intact	-0.3	Negative
325	1/10/22	Covered Walkway 2	Exterior	Ceiling	Wood	Upper	Intact	-0.2	Negative
326	1/10/22	Covered Walkway 2	Exterior	Ceiling	Wood	Upper	Intact	0	Negative
327	1/10/22	Covered Walkway 2	Exterior	Ceiling	Wood	Upper	Intact	-0.1	Negative
328	1/10/22	Covered Walkway 2	Exterior	Downspout	Metal	B	Intact	0	Negative
329	1/10/22	Covered Walkway 3	Exterior	Gas Pipe	Metal	Roof	Intact	0.1	Negative
330	**1/10/22**	**Covered Walkway 3**	**Exterior**	**Roof Jack Pipe Covering**	**Metal**	**Roof**	**Intact**	**2.7**	**Positive**
331	1/10/22	Covered Walkway 3	Exterior	Drip edge	Metal	A	Intact	0.3	Negative
332	1/10/22	Covered Walkway 3	Exterior	Fascia	Wood	A	Intact	0.1	Negative
333	1/10/22	Covered Walkway 3	Exterior	Flashing	Metal	B	Intact	0.1	Negative
334	1/10/22	Covered Walkway 3	Exterior	Fascia	Wood	B	Intact	0.2	Negative
335	**1/10/22**	**Covered Walkway 3**	**Exterior**	**Flashing**	**Metal**	**C**	**Intact**	**1.1**	**Positive**
336	1/10/22	Covered Walkway 3	Exterior	Flashing	Metal	B	Intact	0.3	Negative
337	1/10/22	Covered Walkway 3	Exterior	Flashing	Metal	B	Intact	0.2	Negative
338	1/10/22	Covered Walkway 3	Exterior	Drip edge	Metal	C	Intact	0.2	Negative

Reading #	Date	Building	Room	Component	Substrate	Side	Condition	Concentration	Result
339	1/10/22	Covered Walkway 3	Exterior	Fascia	Wood	C	Intact	0.1	Negative
340	**1/10/22**	**Covered Walkway 3**	**Exterior**	**Conduit**	**Metal**	**C**	**Intact**	**1.5**	**Positive**
341	**1/10/22**	**Covered Walkway 3**	**Exterior**	**Conduit**	**Metal**	**C**	**Intact**	**1.2**	**Positive**
342	1/10/22	Covered Walkway 3	Exterior	Drip edge	Metal	D	Intact	0.1	Negative
343	1/10/22	Covered Walkway 3	Exterior	Fascia	Wood	D	Intact	0	Negative
344	1/10/22	Covered Walkway 3	Exterior	Drain	Metal	Roof	Intact	0.1	Negative
345	1/10/22	Covered Walkway 4	Exterior	Gas Pipe	Metal	Roof	Intact	0.2	Negative
346	1/10/22	Covered Walkway 4	Exterior	Flashing	Metal	A	Intact	0.1	Negative
347	1/10/22	Covered Walkway 4	Exterior	Fascia	Wood	A	Intact	-0.2	Negative
348	1/10/22	Covered Walkway 4	Exterior	Flashing	Metal	B	Intact	-0.1	Negative
349	1/10/22	Covered Walkway 4	Exterior	Flashing	Metal	C	Intact	0.2	Negative
350	1/10/22	Covered Walkway 4	Exterior	Flashing	Metal	C	Intact	-0.4	Negative
351	1/10/22	Covered Walkway 4	Exterior	Drip edge	Metal	C	Intact	0.2	Negative
352	1/10/22	Covered Walkway 4	Exterior	Fascia	Wood	C	Intact	-0.1	Negative
353	1/10/22	Covered Walkway 4	Exterior	Drip edge	Metal	B	Intact	-0.2	Negative
354	1/10/22	Covered Walkway 4	Exterior	Fascia	Wood	B	Intact	-0.1	Negative
355	1/10/22	Covered Walkway 4	Exterior	Downspout	Metal	B	Intact	0	Negative
356	1/10/22	Covered Walkway 4	Exterior	Drip edge	Metal	C	Intact	-0.1	Negative
357	1/10/22	Covered Walkway 4	Exterior	Fascia	Wood	C	Intact	-0.2	Negative
358	1/10/22	Covered Walkway 4	Exterior	Flashing	Metal	D	Intact	0	Negative
359	1/10/22	Covered Walkway 4	Exterior	Flashing	Metal	D	Intact	0.3	Negative
360	1/10/22	Covered Walkway 4	Exterior	Flashing	Metal	D	Intact	0.2	Negative
361	1/10/22	Covered Walkway 4	Exterior	Flashing	Metal	C	Intact	0.2	Negative
362	1/10/22	Covered Walkway 4	Exterior	Fascia	Metal	D	Intact	0.2	Negative
363	1/10/22	Covered Walkway 4	Exterior	Drip edge	Metal	D	Intact	0.2	Negative
364	1/10/22	Covered Walkway 4	Exterior	Ceiling beam	Wood	Upper	Intact	-0.2	Negative
365	1/10/22	Covered Walkway 4	Exterior	Ceiling beam	Wood	Upper	Intact	-0.1	Negative
366	1/10/22	Covered Walkway 4	Exterior	Ceiling beam	Wood	Upper	Intact	-0.2	Negative
367	1/10/22	Covered Walkway 4	Exterior	Ceiling beam	Wood	Upper	Intact	-0.1	Negative
368	1/10/22	Covered Walkway 4	Exterior	Ceiling	Wood	Upper	Intact	-0.1	Negative
369	1/10/22	Covered Walkway 4	Exterior	Ceiling	Wood	Upper	Intact	-0.2	Negative
370	1/10/22	Covered Walkway 4	Exterior	Ceiling	Wood	Upper	Intact	-0.1	Negative
371	1/10/22	CoveredWalkway 5	Exterior	Gas Pipe	Metal	Roof	Intact	0.1	Negative

Reading #	Date	Building	Room	Component	Substrate	Side	Condition	Concentration	Result
372	1/10/22	CoveredWalkway 5	Exterior	Drip edge	Metal	A	Intact	-0.3	Negative
373	1/10/22	CoveredWalkway 5	Exterior	Fascia	Wood	A	Intact	-0.1	Negative
374	1/10/22	CoveredWalkway 5	Exterior	Drip edge	Metal	B	Intact	0	Negative
375	1/10/22	CoveredWalkway 5	Exterior	Drip edge	Metal	C	Intact	0.2	Negative
376	1/10/22	CoveredWalkway 5	Exterior	Fascia	Wood	C	Intact	-0.2	Negative
377	1/10/22	CoveredWalkway 5	Exterior	Drip edge	Metal	B	Intact	0.1	Negative
378	1/10/22	CoveredWalkway 5	Exterior	Fascia	Wood	B	Intact	-0.4	Negative
379	1/10/22	CoveredWalkway 5	Exterior	Downspout	Metal	B	Intact	0	Negative
380	1/10/22	CoveredWalkway 5	Exterior	Flashing	Metal	D	Intact	0.2	Negative
381	**1/10/22**	**CoveredWalkway 5**	**Exterior**	**Flashing**	**Metal**	**D**	**Intact**	**0.9**	**Positive**
382	1/10/22	CoveredWalkway 5	Exterior	Flashing	Metal	D	Intact	-0.3	Negative
383	**1/10/22**	**CoveredWalkway 5**	**Exterior**	**Flashing**	**Metal**	**D**	**Intact**	**5.8**	**Positive**
384	1/10/22	CoveredWalkway 5	Exterior	Flashing	Metal	C	Intact	-0.2	Negative
385	1/10/22	Covered Walkway 6	Exterior	Flashing	Metal	A	Intact	0	Negative
386	1/10/22	CoveredWalkway 5	Exterior	Ceiling beam	Wood	Upper	Intact	0	Negative
387	1/10/22	CoveredWalkway 5	Exterior	Ceiling beam	Wood	Upper	Intact	-0.2	Negative
388	1/10/22	CoveredWalkway 5	Exterior	Ceiling beam	Wood	Upper	Intact	-0.2	Negative
389	1/10/22	CoveredWalkway 5	Exterior	Ceiling beam	Wood	Upper	Intact	-0.3	Negative
390	1/10/22	CoveredWalkway 5	Exterior	Ceiling	Wood	Upper	Intact	-0.2	Negative
391	1/10/22	CoveredWalkway 5	Exterior	Ceiling	Wood	Upper	Intact	-0.2	Negative
392	1/10/22	CoveredWalkway 5	Exterior	Ceiling	Wood	Upper	Intact	-0.1	Negative
393	1/10/22	CoveredWalkway 5	Exterior	Ceiling	Wood	Upper	Intact	-0.1	Negative
394	1/10/22	Covered Walkway 6	Exterior	Drip edge	Metal	B	Intact	0.1	Negative
395	1/10/22	Covered Walkway 6	Exterior	Gutter	Metal	B	Intact	0.1	Negative
396	1/10/22	Covered Walkway 6	Exterior	Fascia	Wood	B	Intact	-0.1	Negative
397	1/10/22	Covered Walkway 6	Exterior	Drip edge	Metal	B	Intact	0.2	Negative
398	1/10/22	Covered Walkway 6	Exterior	Fascia	Wood	B	Intact	-0.3	Negative
399	1/10/22	Covered Walkway 6	Exterior	Flashing	Metal	C	Intact	0.2	Negative
400	1/10/22	Covered Walkway 6	Exterior	Fascia	Wood	C	Intact	-0.1	Negative
401	1/10/22	Covered Walkway 6	Exterior	Flashing	Metal	D	Intact	-0.2	Negative
402	1/10/22	Covered Walkway 6	Exterior	Flashing	Metal	D	Intact	-0.8	Negative
403	1/10/22	Covered Walkway 6	Exterior	Downspout	Metal	D	Intact	0.1	Negative
404	1/10/22	Covered Walkway 6	Exterior	Ceiling beam	Wood	Upper	Intact	-0.2	Negative

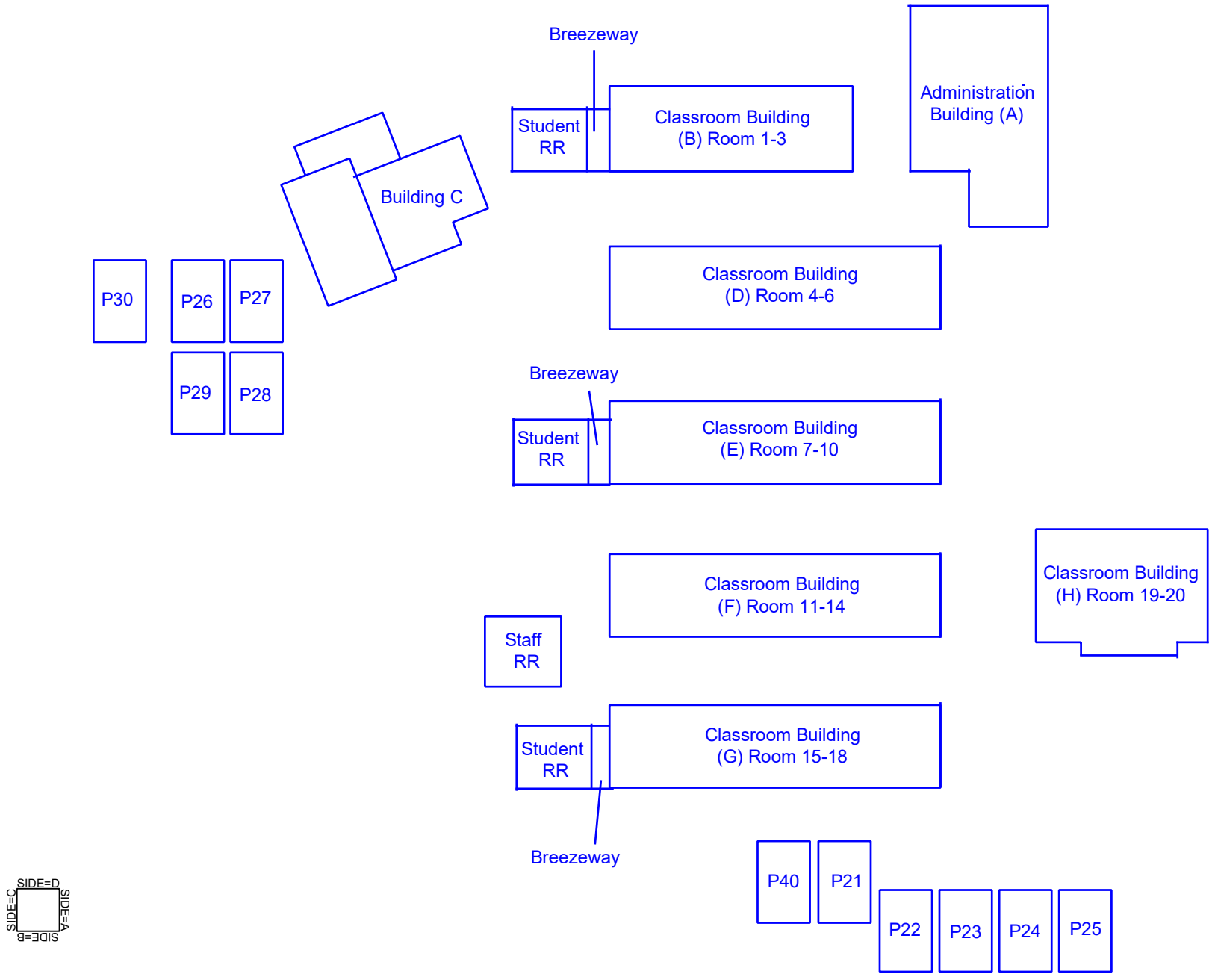
Reading #	Date	Building	Room	Component	Substrate	Side	Condition	Concentration	Result
405	1/10/22	Covered Walkway 6	Exterior	Ceiling beam	Wood	Upper	Intact	-0.4	Negative
406	1/10/22	Covered Walkway 6	Exterior	Ceiling beam	Wood	Upper	Intact	-0.4	Negative
407	1/10/22	Covered Walkway 6	Exterior	Ceiling	Wood	Upper	Intact	-0.1	Negative
408	1/10/22	Covered Walkway 6	Exterior	Ceiling	Wood	Upper	Intact	-0.2	Negative
409	1/10/22	Covered Walkway 6	Exterior	Ceiling	Wood	Upper	Intact	-0.1	Negative
410	1/10/22	Covered Walkway 7	Exterior	Gas Pipe	Metal	Roof	Intact	0.1	Negative
411	1/10/22	Covered Walkway 7	Exterior	Drip edge	Metal	A	Intact	0.2	Negative
412	1/10/22	Covered Walkway 7	Exterior	Fascia	Wood	A	Intact	-0.3	Negative
413	1/10/22	Covered Walkway 7	Exterior	Drip edge	Metal	D	Intact	0.2	Negative
414	1/10/22	Covered Walkway 7	Exterior	Fascia	Wood	D	Intact	-0.2	Negative
415	1/10/22	Covered Walkway 7	Exterior	Drip edge	Metal	B	Intact	-0.1	Negative
416	1/10/22	Covered Walkway 7	Exterior	Fascia	Wood	B	Intact	-0.2	Negative
417	1/10/22	Covered Walkway 7	Exterior	Conduit	Wood	B	Intact	0	Negative
418	1/10/22	Covered Walkway 7	Exterior	Drip edge	Metal	A	Intact	0.3	Negative
419	1/10/22	Covered Walkway 7	Exterior	Fascia	Wood	A	Intact	-0.4	Negative
420	1/10/22	Covered Walkway 7	Exterior	Drip edge	Metal	B	Intact	0.2	Negative
421	1/10/22	Covered Walkway 7	Exterior	Fascia	Wood	B	Intact	0	Negative
422	1/10/22	Covered Walkway 7	Exterior	Downspout	Wood	B	Intact	0	Negative
423	1/10/22	Covered Walkway 7	Exterior	Flashing	Metal	D	Intact	-0.2	Negative
424	1/10/22	Covered Walkway 7	Exterior	Flashing	Metal	D	Intact	-0.1	Negative
425	**1/10/22**	**Covered Walkway 7**	**Exterior**	**Flashing**	**Metal**	**C**	**Intact**	**1.2**	**Positive**
426	1/10/22	Covered Walkway 7	Exterior	Drip edge	Metal	C	Intact	0.2	Negative
427	1/10/22	Covered Walkway 7	Exterior	Fascia	Wood	C	Intact	-0.1	Negative
428	1/10/22	Covered Walkway 7	Exterior	Gutter	Metal	C	Intact	0.1	Negative
429	**1/10/22**	**Covered Walkway 7**	**Exterior**	**Flashing**	**Metal**	**C**	**Intact**	**1.3**	**Positive**
430	1/10/22	Covered Walkway 7	Exterior	Ceiling beam	Wood	Upper	Intact	-0.2	Negative
431	1/10/22	Covered Walkway 7	Exterior	Ceiling beam	Wood	Upper	Intact	-0.2	Negative
432	1/10/22	Covered Walkway 7	Exterior	Ceiling beam	Wood	Upper	Intact	-0.3	Negative
433	1/10/22	Covered Walkway 7	Exterior	Ceiling beam	Wood	Upper	Intact	-0.2	Negative
434	1/10/22	Covered Walkway 7	Exterior	Ceiling beam	Wood	Upper	Intact	-0.2	Negative
435	1/10/22	Covered Walkway 7	Exterior	Ceiling	Wood	Upper	Intact	-0.1	Negative
436	1/10/22	Covered Walkway 7	Exterior	Ceiling	Wood	Upper	Intact	-0.1	Negative
437	1/10/22	Covered Walkway 7	Exterior	Ceiling	Wood	Upper	Intact	-0.1	Negative

Reading #	Date	Building	Room	Component	Substrate	Side	Condition	Concentration	Result
438	1/10/22	Covered Walkway 7	Exterior	Ceiling	Wood	Upper	Intact	-0.2	Negative
439	1/10/22	Covered Walkway 7	Exterior	Ceiling	Wood	Upper	Intact	-0.1	Negative
440	1/10/22	Portable P40	Exterior	Gutter	Metal	A	Intact	0.1	Negative
441	1/10/22	Portable P40	Exterior	Downspout	Metal	A	Intact	0	Negative
442	1/10/22	Portable P40	Exterior	Drip edge	Metal	B	Intact	0.2	Negative
443	1/10/22	Portable P40	Exterior	Fascia	Wood	B	Intact	-0.2	Negative
444	1/10/22	Portable P40	Exterior	Gutter	Metal	C	Intact	0.2	Negative
445	1/10/22	Portable P40	Exterior	Drip edge	Metal	D	Intact	-0.3	Negative
446	1/10/22	Portable P40	Exterior	Fascia	Wood	D	Intact	-0.2	Negative
447	1/10/22	Portable P21	Exterior	Drip edge	Metal	A	Intact	0	Negative
448	1/10/22	Portable P21	Exterior	Fascia	Metal	A	Intact	0.1	Negative
449	1/10/22	Portable P21	Exterior	Gutter	Metal	B	Intact	-0.1	Negative
450	1/10/22	Portable P21	Exterior	Drip edge	Metal	B	Intact	0.1	Negative
451	1/10/22	Portable P21	Exterior	Drip edge	Metal	C	Intact	0	Negative
452	1/10/22	Portable P21	Exterior	Fascia	Metal	C	Intact	-0.1	Negative
453	1/10/22	Portable P21	Exterior	Drip edge	Metal	D	Intact	0.2	Negative
454	1/10/22	Portable P21	Exterior	Gutter	Metal	D	Intact	0	Negative
455	1/10/22	Portable P21	Exterior	Downspout	Metal	D	Intact	0	Negative
456	1/10/22	Portable P22	Exterior	Drip edge	Metal	B	Intact	-0.3	Negative
457	1/10/22	Portable P22	Exterior	Gutter	Metal	B	Intact	-0.1	Negative
458	1/10/22	Portable P22	Exterior	Drip edge	Metal	C	Intact	-0.2	Negative
459	1/10/22	Portable P22	Exterior	Fascia	Metal	C	Intact	0	Negative
460	1/10/22	Portable P22	Exterior	Drip edge	Metal	D	Intact	-0.6	Negative
461	1/10/22	Portable P22	Exterior	Gutter	Metal	D	Intact	0	Negative
462	1/10/22	Portable P23	Exterior	Drip edge	Metal	B	Intact	-0.2	Negative
463	1/10/22	Portable P23	Exterior	Gutter	Metal	B	Intact	-0.1	Negative
464	1/10/22	Portable P23	Exterior	Drip edge	Metal	D	Intact	0.1	Negative
465	1/10/22	Portable P23	Exterior	Gutter	Metal	D	Intact	0	Negative
466	1/10/22	Portable P23	Exterior	Downspout	Metal	D	Intact	-0.1	Negative
467	1/10/22	Portable P24	Exterior	Drip edge	Metal	B	Intact	-0.2	Negative
468	1/10/22	Portable P24	Exterior	Gutter	Metal	B	Intact	0	Negative
469	1/10/22	Portable P24	Exterior	Drip edge	Metal	D	Intact	-0.2	Negative
470	1/10/22	Portable P24	Exterior	Gutter	Metal	D	Intact	0	Negative

Reading #	Date	Building	Room	Component	Substrate	Side	Condition	Concentration	Result
471	1/10/22	Portable P24	Exterior	Downspout	Metal	D	Intact	-0.1	Negative
472	1/10/22	Portable P25	Exterior	Drip edge	Metal	A	Intact	-0.2	Negative
473	1/10/22	Portable P25	Exterior	Fascia	Metal	A	Intact	0	Negative
474	1/10/22	Portable P25	Exterior	Drip edge	Metal	B	Intact	-0.2	Negative
475	1/10/22	Portable P25	Exterior	Gutter	Metal	B	Intact	-0.1	Negative
476	1/10/22	Portable P25	Exterior	Drip edge	Metal	D	Intact	-0.1	Negative
477	1/10/22	Portable P25	Exterior	Gutter	Metal	D	Intact	0	Negative
478	1/10/22	Portable P25	Exterior	Downspout	Metal	D	Intact	0	Negative
479	1/10/22	Portable P28	Exterior	Drip edge	Metal	A	Intact	-0.1	Negative
480	1/10/22	Portable P28	Exterior	Fascia	Metal	A	Intact	0.2	Negative
481	1/10/22	Portable P28	Exterior	Gutter	Metal	B	Intact	0	Negative
482	1/10/22	Portable P28	Exterior	Drip edge	Metal	C	Intact	0.1	Negative
483	1/10/22	Portable P28	Exterior	Fascia	Metal	C	Intact	0.1	Negative
484	1/10/22	Portable P28	Exterior	Gutter	Metal	D	Intact	0	Negative
485	1/10/22	Portable P28	Exterior	Downspout	Metal	D	Intact	0	Negative
486	1/10/22	Portable P29	Exterior	Drip edge	Metal	A	Intact	-0.1	Negative
487	1/10/22	Portable P29	Exterior	Fascia	Metal	A	Intact	0.1	Negative
488	1/10/22	Portable P29	Exterior	Gutter	Metal	B	Intact	0	Negative
489	1/10/22	Portable P29	Exterior	Drip edge	Metal	C	Intact	0.1	Negative
490	1/10/22	Portable P29	Exterior	Fascia	Metal	C	Intact	0.2	Negative
491	1/10/22	Portable P29	Exterior	Gutter	Metal	D	Intact	0	Negative
492	1/10/22	Portable P29	Exterior	Downspout	Metal	D	Intact	0	Negative
493	1/10/22	Portable P30	Exterior	Drip edge	Metal	A	Intact	0.1	Negative
494	1/10/22	Portable P30	Exterior	Fascia	Metal	A	Intact	0.2	Negative
495	1/10/22	Portable P30	Exterior	Gutter	Metal	B	Intact	-0.1	Negative
496	1/10/22	Portable P30	Exterior	Downspout	Metal	B	Intact	-0.2	Negative
497	1/10/22	Portable P30	Exterior	Downspout	Metal	B	Intact	0.1	Negative
498	1/10/22	Portable P30	Exterior	Drip edge	Metal	C	Intact	0	Negative
499	1/10/22	Portable P30	Exterior	Fascia	Metal	C	Intact	0.1	Negative
500	1/10/22	Portable P30	Exterior	Gutter	Metal	D	Intact	0	Negative
501	1/10/22			Calibrate				1	Positive
502	1/10/22			Calibrate				0.9	Positive

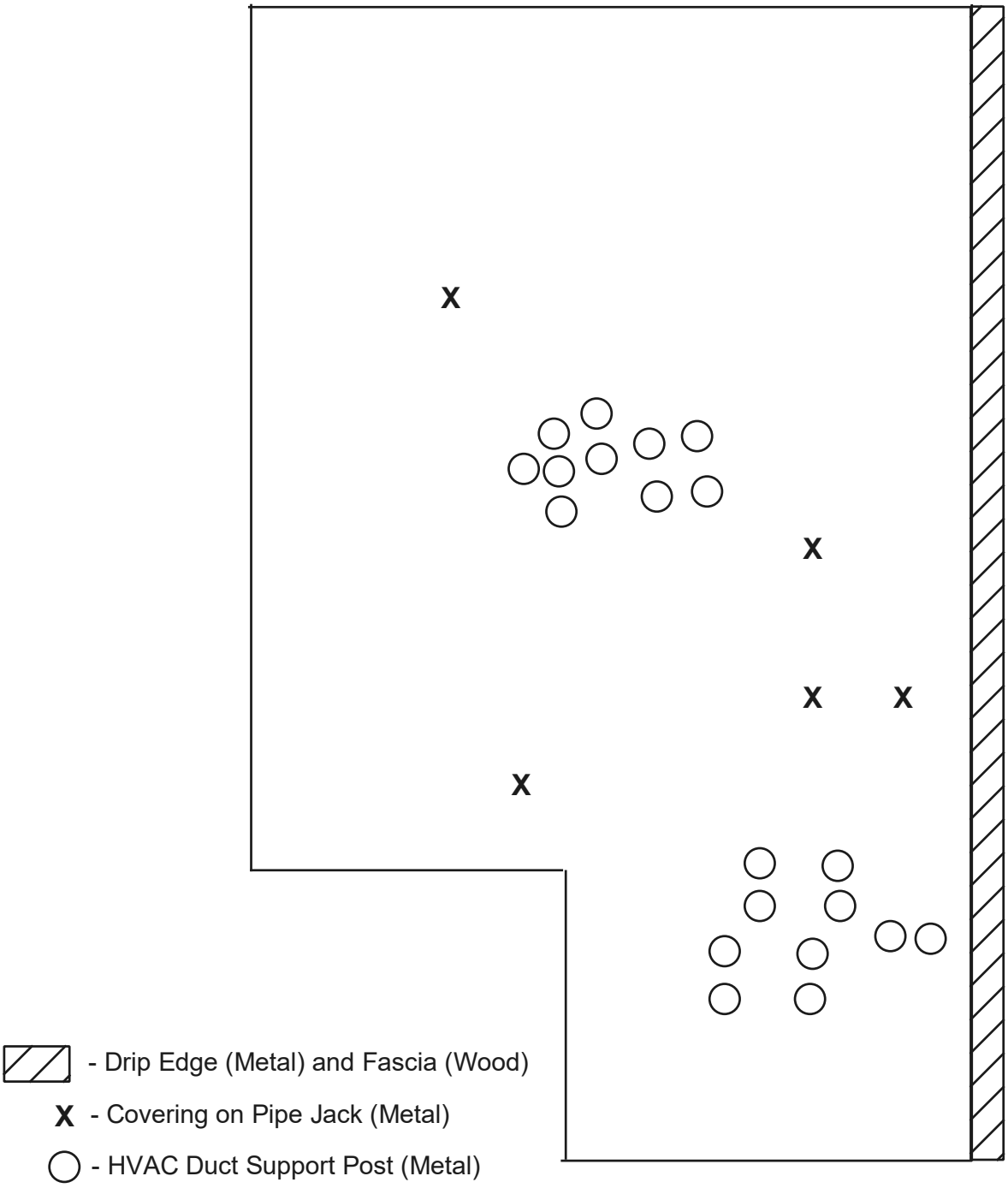
Reading #	Date	Building	Room	Component	Substrate	Side	Condition	Concentration	Result
503	1/10/22			Calibrate				1	Positive

APPENDIX B – SITE DRAWING



Client: Rosemead School District	**Project #:** 22-Z0046-0002	**Info:** Campus Wide
EXECUTIVE ENVIRONMENTAL HEALTH & SAFETY SIMPLIFIED		**Site:** Encinita Elementary School **Adress:** 4515 Encinita Avenue Rosemead, California 91770

Administration Building (A)
Roof



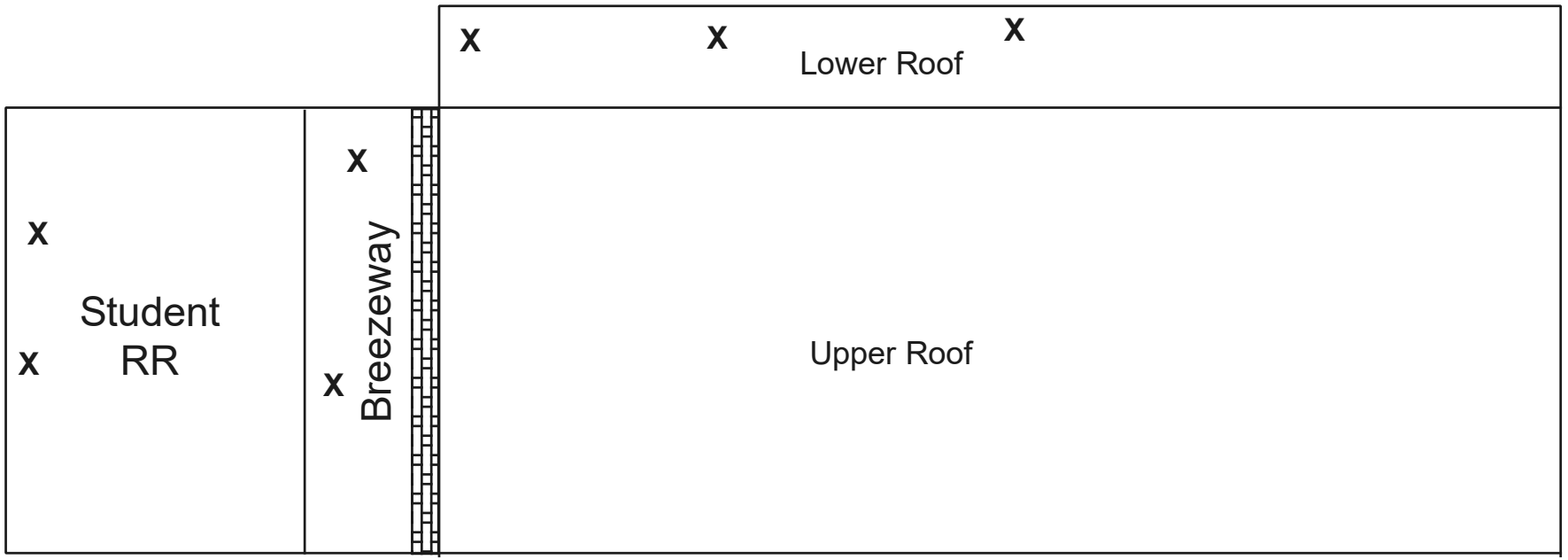
- Drip Edge (Metal) and Fascia (Wood)
- X - Covering on Pipe Jack (Metal)
- ◯ - HVAC Duct Support Post (Metal)

SIDE=D
SIDE=C
SIDE=A
SIDE=B

N

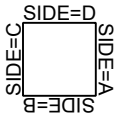
Client: Rosemead School District	**Project#:** 22-Z0046-0002	**Info:** Lead-Based Paint Identified
EXECUTIVE ENVIRONMENTAL HEALTH & SAFETY SIMPLIFIED		**Site:** Encinita Elementary School **Address:** 4515 Encinita Avenue Rosemead, California 91770

Classroom Building (B)
(Classrooms 1 through 3)
Roof



X - Covering on Pipe Jack (Metal)

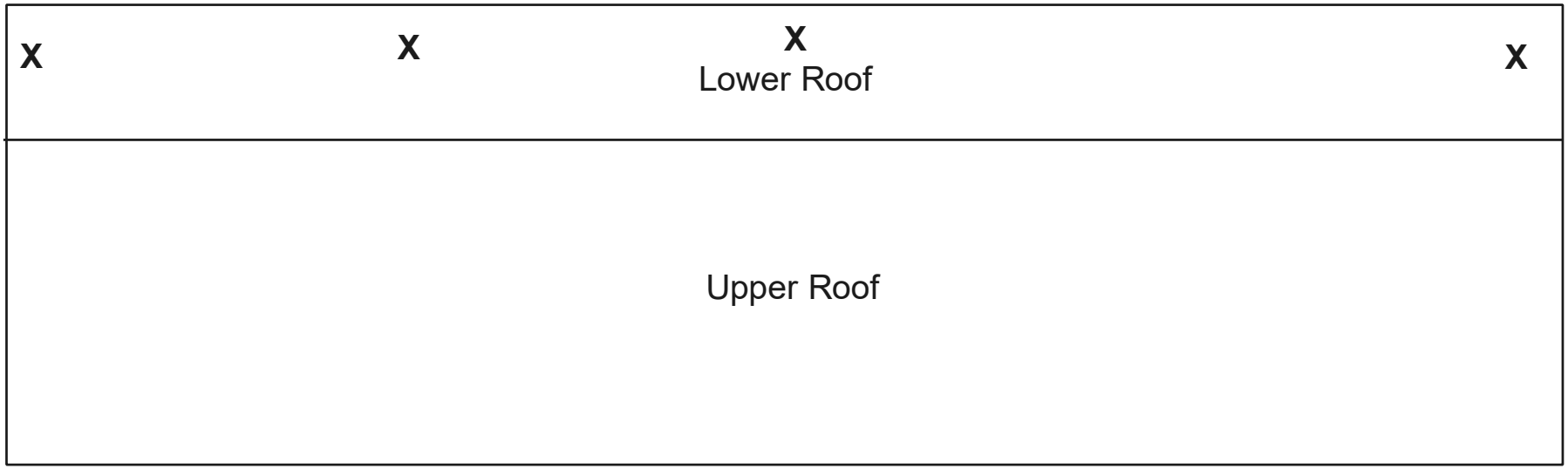
- Roof Flashing (Metal)



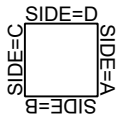
N

Client: Rosemead School District	**Project #:** 22-Z0046-0002	**Info:** Lead-Based Paint Identified
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Encinita Elementary School **Adress:** 4515 Encinita Avenue Rosemead, California 91770

Classroom Building (D)
(Classroom 4 through 6)
Roof



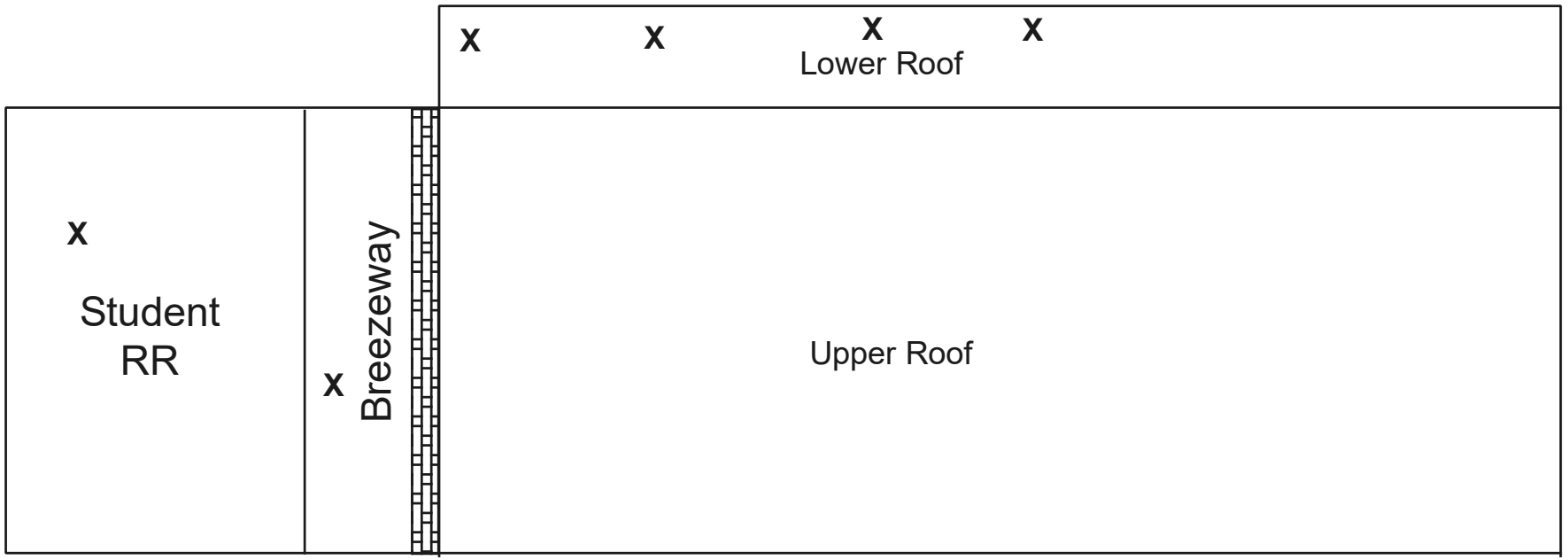
X - Covering on Pipe Jack (Metal)



N

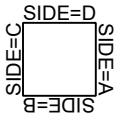
Client: Rosemead School District	**Project #:** 22-Z0046-0002	**Info:** Lead-Based Paint Identified
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Encinita Elementary School **Adress:** 4515 Encinita Avenue Rosemead, California 91770

Classroom Building (E)
(Classrooms 7 through 10)
Roof



X - Covering on Pipe Jack (Metal)

- Roof Flashing (Metal)



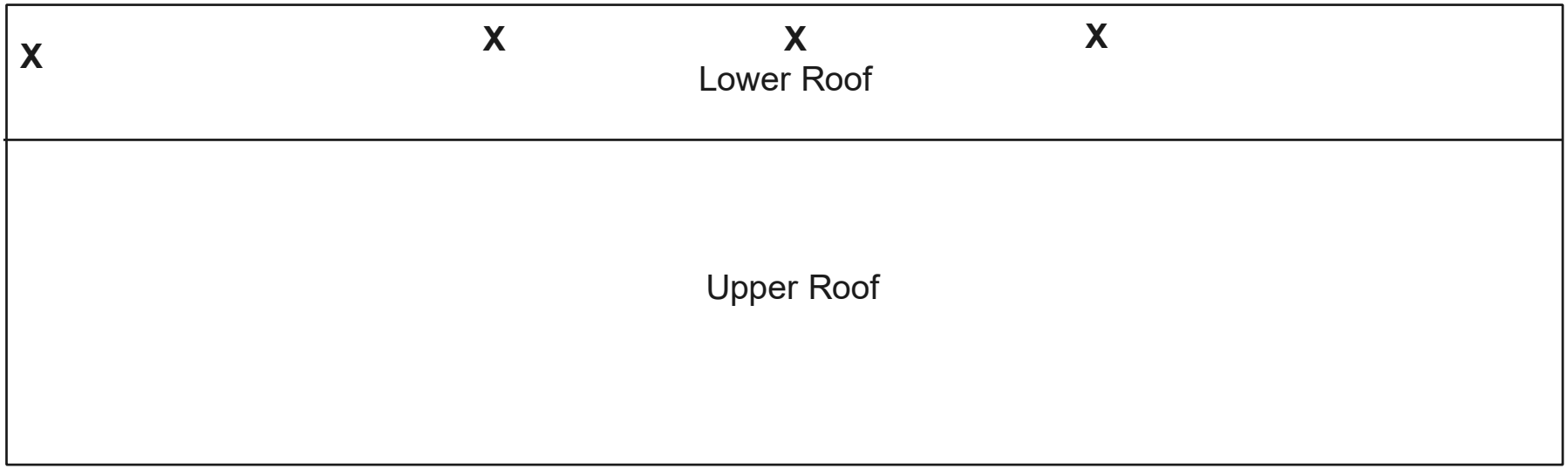
N

Client: Rosemead School District	**Project #:** 22-Z0046-0002	**Info:** Lead-Based Paint Identified

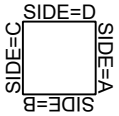
EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Site: Encinita Elementary School
Adress: 4515 Encinita Avenue
Rosemead, California 91770

Classroom Building (F)
(Classrooms 11 through 14)
Roof



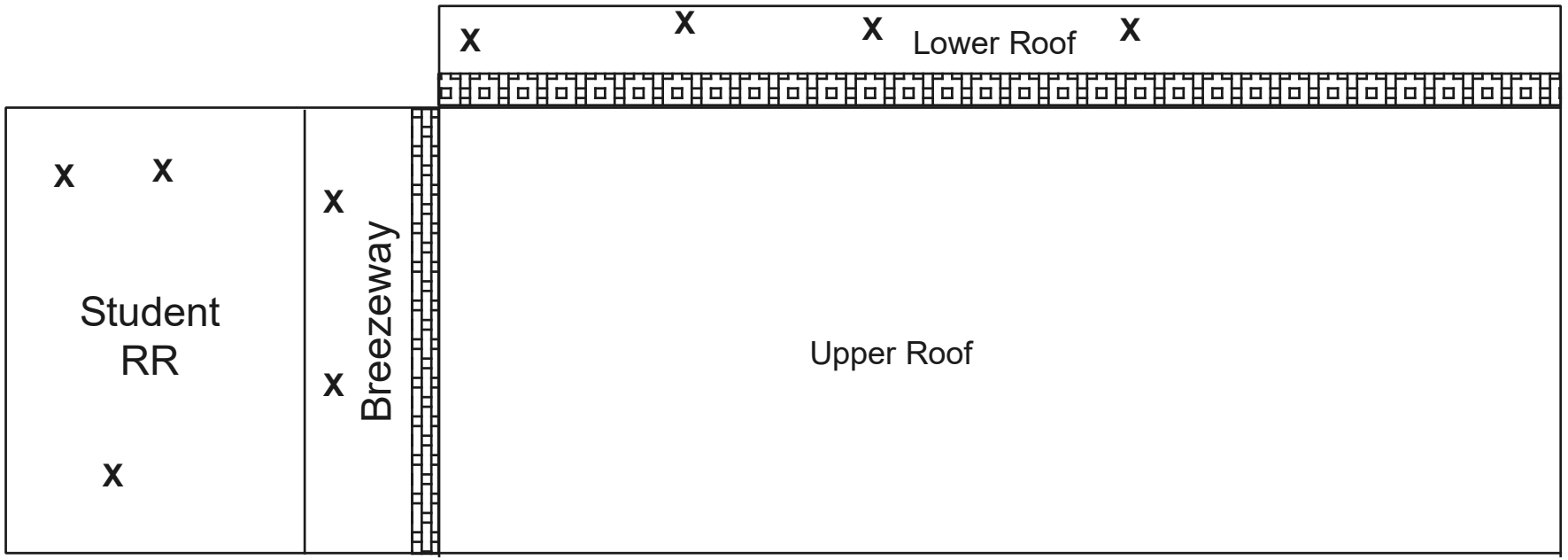
X - Covering on Pipe Jack (Metal)



N

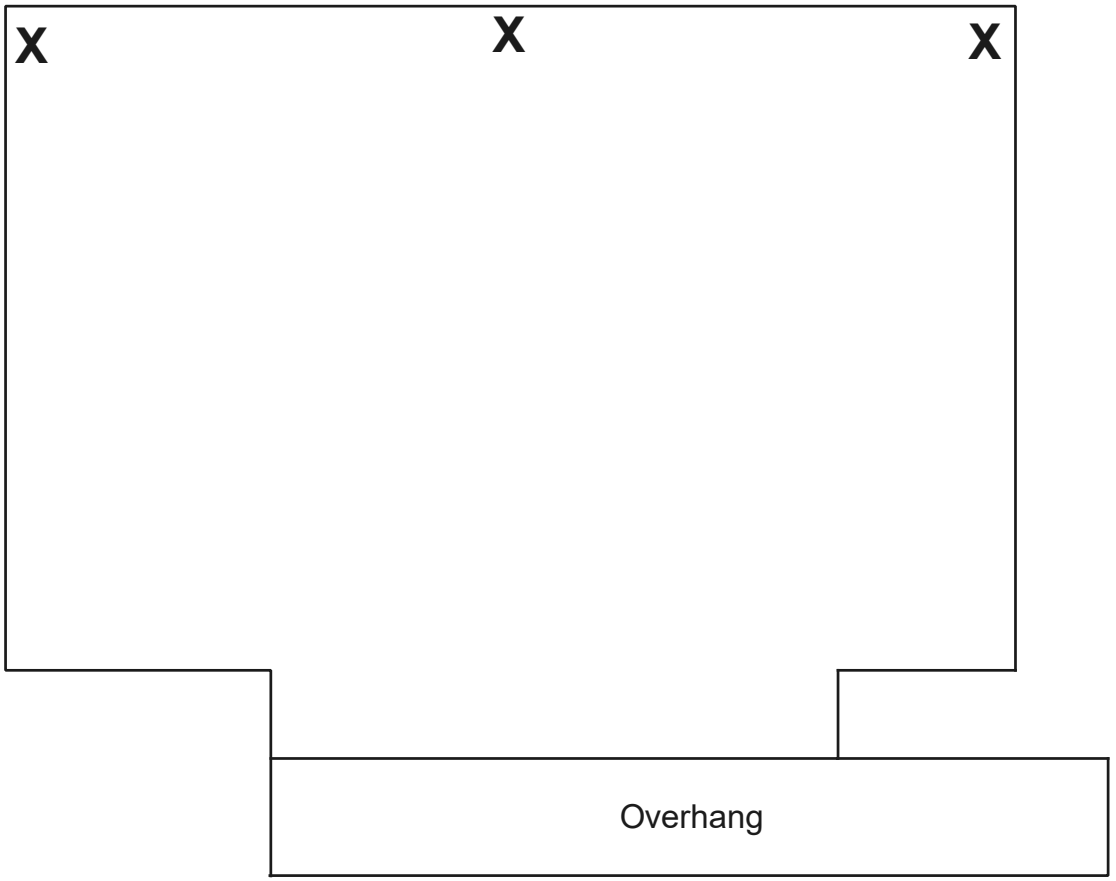
Client: Rosemead School District	**Project #:** 22-Z0046-0002	**Info:** Lead-Based Paint Identified
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Encinita Elementary School **Adress:** 4515 Encinita Avenue Rosemead, California 91770

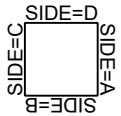
Classroom Building (G)
(Classrooms 15 through 18)
Roof



Client: Rosemead School District	**Project #:** 22-Z0046-0002	**Info:** Lead-Based Paint Identified
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Encinita Elementary School **Adress:** 4515 Encinita Avenue Rosemead, California 91770

Classroom Building (H)
(Classrooms 19 through 20)
Roof





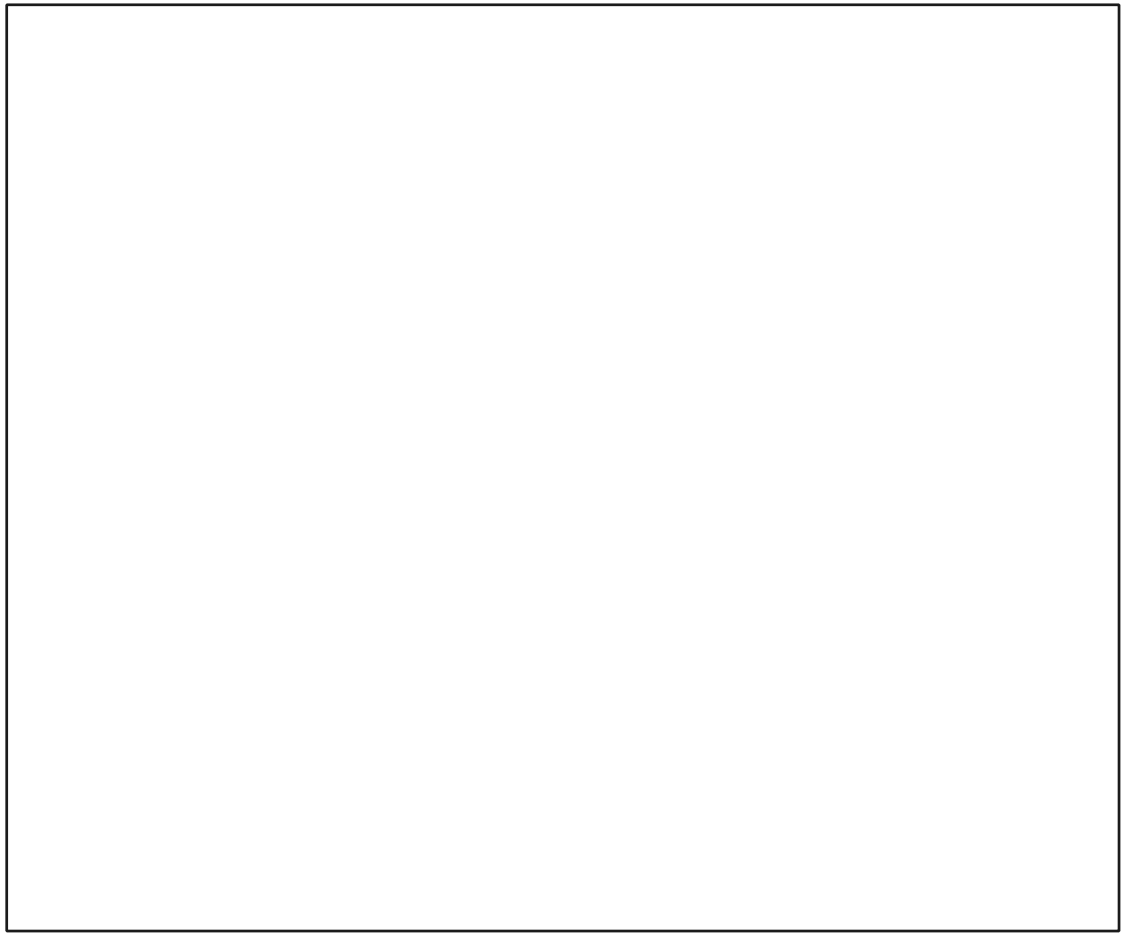
X - Covering on Pipe Jack (Metal)

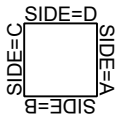
Client: Rosemead School District	**Project #:** 22-Z0046-0002	**Info:** Lead-Based Paint Identified

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Site: Encinita Elementary School
Adress: 4515 Encinita Avenue
Rosemead, California 91770

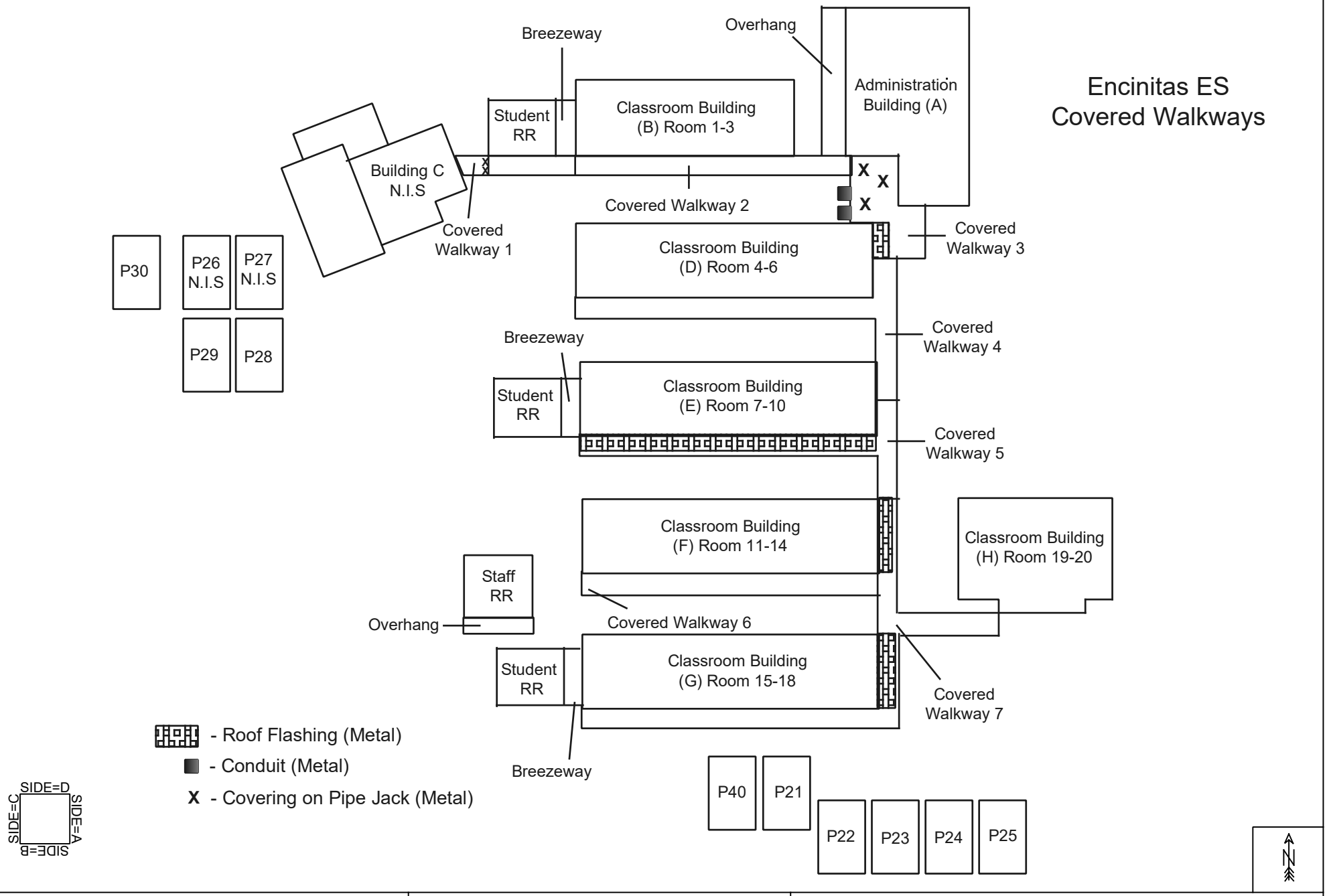
Staff Restroom Building
Roof





Client: Rosemead School District	**Project #:** 22-Z0046-0002	**Info:** No Lead-Based Paint Identified
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Encinita Elementary School **Adress:** 4515 Encinita Avenue Rosemead, California 91770

Encinitas ES
Covered Walkways

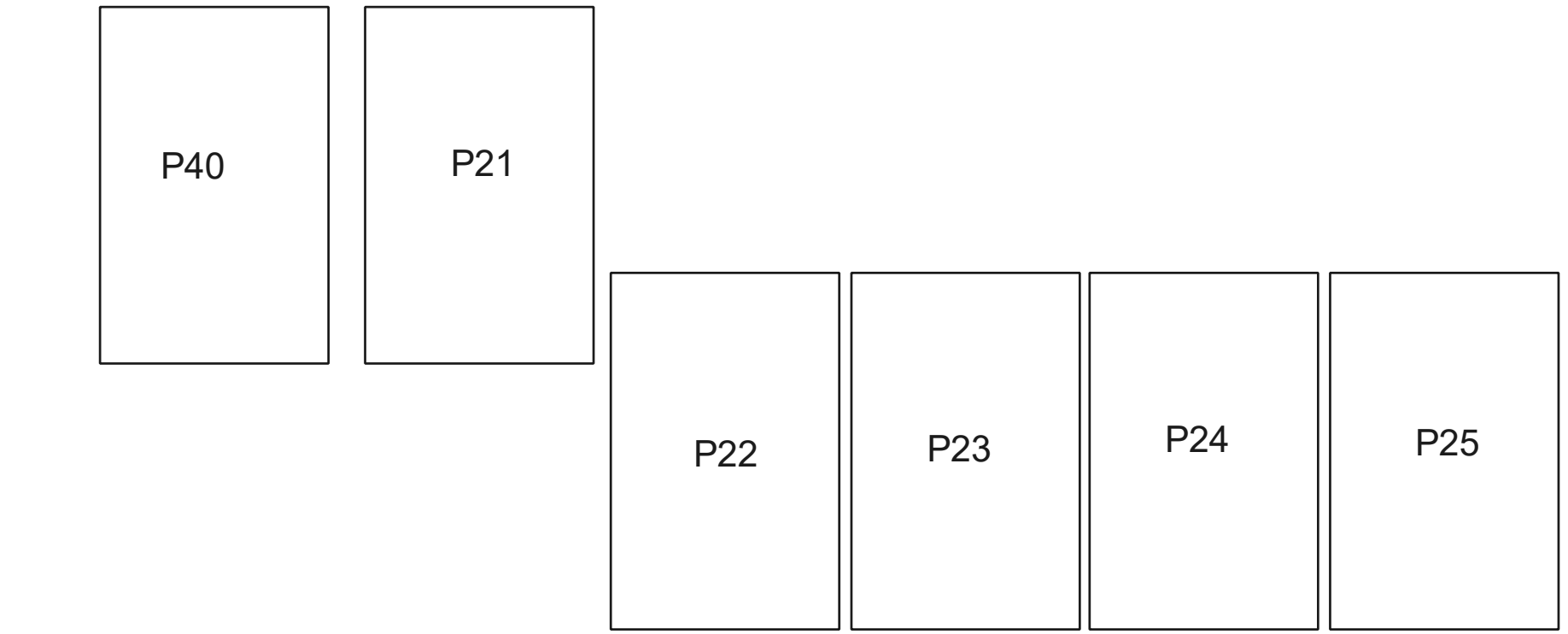


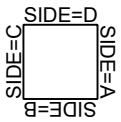
Client: Rosemead School District	**Project #:** 22-Z0046-0002	**Info:** Lead-Based Paint Identified

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Site: Encinita Elementary School
Adress: 4515 Encinita Avenue
Rosemead, California 91770

Portables
Roof

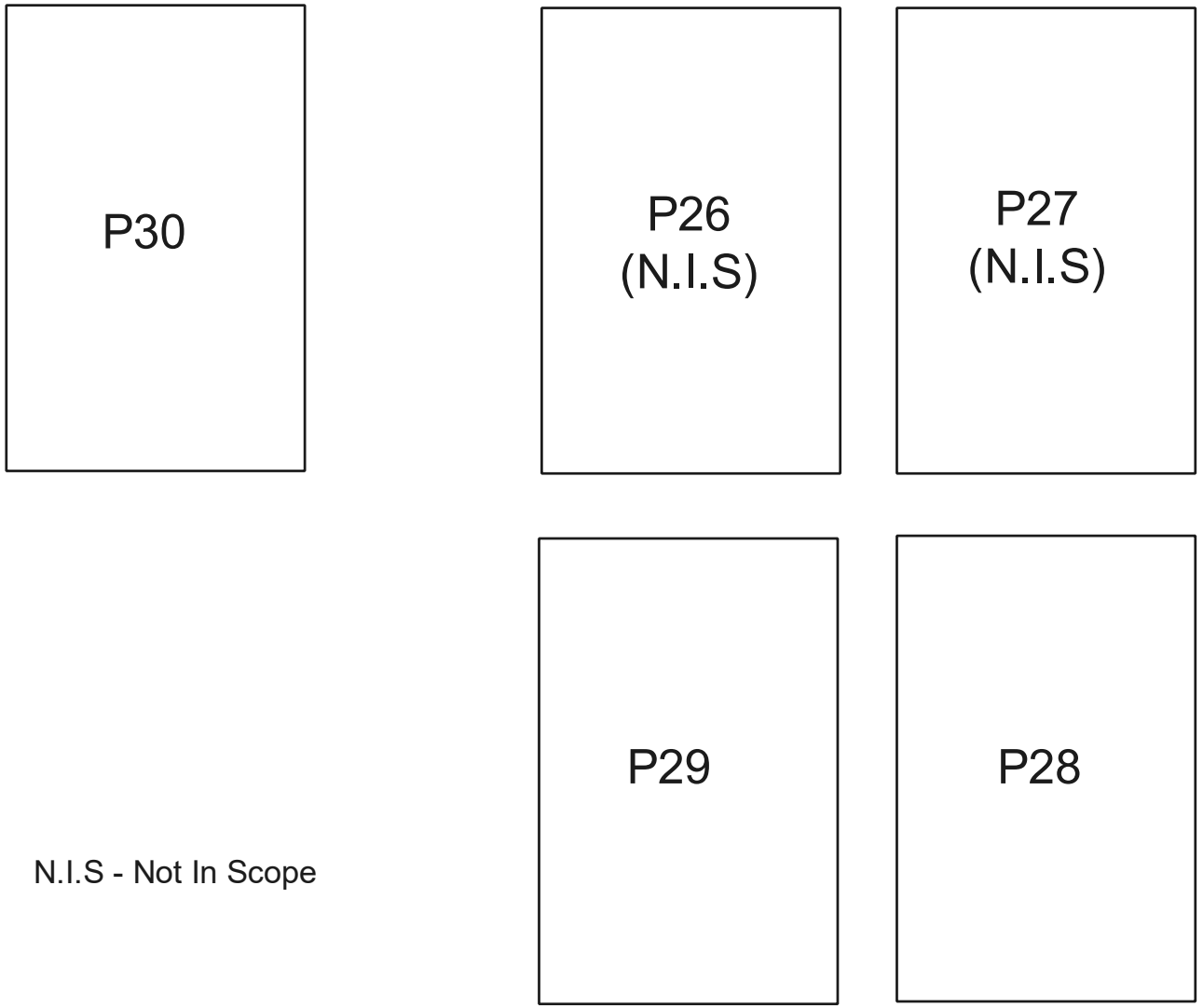




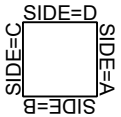
N

Client: Rosemead School District	**Project #:** 22-Z0046-0002	**Info:** No Lead-Based Paint Identified
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Encinita Elementary School **Adress:** 4515 Encinita Avenue Rosemead, California 91770

Portables
Roof



N.I.S - Not In Scope



Client: Rosemead School District	**Project #:** 22-Z0046-0002	**Info:** No Lead-Based Paint Identified

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Site: Encinita Elementary School
Adress: 4515 Encinita Avenue
Rosemead, California 91770

APPENDIX C – LEAD HAZARD EVALUATION REPORT

LEAD HAZARD EVALUATION REPORT

Section 1 — Date of Lead Hazard Evaluation 01/04/2022

Section 2 — Type of Lead Hazard Evaluation (Check one box only)

☑ Lead Inspection ☐ Risk assessment ☐ Clearance Inspection ☐ Other (specify) _____

Section 3 — Structure Where Lead Hazard Evaluation Was Conducted

Address [number, street, apartment (if applicable)]	City	County	Zip Code
4515 Encinita Avenue	Rosemead	Los Angeles	91770

Construction date (year) of structure	Type of structure	Children living in structure?
Unknown	☐ Multi-unit building ☑ School or daycare ☐ Single family dwelling ☐ Other _____	☐ Yes ☑ No ☐ Don't Know

Section 4 — Owner of Structure (if business/agency, list contact person)

Name	Telephone number
Rosemead SD (Octavio Serrato)	626-945-0759

Address [number, street, apartment (if applicable)]	City	State	Zip Code
3907 Rosemead Blvd Suite 220	Rosemead	CA	91770

Section 5 — Results of Lead Hazard Evaluation (check all that apply)

☐ No lead-based paint detected ☑ Intact lead-based paint detected ☐ Deteriorated lead-based paint detected

☑ No lead hazards detected ☐ Lead-contaminated dust found ☐ Lead-contaminated soil found ☐ Other _____

Section 6 — Individual Conducting Lead Hazard Evaluation

Name	Telephone number
Rhys Kuzmic	626-441-7050

Address [number, street, apartment (if applicable)]	City	State	Zip Code
310 East Foothill Blvd. Suite 200	Arcadia	CA	91006

CDPH certification number	Signature	Date
18093/LRC-00004395	Rhys Kuzmic	01/19/2021

Name and CDPH certification number of any other individuals conducting sampling or testing (if applicable)

Matthew Barna, LCR-00003243

Section 7 — Attachments

A. A foundation diagram or sketch of the structure indicating the specifc locations of each lead hazard or presence of lead-based paint;
B. Each testing method, device, and sampling procedure used;
C. All data collected, including quality control data, laboratory results, including laboratory name, address, and phone number.

First copy and attachments retained by inspector

Second copy and attachments retained by owner

Third copy only (no attachments) mailed or faxed to:

California Department of Public Health
Childhood Lead Poisoning Prevention Branch Reports
850 Marina Bay Parkway, Building P, Third Floor
Richmond, CA 94804-6403
Fax: (510) 620-5656

APPENDIX D – XRF PERFORMANCE CHARACTERISTICS SHEET

Performance Characteristic Sheet

EFFECTIVE DATE: **December 1, 2015**

MANUFACTURER AND MODEL:

Make: ***Heuresis***
Models: ***Model Pb200i***
Source: ***^{57}Co, 5 mCi (nominal – new source)***

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

Action Level mode

XRF CALIBRATION CHECK LIMITS:

0.8 to 1.2 mg/cm^2 (inclusive)

SUBSTRATE CORRECTION:

Not applicable

INCONCLUSIVE RANGE OR THRESHOLD:

ACTION LEVEL MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm^2)
Results not corrected for substrate bias on any substrate	Brick Concrete Drywall Metal Plaster Wood	1.0 1.0 1.0 1.0 1.0 1.0

BACKGROUND INFORMATION

EVALUATION DATA SOURCE AND DATE:

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated using test results on building components in the HUD archive. Testing was conducted on 146 test samples in November 2015, with two separate instruments running software version 2.1-2 in Action Level test mode. The actual source strength of each instrument on the day of testing was approximately 2.0 mCi; source ages were approximately one year.

OPERATING PARAMETERS

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

XRF CALIBRATION CHECK:

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm^2 in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm^2 film).

If the average (rounded to 1 decimal place) of three readings is outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instrument into control before XRF testing proceeds.

SUBSTRATE CORRECTION VALUE COMPUTATION:

Chapter 7 of the HUD Guidelines provides guidance on correcting XRF results for substrate bias. Supplemental guidance for using the paint film nearest 1.0 mg/cm^2 for substrate correction is provided:

XRF results are corrected for substrate bias by subtracting from each XRF result a correction value determined separately in each house for single-family housing or in each development for multifamily housing, for each substrate. The correction value is an average of XRF readings taken over the NIST SRM paint film nearest to 1.0 mg/cm^2 at test locations that have been scraped bare of their paint covering. Compute the correction values as follows:

> Using the same XRF instrument, take three readings on a bare substrate area covered with the NIST SRM paint film nearest 1 mg/cm^2. Repeat this procedure by taking three more readings on a second bare substrate area of the same substrate covered with the NIST SRM.
>
> Compute the correction value for each substrate type where XRF readings indicate substrate correction is needed by computing the average of all six readings as shown below.
>
> <u>For each substrate type</u> (the 1.02 mg/cm^2 NIST SRM is shown in this example; use the actual lead loading of the NIST SRM used for substrate correction):
>
> Correction value = (1st + 2nd + 3rd + 4th + 5th + 6th *Reading*)/6 - 1.02 mg/cm^2
>
> Repeat this procedure for each substrate requiring substrate correction in the house or housing development.

EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing.

Conduct XRF re-testing at the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below. Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family and multi-family housing, a result is defined as a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

Calculate the average of the original XRF result and the retest XRF result for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF readings.

Compute the average of all ten re-test XRF readings.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Retest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

TESTING TIMES:

In the Action Level paint test mode, the instrument takes the longest time to complete readings close to the Federal standard of 1.0 mg/cm^2. The table below shows the mean and standard deviation of actual reading times by reading level for paint samples during the November 2015 archive testing. The tested instruments reported readings to one decimal place. No significant differences in reading times by substrate were observed. These times apply only to instruments with the same source strength as those tested (2.0 mCi). Instruments with stronger sources will have shorter reading times and those with weaker sources, longer reading times, than those in the table.

Mean and Standard Deviation of Reading Times in Action Level Mode by Reading Level		
Reading (mg/cm^2)	**Mean Reading Time (seconds)**	**Standard Deviation (seconds)**
< 0.7	3.48	0.47
0.7	7.29	1.92
0.8	13.95	1.78
0.9 – 1.2	15.25	0.66
1.3 – 1.4	6.08	2.50
$\geq$ 1.5	3.32	0.05

CLASSIFICATION OF RESULTS:

XRF results are classified as **positive** if they are **greater than or equal** to the stated threshold for the instrument (1.0 mg/cm^2), and *negative* if they are *less than* the threshold.

DOCUMENTATION:

A report titled *Methodology for XRF Performance Characteristic Sheets* (EPA 747-R-95-008) provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. The report may be downloaded at http://www2.epa.gov/lead/methodology-xrf-performance-characteristic-sheets-epa-747-r-95-008-september-1997.

This XRF Performance Characteristic Sheet (PCS) was developed by QuanTech, Inc., under a contract with the XRF manufacturer.

APPENDIX E – EE LIMITED LEAD-BASED PAINT INSPECTION REPORT
(EE# 20-Z0046-0027, Dated June 2021)

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene • Air Quality • Lead & Asbestos • Training • Health & Safety

LIMITED LEAD-BASED PAINT INSPECTION REPORT

Conducted at:

ENCINITA ELEMENTARY SCHOOL
PAINTING PROJECT
4515 ENCINITA AVENUE
ROSEMEAD, CALIFORNIA 91770

Prepared for:

MR. HAROLD SULLINS
ASSISTANT SUPERINTENDENT
ROSEMEAD SCHOOL DISTRICT
3907 ROSEMEAD BOULEVARD, SUITE 220
ROSEMEAD, CALIFORNIA 91770

Prepared by:

EXECUTIVE ENVIRONMENTAL
310 EAST FOOTHILL BOULEVARD, SUITE 200
ARCADIA, CALIFORNIA 91006

Project Number EE 20-Z0046-0027
February 26, 2020

Report generated/reviewed by:

Yesenia G. Galeana
Technical Report Writer
Executive Environmental

Report assembled by:

Tim Galeana, CLP
Senior Project Manager
Executive Environmental

Table of Contents

LIMITED LEAD-BASED PAINT INSPECTION

Project Number:	EE 20-Z0046-0027
Client:	Rosemead School District 3907 Rosemead Boulevard, Suite 220 Rosemead, California 91770
Site Location:	Encinita Elementary School Exterior Painting Project 4515 Encinita Avenue Rosemead, California 91770
Site Use:	School Property
Contact Person:	Mr. Harold Sullins Assistant Superintendent Phone: (626) 312-2900
Inspection Date:	February 5 thru 12, 2020
Inspected By:	Mr. Tim Galeana Certified Lead Professional, CDPH #0395 Mr. Rhys Kuzmic Certified Lead Professional, CDPH #18093
Report Assembled By:	Ms. Yesenia G. Galeana Technical Report Writer
Report Generated/Reviewed By:	Mr. Tim Galeana Certified Lead Professional, CDPH # 3732

I. EXECUTIVE SUMMARY

Executive Environmental (EE) provided the services of Certified Lead Professionals (CLP) to conduct a limited lead-based paint inspection of the permanent buildings, portables and covered walkways at Encinita Elementary School located at 4515 Encinita Avenue, Rosemead, California. The inspection was conducted as a precursor to the upcoming Exterior Painting Project. EE provided a California Department of Public Health Certified Lead Inspector to conduct the inspection. Regulated lead-based paint was detected during this inspection. EE's Certified Lead Professional conducted these services on February 5 thru 12, 2020. *This is considered to be a limited inspection. Inspection was limited to exterior surfaces and components anticipated to be impacted by the exterior painting project.*

II. SAMPLING PROTOCOL

According to the United States Department of Housing and Urban Development's (HUD) guideline document, Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing, and Section 1017 of Title X, Residential Lead-Based Paint Hazard Reduction Act of 1992, Public Law 102-550, paint found to have a lead concentration of at least 1.0 mg/cm^2 (milligrams per centimeter squared) by X-Ray Fluorescence (XRF), or 0.5 percent (5000 parts per million) by weight, is regulated as lead-based paint.

Los Angeles County Childhood Lead Poisoning Prevention Program, established in 1991, further regulates that paint found to have a lead concentration greater than 0.7 mg/cm^2 via XRF readings, or 0.06 weight-to-weight percent by Atomic Absorption Spectrometry (AAS) analysis, is considered to be lead-based paint. The Los Angeles County 0.7 mg/cm^2 action level was used for determining the lead content in this inspection because it is more stringent than the HUD Guidelines.

Any material containing any detectable level of lead is subject to the Occupational Safety and Health Administration's (OSHA) Lead Exposure in Construction Rule 29 Code of Federal Regulation (CFR) 1926.62 and California Code of Regulations Title 8, Section 1532.1 Lead (8CCR1532.1) and Title 8, Section 5198, Lead (8CCR5198). All work that disturbs this type of material must be performed in accordance with this and any other applicable standards.

All facilities built prior to 1979 for residential buildings and prior to 1993 for schools are suspect for lead-containing materials. Federal and state regulations recognize only the following methods of identification: analysis by an XRF instrument, paint bulk sample collection and analysis, or a combination of both. This inspection was conducted via XRF instrumentation. The parameters used to interpret the XRF results are outlined in the HUD guidelines and the XRF Performance Characteristics Sheets (PCS).

III. SAMPLING METHODOLOGY

A visual inspection of the exterior of the permanent buildings, portables and covered walkways at Encinita Elementary School was conducted by EE's CLP to identify major site features and surfaces and/or components suspected of being coated with lead-based paint. After identifying the materials suspected of being coated with lead-based paint, EE grouped the components, substrates, and room equivalents into testing combinations. A testing combination is defined as the room equivalent, component, and substrate. A room equivalent is an identifiable part of a building (e.g. classrooms, restrooms, mechanical rooms, exterior). Color does not accurately indicate painting history, and is not included when assigning testing combinations. If there was any reason to suspect that materials may have been installed or painted at different times, even though they appear uniform, they were assigned to separate testing combinations.

Following the visual inspection, screening for the presence of lead-based paint or ceramic glaze was performed on-site using a portable XRF instrument. The XRF has the ability to measure lead content in paint and ceramic glaze within the range of 0 to 50 milligrams per centimeter squared (mg/cm^2). The on-site inspection capability of the XRF instrument typically reduces the number of paint-chip samples that may need to be

collected and sent for laboratory analysis. The portable XRF instrument used in this inspection was manufactured by Heuresis.

The following specifications apply to the Viken Detection XRF (formerly Heuresis):

- Ability to report Positive and Negative determination at 1.0mg lead/cm^2 with 2-sigma confidence with measurement time of 1-3 nominal seconds on mast lead paint samples.
- Detects lead at 0.1 mg/cm^2 with 2-sigma confidence with a measurement time of 1 second on most samples.
- Equipped with a ^{57}Co sealed source, 5mCi (185 MBq), radioactive source. Substrate effects are automatically corrected through a complex algorithm and calibration.

IV. SAMPLE ANALYSIS

According to local, state and federal standards, the surfaces and/or components that were analyzed with the Viken Detection XRF instrument during this inspection are considered to be coated with a regulated lead-based paint.

XRF SAMPLE ANALYSIS DATA
Encinita Elementary School
4515 Encinita Avenue
Rosemead, California 91770

Location	Component	Substrate	Estimate Quantity	XRF Result Mg/cm^2
Portables[1]				
No regulated lead-based paint was identified on exterior surfaces and/or components of Portables 21, 22, 23, 24, 25, 26, 27, 28, 29, 30 and 40 anticipated to be impacted by the Exterior Painting Project.				
Administration Building (A)[2]				
No regulated lead-based paint was identified on exterior surfaces and/or components of the Administration Building (A) anticipated to be impacted by the Exterior Painting Project.				
Building B (Classrooms 1 thru 3/Restroom)[3]				
Exterior, side D, below windows	Walls	Concrete	270 Square Feet	0.9
Exterior, side D	Window sill	Wood	90 Linear feet	0.9
	Wall header	Wood	100 Linear Feet	1.1
Breezeway ceiling	Light fixture frame	Metal	1 Total	2.2

Note: This table must be used in conjunction with the entire report.

[1] NOTE: 1) All portables have aluminum windows, no coat.
[2] NOTE: 1) Windows are metal, no coat.
[3] NOTE: 1) Windows are metal, no coat.

XRF SAMPLE ANALYSIS DATA Encinita Elementary School 4515 Encinita Avenue Rosemead, California 91770				
Location	**Component**	**Substrate**	**Estimate Quantity**	**XRF Result Mg/cm²**
Building C (Multi-Purpose Building)[4]				
Exterior, Side D	Downspout	Steel	2 Pipes	0.8
			10 Linear Feet Each	
Building D (Classrooms 4 thru 6)[5]				
Exterior at Utility room and Restrooms, Side B	Door vent	Metal	3 Total	12.6
Exterior at Custodial room, side A	Double door	Wood	1 Total	0.7
	Double door frame	Wood		2.1
Building E (Classrooms 7 thru 10/Restroom)[6]				
Exterior, side D, below windows	Wall	Concrete	270 Square Feet	1.6
Exterior, side D	Window sill	Wood	90 Linear Feet	2.1
	Wall header	Wood	100 Linear Feet	0.8
Breezeway ceiling	Light fixture frame	Metal	1 Total	2.2
Building F (Classrooms 11 thru 14)[7]				
Lower roof, sides C & D	Drip edge	Metal	140 Linear Feet	6.5
Building G (Classrooms 15 thru 18/Restroom)[8]				
Lower roof, sides C & D	Drip edge	Metal	140 Linear Feet	1.6-3.5
Staff Restroom Building[9]				
No regulated lead-based paint was identified on exterior surfaces and/or components of Staff Restroom Building anticipated to be impacted by the Exterior Painting Project.				

Note: This table must be used in conjunction with the entire report.

[4] NOTE: 1) Windows are metal, no coat.
[5] NOTE: 1) Windows are metal, no coat.
[6] NOTE: 1) Windows are metal, no coat.
[7] NOTE: 1) Windows are metal, no coat.
[8] NOTE: 1) Windows are metal, no coat.
[9] NOTE: 1) Windows are metal, no coat.

XRF SAMPLE ANALYSIS DATA Encinita Elementary School 4515 Encinita Avenue Rosemead, California 91770				
Location	**Component**	**Substrate**	**Estimate Quantity**	**XRF Result Mg/cm²**
Building H (Classrooms 19 thru 20)				
Exterior, sides A thru D	Window frame	Wood	82 Total	0.8-1
	Window trim	Wood	270 Linear Feet	1.7
Exterior, side A	Window panel	Wood	1 Total	2.3
Exterior, sides A thru C	Window sill	Wood	20 Linear Feet	2.7
Exterior, sides A, B & D	Foundation	Concrete	42 Linear Feet	3.5
Exterior, side B	Fire extinguisher case	Metal	1 Total	0.7
Covered Walkways[10]				
Covered walkway no. 1 Covered walkway no. 2 Covered walkway no. 4 Covered walkway no. 5 Covered walkway no. 6 Covered walkway no. 8 Covered walkway no. 9 Covered walkway no. 10	Poles	Metal	1,140 Square Feet 151 Total	0.7-4
Covered walkway no. 2 Covered walkway no. 3 Covered walkway no. 9	Ceiling	Stucco	1,850 Square Feet	1-2.9
Covered walkway no. 3, sides A & C Covered walkway no. 9, side B	Riser (triangle shape)	Wood	850 Square Feet	0.8-1.1
Covered walkway no. 3, sides A & C	Riser	Metal	80 Square Feet	2
Campus				
Playground, south of Building C (MPR)	Basketball pole (red)	Metal	4 Total	2.2

Note: This table must be used in conjunction with the entire report

[10] NOTE: 1) Windows are metal, no coat.

V. CONCLUSIONS/RECOMMENDATIONS

EE conducted a limited lead-based paint inspection of the permanent buildings, portables and covered walkways at Encinita Elementary School located at 4515 Encinita Avenue, Rosemead, California. The inspection was conducted as a precursor for the upcoming Exterior Painting Project. The following conclusions and/or recommendations apply:

Limited Lead-Based Paint Inspection

- Exterior painted surfaces and components of the permanent buildings, portables and covered walkways at Encinita Elementary School were tested via the Viken Detection XRF for the presence of lead.
- The items listed in the previous tables were identified as being coated with a regulated lead-based paint.
- The surfaces/components were observed to be in good to fair condition during this inspection.
- A fully representative number of XRF readings were taken at the project site. The results of these assays are presented in the XRF Summary Results spreadsheets.

It is recommended that all renovation, remodelling, construction, or demolition actions that might potentially disturb surfaces covered with lead-based paint and/or ceramic glaze be performed by properly trained and qualified personnel.

VI. DISCLAIMER/REPORT LIMITATIONS

All reports and recommendations are based on conditions and practices observed and information made available to Executive Environmental (EE) by the client and the designated sites/facilities on the days sampling was conducted. This report does not purport to set forth all hazards, nor to indicate that other hazards do not exist. No responsibility is assumed by EE for the control or correction of conditions or practices existing at the facilities, or at any other premises surveyed by EE, for and on the behalf of the client. Services provided by EE shall be governed by the standard of practice for professional services measured at the time those services are rendered.

All information contained in this report is proprietary and limited to the scope of services, parameters of the analytical methods used and the conditions present at the time of this inspection. Any references to quantities are considered estimates and are not to be construed as actual.

APPENDIX A – XRF SUMMARY RESULTS

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
1	2/5/20			Calibrate				Positive	0.9
2	2/5/20			Calibrate				Positive	0.9
3	2/5/20			Calibrate				Positive	1
4	2/5/20	Portable 27	Exterior	Wall	Wood	A	Intact	Negative	0.1
5	2/5/20	Portable 27	Exterior	Wall	Wood	B	Intact	Negative	0.1
6	2/5/20	Portable 27	Exterior	Wall	Wood	C	Intact	Negative	-0.1
7	2/5/20	Portable 27	Exterior	Wall	Wood	D	Intact	Negative	0.1
8	2/5/20	Portable 27	Exterior	Wall base beam	Steel	A	Fair	Negative	0.2
9	2/5/20	Portable 27	Exterior	Conduit	Metal	A	Intact	Negative	0.3
10	2/5/20	Portable 27	Exterior	Downspout	Metal	A	Intact	Negative	0
11	2/5/20	Portable 27	Exterior	Door	Metal	B	Intact	Negative	0.2
12	2/5/20	Portable 27	Exterior	Door frame	Metal	B	Intact	Negative	0.1
13	2/5/20	Portable 27	Exterior	Door frame trim	Wood	B	Intact	Negative	-0.1
14	2/5/20	Portable 27	Exterior	Window trim	Wood	B	Intact	Negative	0.1
15	2/5/20	Portable 27	Exterior	Wall flashing	Metal	C	Intact	Negative	0
16	2/5/20	Portable 27	Exterior	Gutter	Metal	A	Intact	Negative	0.1
17	2/5/20	Portable 27	Exterior	Flashing	Metal	A	Intact	Negative	0.1
18	2/5/20	Portable 27	Exterior	Overhang	Wood	B	Intact	Negative	0.1
19	2/5/20	Portable 27	Exterior	Hand rail	Metal	B	Intact	Negative	-0.1
20	2/5/20	Portable 26	Exterior	Wall	Wood	A	Intact	Negative	0.2
21	2/5/20	Portable 26	Exterior	Wall	Wood	B	Intact	Negative	0
22	2/5/20	Portable 26	Exterior	Wall	Wood	B	Intact	Negative	0.1
23	2/5/20	Portable 26	Exterior	Wall	Wood	C	Intact	Negative	0.2
24	2/5/20	Portable 26	Exterior	Wall	Wood	D	Intact	Negative	0.1
25	2/5/20	Portable 26	Exterior	Wall base beam	Steel	D	Intact	Negative	0
26	2/5/20	Portable 26	Exterior	Window trim	Wood	D	Intact	Negative	0.1
27	2/5/20	Portable 26	Exterior	Downspout	Metal	D	Intact	Negative	-0.1
28	2/5/20	Portable 26	Exterior	Conduit	Metal	D	Intact	Negative	0.3
29	2/5/20	Portable 26	Exterior	Pole	Metal	C	Intact	Negative	0.3
30	2/5/20	Portable 26	Exterior	Door	Metal	B	Intact	Negative	0.1
31	2/5/20	Portable 26	Exterior	Door frame	Metal	B	Intact	Negative	-0.1
32	2/5/20	Portable 26	Exterior	Door frame trim	Wood	B	Intact	Negative	0

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
33	2/5/20	Portable 26	Exterior	Window trim	Wood	B	Intact	Negative	0.1
34	2/5/20	Portable 26	Exterior	Wall flashing	Metal	A	Intact	Negative	0
35	2/5/20	Portable 26	Exterior	Gutter	Metal	A	Intact	Negative	0.1
36	2/5/20	Portable 26	Exterior	Flashing	Metal	A	Intact	Negative	0.1
37	2/5/20	Portable 26	Exterior	Overhang	Metal	A	Intact	Negative	0
38	2/5/20	Portable 26	Exterior	Hand rail	Metal	B	Intact	Negative	0
39	2/5/20	Portable 29	Exterior	Wall	Wood	A	Intact	Negative	0.1
40	2/5/20	Portable 29	Exterior	Wall	Wood	B	Intact	Negative	0.1
41	2/5/20	Portable 29	Exterior	Wall	Wood	C	Intact	Negative	0
42	2/5/20	Portable 29	Exterior	Wall	Wood	D	Intact	Negative	0.1
43	2/5/20	Portable 29	Exterior	Wall base beam	Steel	A	Intact	Negative	0
44	2/5/20	Portable 29	Exterior	Column	Steel	A	Intact	Negative	-0.2
45	2/5/20	Portable 29	Exterior	Downspout	Metal	D	Intact	Negative	0.1
46	2/5/20	Portable 29	Exterior	Door	Metal	D	Intact	Negative	0.1
47	2/5/20	Portable 29	Exterior	Door frame	Metal	D	Intact	Negative	0
48	2/5/20	Portable 29	Exterior	Door frame trim	Wood	D	Intact	Negative	0.1
49	2/5/20	Portable 29	Exterior	Conduit	Metal	B	Intact	Negative	0.2
50	2/5/20	Portable 29	Exterior	Handrail	Metal	D	Intact	Negative	0.1
51	2/5/20	Portable 28	Exterior	Wall	Wood	A	Intact	Negative	0
52	2/5/20	Portable 28	Exterior	Wall	Wood	B	Intact	Negative	0
53	2/5/20	Portable 28	Exterior	Wall	Wood	C	Intact	Negative	-0.1
54	2/5/20	Portable 28	Exterior	Wall	Wood	D	Intact	Negative	0.1
55	2/5/20	Portable 28	Exterior	Door	Metal	D	Intact	Negative	0.1
56	2/5/20	Portable 28	Exterior	Door frame	Metal	D	Intact	Negative	0
57	2/5/20	Portable 28	Exterior	Door frame trim	Wood	D	Intact	Negative	0.1
58	2/5/20	Portable 28	Exterior	Wall base beam	Steel	A	Intact	Negative	0
59	2/5/20	Portable 28	Exterior	Column	Steel	A	Intact	Negative	-0.1
60	2/5/20	Portable 28	Exterior	Handrail	Metal	A	Intact	Negative	-0.1
61	2/5/20	Portable 28	Exterior	Conduit	Metal	B	Intact	Negative	0
62	2/5/20	Portable 26	Exterior	Ramp siding	Wood	B	Peeling	Negative	0.2
63	2/5/20	Portable 29	Exterior	Ramp siding	Wood	D	Intact	Negative	0.1
64	2/5/20	Portable 30	Exterior	Wall	Wood	A	Intact	Negative	0.1

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
65	2/5/20	Portable 30	Exterior	Wall	Wood	B	Intact	Negative	0.1
66	2/5/20	Portable 30	Exterior	Wall	Wood	C	Intact	Negative	0.1
67	2/5/20	Portable 30	Exterior	Wall	Wood	D	Intact	Negative	-0.1
68	2/5/20	Portable 30	Exterior	Downspout	Metal	D	Intact	Negative	0.1
69	2/5/20	Portable 30	Exterior	Conduit	Metal	D	Intact	Negative	0.3
70	2/5/20	Portable 30	Exterior	Door	Metal	B	Intact	Negative	0.1
71	2/5/20	Portable 30	Exterior	Door frame	Metal	B	Intact	Negative	0
72	2/5/20	Portable 30	Exterior	Door frame trim	Wood	B	Intact	Negative	0.1
73	2/5/20	Portable 30	Exterior	Wall base beam	Steel	C	Intact	Negative	0.1
74	2/5/20	Portable 30	Exterior	Column	Steel	C	Intact	Negative	-0.1
75	2/5/20	Portable 30	Exterior	Handrail	Metal	B	Intact	Negative	0
76	2/5/20	Portable 30	Exterior	Ramp siding	Wood	B	Intact	Negative	0.1
77	2/5/20	Portable 40	Exterior	Wall	Wood	A	Intact	Negative	0.2
78	2/5/20	Portable 40	Exterior	Wall	Wood	D	Intact	Negative	0.1
79	2/5/20	Portable 40	Exterior	Wall	Wood	C	Intact	Negative	0.1
80	2/5/20	Portable 40	Exterior	Wall	Wood	B	Intact	Negative	0.1
81	2/5/20	Portable 40	Exterior	Conduit	Metal	B	Intact	Negative	0.4
82	2/5/20	Portable 40	Exterior	Electrical box	Metal	B	Intact	Negative	-0.1
83	2/5/20	Portable 40	Exterior	Downspout	Metal	C	Intact	Negative	0.1
84	2/5/20	Portable 40	Exterior	Window trim	Wood	C	Intact	Negative	-0.1
85	2/5/20	Portable 40	Exterior	Door	Metal	D	Intact	Negative	0.1
86	2/5/20	Portable 40	Exterior	Door frame	Metal	D	Intact	Negative	0
87	2/5/20	Portable 40	Exterior	Door frame trim	Wood	D	Intact	Negative	0.2
88	2/5/20	Portable 40	Exterior	Overhang	Wood	D	Intact	Negative	0.1
89	2/5/20	Portable 40	Exterior	Overhang beam	Wood	D	Intact	Negative	0
90	2/5/20	Portable 40	Exterior	Gutter	Metal	A	Intact	Negative	0.2
91	2/5/20	Portable 40	Exterior	Flashing	Metal	B	Intact	Negative	0.1
92	2/5/20	Portable 21	Exterior	Wall	Wood	A	Intact	Negative	0.1
93	2/5/20	Portable 21	Exterior	Wall	Wood	D	Intact	Negative	0.1
94	2/5/20	Portable 21	Exterior	Wall	Wood	C	Intact	Negative	0
95	2/5/20	Portable 21	Exterior	Wall	Wood	B	Intact	Negative	0
96	2/5/20	Portable 21	Exterior	Conduit	Metal	B	Intact	Negative	0.1

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
97	2/5/20	Portable 21	Exterior	Downspout	Metal	B	Intact	Negative	0
98	2/5/20	Portable 21	Exterior	Conduit	Steel	B	Intact	Negative	-0.1
99	2/5/20	Portable 21	Exterior	Wall base beam	Steel	B	Intact	Negative	0.3
100	2/5/20	Portable 21	Exterior	Door	Metal	D	Intact	Negative	0.1
101	2/5/20	Portable 21	Exterior	Door frame	Metal	D	Intact	Negative	-0.2
102	2/5/20	Portable 21	Exterior	Door frame trim	Wood	D	Intact	Negative	0
103	2/5/20	Portable 21	Exterior	Backpack rack	Wood	D	Intact	Negative	0
104	2/5/20	Portable 21	Exterior	Downspout	Metal	D	Intact	Negative	0.1
105	2/5/20	Portable 21	Exterior	Wall header	Metal	D	Intact	Negative	0.2
106	2/5/20	Portable 21	Exterior	Overhang	Wood	D	Intact	Negative	0
107	2/5/20	Portable 21	Exterior	Overhang frame	Steel	D	Intact	Negative	0
108	2/5/20	Portable 21	Exterior	Gutter	Metal	D	Intact	Negative	-0.1
109	2/5/20	Portable 21	Exterior	Flashing	Metal	C	Intact	Negative	-0.1
110	2/5/20			Calibrate				Positive	0.9
111	2/5/20			Calibrate				Positive	1
112	2/5/20			Calibrate				Positive	1.1
113	2/6/20			Calibrate				Positive	0.9
114	2/6/20			Calibrate				Positive	0.9
115	2/6/20			Calibrate				Positive	1
116	2/6/20	Portable 22	Exterior	Wall	Wood	D	Intact	Negative	0.1
117	2/6/20	Portable 22	Exterior	Wall	Wood	C	Intact	Negative	0
118	2/6/20	Portable 22	Exterior	Overhang	Wood	D	Intact	Negative	0.2
119	2/6/20	Portable 22	Exterior	Overhang frame	Steel	D	Intact	Negative	-0.1
120	2/6/20	Portable 22	Exterior	Wall header	Metal	D	Intact	Negative	0.1
121	2/6/20	Portable 22	Exterior	Flashing	Metal	D	Intact	Negative	0.1
122	2/6/20	Portable 22	Exterior	Downspout	Metal	D	Intact	Negative	0
123	2/6/20	Portable 22	Exterior	Column	Steel	D	Intact	Negative	-0.1
124	2/6/20	Portable 22	Exterior	Door	Metal	D	Intact	Negative	0.1
125	2/6/20	Portable 22	Exterior	Door frame	Metal	D	Intact	Negative	0
126	2/6/20	Portable 22	Exterior	Door frame trim	Wood	D	Intact	Negative	0.1
127	2/6/20	Portable 22	Exterior	Wall	Wood	B	Intact	Negative	0
128	2/6/20	Portable 22	Exterior	Wall flashing	Metal	B	Intact	Negative	-0.2

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
129	2/6/20	Portable 22	Exterior	Wall base	Steel	B	Intact	Negative	-0.1
130	2/6/20	Portable 22	Exterior	Conduit	Metal	B	Intact	Negative	0.3
131	2/6/20	Portable 22	Exterior	Electrical box	Metal	B	Intact	Negative	0
132	2/6/20	Portable 22	Exterior	Foundation	Concrete	B	Intact	Negative	0.1
133	2/6/20	Portable 23	Exterior	Foundation	Concrete	B	Intact	Negative	0.2
134	2/6/20	Portable 23	Exterior	Wall base	Steel	B	Intact	Negative	-0.1
135	2/6/20	Portable 23	Exterior	Wall flashing	Metal	B	Intact	Negative	-0.1
136	2/6/20	Portable 23	Exterior	Conduit	Metal	B	Intact	Negative	0.3
137	2/6/20	Portable 23	Exterior	Electrical box	Metal	B	Intact	Negative	-0.1
138	2/6/20	Portable 23	Exterior	Wall	Wood	B	Intact	Negative	0
139	2/6/20	Portable 23	Exterior	Wall	Wood	D	Intact	Negative	-0.1
140	2/6/20	Portable 23	Exterior	Door	Metal	D	Intact	Negative	0.1
141	2/6/20	Portable 23	Exterior	Door frame	Metal	D	Intact	Negative	0
142	2/6/20	Portable 23	Exterior	Door frame trim	Wood	D	Intact	Negative	0.1
143	2/6/20	Portable 23	Exterior	Downspout	Metal	D	Intact	Negative	0
144	2/6/20	Portable 23	Exterior at Data Box	Pole	Steel	D	Fair	Negative	0.2
145	2/6/20	Portable 23	Exterior	Overhang	Wood	D	Intact	Negative	0
146	2/6/20	Portable 23	Exterior	Overhang frame	Steel	D	Intact	Negative	0
147	2/6/20	Portable 23	Exterior	Wall header	Metal	D	Intact	Negative	0.1
148	2/6/20	Portable 23	Exterior	Flashing	Metal	D	Intact	Negative	0.1
149	2/6/20	Portable 23	Exterior	Gutter	Metal	D	Intact	Negative	0.1
150	2/6/20	Portable 22	Exterior	Gutter	Metal	D	Intact	Negative	0
151	2/6/20	Portable 24	Exterior	Wall	Wood	D	Intact	Negative	0.1
152	2/6/20	Portable 24	Exterior	Column	Steel	D	Intact	Negative	-0.2
153	2/6/20	Portable 24	Exterior	Door	Metal	D	Intact	Negative	0.1
154	2/6/20	Portable 24	Exterior	Door frame	Metal	D	Intact	Negative	0
155	2/6/20	Portable 24	Exterior	Door frame trim	Wood	D	Intact	Negative	0
156	2/6/20	Portable 24	Exterior	Overhang	Wood	D	Intact	Negative	0
157	2/6/20	Portable 24	Exterior	Overhang frame	Steel	D	Intact	Negative	-0.1
158	2/6/20	Portable 24	Exterior	Wall header	Metal	D	Intact	Negative	0.1
159	2/6/20	Portable 24	Exterior	Flashing	Metal	D	Intact	Negative	-0.1
160	2/6/20	Portable 24	Exterior	Gutter	Metal	D	Intact	Negative	0.1

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
161	2/6/20	Portable 24	Exterior	Downspout	Metal	D	Intact	Negative	0
162	2/6/20	Portable 24	Exterior	Wall	Wood	B	Intact	Negative	0
163	2/6/20	Portable 24	Exterior	Conduit	Metal	B	Intact	Negative	0.3
164	2/6/20	Portable 24	Exterior	Electrical box	Metal	B	Intact	Negative	0.2
165	2/6/20	Portable 24	Exterior	Wall flashing	Metal	B	Intact	Negative	-0.2
166	2/6/20	Portable 24	Exterior	Wall base	Steel	B	Intact	Negative	0
167	2/6/20	Portable 24	Exterior	Foundation	Concrete	B	Intact	Negative	0.2
168	2/6/20	Portable 25	Exterior	Foundation	Concrete	B	Intact	Negative	0.3
169	2/6/20	Portable 25	Exterior	Wall base	Steel	B	Intact	Negative	0
170	2/6/20	Portable 25	Exterior	Wall flashing	Metal	B	Intact	Negative	-0.1
171	2/6/20	Portable 25	Exterior	Conduit	Metal	B	Intact	Negative	0.3
172	2/6/20	Portable 25	Exterior	Electrical box	Metal	B	Intact	Negative	0.2
173	2/6/20	Portable 25	Exterior	Wall	Wood	B	Intact	Negative	-0.1
174	2/6/20	Portable 25	Exterior	Wall	Wood	A	Intact	Negative	0.1
175	2/6/20	Portable 25	Exterior	Lower wall	Wood	A	Intact	Negative	0.1
176	2/6/20	Portable 25	Exterior	Wall	Wood	D	Intact	Negative	-0.1
177	2/6/20	Portable 25	Exterior	Column	Steel	D	Intact	Negative	0.1
178	2/6/20	Portable 25	Exterior	Door	Metal	D	Intact	Negative	0.1
179	2/6/20	Portable 25	Exterior	Door frame	Metal	D	Intact	Negative	0
180	2/6/20	Portable 25	Exterior	Door frame trim	Wood	D	Intact	Negative	0
181	2/6/20	Portable 25	Exterior	Overhang	Wood	D	Intact	Negative	0.1
182	2/6/20	Portable 25	Exterior	Overhang frame	Steel	D	Intact	Negative	0
183	2/6/20	Portable 25	Exterior	Wall header	Metal	D	Intact	Negative	0.1
184	2/6/20	Portable 25	Exterior	Gutter	Metal	D	Intact	Negative	-0.2
185	2/6/20	Portable 25	Exterior	Downspout	Metal	D	Intact	Negative	-0.1
186	2/6/20	Portable 25	Exterior	Flashing	Metal	A	Intact	Negative	0
187	2/6/20	Portable 29	Exterior	Wall header	Steel	D	Intact	Negative	-0.2
188	2/6/20	Portable 29	Exterior	Flashing	Metal	A	Intact	Negative	0.1
189	2/6/20	Portable 29	Exterior	Overhang	Metal	D	Intact	Negative	0.1
190	2/6/20	Portable 29	Exterior	Overhang frame	Metal	D	Intact	Negative	0.1
191	2/6/20	Portable 29	Exterior	Gutter	Metal	D	Intact	Negative	0.3
192	2/6/20	Portable 29	Exterior	Ramp	Metal	D	Intact	Negative	0.1

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
193	2/6/20	Portable 30	Exterior	Ramp	Metal	B	Intact	Negative	0.2
194	2/6/20	Portable 30	Exterior	Wall header	Metal	B	Intact	Negative	0.2
195	2/6/20	Portable 30	Exterior	Overhang	Metal	B	Intact	Negative	0.1
196	2/6/20	Portable 30	Exterior	Overhang frame	Metal	B	Intact	Negative	0
197	2/6/20	Portable 30	Exterior	Gutter	Metal	B	Intact	Negative	0.1
198	2/6/20	Portable 30	Exterior	Flashing	Metal	A	Intact	Negative	0.2
199	2/6/20	Portable 26	Exterior	Ramp	Metal	B	Intact	Negative	-0.1
200	2/6/20	Portable 28	Exterior	Wall header	Metal	D	Intact	Negative	-0.2
201	2/6/20	Portable 28	Exterior	Overhang	Metal	D	Intact	Negative	0.1
202	2/6/20	Portable 28	Exterior	Overhang frame	Metal	D	Intact	Negative	0.1
203	2/6/20	Portable 28	Exterior	Gutter	Metal	D	Intact	Negative	0
204	2/6/20	Portable 28	Exterior	Flashing	Metal	C	Intact	Negative	0.1
205	2/6/20	Building A (Adminstration)	Exterior	Wall	Stucco	A	Intact	Negative	-0.3
206	2/6/20	Building A (Adminstration)	Exterior	Wall	Stucco	B	Intact	Negative	-0.2
207	2/6/20	Building A (Adminstration)	Exterior	Wall	Stucco	C	Intact	Negative	-0.1
208	2/6/20	Building A (Adminstration)	Exterior	Wall	Stucco	D	Intact	Negative	0
209	2/6/20	Building A (Adminstration)	Exterior	Door	Metal	B	Intact	Negative	0
210	2/6/20	Building A (Adminstration)	Exterior	Door frame	Metal	B	Intact	Negative	0
211	2/6/20	Building A (Adminstration)	Exterior	Door frame	Metal	C	Intact	Negative	0.1
212	2/6/20	Building A (Adminstration)	Exterior	Door	Metal	C	Intact	Negative	0
213	2/6/20	Building A (Adminstration)	Exterior	Wall tile	Ceramic	B	Intact	Negative	0.5
214	2/6/20	Building A (Adminstration)	Exterior	Conduit	Metal	C	Intact	Negative	0.1

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
215	2/6/20	Building A (Adminstration)	Exterior	Eave	Wood	A	Intact	Negative	0
216	2/6/20	Building A (Adminstration)	Exterior	Rafter	Wood	A	Intact	Negative	-0.2
217	2/6/20	Building A (Adminstration)	Exterior	Fascia	Wood	A	Intact	Negative	0.1
218	2/6/20	Building A (Adminstration)	Exterior	Flashing	Metal	A	Intact	Negative	0.2
219	2/6/20	Building A (Adminstration)	Exterior	Equipment screen	Metal	Roof	Intact	Negative	-0.1
220	2/6/20	Building B (Classrooms 1-3)	Exterior	Wall	Stucco	A	Intact	Negative	-0.1
221	2/6/20	Building B (Classrooms 1-3)	Exterior	Wall	Stucco	B	Intact	Negative	-0.1
222	2/6/20	Building B (Classrooms 1-3)	Exterior	Wall	Stucco	C	Intact	Negative	-0.3
223	2/6/20	Building B (Classrooms 1-3)	Exterior	Door	Wood	B	Intact	Negative	0.1
224	2/6/20	Building B (Classrooms 1-3)	Exterior	Door frame	Metal	B	Intact	Negative	0.1
225	2/6/20	Building B (Classrooms 1-3)	Exterior	Backpack rack	Wood	B	Intact	Negative	-0.2
226	**2/6/20**	**Building B (Classrooms 1-3)**	**Exterior**	**Wall**	**Concrete**	**D**	**Intact**	**Positive**	**0.9**
227	**2/6/20**	**Building B (Classrooms 1-3)**	**Exterior**	**Window sill**	**Wood**	**D**	**Intact**	**Positive**	**0.9**
228	2/6/20	Building B (Classrooms 1-3)	Exterior	Door	Metal	D	Intact	Negative	-0.1
229	2/6/20	Building B (Classrooms 1-3)	Exterior	Door frame	Metal	D	Intact	Negative	0.2
230	2/6/20	Building B (Classrooms 1-3)	Exterior	Downspout	Metal	D	Intact	Negative	0.2

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
231	2/6/20	Building B (Classrooms 1-3)	Exterior	Gutter	Metal	D	Intact	Negative	0
232	**2/6/20**	**Building B (Classrooms 1-3)**	**Exterior**	**Wall header**	**Wood**	**D**	**Intact**	**Positive**	**1.1**
233	2/6/20	Building B (Classrooms 1-3)	Exterior	Conduit	Metal	B	Intact	Negative	-0.1
234	2/6/20	Building B (Classrooms 1-3)	Exterior	Electrical box	Metal	B	Intact	Negative	0.1
235	2/6/20	Building B (Classrooms 1-3)	Exterior	Wall	Stucco	D	Intact	Negative	-0.3
236	2/6/20	Building B (Classrooms 1-3)	Exterior	Flashing	Metal	D	Intact	Negative	0.3
237	2/6/20	Building B (Classrooms 1-3)	Exterior	Wall flashing	Metal	D	Intact	Negative	0.2
238	2/6/20	Building B (Classrooms 1-3)	Breezeway	Ceiling	Stucco	Upper	Intact	Negative	-0.1
239	2/6/20	Building B (Classrooms 1-3)	Breezeway	Conduit	Metal	Upper	Intact	Negative	0
240	2/6/20	Building B (Classrooms 1-3)	Restrooms exterior	Wall	Stucco	A	Intact	Negative	0
241	2/6/20	Building B (Classrooms 1-3)	Restrooms exterior	Wall	Stucco	B	Intact	Negative	-0.3
242	2/6/20	Building B (Classrooms 1-3)	Restrooms exterior	Wall	Stucco	C	Intact	Negative	0.5
243	2/6/20	Building B (Classrooms 1-3)	Restrooms exterior	Wall	Stucco	D	Intact	Negative	-0.1
244	2/6/20	Building B (Classrooms 1-3)	Restrooms exterior	Door	Metal	C	Intact	Negative	0.1
245	2/6/20	Building B (Classrooms 1-3)	Restrooms exterior	Door frame	Metal	C	Intact	Negative	0.1
246	2/6/20	Building B (Classrooms 1-3)	Restrooms exterior	Door frame	Metal	B	Intact	Negative	0.1

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
247	2/6/20	Building B (Classrooms 1-3)	Restrooms exterior	Door	Metal	B	Intact	Negative	0.1
248	2/6/20	Building B (Classrooms 1-3)	Restrooms exterior	Flashing	Metal	C	Intact	Negative	0.2
249	2/6/20	Building B (Classrooms 1-3)	Restrooms exterior - Door Swing	Floor stripe	Concrete	B	Poor	Negative	0.2
250	2/6/20	Building B (Classrooms 1-3)	Exterior - Door Swing	Floor stripe	Concrete	B	Poor	Negative	0.2
251	2/6/20			Calibrate				Positive	1
252	2/6/20			Calibrate				Positive	1
253	2/6/20			Calibrate				Positive	1
254	2/7/20			Calibrate				Negative	-0.6
255	2/7/20			Calibrate				Negative	-0.6
256	2/7/20			Calibrate				Negative	-0.6
257	2/7/20			Calibrate				Positive	0.9
258	2/7/20			Calibrate				Positive	1
259	2/7/20			Calibrate				Positive	0.9
260	2/7/20	Building C	Exterior	Wall	Stucco	A	Intact	Negative	0.5
261	2/7/20	Building C	Exterior	Wall	Stucco	B	Intact	Negative	-0.1
262	2/7/20	Building C	Exterior	Wall	Stucco	C	Intact	Negative	0
263	2/7/20	Building C	Exterior	Wall	Stucco	D	Intact	Negative	-0.2
264	2/7/20	Building C	Exterior	Double door	Metal	A	Intact	Negative	0.1
265	2/7/20	Building C	Exterior	Double door frame	Metal	A	Intact	Negative	0.1
266	2/7/20	Building C	Exterior	Window sill	Wood	B	Intact	Negative	-0.1
267	2/7/20	Building C	Exterior	Window casing	Wood	B	Intact	Negative	-0.1
268	2/7/20	Building C	Exterior	Window panel	Wood	B	Intact	Negative	0.2
269	2/7/20	Building C	Exterior	Window trim	Wood	B	Intact	Negative	0.4
270	2/7/20	Building C	Exterior	Window security bars/frame	Metal	B	Intact	Negative	0.1
271	2/7/20	Building C	Exterior	Hand rail	Metal	A	Intact	Negative	0.2
272	2/7/20	Building C	Exterior	Door	Metal	A	Intact	Negative	-0.1
273	2/7/20	Building C	Exterior	Door frame	Metal	A	Intact	Negative	0.1

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
274	2/7/20	Building C	Exterior	Window sill	Wood	D	Intact	Negative	0.1
275	2/7/20	Building C	Exterior	Window casing	Wood	D	Intact	Negative	0.1
276	2/7/20	Building C	Exterior	Window trim	Metal	D	Intact	Negative	0.2
277	2/7/20	Building C	Exterior	Door	Metal	D	Intact	Negative	-0.1
278	2/7/20	Building C	Exterior	Door frame	Metal	D	Intact	Negative	0.2
279	**2/7/20**	**Building C**	**Exterior**	**Downspout**	**Steel**	**D**	**Intact**	**Positive**	**0.8**
280	2/7/20	Building C	Exterior	Scupper	Metal	D	Intact	Negative	0.2
281	2/7/20	Building C	Exterior	Capped conduit	Steel	A	Intact	Negative	0.1
282	2/7/20	Building C	Exterior	Ladder	Steel	A	Intact	Negative	-0.1
283	2/7/20	Building C	Exterior	Ladder security panel	Metal	A	Intact	Negative	0
284	2/7/20	Building C	Exterior	Parapet wall cap	Metal	Roof	Intact	Negative	0.2
285	2/7/20	Building C	Exterior	Conduit	Metal	Roof	Intact	Negative	-0.1
286	2/7/20	Building C	Exterior	Pipe	Steel	Roof	Intact	Negative	0
287	2/7/20	Building C	Exterior	HVAC duct	Metal	Roof	Intact	Negative	0
288	2/7/20	Building C	Exterior	Vent	Metal	Roof	Intact	Negative	0
289	2/7/20	Building C	Exterior	Roof	Roofing material	Roof	Intact	Negative	-0.1
290	2/7/20	Building C	Exterior	Wall vent	Metal	Roof	Intact	Negative	0.4
291	2/7/20	Building C	Exterior	Wall flashing	Metal	Roof	Intact	Negative	0.2
292	2/7/20	Building C	Exterior	Electrical box	Metal	Roof	Intact	Negative	0
293	2/7/20	Building C	Exterior	Ladder	Steel	Roof	Intact	Negative	-0.1
294	2/7/20	Building C	Exterior	Overhang	Stucco	A	Intact	Negative	0
295	2/7/20	Building C	Exterior	Flashing	Metal	A	Intact	Negative	0.2
296	2/7/20	Building C	Exterior	Awning	Metal	B	Intact	Negative	0.1
297	2/7/20	Building C	Exterior	Awning frame	Metal	B	Intact	Negative	0
298	2/7/20	Building C	Exterior	Stair	Concrete	A	Fair	Negative	0.3
299	2/7/20	Building C	Exterior	Downspout	PVC	C	Intact	Negative	0.1
300	2/7/20	Building C	Exterior	Conduit	Steel	C	Intact	Negative	0.2
301	2/7/20	Building C	Exterior	Conduit	Metal	D	Intact	Negative	0.2
302	2/7/20	Building C	Exterior	Condensation line	Metal	C	Intact	Negative	-0.1
303	2/7/20	Building C	Exterior	Bell	Metal	C	Intact	Negative	-0.1

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
304	2/7/20	Building C	Exterior	Wall vent	Metal	B	Intact	Negative	0.2
305	2/7/20	Building D (Classrooms 4-6)	Exterior	Wall	Stucco	A	Intact	Negative	-0.3
306	2/7/20	Building D (Classrooms 4-6)	Exterior	Wall tile	Ceramic	A	Intact	Negative	0.4
307	2/7/20	Building D (Classrooms 4-6)	Exterior	Wall	Stucco	B	Intact	Negative	-0.1
308	2/7/20	Building D (Classrooms 4-6)	Exterior	Wall	Stucco	C	Intact	Negative	0.2
309	2/7/20	Building D (Classrooms 4-6)	Exterior	Wall	Stucco	D	Intact	Negative	0.2
310	2/7/20	Building D (Classrooms 4-6)	Exterior	Door	Wood	B	Intact	Negative	0.1
311	2/7/20	Building D (Classrooms 4-6)	Exterior	Door frame	Metal	B	Intact	Negative	0
312	2/7/20	Building D (Classrooms 4-6)	Exterior	Door	Metal	D	Intact	Negative	0.1
313	2/7/20	Building D (Classrooms 4-6)	Exterior	Door frame	Metal	D	Intact	Negative	0.1
314	2/7/20	Building D (Classrooms 4-6)	Exterior	Wall	Concrete	D	Intact	Negative	0.3
315	2/7/20	Building D (Classrooms 4-6)	Exterior	Wall	Concrete	D	Intact	Negative	0.3
316	2/7/20	Building D (Classrooms 4-6)	Exterior	Window sill	Wood	D	Fair	Negative	0.1
317	2/7/20	Building D (Classrooms 4-6)	Exterior	Wall header	Wood	D	Poor	Negative	0.4
318	2/7/20	Building D (Classrooms 4-6)	Exterior	Downspout	Steel	D	Intact	Negative	-0.1
319	2/7/20	Building D (Classrooms 4-6)	Exterior	Downspout	Metal	D	Intact	Negative	0.1

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
320	2/7/20	Building D (Classrooms 4-6)	Exterior	Gutter	Metal	D	Intact	Negative	0
321	2/7/20	Building D (Classrooms 4-6)	Exterior	Water line	Steel	D	Intact	Negative	0.1
322	2/7/20	Building D (Classrooms 4-6)	Exterior	Flashing	Metal	C	Intact	Negative	0.3
323	2/7/20	Building D (Classrooms 4-6)	Exterior	Conduit	Metal	Roof	Intact	Negative	0.1
324	2/7/20	Building D (Classrooms 4-6)	Exterior	Wall flashing	Metal	Roof	Intact	Negative	0.2
325	2/7/20	Building D (Classrooms 4-6)	Exterior	Conduit	Metal	C	Intact	Negative	0.2
326	2/7/20	Building D (Classrooms 4-6)	Exterior	Conduit	Steel	C	Intact	Negative	0.1
327	2/7/20	Building D (Classrooms 4-6)	Exterior	Electrical box	Metal	C	Intact	Negative	0.1
328	2/7/20	Building D (Classrooms 4-6)	Exterior	Capped conduit	Steel	C	Intact	Negative	0
329	2/7/20	Building D (Classrooms 4-6)	Exterior - Door Swing	Floor stripe	Concrete	B	Fair	Negative	0.2
330	2/7/20	Building D (Classrooms 4-6)	Exterior	Electrical box	Wood	B	Intact	Negative	0.1
331	2/7/20	Building D (Classrooms 4-6)	Exterior	Fuse box	Metal	B	Intact	Negative	0
332	2/7/20	Building D (Classrooms 4-6)	Exterior at Utility Room	Door	Wood	B	Intact	Negative	0.4
333	2/7/20	Building D (Classrooms 4-6)	Exterior at Utility Room	Door frame	Metal	B	Intact	Negative	0.6
334	**2/7/20**	**Building D (Classrooms 4-6)**	**Exterior at Utility Room**	**Door vent**	**Metal**	**B**	**Intact**	**Positive**	**12.6**
335	**2/7/20**	**Building D (Classrooms 4-6)**	**Exterior at Custodian Room**	**Double door**	**Wood**	**A**	**Intact**	**Positive**	**0.7**

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
336	**2/7/20**	**Building D (Classrooms 4-6)**	**Exterior at Custodian Room**	**Double door frame**	**Wood**	**A**	**Intact**	**Positive**	**2.1**
337	2/7/20	Building C	Exterior	Partition wall	Cinderblock	A	Intact	Negative	0.2
338	2/7/20			Calibrate				Positive	0.9
339	2/7/20			Calibrate				Positive	1
340	2/7/20			Calibrate				Positive	1
341	2/11/20			Calibrate				Positive	1
342	2/11/20			Calibrate				Positive	1
343	2/11/20			Calibrate				Positive	1
344	2/11/20	Building E Classrooms 7-10)	Exterior	Wall	Stucco	A	Intact	Negative	-0.1
345	2/11/20	Building E Classrooms 7-10)	Exterior	Wall	Stucco	B	Intact	Negative	-0.2
346	2/11/20	Building E Classrooms 7-10)	Exterior	Wall	Stucco	C	Intact	Negative	-0.2
347	2/11/20	Building E Classrooms 7-10)	Exterior	Wall	Stucco	D	Intact	Negative	0
348	**2/11/20**	**Building E Classrooms 7-10)**	**Exterior**	**Wall**	**Concrete**	**D**	**Intact**	**Positive**	**1.6**
349	**2/11/20**	**Building E Classrooms 7-10)**	**Exterior**	**Window sill**	**Wood**	**D**	**Fair**	**Positive**	**2.1**
350	**2/11/20**	**Building E Classrooms 7-10)**	**Exterior**	**Wall header**	**Wood**	**D**	**Intact**	**Positive**	**0.8**
351	2/11/20	Building E Classrooms 7-10)	Exterior	Door	Wood	D	Intact	Negative	0
352	2/11/20	Building E Classrooms 7-10)	Exterior	Door frame	Metal	D	Intact	Negative	0.1
353	2/11/20			Calibrate				Positive	0.9
354	2/11/20			Calibrate				Positive	1
355	2/11/20			Calibrate				Positive	1
356	2/11/20	Building E Classrooms 7-10)	Exterior	Gutter	Metal	D	Intact	Negative	0

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
357	2/11/20	Building E Classrooms 7-10)	Exterior	Downspout	Metal	D	Intact	Negative	0.1
358	2/11/20	Building E Classrooms 7-10)	Exterior	Flashing	Metal	C	Intact	Negative	0.2
359	2/11/20	Building E Classrooms 7-10)	Exterior	Wall flashing	Metal	Roof	Intact	Negative	0.1
360	2/11/20	Building E Classrooms 7-10)	Exterior	Conduit	Metal	Roof	Intact	Negative	0.2
361	2/11/20	Building E Classrooms 7-10)	Exterior	Ladder	Steel	Roof	Intact	Negative	0.1
362	2/11/20	Building E Classrooms 7-10)	Exterior	Door	Wood	B	Intact	Negative	0.1
363	2/11/20	Building E Classrooms 7-10)	Exterior	Door frame	Metal	B	Intact	Negative	0.1
364	2/11/20	Building E Classrooms 7-10)	Exterior	Backpack rack	Wood	B	Intact	Negative	-0.1
365	2/11/20	Building E Classrooms 7-10)	Exterior	Conduit	Metal	B	Intact	Negative	0.2
366	2/11/20	Building E Classrooms 7-10)	Exterior	Electrical box	Metal	B	Intact	Negative	0.1
367	2/11/20	Building E Classrooms 7-10)	Exterior	Electrical box	Wood	B	Intact	Negative	-0.1
368	2/11/20	Building E Classrooms 7-10)	Exterior	Table	Wood	B	Intact	Negative	0.1
369	2/11/20	Building E Classrooms 7-10)	Exterior	Wall panel	Metal	A	Intact	Negative	0
370	2/11/20	Building E Classrooms 7-10)	Exterior - Door Swing	Floor stripe	Concrete	B	Intact	Negative	0.3
371	2/11/20	Building E Classrooms 7-10)	Breezeway	Ceiling	Stucco	Upper	Intact	Negative	-0.3
372	2/11/20	Building E Classrooms 7-10)	Breezeway	Conduit	Metal	Upper	Intact	Negative	0.1

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
373	2/11/20	Building E Classrooms 7-10)	Breezeway	Light fixture frame	Metal	Upper	Intact	Positive	2.2
374	2/11/20	Building B (Classrooms 1-3)	Breezeway	Light fixture frame	Metal	Upper	Intact	Positive	2.2
375	2/11/20	Building E Classrooms 7-10)	Restrooms exterior	Wall	Stucco	A	Intact	Negative	-0.1
376	2/11/20	Building E Classrooms 7-10)	Restrooms exterior	Wall	Stucco	B	Intact	Negative	0
377	2/11/20	Building E Classrooms 7-10)	Restrooms exterior	Wall	Stucco	C	Intact	Negative	-0.2
378	2/11/20	Building E Classrooms 7-10)	Restrooms exterior	Wall	Stucco	D	Intact	Negative	-0.1
379	2/11/20	Building E Classrooms 7-10)	Restroom exterior at drinking fountain	Handrail	Metal	C	Intact	Negative	0.2
380	2/11/20	Building E Classrooms 7-10)	Restrooms exterior	Door	Metal	D	Intact	Negative	-0.1
381	2/11/20	Building E Classrooms 7-10)	Restrooms exterior	Door frame	Metal	D	Intact	Negative	0.3
382	2/11/20	Building E Classrooms 7-10)	Restrooms exterior	Door vent	Metal	D	Intact	Negative	0.1
383	2/11/20	Building E Classrooms 7-10)	Restrooms exterior	Flashing	Metal	D	Intact	Negative	0.3
384	2/11/20	Building E Classrooms 7-10)	Restrooms exterior	Electrical box	Metal	A	Intact	Negative	-0.1
385	2/11/20	Building E Classrooms 7-10)	Restrooms exterior	Conduit	Metal	A	Intact	Negative	-0.1
386	2/11/20			Calibrate				Positive	1.1
387	2/11/20			Calibrate				Positive	1
388	2/11/20			Calibrate				Positive	1
389	2/11/20	Building F (Classrooms 11-14)	Exterior	Wall	Stucco	A	Intact	Negative	0.1

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
390	2/11/20	Building F (Classrooms 11-14)	Exterior	Wall	Stucco	B	Intact	Negative	-0.1
391	2/11/20	Building F (Classrooms 11-14)	Exterior	Wall	Stucco	C	Intact	Negative	0
392	2/11/20	Building F (Classrooms 11-14)	Exterior	Wall	Stucco	D	Intact	Negative	0.2
393	2/11/20	Building F (Classrooms 11-14)	Exterior	Wall	Concrete	D	Intact	Negative	0.3
394	2/11/20	Building F (Classrooms 11-14)	Exterior	Window sill	Wood	D	Intact	Negative	0.6
395	2/11/20	Building F (Classrooms 11-14)	Exterior	Wall header	Wood	D	Intact	Negative	0.1
396	2/11/20	Building F (Classrooms 11-14)	Exterior	Door	Metal	D	Intact	Negative	-0.1
397	2/11/20	Building F (Classrooms 11-14)	Exterior	Door frame	Metal	D	Intact	Negative	-0.1
398	2/11/20	Building F (Classrooms 11-14)	Exterior	Water line	Metal	D	Intact	Negative	0.1
399	2/11/20	Building F (Classrooms 11-14)	Exterior	Gutter	Metal	D	Intact	Negative	0
400	2/11/20	Building F (Classrooms 11-14)	Exterior	Downspout	Steel	D	Intact	Negative	0.1
401	2/11/20	Building F (Classrooms 11-14)	Exterior	Flashing	Metal	C	Intact	Negative	0.1
402	2/11/20	Building F (Classrooms 11-14)	Exterior	Wall flashing	Metal	Roof	Intact	Negative	0.1
403	2/11/20	Building F (Classrooms 11-14)	Exterior	Conduit	Metal	Roof	Intact	Negative	0.1
404	2/11/20	Building F (Classrooms 11-14)	Exterior	Ladder	Steel	Roof	Intact	Negative	0.1
405	2/11/20	Building F (Classrooms 11-14)	Exterior	Conduit	Metal	C	Intact	Negative	0.3

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
406	2/11/20	Building F (Classrooms 11-14)	Exterior	Electrical box	Metal	C	Intact	Negative	0.2
407	2/11/20	Building F (Classrooms 11-14)	Exterior	Capped conduit	Metal	C	Intact	Negative	0.2
408	2/11/20	Building F (Classrooms 11-14)	Exterior	Door	Wood	B	Intact	Negative	0.1
409	2/11/20	Building F (Classrooms 11-14)	Exterior	Door frame	Metal	B	Intact	Negative	0
410	2/11/20	Building F (Classrooms 11-14)	Exterior	Backpack rack	Wood	B	Intact	Negative	0
411	2/11/20	Building F (Classrooms 11-14)	Exterior	Pole	Steel	B	Intact	Negative	0.2
412	2/11/20	Building F (Classrooms 11-14)	Exterior	Conduit	Metal	B	Intact	Negative	0.1
413	2/11/20	Building F (Classrooms 11-14)	Exterior	Electrical box	Metal	B	Intact	Negative	0
414	2/11/20	Building F (Classrooms 11-14)	Exterior	Electrical box	Wood	B	Intact	Negative	0.1
415	2/11/20	Building F (Classrooms 11-14)	Exterior - Door Swing	Floor stripe	Concrete	B	Intact	Negative	0.3
416	2/11/20	Building F (Classrooms 11-14)	Exterior	Wall panel	Metal	A	Intact	Negative	0
417	2/11/20	Building E (Classrooms 7-10)	Exterior	Water line	Metal	D	Intact	Negative	-0.1
418	2/11/20	Building G (Classrooms 15-18)	Exterior	Wall	Stucco	A	Intact	Negative	0.5
419	2/11/20	Building G (Classrooms 15-18)	Exterior	Wall	Stucco	B	Intact	Negative	0.6
420	2/11/20	Building G (Classrooms 15-18)	Exterior	Wall	Stucco	C	Intact	Negative	-0.1
421	2/11/20	Building G (Classrooms 15-18)	Exterior	Wall	Stucco	D	Intact	Negative	0.1

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
422	2/11/20	Building G (Classrooms 15-18)	Exterior	Wall	Concrete	D	Peeling	Negative	0.4
423	2/11/20	Building G (Classrooms 15-18)	Exterior	Window sill	Wood	D	Peeling	Negative	0.1
424	2/11/20	Building G (Classrooms 15-18)	Exterior	Wall header	Wood	D	Peeling	Negative	0.1
425	2/11/20	Building G (Classrooms 15-18)	Exterior	Water line	Metal	D	Intact	Negative	0.1
426	2/11/20	Building G (Classrooms 15-18)	Exterior	Door	Metal	D	Intact	Negative	0
427	2/11/20	Building G (Classrooms 15-18)	Exterior	Door frame	Metal	D	Intact	Negative	0.1
428	2/11/20	Building G (Classrooms 15-18)	Exterior	Gutter	Metal	D	Intact	Negative	0.2
429	2/11/20	Building G (Classrooms 15-18)	Exterior	Downspout	Metal	D	Intact	Negative	0.1
430	2/11/20	Building G (Classrooms 15-18)	Exterior	Downspout	Steel	D	Intact	Negative	-0.2
431	2/11/20	Building G (Classrooms 15-18)	Exterior	Flashing	Metal	C	Intact	Negative	0.2
432	**2/11/20**	**Building G (Classrooms 15-18)**	**Exterior**	**Drip edge**	**Metal**	**C**	**Intact**	**Positive**	**1.6**
433	**2/11/20**	**Building G (Classrooms 15-18)**	**Exterior**	**Drip edge**	**Metal**	**C**	**Intact**	**Positive**	**2.9**
434	**2/11/20**	**Building G (Classrooms 15-18)**	**Exterior**	**Drip edge**	**Metal**	**D**	**Intact**	**Positive**	**3.5**
435	2/11/20	Building G (Classrooms 15-18)	Exterior	Wall flashing	Metal	Roof	Intact	Negative	0.1
436	2/11/20	Building G (Classrooms 15-18)	Exterior	Conduit	Metal	Roof	Intact	Negative	0.1
437	2/11/20	Building G (Classrooms 15-18)	Exterior	Ladder	Steel	Roof	Intact	Negative	0.1

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
438	2/11/20	Building G (Classrooms 15-18)	Exterior	Door	Wood	B	Intact	Negative	0
439	2/11/20	Building G (Classrooms 15-18)	Exterior	Door frame	Metal	B	Intact	Negative	0.2
440	2/11/20	Building G (Classrooms 15-18)	Exterior	Backpack rack	Wood	B	Intact	Negative	0.1
441	2/11/20	Building G (Classrooms 15-18)	Exterior	Pole	Steel	B	Fair	Negative	0.2
442	2/11/20	Building G (Classrooms 15-18)	Exterior	Conduit	Metal	B	Intact	Negative	0.1
443	2/11/20	Building G (Classrooms 15-18)	Exterior	Electrical box	Metal	B	Intact	Negative	-0.1
444	2/11/20	Building G (Classrooms 15-18)	Exterior - Door Swing	Floor stripe	Concrete	B	Intact	Negative	0.2
445	2/11/20	Building G (Classrooms 15-18)	Exterior	Hand rail	Metal	B	Intact	Negative	0
446	2/11/20	Building G (Classrooms 15-18)	Exterior	Wall panel	Metal	A	Intact	Negative	0.1
447	2/11/20	Building G (Classrooms 15-18)	Breezeway	Ceiling	Stucco	Upper	Intact	Negative	0.2
448	2/11/20	Building G (Classrooms 15-18)	Breezeway	Conduit	Metal	Upper	Intact	Negative	0.1
449	2/11/20	Building G (Classrooms 15-18)	Breezeway	Electrical box	Metal	Upper	Intact	Negative	0.1
450	2/11/20	Building G (Classrooms 15-18)	Breezeway	Light fixture frame	Metal	Upper	Intact	Negative	0.2
451	2/11/20	Building G (Classrooms 15-18)	Restrooms exterior	Wall	Stucco	A	Intact	Negative	0.5
452	2/11/20	Building G (Classrooms 15-18)	Restrooms exterior	Wall	Stucco	B	Intact	Negative	-0.3
453	2/11/20	Building G (Classrooms 15-18)	Restrooms exterior	Wall	Stucco	C	Intact	Negative	0.4

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
454	2/11/20	Building G (Classrooms 15-18)	Restrooms exterior	Wall	Stucco	D	Intact	Negative	-0.1
455	2/11/20	Building G (Classrooms 15-18)	Restrooms exterior	Conduit	Steel	D	Intact	Negative	0.3
456	2/11/20	Building G (Classrooms 15-18)	Restrooms exterior	Conduit	Metal	D	Intact	Negative	0.2
457	2/11/20	Building G (Classrooms 15-18)	Restrooms exterior	Conduit	PVC	C	Intact	Negative	0.1
458	2/11/20	Building G (Classrooms 15-18)	Restrooms exterior	Electrical box	Metal	C	Intact	Negative	0.1
459	2/11/20	Building G (Classrooms 15-18)	Restrooms exterior	Door	Metal	B	Intact	Negative	0.1
460	2/11/20	Building G (Classrooms 15-18)	Restrooms exterior	Door frame	Metal	B	Intact	Negative	0.1
461	2/11/20	Building G (Classrooms 15-18)	Restrooms exterior	Flashing	Metal	D	Intact	Negative	0.3
462	**2/11/20**	**Building F (Classrooms 11-14)**	**Exterior**	**Drip edge**	**Metal**	**D**	**Intact**	**Positive**	**6.5**
463	2/11/20	Building E ClassrRooms 7-10)	Exterior	Drip edge	Metal	D	Intact	Negative	0.4
464	2/11/20	Staff Restroom Building	Exterior	Wall	Stucco	A	Intact	Negative	0.5
465	2/11/20	Staff Restroom Building	Exterior	Wall	Stucco	B	Intact	Negative	0.5
466	2/11/20	Staff Restroom Building	Exterior	Wall	Stucco	C	Intact	Negative	0.5
467	2/11/20	Staff Restroom Building	Exterior	Wall	Stucco	D	Intact	Negative	0.4
468	2/11/20	Staff Restroom Building	Exterior	Overhang	Stucco	B	Intact	Negative	0.4
469	2/11/20	Staff Restroom Building	Exterior	Conduit	Metal	C	Intact	Negative	0.4

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
470	2/11/20	Staff Restroom Building	Exterior	Door	Metal	B	Intact	Negative	0.1
471	2/11/20	Staff Restroom Building	Exterior	Door frame	Metal	B	Intact	Negative	0.1
472	2/11/20	Staff Restroom Building	Exterior	Door vent	Metal	B	Intact	Negative	0.2
473	2/11/20	Staff Restroom Building	Exterior	Fascia	Wood	B	Intact	Negative	-0.1
474	2/11/20	Staff Restroom Building	Exterior	Flashing	Metal	B	Intact	Negative	0.2
475	2/11/20	Staff Restroom Building	Exterior	Wall flashing	Metal	Roof	Intact	Negative	0.1
476	2/11/20			Calibrate				Positive	1
477	2/11/20			Calibrate				Positive	1
478	2/11/20			Calibrate				Positive	1.1
479	2/12/20			Calibrate				Positive	0.8
480	2/12/20			Calibrate				Negative	0.6
481	2/12/20			Calibrate				Positive	0.8
482	2/12/20			Calibrate				Positive	0.7
483	2/12/20			Calibrate				Positive	0.8
484	2/12/20			Calibrate				Negative	0.6
485	2/12/20			Calibrate				Negative	0.6
486	2/12/20			Calibrate				Negative	0.6
487	2/12/20	Building H Classrooms 19-20)	Exterior	Wall	Stucco	A	Intact	Negative	-0.1
488	**2/12/20**	**Building H Classrooms 19-20)**	**Exterior**	**Window frame**	**Wood**	**A**	**Intact**	**Positive**	**1**
489	2/12/20	Building H Classrooms 19-20)	Exterior	Window trim	Wood	A	Intact	Negative	0.2
490	2/12/20	Building H Classrooms 19-20)	Exterior	Window trim	Wood	A	Intact	Negative	-0.1

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
491	**2/12/20**	**Building H Classrooms 19-20)**	**Exterior**	**Window trim**	**Wood**	**A**	**Intact**	**Positive**	**1.7**
492	2/12/20	Building H Classrooms 19-20)	Exterior	Window panel	Plastic	A	Intact	Negative	0.2
493	**2/12/20**	**Building H Classrooms 19-20)**	**Exterior**	**Window panel**	**Wood**	**A**	**Peeling**	**Positive**	**2.3**
494	2/12/20	Building H Classrooms 19-20)	Exterior	Window flashing	Metal	B	Intact	Negative	0.6
495	2/12/20	Building H Classrooms 19-20)	Exterior	Pole	Metal	B	Intact	Negative	0.1
496	**2/12/20**	**Building H Classrooms 19-20)**	**Exterior**	**Window sill**	**Wood**	**A**	**Intact**	**Positive**	**2.7**
497	2/12/20	Building H Classrooms 19-20)	Exterior	Wall	Stucco	A	Intact	Negative	0.1
498	2/12/20	Building H Classrooms 19-20)	Exterior	Downspout	Metal	A	Intact	Negative	-0.1
499	**2/12/20**	**Building H Classrooms 19-20)**	**Exterior**	**Foundation**	**Concrete**	**A**	**Peeling**	**Positive**	**3.5**
500	2/12/20	Building H Classrooms 19-20)	Exterior	Wall	Stucco	A	Peeling	Negative	-0.1
501	2/12/20	Building H Classrooms 19-20)	Exterior	Wall	Stucco	B	Intact	Negative	0.3
502	2/12/20	Building H Classrooms 19-20)	Exterior	Door	Metal	B	Intact	Negative	0.1
503	2/12/20	Building H Classrooms 19-20)	Exterior	Door frame	Metal	B	Intact	Negative	0.1
504	**2/12/20**	**Building H Classrooms 19-20)**	**Exterior**	**Window sill**	**Wood**	**B**	**Intact**	**Positive**	**2.3**
505	**2/12/20**	**Building H Classrooms 19-20)**	**Exterior**	**Window frame**	**Wood**	**B**	**Intact**	**Positive**	**0.8**
506	2/12/20	Building H Classrooms 19-20)	Exterior	Fire extinguisher case	Metal	B	Intact	Negative	0.4

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
507	**2/12/20**	**Building H Classrooms 19-20)**	**Exterior**	**Fire extinguisher case**	**Metal**	**B**	**Intact**	**Positive**	**0.7**
508	2/12/20	Building H Classrooms 19-20)	Exterior	Downspout	Metal	B	Intact	Negative	-0.1
509	2/12/20	Building H Classrooms 19-20)	Exterior	Gutter	Metal	B	Intact	Negative	0
510	2/12/20	Building H Classrooms 19-20)	Exterior	Vent	Metal	B	Intact	Negative	0.5
511	2/12/20	Building H Classrooms 19-20)	Exterior	Conduit	Metal	C	Intact	Negative	0.1
512	2/12/20	Building H Classrooms 19-20)	Exterior	Conduit	Metal	C	Intact	Negative	0.2
513	2/12/20	Building H Classrooms 19-20)	Exterior	Conduit	Metal	C	Intact	Negative	0
514	2/12/20	Building H Classrooms 19-20)	Exterior	Drip edge	Metal	C	Intact	Negative	0.2
515	2/12/20	Building H Classrooms 19-20)	Exterior	Flashing	Metal	C	Intact	Negative	0.3
516	2/12/20	Building H Classrooms 19-20)	Exterior	Flashing	Metal	C	Intact	Negative	0.2
517	2/12/20	Building H Classrooms 19-20)	Exterior	Wall	Stucco	C	Intact	Negative	-0.1
518	2/12/20	Building H Classrooms 19-20)	Exterior	Electrical box	Metal	C	Intact	Negative	0.2
519	2/12/20	Building H Classrooms 19-20)	Exterior	Electrical box	Metal	C	Intact	Negative	-0.1
520	2/12/20	Building H Classrooms 19-20)	Exterior	Pipe	Metal	C	Intact	Negative	0.1
521	2/12/20	Building H Classrooms 19-20)	Exterior	Pipe	Metal	C	Intact	Negative	0.1
522	2/12/20	Building H Classrooms 19-20)	Exterior	Door	Metal	D	Intact	Negative	0.1

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
523	2/12/20	Building H Classrooms 19-20)	Exterior	Door frame	Metal	D	Intact	Negative	0
524	2/12/20	Building H Classrooms 19-20)	Exterior	Door frame	Metal	D	Intact	Negative	0.2
525	2/12/20	Building H Classrooms 19-20)	Exterior	Door	Metal	D	Intact	Negative	0.1
526	2/12/20	Building H Classrooms 19-20)	Exterior	Wall	Stucco	D	Intact	Negative	0.1
527	2/12/20	Building H Classrooms 19-20)	Exterior	Elephant mural	Stucco	D	Peeling	Negative	0.1
528	2/12/20	Building H Classrooms 19-20)	Exterior	Drinking fountain	Porcelain	D	Intact	Negative	0.1
529	2/12/20	Campus	Playground	Floor stripe	Asphalt	Lower	Intact	Negative	0.3
530	2/12/20	Campus	Playground	Floor stripe	Asphalt	Lower	Intact	Negative	0.2
531	2/12/20	Campus	Playground	Floor stripe	Asphalt	Lower	Intact	Negative	0.2
532	2/12/20	Campus	Playground	Floor stripe	Asphalt	Lower	Intact	Negative	-0.1
533	2/12/20	Campus	Playground	Floor stripe	Asphalt	Lower	Intact	Negative	0.3
534	2/12/20	Campus	Playground	Floor stripe	Asphalt	Lower	Intact	Negative	0.3
535	2/12/20	Campus	Playground	Fence	Wood	B	Intact	Negative	0.1
536	2/12/20	Campus	Playground	Fence	Wood	B	Intact	Negative	0
537	2/12/20	Campus	Playground	Fence	Wood	B	Intact	Negative	0
538	2/12/20	Campus	Playground	Fence	Wood	B	Intact	Negative	0.1
539	2/12/20	Covered Walkway 1	Exterior	Ceiling	Wood	Upper	Intact	Negative	0.2
540	2/12/20	Covered Walkway 1	Exterior	Ceiling beam	Wood	Upper	Intact	Negative	0.1
541	2/12/20	Covered Walkway 1	Exterior	Fascia	Wood	B	Intact	Negative	0.1
542	2/12/20	Covered Walkway 1	Exterior	Gutter	Metal	B	Intact	Negative	0.1
543	2/12/20	Covered Walkway 1	Exterior	Downspout	Metal	B	Intact	Negative	-0.1
544	**2/12/20**	**Covered Walkway 1**	**Exterior**	**Pole**	**Metal**	**B**	**Intact**	**Positive**	**4**
545	2/12/20	Covered Walkway 1	Exterior	Drip edge	Metal	D	Intact	Negative	0.2
546	2/12/20	Covered Walkway 1	Exterior	Floor stripe	Concrete	Lower	Intact	Negative	0.2
547	2/12/20	Covered Walkway 1	Exterior	Conduit	Metal	Upper	Intact	Negative	0.4
548	2/12/20	Covered Walkway 1	Exterior	Conduit	Metal	Upper	Intact	Negative	0

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
549	2/12/20	Covered Walkway 1	Exterior	Ceiling	Wood	Upper	Intact	Negative	0
550	2/12/20	Covered Walkway 1	Exterior	Ceiling beam	Wood	Upper	Intact	Negative	0
551	2/12/20	Covered Walkway 1	Exterior	Ceiling beam	Wood	Upper	Intact	Negative	0.1
552	2/12/20	Covered Walkway 1	Exterior	Fascia	Wood	Upper	Intact	Negative	0.2
553	2/12/20	Covered Walkway 1	Exterior	Drip edge	Metal	B	Intact	Negative	0.2
554	2/12/20	Covered Walkway 1	Exterior	Downspout	Metal	B	Intact	Negative	0
555	2/12/20	Covered Walkway 1	Exterior	Floor stripe	Concrete	Lower	Intact	Negative	0.2
556	2/12/20	Covered Walkway 1	Exterior	Floor stripe	Concrete	Lower	Intact	Negative	0.2
557	**2/12/20**	**Covered Walkway 2**	**Exterior**	**Ceiling**	**Stucco**	**Upper**	**Intact**	**Positive**	**2.5**
558	2/12/20	Covered Walkway 2	Exterior	Fascia	Wood	C	Intact	Negative	-0.1
559	2/12/20	Covered Walkway 2	Exterior	Gutter	Metal	C	Intact	Negative	0
560	2/12/20	Covered Walkway 2	Exterior	Downspout	Metal	C	Intact	Negative	0.2
561	2/12/20	Covered Walkway 2	Exterior	Drip edge	Metal	C	Intact	Negative	0.2
562	**2/12/20**	**Covered Walkway 2**	**Exterior**	**Pole**	**Metal**	**C**	**Intact**	**Positive**	**2.3**
563	**2/12/20**	**Covered Walkway 3**	**Exterior**	**Ceiling**	**Stucco**	**Upper**	**Intact**	**Positive**	**2.9**
564	2/12/20	Covered Walkway 3	Exterior	Conduit	Metal	Upper	Intact	Negative	0.3
565	2/12/20	Covered Walkway 3	Exterior	Fascia	Wood	C	Intact	Negative	0.5
566	2/12/20	Covered Walkway 3	Exterior	Drip edge	Metal	C	Intact	Negative	0.4
567	**2/12/20**	**Covered Walkway 3**	**Exterior**	**Riser**	**Wood**	**C**	**Intact**	**Positive**	**1.1**
568	**2/12/20**	**Covered Walkway 3**	**Exterior**	**Riser**	**Wood**	**C**	**Intact**	**Positive**	**0.8**
569	**2/12/20**	**Covered Walkway 3**	**Exterior**	**Riser**	**Metal**	**C**	**Intact**	**Positive**	**2**
570	2/12/20	Covered Walkway 3	Exterior	Downspout	Metal	C	Intact	Negative	0.2
571	2/12/20	Covered Walkway 3	Exterior	Downspout	Metal	C	Intact	Negative	-0.2
572	2/12/20	Covered Walkway 3	Exterior	Floor	Concrete	Lower	Intact	Negative	0.2
573	2/12/20	Covered Walkway 3	Exterior	Floor stripe	Concrete	Lower	Intact	Negative	0.3
574	2/12/20	Covered Walkway 3	Exterior	Fascia	Wood	A	Intact	Negative	0
575	2/12/20	Covered Walkway 3	Exterior	Drip edge	Metal	A	Intact	Negative	0.1
576	2/12/20	Covered Walkway 3	Exterior	Sign	Wood	A	Intact	Negative	0
577	2/12/20	Covered Walkway 4	Exterior	Ceiling	Wood	Upper	Intact	Negative	0.1
578	2/12/20	Covered Walkway 4	Exterior	Ceiling	Wood	Upper	Intact	Negative	0.1
579	2/12/20	Covered Walkway 4	Exterior	Ceiling beam	Wood	Upper	Intact	Negative	0
580	2/12/20	Covered Walkway 4	Exterior	Ceiling beam	Wood	Upper	Intact	Negative	0.1

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
581	2/12/20	Covered Walkway 4	Exterior	Fascia	Wood	B	Intact	Negative	0.1
582	2/12/20	Covered Walkway 4	Exterior	Fascia	Wood	B	Intact	Negative	0
583	2/12/20	Covered Walkway 4	Exterior	Downspout	Metal	B	Intact	Negative	0
584	2/12/20	Covered Walkway 4	Exterior	Drip edge	Metal	B	Intact	Negative	0.2
585	2/12/20	Covered Walkway 4	Exterior	Conduit	Metal	Upper	Intact	Negative	0.6
586	2/12/20	Covered Walkway 4	Exterior	Pole	Metal	B	Intact	Negative	0.1
587	**2/12/20**	**Covered Walkway 4**	**Exterior**	**Pole**	**Metal**	**B**	**Intact**	**Positive**	**1.3**
588	2/12/20	Covered Walkway 4	Exterior	Floor	Concrete	Lower	Intact	Negative	0.2
589	2/12/20	Covered Walkway 5	Exterior	Floor stripe	Concrete	Lower	Intact	Negative	0.2
590	2/12/20	Covered Walkway 5	Exterior	Ceiling	Wood	Upper	Intact	Negative	0.2
591	2/12/20	Covered Walkway 5	Exterior	Ceiling	Wood	Upper	Intact	Negative	0
592	2/12/20	Covered Walkway 5	Exterior	Ceiling beam	Wood	Upper	Intact	Negative	0.1
593	2/12/20	Covered Walkway 5	Exterior	Ceiling beam	Wood	Upper	Intact	Negative	0
594	2/12/20	Covered Walkway 5	Exterior	Fascia	Wood	C	Intact	Negative	0.2
595	2/12/20	Covered Walkway 5	Exterior	Drip edge	Metal	C	Intact	Negative	0.2
596	2/12/20	Covered Walkway 5	Exterior	Conduit	Metal	C	Intact	Negative	0.3
597	**2/12/20**	**Covered Walkway 5**	**Exterior**	**Pole**	**Metal**	**A**	**Intact**	**Positive**	**2.6**
598	2/12/20	Covered Walkway 5	Exterior	Floor stripe	Concrete	Lower	Intact	Negative	0.3
599	2/12/20	Covered Walkway 5	Exterior	Ceiling	Wood	Upper	Intact	Negative	0.1
600	2/12/20	Covered Walkway 5	Exterior	Ceiling	Wood	Upper	Intact	Negative	0
601	2/12/20	Covered Walkway 5	Exterior	Ceiling beam	Wood	Upper	Intact	Negative	0.1
602	2/12/20	Covered Walkway 6	Exterior	Ceiling beam	Wood	Upper	Intact	Negative	-0.2
603	2/12/20	Covered Walkway 6	Exterior	Ceiling beam	Wood	Upper	Intact	Negative	0.1
604	2/12/20	Covered Walkway 6	Exterior	Ceiling	Wood	Upper	Intact	Negative	-0.2
605	2/12/20	Covered Walkway 6	Exterior	Ceiling	Wood	Upper	Intact	Negative	0.1
606	2/12/20	Covered Walkway 6	Exterior	Fascia	Wood	B	Intact	Negative	0.1
607	2/12/20	Covered Walkway 6	Exterior	Drip edge	Metal	B	Intact	Negative	0.2
608	2/12/20	Covered Walkway 6	Exterior	Downspout	Metal	B	Intact	Negative	-0.1
609	**2/12/20**	**Covered Walkway 6**	**Exterior**	**Pole**	**Metal**	**B**	**Intact**	**Positive**	**2.7**
610	2/12/20	Covered Walkway 7	Exterior	Pole	Metal	B	Intact	Negative	0.6
611	2/12/20	Covered Walkway 7	Exterior	Pole	Metal	B	Intact	Negative	0.4
612	2/12/20	Covered Walkway 7	Exterior	Pole	Metal	B	Intact	Negative	0.5

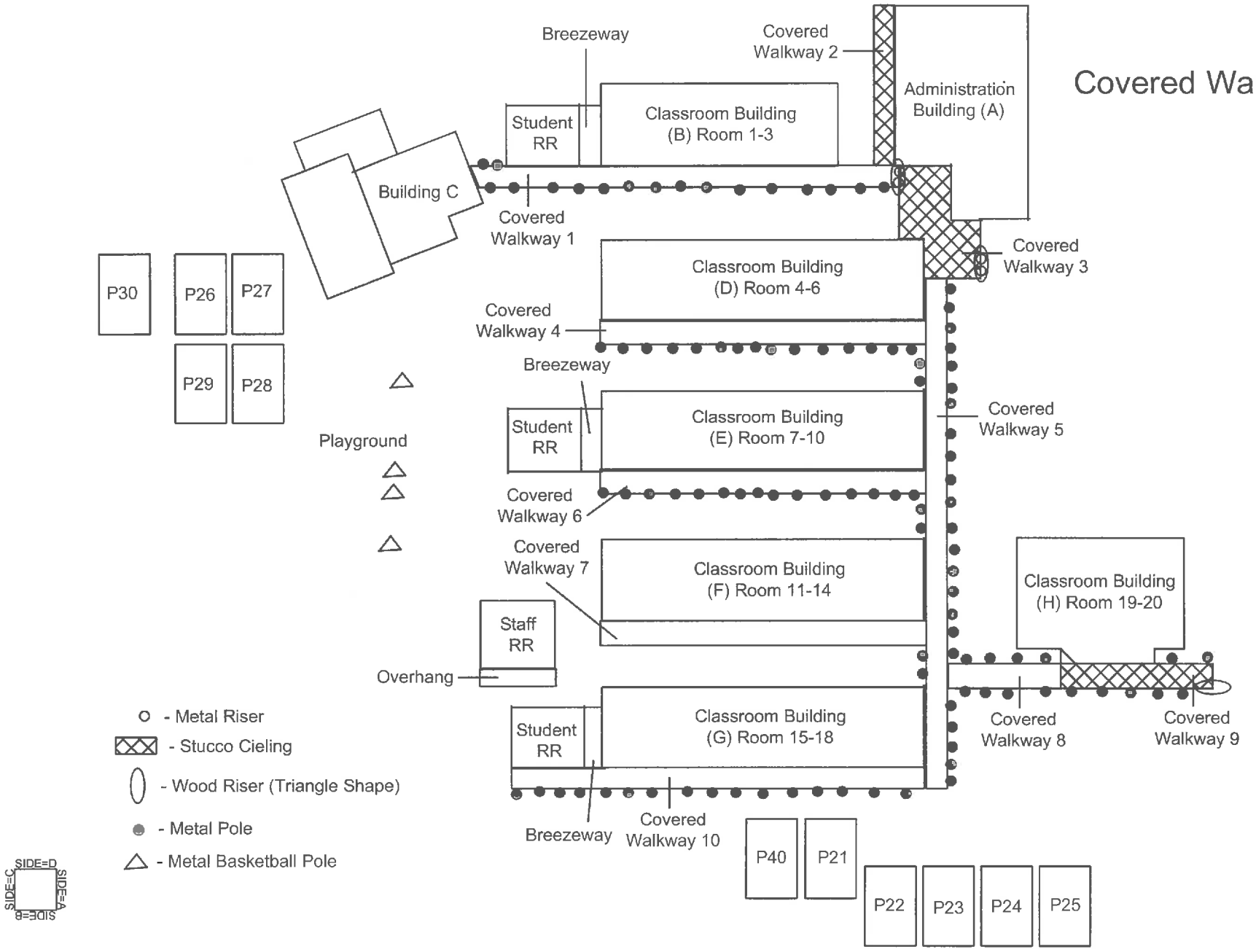
Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
613	2/12/20	Covered Walkway 7	Exterior	Pole	Metal	B	Intact	Negative	0.6
614	2/12/20	Covered Walkway 7	Exterior	Pole	Metal	B	Intact	Negative	0.6
615	2/12/20	Covered Walkway 7	Exterior	Pole	Metal	B	Intact	Negative	0.5
616	2/12/20	Covered Walkway 7	Exterior	Pole	Metal	B	Intact	Negative	0.3
617	2/12/20	Covered Walkway 7	Exterior	Pole	Metal	B	Intact	Negative	0.3
618	2/12/20	Covered Walkway 7	Exterior	Pole	Metal	B	Intact	Negative	0.3
619	2/12/20	Covered Walkway 7	Exterior	Pole	Metal	B	Intact	Negative	0.6
620	2/12/20	Covered Walkway 7	Exterior	Pole	Metal	B	Intact	Negative	0.3
621	2/12/20	Covered Walkway 7	Exterior	Pole	Metal	B	Intact	Negative	0.4
622	2/12/20	Covered Walkway 7	Exterior	Pole	Metal	B	Intact	Negative	0.5
623	2/12/20	Covered Walkway 7	Exterior	Pole	Metal	B	Intact	Negative	0.3
624	2/12/20	Covered Walkway 7	Exterior	Pole	Metal	B	Intact	Negative	0.5
625	2/12/20	Covered Walkway 7	Exterior	Pole	Metal	B	Intact	Negative	0.6
626	2/12/20	Covered Walkway 7	Exterior	Pole	Metal	B	Intact	Negative	0.6
627	2/12/20	Covered Walkway 7	Exterior	Pole	Metal	B	Intact	Negative	0.3
628	2/12/20	Covered Walkway 7	Exterior	Ceiling	Wood	Upper	Intact	Negative	0.2
629	2/12/20	Covered Walkway 7	Exterior	Ceiling	Wood	Upper	Intact	Negative	-0.1
630	2/12/20	Covered Walkway 7	Exterior	Ceiling beam	Wood	Upper	Intact	Negative	0
631	2/12/20	Covered Walkway 7	Exterior	Ceiling beam	Wood	Upper	Intact	Negative	-0.1
632	2/12/20	Covered Walkway 7	Exterior	Fascia	Wood	B	Intact	Negative	0.1
633	2/12/20	Covered Walkway 7	Exterior	Fascia	Wood	C	Intact	Negative	0.1
634	2/12/20	Covered Walkway 7	Exterior	Drip edge	Metal	B	Intact	Negative	0.2
635	2/12/20	Covered Walkway 7	Exterior	Downspout	Metal	B	Intact	Negative	0
636	2/12/20	Covered Walkway 7	Exterior	Floor stripe	Concrete	Lower	Intact	Negative	0.2
637	2/12/20	Covered Walkway 7	Exterior	Floor stripe	Concrete	Lower	Intact	Negative	0.3
638	2/12/20	Covered Walkway 8	Exterior	Floor stripe	Concrete	Lower	Intact	Negative	0.4
639	2/12/20	Covered Walkway 8	Exterior	Ceiling	Wood	Upper	Intact	Negative	0.1
640	2/12/20	Covered Walkway 8	Exterior	Ceiling	Wood	Upper	Intact	Negative	-0.1
641	2/12/20	Covered Walkway 8	Exterior	Ceiling beam	Wood	Upper	Intact	Negative	0.1
642	2/12/20	Covered Walkway 8	Exterior	Ceiling beam	Wood	Upper	Intact	Negative	0.1
643	2/12/20	Covered Walkway 8	Exterior	Pole	Metal	D	Intact	Negative	0
644	**2/12/20**	**Covered Walkway 8**	**Exterior**	**Pole**	**Metal**	**D**	**Intact**	**Positive**	**1.7**

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
645	2/12/20	Covered Walkway 8	Exterior	Fascia	Wood	D	Intact	Negative	0.1
646	2/12/20	Covered Walkway 8	Exterior	Drip edge	Metal	D	Intact	Negative	0.2
647	**2/12/20**	**Covered Walkway 9**	**Exterior**	**Ceiling**	**Stucco**	**Upper**	**Intact**	**Positive**	**1**
648	**2/12/20**	**Covered Walkway 9**	**Exterior**	**Pole**	**Metal**	**B**	**Intact**	**Positive**	**3.9**
649	**2/12/20**	**Covered Walkway 9**	**Exterior**	**Riser**	**Wood**	**B**	**Intact**	**Positive**	**1**
650	2/12/20	Covered Walkway 9	Exterior	Fascia	Wood	B	Intact	Negative	-0.1
651	2/12/20	Covered Walkway 9	Exterior	Floor stripe	Concrete	Lower	Intact	Negative	0.4
652	2/12/20	Covered Walkway 10	Exterior	Ceiling	Wood	Upper	Intact	Negative	0
653	2/12/20	Covered Walkway 10	Exterior	Ceiling	Wood	Upper	Intact	Negative	0
654	2/12/20	Covered Walkway 10	Exterior	Ceiling beam	Wood	Upper	Intact	Negative	0.2
655	2/12/20	Covered Walkway 10	Exterior	Ceiling beam	Wood	Upper	Intact	Negative	0
656	2/12/20	Covered Walkway 10	Exterior	Fascia	Wood	B	Intact	Negative	0.1
657	2/12/20	Covered Walkway 10	Exterior	Drip edge	Metal	B	Intact	Negative	0.3
658	2/12/20	Covered Walkway 10	Exterior	Downspout	Metal	B	Intact	Negative	-0.1
659	2/12/20	Covered Walkway 10	Exterior	Hand rail	Metal	B	Intact	Negative	0
660	2/12/20	Covered Walkway 10	Exterior	Pole	Metal	B	Intact	Negative	0.5
661	**2/12/20**	**Covered Walkway 10**	**Exterior**	**Pole**	**Metal**	**B**	**Intact**	**Positive**	**0.7**
662	2/12/20	Covered Walkway 10	Exterior	Hand rail	Metal	D	Intact	Negative	0
663	**2/12/20**			Calibrate				**Positive**	**1**
664	**2/12/20**			Calibrate				**Positive**	**1.1**
665	**2/12/20**			Calibrate				**Positive**	**1**

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
666	2/12/20	Campus	Playground	Basketball pole	Metal	C	Intact	Positive	2.2
667	2/12/20	Campus	Playground	Floor stripe	Asphalt	Lower	Intact	Negative	0.3
668	2/12/20	Campus	Playground	Floor stripe	Asphalt	Lower	Intact	Negative	0.2
669	2/12/20	Campus	Playground	Floor stripe	Asphalt	Lower	Intact	Negative	0.3
670	2/12/20	Campus	Playground	Floor stripe	Asphalt	Lower	Intact	Negative	0.3
671	2/12/20	Campus	Playground	Floor stripe	Asphalt	Lower	Intact	Negative	0.3
672	2/12/20	Covered Walkway 9	Exterior	Fascia	Wood	A	Intact	Negative	-0.1
673	2/12/20	Covered Walkway 9	Exterior	Drip edge	Metal	A	Intact	Negative	0.2
674	2/12/20	Covered Walkway 9	Exterior	Pipe	Metal	D	Intact	Negative	0.1
675	2/12/20			Calibrate				Positive	0.9
676	2/12/20			Calibrate				Positive	0.8
677	2/12/20			Calibrate				Positive	0.9

APPENDIX B – SITE DRAWING

Covered Walkways

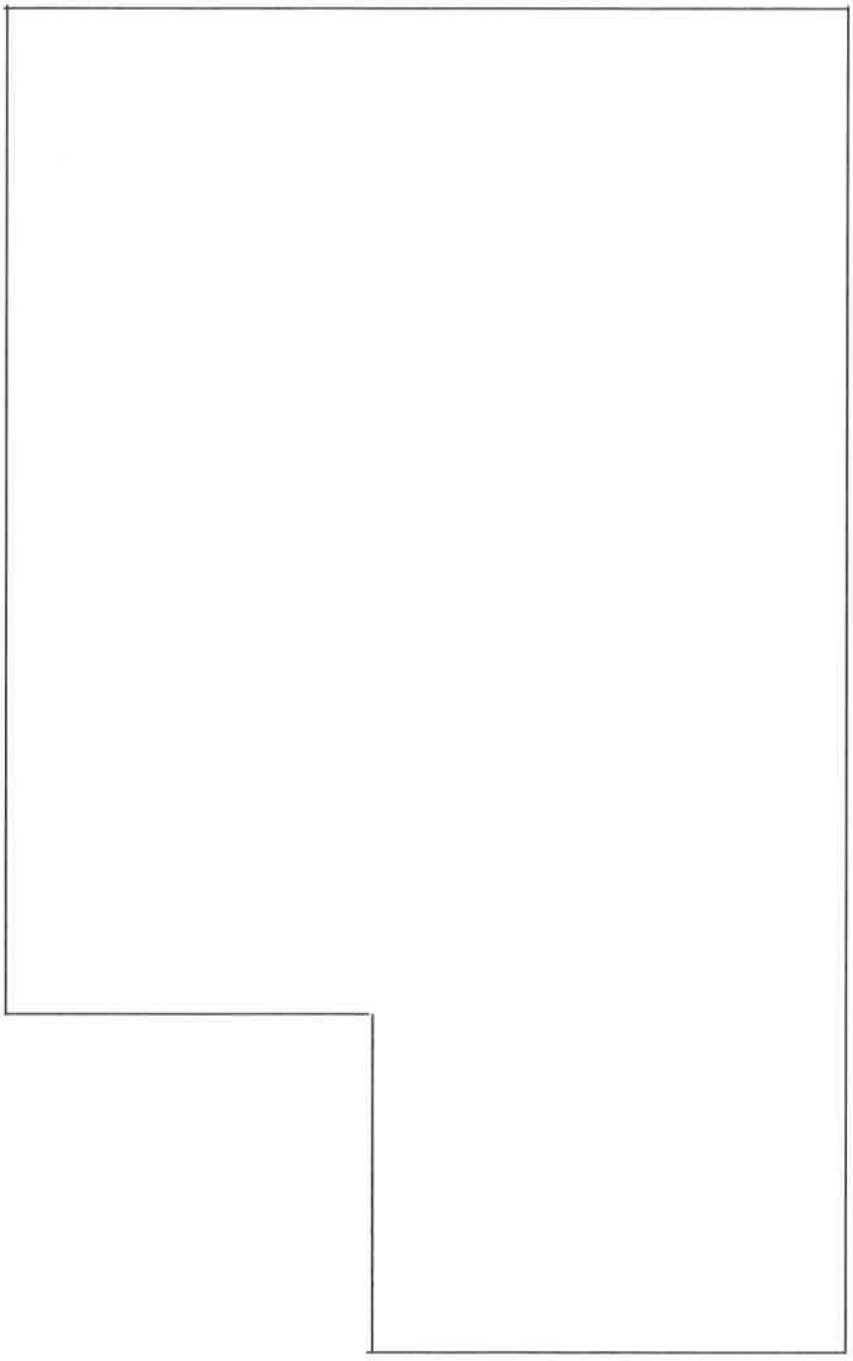


Client: Rosemead School District	**Project #:** 20-Z0046-0027	**Info:** Lead-Based Paint Identified

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Site: Encinita Elementary School - Painting Project
Address: 4515 Encinita Avenue
Rosemead, California 91770

Administration Building (A)

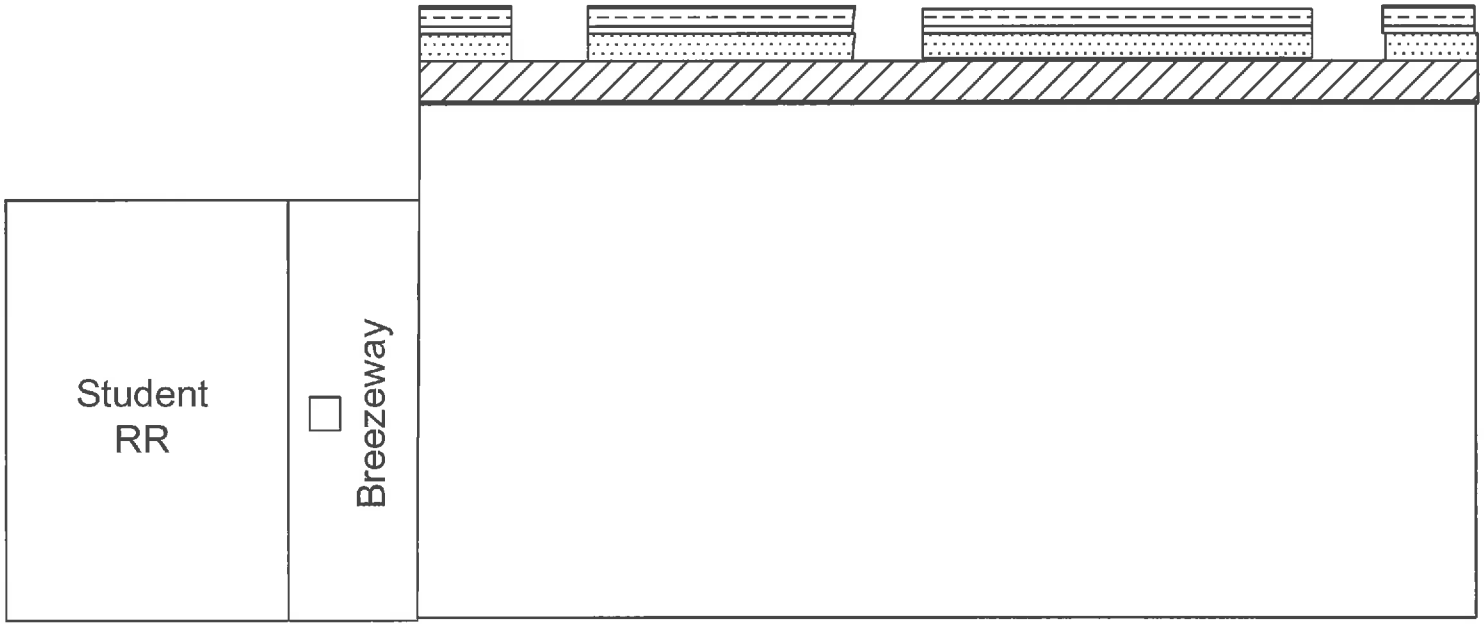


N

Client: Rosemead School District	**Project#:** 20-Z0046-0027	**Info:** No Lead-Based Paint Identified
EXECUTIVE ENVIRONMENTAL HEALTH & SAFETY SIMPLIFIED		**Site:** Encinita Elementary School - Roofing Project **Address:** 4515 Encinita Avenue Rosemead, California 91770

Drawing Not to Scale - © 2012

Classroom Building (B)
Room 1-3



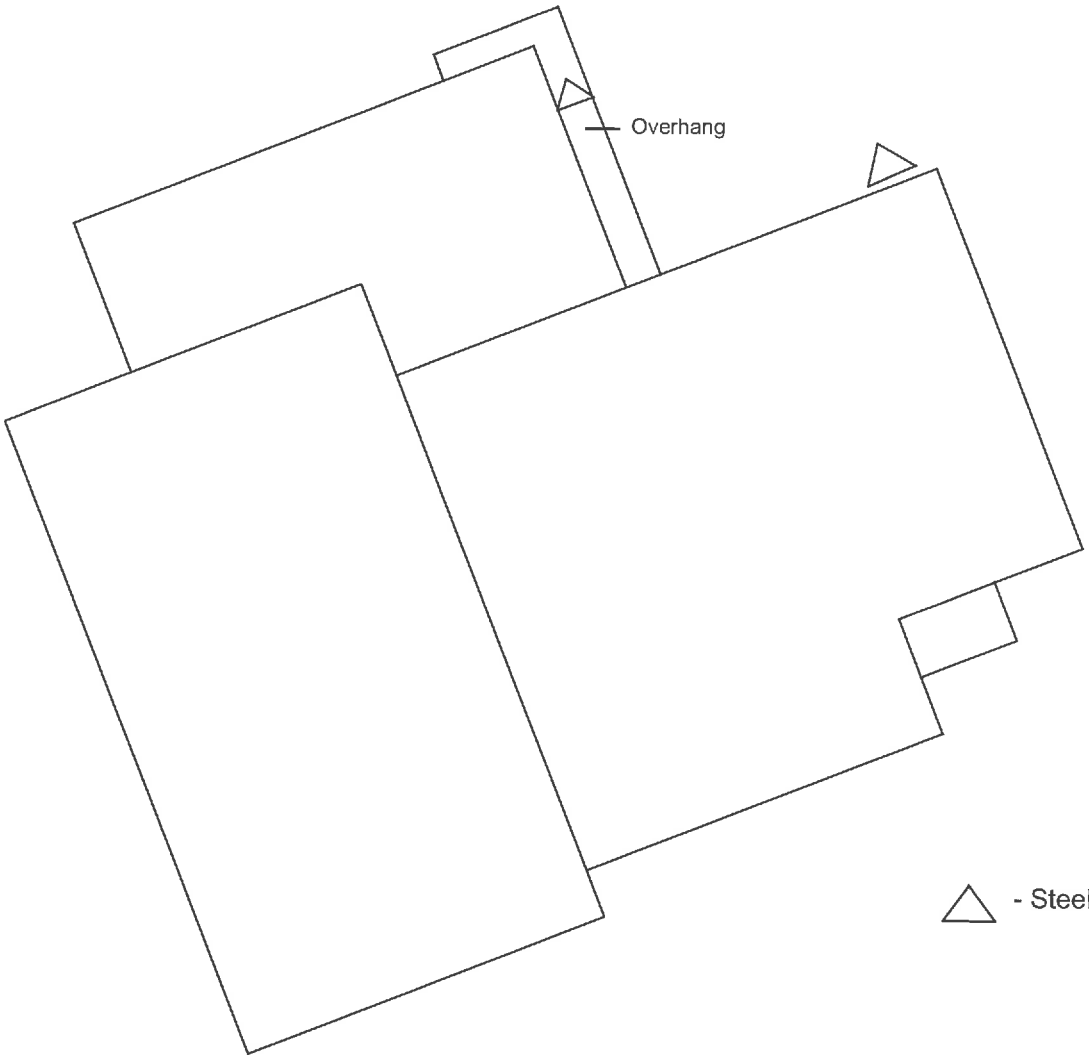
- Concrete Wall. Below Windows
- Wood Window Sill
- Wood Wall Header
- Metal Light Fixture Frame

SIDE=D SIDE=C SIDE=A SIDE=B

N

Client: Rosemead School District	**Project #:** 20-Z0046-0027	**Info:** Lead-Based Paint Identified
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Encinita Elementary School - Painting Project **Address:** 4515 Encinita Avenue Rosemead, California 91770

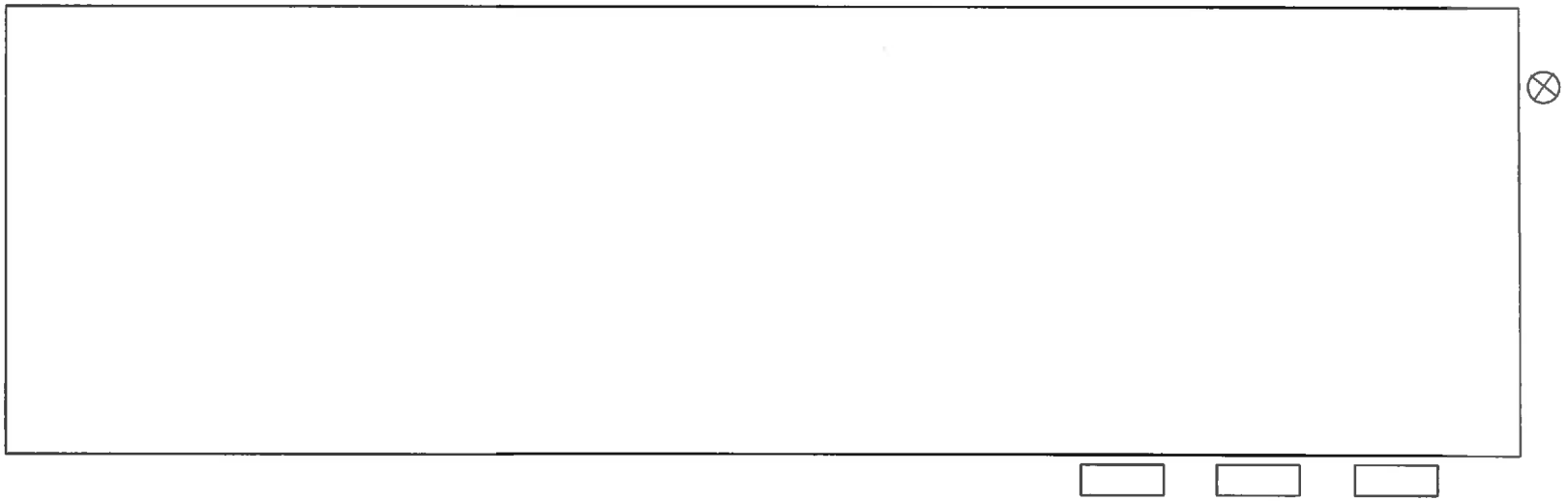
Building C - Multi-Purpose Room



N

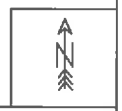
Client: Rosemead School District	**Project #:** 20-Z0046-0027	**Info:** Lead-Based Paint Identified
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Encinita Elementary School - Painting Project **Address:** 4515 Encinita Avenue Rosemead, California 91770

Classroom Building (D)
Room 4-6



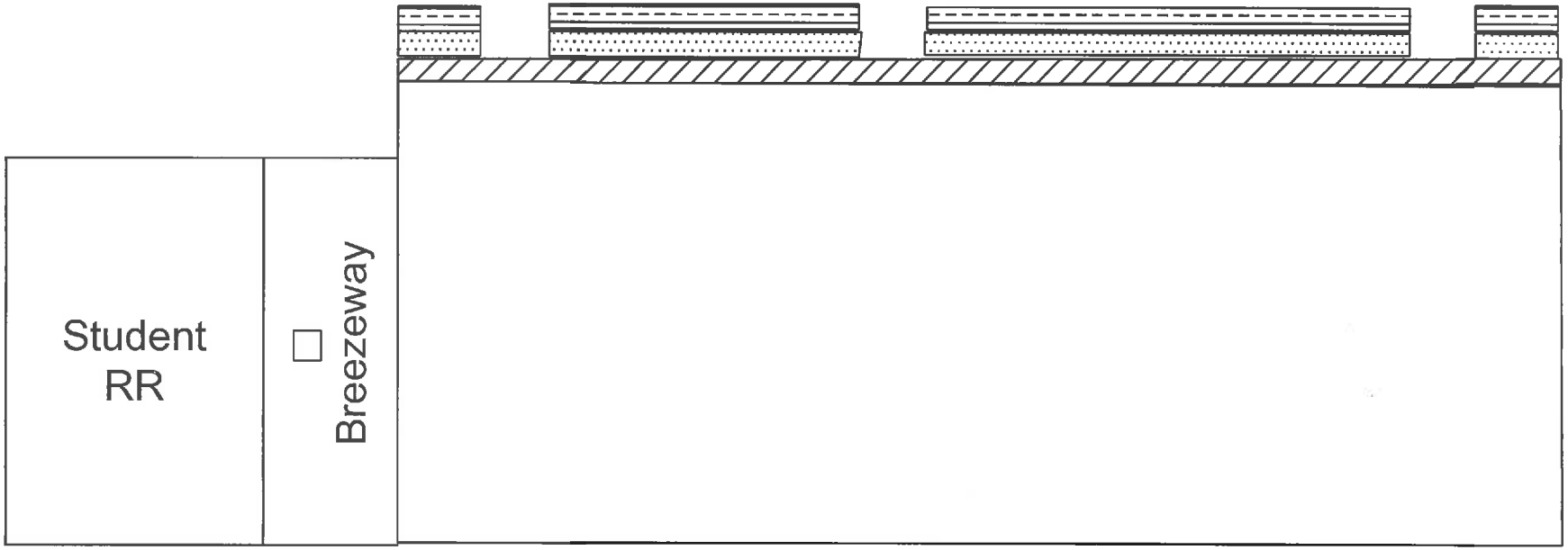
⊗ - Wood Double Door & Frame

▭ - Metal Door Vent



Client: Rosemead School District	**Project #:** 20-Z0046-0027	**Info:** Lead Based-Paint Identified
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Encinita Elementary School - Painting Project **Address:** 4515 Encinita Avenue Rosemead, California 91770

Classroom Building (E)
Room 7-10

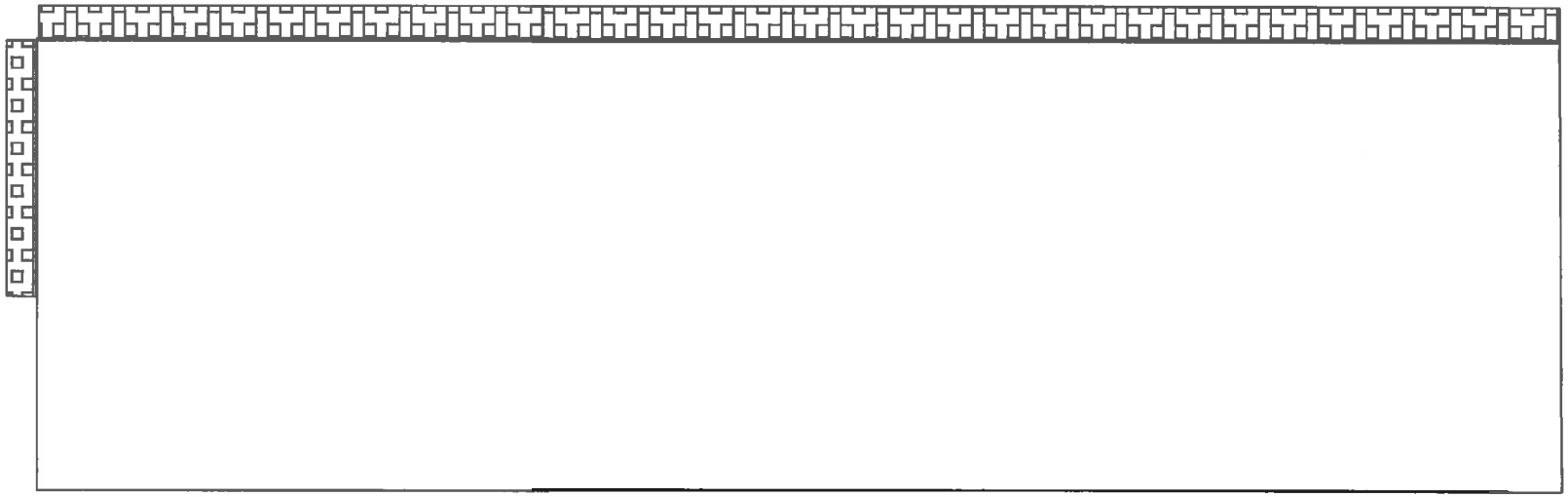


- Concrete Wall. Below Windows
- Wood Window Sill
- Wood Wall Header
- Metal Light Fixture Frame

N

Client: Rosemead School District	**Project #:** 20-Z0046-0027	**Info:** Lead Based-Paint Identified
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Encinita Elementary School - Painting Project **Address:** 4515 Encinita Avenue Rosemead, California 91770

Classroom Building (F)
Room 11-14

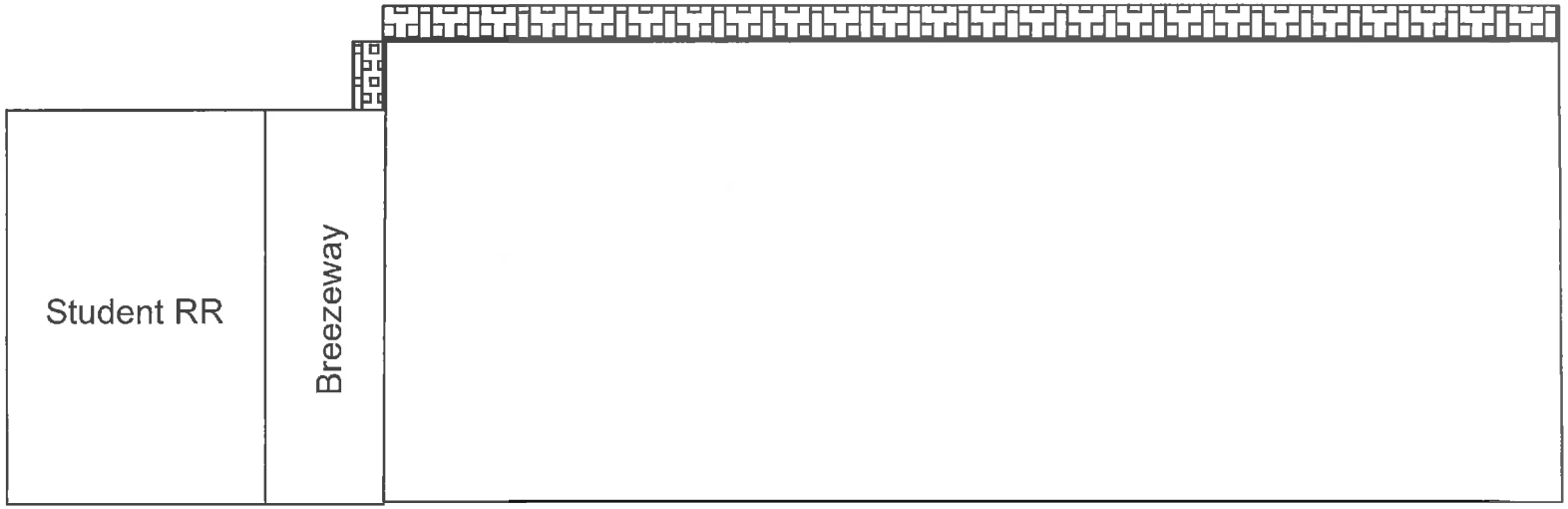


- Metal Drip Edge

N

Client: Rosemead School District	**Project #:** 20-Z0046-0027	**Info:** Lead-Based Paint Identified
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Encinita Elementary School - Painting Project **Address:** 4515 Encinita Avenue Rosemead, California 91770

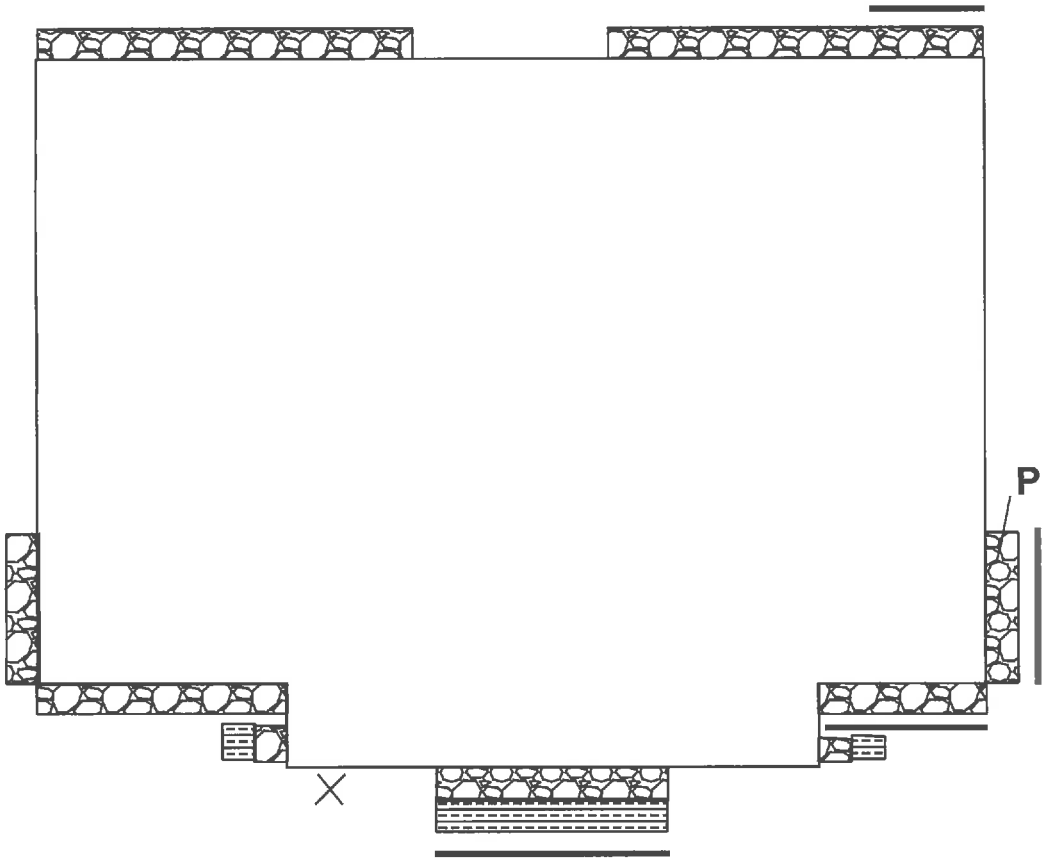
Classroom Building (G)
Room 15-18



- Metal Drip Edge

Client: Rosemead School District	**Project #:** 20-Z0046-0027	**Info:** Lead-Based Paint Identified
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Encinita Elementary School **Address:** 4515 Encinita Avenue Rosemead, California 91770

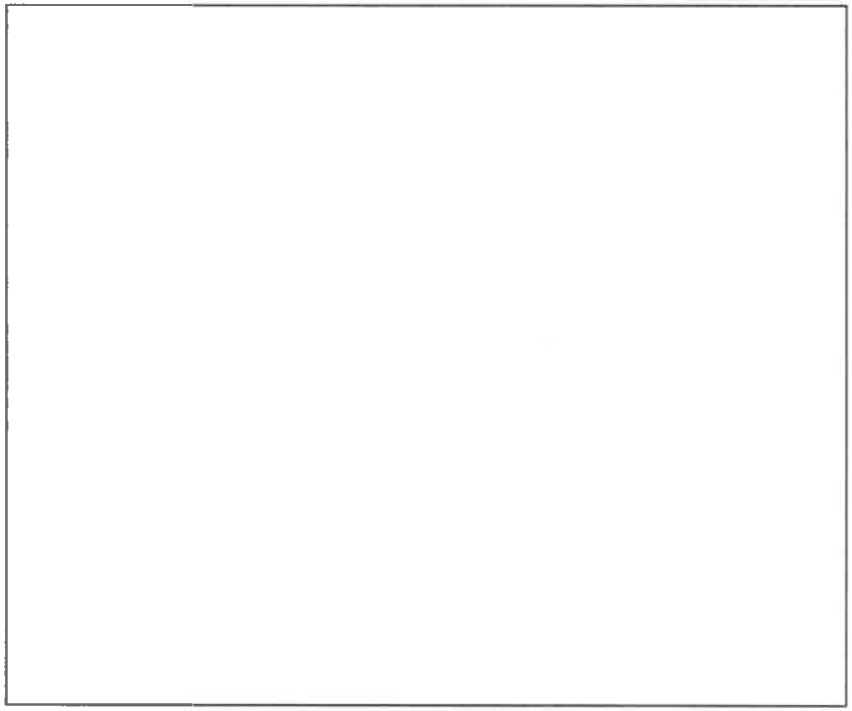
Classroom Building (H)
Room 19-20



- Wood Window Frame and Trim
- Concrete Foundation
- Metal Fire Extinguisher Case
- P - Wood Window Panel
- Wood Window Sill

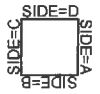
Client: Rosemead School District	**Project #:** 20-Z0046-0027	**Info:** Lead Based-Paint Identified
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Encinita Elementary School - Painting Project **Address:** 4515 Encinita Avenue Rosemead, California 91770

Staff Restroom



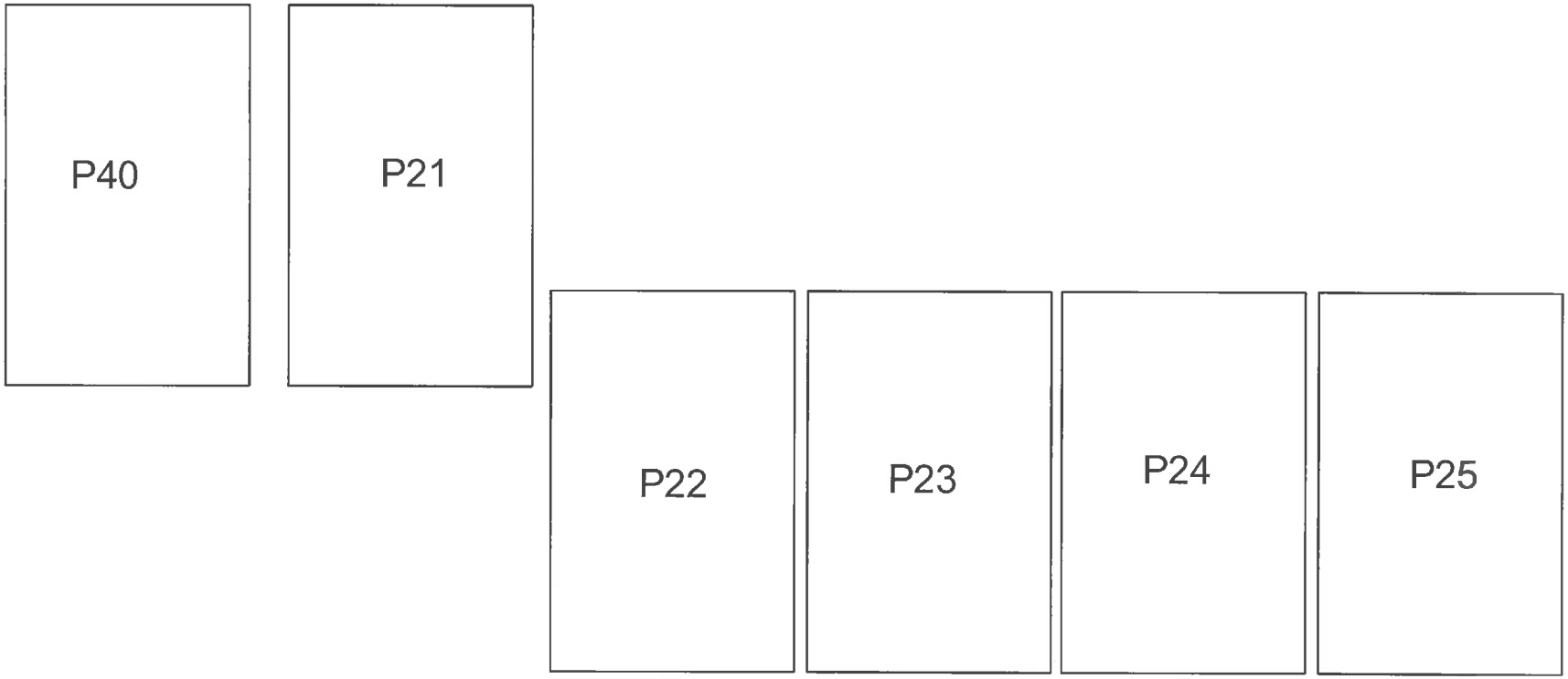
Client: Rosemead School District	**Project #:** 20-Z0046-0027	**Info:** No Lead-Based Paint Identified
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Encinita Elementary School - Painting Project **Address:** 4515 Encinita Avenue Rosemead, California 91770

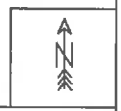
Portables



Client: Rosemead School District	**Project #:** 20-Z0046-0027	**Info:** No Lead-Based Paint Identified
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Encinita Elementary School - Painting Project **Address:** 4515 Encinita Avenue Rosemead, California 91770

Portables





Client: Rosemead School District

Project #: 20-Z0046-0027

Info: No Lead-Based Paint Identified

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Site: Encinita Elementary School - Painting Project
Address: 4515 Encinita Avenue
Rosemead, California 91770

APPENDIX C – LEAD HAZARD EVALUATION REPORT

State of California—Health and Human Services Agency | California Department of Public Health

LEAD HAZARD EVALUATION REPORT

Section 1 — Date of Lead Hazard Evaluation 2-5-2020 thru 2-11-2020

Section 2 — Type of Lead Hazard Evaluation (Check one box only)

☑ Lead Inspection ☐ Risk assessment ☐ Clearance Inspection ☐ Other (specify) _____

Section 3 — Structure Where Lead Hazard Evaluation Was Conducted

Address [number, street, apartment (if applicable)]	City	County	Zip Code
4515 Encinita Avenue	Rosemead	Los Angeles	91770

Construction date (year) of structure	Type of structure		Children living in structure?	
	☐ Multi-unit building	☑ School or daycare	☐ Yes	☑ No
	☐ Single family dwelling	☐ Other_____	☐ Don't Know	

Section 4 — Owner of Structure (if business/agency, list contact person)

Name	Telephone number
Rosemead SD (Harold Sullins)	(626) 312-2900

Address [number, street, apartment (if applicable)]	City	State	Zip Code
3907 Rosemead Blvd.	Rosemead	CA	91770

Section 5 — Results of Lead Hazard Evaluation (check all that apply)

☐ No lead-based paint detected ☑ Intact lead-based paint detected ☐ Deteriorated lead-based paint detected

☐ No lead hazards detected ☐ Lead-contaminated dust found ☐ Lead-contaminated soil found ☐ Other_____

Section 6 — Individual Conducting Lead Hazard Evaluation

Name	Telephone number
Timothy D Galeana	626-441-7050

Address [number, street, apartment (if applicable)]	City	State	Zip Code
310 E. Foothill Blvd. Ste 200	Arcadia	CA	91006

CDPH certification number	Signature	Date
0395		2-11-2020

Name and CDPH certification number of any other individuals conducting sampling or testing (if applicable)

Section 7 — Attachments

A. A foundation diagram or sketch of the structure indicating the specifc locations of each lead hazard or presence of lead-based paint;
B. Each testing method, device, and sampling procedure used;
C. All data collected, including quality control data, laboratory results, including laboratory name, address, and phone number.

First copy and attachments retained by inspector

Second copy and attachments retained by owner

Third copy only (no attachments) mailed or faxed to:

California Department of Public Health
Childhood Lead Poisoning Prevention Branch Reports
850 Marina Bay Parkway, Building P, Third Floor
Richmond, CA 94804-6403
Fax: (510) 620-5656

State of California—Health and Human Services Agency | California Department of Public Health

LEAD HAZARD EVALUATION REPORT

Section 1 — Date of Lead Hazard Evaluation 2-12-2020

Section 2 — Type of Lead Hazard Evaluation (Check one box only)

☑ Lead Inspection ☐ Risk assessment ☐ Clearance Inspection ☐ Other (specify) _____

Section 3 — Structure Where Lead Hazard Evaluation Was Conducted

Address [number, street, apartment (if applicable)]	City	County	Zip Code
4515 Encinita Avenue	Rosemead	Los Angeles	91770

Construction date (year) of structure	Type of structure	Children living in structure?
	☐ Multi-unit building ☑ School or daycare ☐ Single family dwelling ☐ Other_____	☐ Yes ☑ No ☐ Don't Know

Section 4 — Owner of Structure (if business/agency, list contact person)

Name	Telephone number
Rosemead SD (Harold Sullins)	(626) 312-2900

Address [number, street, apartment (if applicable)]	City	State	Zip Code
3907 Rosemead Blvd.	Rosemead	CA	91770

Section 5 — Results of Lead Hazard Evaluation (check all that apply)

☐ No lead-based paint detected ☑ Intact lead-based paint detected ☑ Deteriorated lead-based paint detected

☐ No lead hazards detected ☐ Lead-contaminated dust found ☐ Lead-contaminated soil found ☐ Other_____

Section 6 — Individual Conducting Lead Hazard Evaluation

Name	Telephone number
Rhys Kuzmic	626-441-7050

Address [number, street, apartment (if applicable)]	City	State	Zip Code
310 E. Foothill Blvd. Ste 200	Arcadia	CA	91006

CDPH certification number	Signature	Date
18093	Rhys Kuzmic	2-12-2020

Name and CDPH certification number of any other individuals conducting sampling or testing (if applicable)

Section 7 — Attachments

A. A foundation diagram or sketch of the structure indicating the specifc locations of each lead hazard or presence of lead-based paint;
B. Each testing method, device, and sampling procedure used;
C. All data collected, including quality control data, laboratory results, including laboratory name, address, and phone number.

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California Department of Public Health
Childhood Lead Poisoning Prevention Branch Reports
850 Marina Bay Parkway, Building P, Third Floor
Richmond, CA 94804-6403
Fax: (510) 620-5656

APPENDIX D – XRF PERFORMANCE CHARACTERISTICS SHEET

Performance Characteristic Sheet

EFFECTIVE DATE: **December 1, 2015**

MANUFACTURER AND MODEL:

Make: ***Heuresis***
Models: ***Model Pb200i***
Source: ***^{57}Co, 5 mCi (nominal – new source)***

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

Action Level mode

XRF CALIBRATION CHECK LIMITS:

0.8 to 1.2 mg/cm^2 (inclusive)

SUBSTRATE CORRECTION:

Not applicable

INCONCLUSIVE RANGE OR THRESHOLD:

ACTION LEVEL MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm^2)
Results not corrected for substrate bias on any substrate	Brick Concrete Drywall Metal Plaster Wood	1.0 1.0 1.0 1.0 1.0 1.0

BACKGROUND INFORMATION

EVALUATION DATA SOURCE AND DATE:

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated using test results on building components in the HUD archive. Testing was conducted on 146 test samples in November 2015, with two separate instruments running software version 2.1-2 in Action Level test mode. The actual source strength of each instrument on the day of testing was approximately 2.0 mCi; source ages were approximately one year.

OPERATING PARAMETERS

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

XRF CALIBRATION CHECK:

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm^2 in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm^2 film).

If the average (rounded to 1 decimal place) of three readings is outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instrument into control before XRF testing proceeds.

SUBSTRATE CORRECTION VALUE COMPUTATION:

Chapter 7 of the HUD Guidelines provides guidance on correcting XRF results for substrate bias. Supplemental guidance for using the paint film nearest 1.0 mg/cm^2 for substrate correction is provided:

XRF results are corrected for substrate bias by subtracting from each XRF result a correction value determined separately in each house for single-family housing or in each development for multifamily housing, for each substrate. The correction value is an average of XRF readings taken over the NIST SRM paint film nearest to 1.0 mg/cm^2 at test locations that have been scraped bare of their paint covering. Compute the correction values as follows:

> Using the same XRF instrument, take three readings on a bare substrate area covered with the NIST SRM paint film nearest 1 mg/cm^2. Repeat this procedure by taking three more readings on a second bare substrate area of the same substrate covered with the NIST SRM.
>
> Compute the correction value for each substrate type where XRF readings indicate substrate correction is needed by computing the average of all six readings as shown below.
>
> <u>For each substrate type</u> (the 1.02 mg/cm^2 NIST SRM is shown in this example; use the actual lead loading of the NIST SRM used for substrate correction):
>
> Correction value = (1st + 2nd + 3rd + 4th + 5th + 6th *Reading*)/6 - 1.02 mg/cm^2
>
> Repeat this procedure for each substrate requiring substrate correction in the house or housing development.

EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing.

Conduct XRF re-testing at the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below. Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family and multi-family housing, a result is defined as a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

Calculate the average of the original XRF result and the retest XRF result for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF readings.

Compute the average of all ten re-test XRF readings.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Retest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

TESTING TIMES:

In the Action Level paint test mode, the instrument takes the longest time to complete readings close to the Federal standard of 1.0 mg/cm^2. The table below shows the mean and standard deviation of actual reading times by reading level for paint samples during the November 2015 archive testing. The tested instruments reported readings to one decimal place. No significant differences in reading times by substrate were observed. These times apply only to instruments with the same source strength as those tested (2.0 mCi). Instruments with stronger sources will have shorter reading times and those with weaker sources, longer reading times, than those in the table.

Mean and Standard Deviation of Reading Times in Action Level Mode by Reading Level		
Reading (mg/cm^2)	**Mean Reading Time (seconds)**	**Standard Deviation (seconds)**
< 0.7	3.48	0.47
0.7	7.29	1.92
0.8	13.95	1.78
0.9 – 1.2	15.25	0.66
1.3 – 1.4	6.08	2.50
≥ 1.5	3.32	0.05

CLASSIFICATION OF RESULTS:

XRF results are classified as **positive** if they are **greater than or equal** to the stated threshold for the instrument (1.0 mg/cm^2), and *negative* if they are *less than* the threshold.

DOCUMENTATION:

A report titled *Methodology for XRF Performance Characteristic Sheets* (EPA 747-R-95-008) provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. The report may be downloaded at http://www2.epa.gov/lead/methodology-xrf-performance-characteristic-sheets-epa-747-r-95-008-september-1997.

This XRF Performance Characteristic Sheet (PCS) was developed by QuanTech, Inc., under a contract with the XRF manufacturer.