SURVEY FOR ASBESTOS AND LEAD IN PAINT, PCB LIGHT BALLAST AND MERCURY LIGHT TUBES

Building K Auditorium
John Adams Middle School
2425 16th Street
Santa Monica, CA 90405

Prepared for:

Santa Monica-Malibu Unified School District
1651 Sixteenth Street
Santa Monica, California 90404

Project No.: SMSD-17-7132
Date: January 19, 2018

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EXECUTIVE SUMMARY

On November 6 through November 8, 2017, Alta Environmental conducted a hazardous materials survey for the presence of asbestos, lead in paint, polychlorinated biphenyls (PCBs) in light ballasts and mercury containing fluorescence light tubes prior to demolition of Building K – Auditorium at John Adams Middle School located at 2425 16th Street in Santa Monica, California. Alta's previous inspection report dated March 29, 2010 was utilized when performing this survey. Our Cal/OSHA and California Department of Public Health (CDPH) Certified Professionals conducted the following activities:

- Initial investigation to locate suspect asbestos-containing materials (ACM), and lead-based paints impacted but upcoming HVAC work;
- Physical assessment of suspect ACM, painted surfaces;
- Collection of bulk samples from suspect ACM, painted surfaces;
- Direct readings of lead painted surfaces with an x-ray fluorescence spectrum analyzer; and
- Laboratory analysis of samples collected.

Asbestos-containing materials (ACMs) were detected in building areas affected by the project. Removal may be subject to regulation under USEPA *40 CFR 61, locally enforced by South Coast Air Quality Management District (SCAQMD) and* Cal/OSHA regulation (*Title 8 CCR Section 1529*).

Lead-based paints (LBPs) was detected on building areas affected by the project. Impacts to LBP when disturbed for construction purposes are subject to Cal/OSHA worker protection requirements such as but not limited to initial employee exposure monitoring, worker protection etc. Impacts to LBP may also be subject to California Department of Public Health requirements if results of worker exposure monitoring exceed the Cal/OSHA permissible exposure limit.

Lead-containing paints (LCP) were detected in building areas affected by the project. When disturbed for construction purposes, impacts may be subject to Cal/OSHA worker protection requirements such as but not limited to initial employee exposure monitoring, worker protection etc.

Light fixtures suspected to contain PCB light ballast and mercury containing light tubes were observed in the affected building.

Refer to section 5 in this report for a summary of findings

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Appendices

REPORTED: January 19, 2018 **PROJECT NO.:** SMSD-17-7132

CLIENT: Santa Monica-Malibu Unified School District
1651 Sixteenth Street
Santa Monica, California 90404

ATTENTION: Mr. Chris Emmett

REF: Asbestos and Lead Survey
Building K – Auditorium Demolition
John Adams Middle School
2425 16th Street
Santa Monica, CA 90405

1 INTRODUCTION

On November 6 through November 8, 2017, Alta Environmental conducted a hazardous materials survey for the presence of asbestos, lead in paint, polychlorinated biphenyls (PCBs) in light ballasts and mercury containing fluorescence light tubes prior to demolition of Building K – Auditorium at John Adams Middle School located at 2425 16th Street in Santa Monica, California.

2 PROJECT BACKGROUND

Santa Monica-Malibu Unified School District retained Alta Environmental for the limited survey. The survey was completed by Oscar Garcia, a Cal/OSHA Certified Site Surveillance Technician (CSST), and Fabian Ruvalcaba, a California Department of Public Health (CDPH) Certified Inspector/Assessor.

3 SCOPE OF WORK

Alta utilized previous surveys of the Site during this investigation. Where a material was found to have not been adequately sampled, additional samples were collected to fulfill regulatory requirements. The limited survey included the following:

- Initial investigation to locate suspect asbestos-containing materials (ACM), and lead-based paint affected by the upcoming HVAC project;
- Physical assessment of suspect ACM, painted surfaces;
- Collection of bulk samples from suspect ACM, painted surfaces;
- Direct readings of lead painted surfaces with an x-ray fluorescence spectrum analyzer; and
- Laboratory analysis of samples collected.

4 METHODOLOGY

4.1 Asbestos

Bulk samples of representative observed construction materials were collected. The sampling was conducted using guidelines set forth in *Federal Register 40 CFR Part 763*. Alta Environmental conducted an initial walkthrough of the Site to develop a listing and sampling scheme of suspect materials. Samples were placed in sealable sample containers and assigned a unique sample identification number.

Bulk samples collected from the Site were subsequently analyzed by polarized light microscopy (PLM) for asbestos content in accordance with the United States Environmental Protection Agency's (USEPA) *Determination of Asbestos in Bulk Building Materials: EPA/600/R-93/116, July 1993*, at AQ Environmental Laboratories located in Signal Hill, California. a laboratory accredited by the National Voluntary Laboratory Accreditation Program.

Based on the requirements of the USEPA as set forth in *40 CFR 763*, a homogeneous material is defined as "an area of surfacing material, thermal system insulation material or miscellaneous material that is uniform in color and texture." Furthermore, the regulation requires that a minimum number of samples be collected from each identified homogeneous material. If one sample in a homogeneous material is found to contain asbestos, the entire homogeneous material is considered to be asbestos-containing.

Caution is advised in interpreting results provided herein.

4.2 Lead

Representative painted surfaces were tested using a portable XRF spectrum analyzer of representative painted surfaces. The XRF used was the LPA-1, manufactured by Radiation Monitoring Devices (RMD) of Watertown, Massachusetts. XRF readings were taken by using the device "Quick" mode option. No time setting is required with this option since the device automatically adjusts its reading time to the different paint substrates for precision. The duration of each test result was determined by the substrate density in combination with the age of the radioactive source of the device and the actual reading relative to the abatement level (threshold) chosen. The testing includes a unique combination of room equivalent, building component type, and substrate.

An XRF Performance Characteristic Sheet (PCS) developed jointly by the U.S. Department of Housing and Urban Development (HUD) and the USEPA for the RMD LPA-1 was used. The PCS provides information necessary to conduct an inspection of LBP using a specific XRF device. Based on the PCS, no inconclusive readings in the "Quick" mode were encountered for LBP on brick, concrete, drywall, metal, plaster or wood substrates.

Field calibration checks were performed prior, during and after each XRF lead inspection to determine that the device was functioning within acceptable limits (tolerance) determined by the manufacturer. Three readings of a red 1.04 mg/cm² Standard Reference Material (SRM) paint film, developed by the National Institute of Standard and Technology (NIST), were taken in the "Time Corrected" mode option during each calibration check. Each set of readings was averaged and compared to the PCS calibration check limit for the device.

Please refer to Appendix F for documentation of the quality-control calibration checks.

4.3 PCB Light Ballast

We performed a visual inspection to locate light fixtures equipped with fluorescent light tubes which may contain suspect PCBs in light ballast.

4.4 Mercury Containing Light Tubes

We performed a visual inspection to locate light fixtures which are known to contain mercury light tubes.

Caution is advised in interpreting results provided herein.

5 RESULTS

5.1 Asbestos

Asbestos-containing materials (ACM) are those materials found to contain greater than one percent asbestos by weight as determined by the PLM method of analysis. These materials are subject to regulation under USEPA *40 CFR 61, local South Coast Air Quality Management District (SCAQMD).* These materials are also subject to Cal/OSHA regulation (*Title 8 CCR Section 1529*) when disturbed for construction purposes.

Asbestos-containing construction materials (ACCM) are those materials reported to contain less than one percent (<1%) by PLM or greater than one tenth of one percent (>0.1%) using a 1,000 point count analysis. ACCMs are subject to Cal-OSHA regulation when disturbed for construction purposes.

Summary of ACMs:

Material	Sample No.	Material Location	Asbestos Content	Est. Qty.
		Building K - Auditorium		
Window Putty	5743, 05, 06, 07	Exterior Windows	2% Chrysotile	160 ln. ft.
Transite Cement Pipe	NA	Room 25, ceiling space through roof	ASSUMED	10 ln. ft.

Material	Sample No.	Material Location	Asbestos Content	Est. Qty.
Acoustical Plaster (walls and ceilings)	JAK0601, JAK0602, JAK0603	Room 25, auditorium, auditorium NE exit, auditorium SE exit	7% Chrysotile	15,000 sq. ft.
HVAC Joint Sealant	22, 23, 24	Mezzanine HVAC ducts, throughout ceiling and attic spaces and crawlspaces	5% Chrysotile	60 ln. ft.

The results for all other materials sampled were reported as "none detected," based on the limitations of the analytical method. Please refer to Appendix A for a complete listing of materials sampled, locations, and material conditions.

5.2 Lead

Lead-based paint, according to, the State of California, HUD and the USEPA is defined as paint or other surface coating with lead content equal to or greater than 1.0 mg/cm^2 of surface area by XRF testing or 5,000 parts per million (ppm) by paint chip analysis. However, a more stringent level has been established by the Los Angeles County Department of Health Services, which defines "dangerous level of lead-bearing substances" as paint or other surface coating with lead content greater than 0.7 mg/cm^2 *(Los Angeles County Code, Title 11, Chapter 11.28, Section 11.28.010 C).*

Summary of LBP:

Sample #	Sampling method	Component	Material Location	Paint Color & Condition	Substrate	Lead (mg/cm^2/ PPM)
011	XRF	Gutter	Exterior	Green/Intact	Metal	1.9 mg/cm^2
008, 013, 055	XRF	Window Casing	Interior and Exterior Windows	White/Intact	Metal	7.1 mg/cm^2
009	XRF	Flashing	Exterior	Green/Intact	Metal	2.6 mg/cm^2
012	XRF	Downspout	Exterior	Green/Intact	Metal	1.5 mg/cm^2

Sample #	Sampling method	Component	Material Location	Paint Color & Condition	Substrate	Lead (mg/cm²/ PPM)
007	XRF	Door Casing	Interior and Exterior - Perimeter Entry and Exit Doors	Green/Intact	Wood	2.7 mg/cm²
006	XRF	Door	Interior and Exterior - Perimeter Entry and Exit Doors	Green/Intact	Wood	2.5 mg/cm²
021, 056	XRF	Baseboard	Lobby Boy's Restroom, Stage Girl's Restroom	Green/Intact	Ceramic	7.0 mg/cm²
029	XRF	Door	NW Stairway	White/Intact	Metal	0.8 mg/cm²
027	XRF	Door casing	Interior side of Perimeter Exit Doors	White/Intact	Wood	2.1 mg/cm²
026	XRF	Door	Interior side of Perimeter Exit Doors	White/Intact	Wood	2.2 mg/cm²
050	XRF	Door Casing	Stage - Large Door	White/Intact	Metal	> 9.9 mg/cm²
049	XRF	Door	Stage - Large Door	White/Intact	Metal	9.6 mg/cm²
025	XRF	Wall	Lobby	Blue/Intact	Ceramic	>9.9 mg/cm²
054	XRF	Platform	Stage Area	White/Intact	Wood	>9.9 mg/cm²

Lead-containing paints according to Cal/OSHA *Title 8 CCR, Section 1532.1(d)* are defined as paints reported with any detectable levels of lead by paint chip analysis. When disturbed for construction purposes, these surfaces are subject to Cal/OSHA exposure assessment requirements. Amongst other things, this regulation requires initial employee exposure monitoring to evaluate worker exposure during work tasks that disturbs paint with any detectable level of lead. If airborne lead levels are above the established Cal/OSHA action limit or permissible exposure limit, additional monitoring and respiratory protection are required.

Summary of LCP

- Wall-white-stucco
- Wall-plaster-white
- Door-wood-white
- Door case-wood-white
- Wall trim-wood-white
- Handrail-metal-white
- Door-wood-green
- Duct-metal-green
- Door-metal-green
- Wall vent-metal-black
- Wall-plaster-blue
- Wall trim-wood-blue
- Door-metal-black
- Wall-concrete-black
- Closet door-wood-white
- Handrail-metal-green
- Stair-wood-green
- Door-metal-green

Component results are summarized in Appendix E Lead-containing material inventory.

5.3 PCB Light Ballast

We observed light fixtures known to contain light ballasts which may contain PCBs.

5.4 Mercury containing light tubes

We observed light fixtures known to contain fluorescence light tubes which may contain mercury.

6 CONCLUSIONS AND RECOMMENDATIONS

This limited survey was conducted to identify accessible asbestos-containing materials and lead-based paints/components and was limited to the areas impacted by the upcoming Demolition project. The inspection included Building K - Auditorium. No other areas were included in the scope of work.

Alta recommends that during removal, or demolition, if suspect ACMs or lead materials are discovered, that the materials be assumed to contain asbestos and lead. The suspect ACM and lead materials should be properly characterized by a Cal-OSHA certified professional prior to disturbance or removal.

6.1 Asbestos-containing materials

Asbestos-containing materials have been identified at the Site. Refer to Section 5 in this report for a summary of ACMs.

Removal of ACMs should be conducted by a licensed asbestos abatement contractor utilizing isolation control methods and dispose of properly. Workers handling ACM shall be asbestos trained and shall wear the appropriate personal protective equipment. Removal shall be conducted in accordance with South Coast Air Quality Management District (SCAQMD) Procedures 1 and or 3 as necessary.

Damaged asbestos materials should be removed, repaired, encapsulated or enclosed. The USEPA (locally enforced by South Coast Air Quality Management District (SCAQMD) requires that all asbestos materials be removed prior to any renovation or demolition activities that may impact the material. The USEPA recommends that a proactive, in-place management program be put in place whenever asbestos is discovered in a building. Asbestos materials that are not damaged may be managed in place with a good operations and maintenance (O&M) program.

Material quantities included in this report are of observed material and provided as a best estimate for information only and shall not be used as a reliable quantity by any contractor for preparing removal bids. The contractor shall be solely responsible for assessing the type, extent, and quantity of material to be removed in each area of the project in preparing each project bid.

6.2 Lead-based paints

Lead-based paints have been identified in the Site. Refer to Section 5 in this report for a summary of LBP.

Impacts to LBP when disturbed for construction purposes are subject to Cal/OSHA worker protection requirements such as but not limited to initial employee exposure monitoring, worker protection etc. Impacts to LBP may also be subject to California Department of Public Health requirements if results of worker exposure monitoring exceed the Cal/OSHA permissible exposure limit.

An O&M program is also recommended for the identified LBP in good condition. An O&M program or interim control is a set of measures designed to temporarily reduce human exposure or possible exposure to LBP hazards. Such measures may include specialized cleaning, repairs, maintenance, painting, temporary containment and management and resident education programs. Visual monitoring conducted by owners and/or reevaluations by risk assessors are integral elements of an interim control. An initial evaluation of potential LBP hazard by a certified risk assessor is recommended for a successful implementation of the interim controls.

Abatement (e.g., stabilization) is recommended for damaged LBP, or if the condition of the materials noted as being in good condition should change. According to Federal regulations and guidelines, LBP abatement is the permanent (defined as designed to last at least 20 years or, in case of encapsulation, a 20-year product warranty) elimination of LBP hazards through replacement, enclosure, encapsulation, paint removal and cleaning to remove lead-contaminated dust.

Work activities impacting LBP pose a potential exposure risk for workers and/or building occupants. Workers trained in proper safety and respiratory techniques should perform renovation activities that may impact the LBP described in this report.

6.3 Lead-containing Paints

Lead-containing paints have been identified at the Site. Refer to Section 5 in this report for a summary of LCP.

Workers who disturb surfaces with lead-containing paint are subject to regulation under *Title 8 CCR, Section 1532.1 (d)*. These requirements include awareness training, monitoring to determine worker exposure. This regulation requires initial and on-going (if necessary) employee exposure monitoring to evaluate lead work exposure that disturbs paint with any detectable level of lead. Alta Environmental suggests that engineering controls, respiratory protection and personal protective equipment be employed at the start of any project that disturbs painted surfaces.

6.4 PCB Light Ballast

During demolition activities, the light fixture should be dismantled to expose the light ballast, the label on each ballast shall be inspected, if a label is missing or is not clearly labeled “No PCB” by the manufacturer, the ballast shall be assumed to contain PCBs. Ballast containing PCBs shall be segregated and packaged for proper disposal in accordance with all federal, state, and local regulations and guidelines.

6.5 Mercury Containing Light Tubes

All fluorescent light tubes should be removed, packaged and disposed in accordance with all federal, state, and local regulations and guidelines including CA Title 22 division 4.5 Chapter 11 Section 66261.50.

7 ASSUMPTIONS AND LIMITATIONS

This report was prepared exclusively for use by Santa Monica-Malibu Unified School District and may not be relied upon by any other person or entity without Alta Environmental’s express written permission. The information, conclusions and recommendations described in this report apply to conditions existing at certain locations when services were performed and are intended only for the specific purposes, locations, time frames and project parameters indicated. Alta Environmental cannot be responsible for the impact of any changes in environmental standards, practices or regulations after performance of services.

In performing our professional services, we have applied present engineering and scientific judgment and used a level of effort consistent with the current standard of practice for similar types of studies.

As applicable, Alta Environmental has relied in good faith upon representations and information furnished by individuals with respect to operations and existing property conditions, to the extent that they have not been contradicted by data obtained from other sources. Accordingly, Alta Environmental accepts no responsibility for any deficiencies, omissions, misrepresentations, or fraudulent acts of persons interviewed.

Alta Environmental will not accept any liability for loss, injury claim, or damage arising directly or indirectly from any use or reliance on this report. Alta Environmental makes no warranty, expressed or implied.

This report is issued with the understanding that the client, the property owner, or its representative is responsible for ensuring that the information, conclusions, and recommendations contained herein are brought to the attention of the appropriate regulatory agencies, as required.

Material quantities are in some cases listed within this document. These quantities are not intended to be used for removal bidding purposes. Nor is this document intended as a contract manual. Work methods and sequence, coordination of participants, applicable codes, engineering controls, required submittals and notifications should in all cases be addressed in a separate and independent bidding and contract document.

If you have any questions, please do not hesitate to contact the undersigned at (562) 495-5777. We appreciate the opportunity to be of service to Santa Monica-Malibu Unified School District.

8 SIGNATORY

Respectfully submitted by:

Alta Environmental

Jim Byers
Certified Asbestos Consultant
Cal/OSHA Cert. #06-4122
Lead Inspector/Assessor
CDPH Cert. #14805

Reviewed by

Cesar Ruvalcaba
Certified Asbestos Consultant
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Lead Inspector/Assessor, Project Monitor
CDPH Cert. #6855

Appendix A

Asbestos Field Bulk Sample List: Asbestos

MATERIAL INVENTORY
ASBESTOS SAMPLES

CLIENT: Santa Monica Malibu USD
PROJECT NO: SMSD-17-7132
PROJECT NAME: John Adams Middle School

Building K Auditorium

Material	Sample No.	Asbestos Content	Sample Location	Material Location	Approx. Qty.	Friable	Damage
Rough Plaster (Sand Plaster)	JAK0401	None Detected	Previously sampled, Cape environmental 1992	Stage hall, stage west, stage east, janitor closet 1, men's restroom, mezzanine, mezzanine stairs, projection room	6,000 sq. ft.	No	No
	JAK0402	None Detected	Previously sampled, Cape environmental 1992				
	5730	None Detected	Previously sampled by CTL environmental, 2007				
	5731	None Detected	Previously sampled by CTL environmental, 2007				
	5732	None Detected	Previously sampled by CTL environmental, 2007				
	01	None Detected	NE corner Janitor closet 1				
	02	None Detected	SW corner mezzanine				
Smooth Plaster	JAK0501	None Detected	Previously sampled, Cape environmental 1992	Room 25, restroom 1, restroom 2, auditorium, men's restroom, lobby	5,500 sq. ft.	No	No
	JAK0502	None Detected	Previously sampled, Cape environmental 1992				
	5733	None Detected	Previously sampled by CTL environmental, 2007				
	5734	None Detected	Previously sampled by CTL environmental, 2007				
	5735	None Detected	Previously sampled by CTL environmental, 2007				
	03	None Detected	Room 25 - NE				
	04	None Detected	Lobby - SW				

MATERIAL INVENTORY
ASBESTOS SAMPLES

CLIENT: Santa Monica Malibu USD
PROJECT NO: SMSD-17-7132
PROJECT NAME: John Adams Middle School

Building K Auditorium

Material	Sample No.	Asbestos Content	Sample Location	Material Location	Approx. Qty.	Friable	Damage
Stucco	JAK0801	None Detected	Previously sampled, Cape environmental 1992	Exterior Walls	10,000 sq. ft.	No	No
	5724	None Detected	Previously sampled by CTL environmental, 2007				
	5725	None Detected	Previously sampled by CTL environmental, 2007				
	5726	None Detected	Previously sampled by CTL environmental, 2007				
	5727	None Detected	Previously sampled by CTL environmental, 2007				
	5728	None Detected	Previously sampled by CTL environmental, 2007				
	5729	None Detected	Previously sampled by CTL environmental, 2007				
Window Putty	**5743**	**2% Chrysotile**	**Previously sampled by CTL environmental, 2007**	**Exterior Windows**	**160 ln. ft.**	**No**	**No**
	05	**0.28% (1000 point count analysis)**	**NW assembly/entry**				
	06	**0.38% (1000 point count analysis)**	**Ticket booth - exterior**				
	07	**0.46% (1000 point count analysis)**	**SW - hall**				
White Vibration Reducer (cloth type)	5742	None Detected	Previously sampled by CTL environmental, 2007	Mezzanine	10 sq. ft.	No	No
	08	None Detected	Mezzanine - north/center				
	09	None Detected	Mezzanine - SW corner				
Transite Cement Pipe	**NA**	**ASSUMED**	**NA**	**Room 25, ceiling space through roof**	**10 ln. ft.**	**No**	**No**

MATERIAL INVENTORY
ASBESTOS SAMPLES

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PROJECT NO: SMSD-17-7132
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Building K Auditorium

Material	Sample No.	Asbestos Content	Sample Location	Material Location	Approx. Qty.	Friable	Damage
Drywall	5739	None Detected	Previously sampled by CTL environmental, 2007	Stage east and west	300 sq. ft.	No	No
	10	None Detected	Stage east - NE corner				
	11	None Detected	Stage east - NW corner				
Drywall Composite	5740	None Detected	Previously sampled by CTL environmental, 2007			No	No
	12	None Detected	Stage east - NE corner				
	13	None Detected	Stage east - NW corner				
Drywall Joint Compound	5736	None Detected	Previously sampled by CTL environmental, 2007			No	No
	5737	None Detected	Previously sampled by CTL environmental, 2007				
	5738	None Detected	Previously sampled by CTL environmental, 2007				
12" x 12" Blue Vinyl Floor Tile & Glue	14	None Detected	Lobby - SE	Lobby, room 25	1,400 sq. ft.	No	No
	15	None Detected	Lobby - NW				
	16	None Detected	Room 25 - NE				
2" Grey Cove Base and Adhesive	5630	None Detected	Previously sampled by CTL environmental, 2007	Auditorium, auditorium NE and NE entry	200 ln. ft.	No	No
	17	None Detected	Auditorium - SE entry				
	18	None Detected	Auditorium entry - NE corner				
Grey Carpet w/Yellow Glue and Brown Cork Flooring and Black	19	None Detected	NW corner	Auditorium	1,200 sq. ft.	No	No
	20	None Detected	SW corner				
	21	None Detected	NE corner				

MATERIAL INVENTORY
ASBESTOS SAMPLES

CLIENT: Santa Monica Malibu USD
PROJECT NO: SMSD-17-7132
PROJECT NAME: John Adams Middle School

Building K Auditorium

Material	Sample No.	Asbestos Content	Sample Location	Material Location	Approx. Qty.	Friable	Damage
Acoustical Plaster (walls and ceilings)	**JAK0601**	**2% - 7% Chrysotile**	**Previously sampled, Cape environmental 1992**	**Room 25, auditorium, auditorium NE exit, auditorium SE exit**	**15,000 sq. ft.**	**Yes**	**No**
	JAK0602	**2% - 7% Chrysotile**	**Previously sampled, Cape environmental 1992**				
	JAK0603	**2% - 7% Chrysotile**	**Previously sampled, Cape environmental 1992**				
HVAC Joint Sealant	**22**	**5% Chrysotile**	**Mezzanine - SE corner**	**Mezzanine, HVAC ducts, throughout ceiling, attic and crawlspaces**	**60 ln. ft.**	**No**	**No**
	23	**5% Chrysotile**	**Mezzanine - SE**				
	24	**5% Chrysotile**	**Mezzanine - SE**				
1' x 1' Peghole Rows Ceiling Tile and Mastic (Straight Row)	JAK0301A	None Detected	Previously sampled, Cape environmental 1992	Room 25	2,000 sq. ft.	No	No
	JAK0301B	None Detected	Previously sampled, Cape environmental 1992				
1' x 1' Straight Rows Ceiling Tile and Mastic	25	None Detected	Room 25 West/center				
	26	None Detected	Room 25 East/center				
Barrier Paper	27	None Detected	Exterior NW	Exterior walls (under stucco)	10,000 sq. ft.	No	No
	28	None Detected	Exterior SW				
	29	None Detected	Exterior SE				
Blue Carpet Adhesive	30	None Detected	Room 25 NW	Room 25	2,000 sq. ft.	No	No
	31	None Detected	Room 25 NE				
	32	None Detected	Room 25 SE				
Wall Heater Insulation	33	None Detected	Room 25 NW	Room 25	8 sq. ft.	Yes	No
	34	None Detected	Room 25 NW				
	35	None Detected	Room 25 NE				

MATERIAL INVENTORY
ASBESTOS SAMPLES

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Building K Auditorium

Material	Sample No.	Asbestos Content	Sample Location	Material Location	Approx. Qty.	Friable	Damage
Plaster Debris	36	None Detected	Crawlspace NW	Crawlspace	200 sq. ft.	No	No
	37	None Detected	Crawlspace South/center				
	38	None Detected	Crawlspace Center				
Brown Duct Insulation (no glue - interior of duct)	39	None Detected	Mezzanine South - SW	Mezzanine Ducts, all ducting, attic, ceiling and crawlspaces	1,000 sq. ft.	Yes	No
	40	None Detected	Mezzanine - NE				
	41	None Detected	Mezzanine - NE				
12" x 12" Random Ceiling Tile and Mastic	5741	None Detected	Previously sampled by CTL environmental, 2007	Auditorium, room 25	200 sq. ft.	Yes	No
	42	None Detected	Auditorium - SW				
	43	None Detected	Auditorium - SE				
	44	None Detected	This is shown in the auditorium south/center Room 25 - South/center				
12" Pinhole Ceiling Tile and Mastic	45	None Detected	Auditorium SW	Auditorium	1,000 sq. ft.	No	No
	46	None Detected	Auditorium South/center				
	47	None Detected	Auditorium SE				

MATERIAL INVENTORY
ASBESTOS SAMPLES

CLIENT: Santa Monica Malibu USD
PROJECT NO: SMSD-17-7132
PROJECT NAME: John Adams Middle School

Building K - Roof

Material	Sample No.	Asbestos Content	Sample Location	Material Location	Approx. Qty.	Friable	Damage
Black Parapet Roofing	1108-01	None Detected	Upper roof - SW	Upper roof section	1,000 sq. ft.	No	No
	1108-02	None Detected	Upper roof - north/center				
	1108-03	None Detected	Upper roof - west/center				
Gravel Rolled on Roofing Core	1108-04	None Detected	Upper roof - NW corner		1,000 sq. ft.	No	No
	1108-05	None Detected	Upper roof - SW				
	1108-06	None Detected	Upper roof - SE				
Penetration Mastic	1108-07	None Detected	Upper roof - NW corner	Upper and lower roof sections	50 sq. ft.	No	No
	1108-08	None Detected	Lower roof 1 - SW corner				
	1108-09	None Detected	Lower roof 2 - SE corner				
Black Rolled on Roofing	1108-10	None Detected	Lower roof 1 - SW corner	Lower roof section	900 sq. ft.	No	No
	1108-11	None Detected	Lower roof 2 - NW				
	1108-12	None Detected	Lower roof 3 - NE				
Roof Walkway Pad	1108-13	None Detected	Lower roof 2 - north/center		100 sq. ft.	No	No

Appendix B

Laboratory Analytical Report: Asbestos

ENVIRONMENTAL LABORATORIES LLC

1508 East 33rd Street
Signal Hill, CA 90755
Toll: 888-207-2022
Tel: 562-206-2770
Fax: 562-206-2773

Alta Environmental
3777 Long Beach Blvd.
Long Beach CA 90807
Attn.: Cesar Ruvalcaba

Report Number 1729626

Project Number SMSD-17-7132
Project Name John Adams M.S.
Location Bldg K Auditorium
PO Number
WO Number

Date Received 11/30/2017
Date Analyzed 12/05/2017
Date Reported 12/05/2017

Date Sampled 11/30/2017
Sampled By Oscar Garcia
Total Samples 3

Method of Analysis 40 CFR Part 763 Appendix E to Subpart E, EPA Method 600/M4-82-020; updated method 600 R-93/116 Determination of Asbestos in Bulk Building Materials.

Test Report

Laboratory ID / Sample No.	Sample Location Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
1729626-001						
05	Window Putty, White/ Gray, Non-homogeneous	LAYER 1 100%	Acid Soluble Material Organic/Volatile Material Non-Asbestos Residue	78.62% 13.32% 7.78%	Chrysotile	0.28%
1000 pt. POINT COUNT						
	Asbestos Present Yes		Total % Non-Asbestos:	99.7%	**Total %Asbestos:**	**0.28%**
1729626-002						
06	Window Putty, White/ Gray, Non-homogeneous	LAYER 1 100%	Acid Soluble Material Organic/Volatile Material Non-Asbestos Residue	79.60% 10.99% 9.03%	Chrysotile	0.38%
1000 pt. POINT COUNT						
	Asbestos Present Yes		Total % Non-Asbestos:	99.6%	**Total %Asbestos:**	**0.38%**
1729626-003						
07	Window Putty, White/ Gray, Non-homogeneous	LAYER 1 100%	Acid Soluble Material Organic/Volatile Material Non-Asbestos Residue	74.05% 15.50% 9.99%	Chrysotile	0.46%
1000 pt. POINT COUNT						
	Asbestos Present Yes		Total % Non-Asbestos:	99.5%	**Total %Asbestos:**	**0.46%**

Note: EPA 400 point count extended to 1000 points to meet the Cal OSHA regulatory limit of 0.1%.

Method Detection Limit: One tenth of one percent (0.1%). Asbestos content has been determined using the point count method. Samples tested were received in acceptable condition unless otherwise stated. Test report relates only to items tested. Due to PLM limitations, results on samples with None Detected or samples with low asbestos concentrations may not be reliable and further analysis such as TEM is recommended to confirm PLM results. This report shall not be reproduced except in full without the written approval of this laboratory. This report may not be used by the customer to claim product certification, endorsement, or approval by NIST/NVLAP or any agency of the government. Samples shall be disposed according to local, state and federal laws, 30 days after results are reported.

Cristina E Tabatt
Analyst - Cristina Tabatt

Cristina E Tabatt
Approved Signatory Cristina E. Tabatt

NVLAP® Lab Code 500044-0

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Report Number 1729445

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Location Bldg K Auditorium
PO Number
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Test Report

Laboratory ID / Sample No.	Sample Location Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
1729445-001						
01	Rough Plaster, Lt. Green/Beige, Non-homogeneous	LAYER 1			None Detected	
		100%	Quartz	35%		
			Gypsum/Binder/Filler	65%		
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-002						
02	Rough Plaster, Lt. Green/Beige, Non-homogeneous	LAYER 1			None Detected	
		100%	Quartz	35%		
			Gypsum/Binder/Filler	65%		
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-003						
03	Smooth Plaster, Beige/ White, Non-homogeneous	LAYER 1			None Detected	
		100%	Quartz	30%		
			Calcium Carbonate	25%		
			Gypsum/Binder/Filler	45%		
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-004						
04	Smooth Plaster, Beige/ White, Non-homogeneous	LAYER 1			None Detected	
		100%	Quartz	30%		
			Calcium Carbonate	25%		
			Gypsum/Binder/Filler	45%		
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-005						
05	Window Putty, White/ Gray, Non-homogeneous	LAYER 1			Chrysotile	<1%
		100%	Calcium Carbonate	75%		
			Binder/Filler	25%		
	Asbestos Present Yes		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**<1%**
1729445-006						
06	Window Putty, White/ Gray, Non-homogeneous	LAYER 1			Chrysotile	<1%
		100%	Calcium Carbonate	75%		
			Binder/Filler	25%		
	Asbestos Present Yes		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**<1%**

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Test Report

Laboratory ID / Sample No.	Sample Location Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
1729445-007						
07	Window Putty, White/ Gray, Non-homogeneous	LAYER 1 100%	 Calcium Carbonate Binder/Filler	 75% 25%	Chrysotile	<1%
	Asbestos Present Yes		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**<1%**
1729445-008						
08	Vibration Reducer, White/ Black, Non-homogeneous	LAYER 1 100%	Fibrous Glass Cellulose Fiber Binder/Filler	35% 25% 40%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-009						
09	Vibration Reducer, White/ Black, Non-homogeneous	LAYER 1 100%	Fibrous Glass Cellulose Fiber Binder/Filler	35% 25% 40%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-010						
10	Drywall, White/ Brown, Non-homogeneous	LAYER 1 100%	Cellulose Fiber Fibrous Glass Gypsum/Binder/Filler	10% 1% 89%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-011						
11	Drywall, White/ Brown, Non-homogeneous	LAYER 1 100%	Cellulose Fiber Fibrous Glass Gypsum/Filler	10% 1% 89%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-012						
12	Drywall Composite, White/ Brown, Non-homogeneous	LAYER 1 100%	Cellulose Fiber Perlite Calcium Carbonate Gypsum/Binder/Filler	10% 5% 25% 60%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Test Report

Laboratory ID / Sample No.	Sample Location Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
1729445-013						
13	Drywall Composite, White/ Brown, Non-homogeneous	LAYER 1 100%	Cellulose Fiber Perlite Calcium Carbonate Gypsum/Binder/Filler	10% 5% 25% 60%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-014						
14A	12"x12" V.F.T., Blue, Homogeneous	LAYER 1 100%	Calcium Carbonate Vinyl Binder	65% 35%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-015						
14B	Glue, Yellow, Homogeneous	LAYER 1 100%	Organic Binders	100%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-016						
15A	12"x12" V.F.T., Blue, Homogeneous	LAYER 1 100%	Calcium Carbonate Vinyl Binder	65% 35%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-017						
15B	Glue w/ Leveling Compound, Yellow/Gray, Non-homogeneous	LAYER 1 100%	Cellulose Fiber Organic Binders Other Non-Fibrous Material	<1% 70% 30%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-018						
16A	12"x12" V.F.T., Blue, Homogeneous	LAYER 1 100%	Calcium Carbonate Vinyl Binder	65% 35%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Test Report

Laboratory ID / Sample No.	Sample Location Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
1729445-019						
16B	Glue w/ Leveling Compound, Yellow/Gray, Non-homogeneous	LAYER 1 100%	Organic Binders Other Non-Fibrous Material	80% 20%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-020						
17A	2" Covebase, Gray, Homogeneous	LAYER 1 100%	Calcium Carbonate Vinyl Binder	25% 75%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-021						
17B	Adhesive, White, Homogeneous	LAYER 1 100%	Organic Binders/Filler	100%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-022						
18A	2" Covebase, Gray, Homogeneous	LAYER 1 100%	Calcium Carbonate Vinyl Binder	25% 75%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-023						
18B	Adhesive, White, Homogeneous	LAYER 1 100%	Organic Binders/Filler	100%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-024						
19A	Carpet Glue, Yellow, Homogeneous Note: No carpet present	LAYER 1 100%	Synthetic Fiber Organic Binders/Filler	<1% 100%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Test Report

Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
1729445-025						
19B	Core Flooring, Brown, Homogeneous	LAYER 1			None Detected	
		100%	Cork-like Material	100%		
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-026						
19C	Barrier Paper, Black, Homogeneous	LAYER 1	Cellulose Fiber	58%	None Detected	
		100%	Synthetic Fiber	2%		
			Bituminous Matrix/Filler	40%		
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-027						
19D	Mastic, Dk. Brown, Homogeneous	LAYER 1			None Detected	
		100%	Organic Binders/Filler	100%		
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-028						
20A	Carpet Glue, Yellow, Homogeneous Note: No carpet present	LAYER 1	Cellulose Fiber	<1%	None Detected	
		100%	Synthetic Fiber	<1		
			Organic Binders/Filler	100%		
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-029						
20B	Core Floor, Brown, Homogeneous	LAYER 1			None Detected	
		100%	Cork-like Material	100%		
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-030						
20C	Barrier Paper, Black, Homogeneous	LAYER 1	Synthetic Fiber	<1%	None Detected	
		100%	Organic Binders/Filler	100%		
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Test Report

Laboratory ID / Sample No.	Sample Location Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
1729445-031						
20D	Mastic, Dk. Brown, Homogeneous	LAYER 1			None Detected	
		100%	Organic Binders/Filler	100%		
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-032						
21A	Carpet Glue, Yellow, Homogeneous Note: No carpet present	LAYER 1			None Detected	
		100%	Organic Binders/Filler	100%		
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-033						
21B	Core Floor, Brown, Homogeneous	LAYER 1			None Detected	
		100%	Cork-like Material	100%		
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-034						
21C	Barrier Paper, Black, Homogeneous	LAYER 1	Cellulose Fiber	58%	None Detected	
		100%	Synthetic Fiber	2%		
			Bituminous Matrix/Filler	40%		
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-035						
21D	Mastic, Dk. Brown, Homogeneous	LAYER 1			None Detected	
		100%	Organic Binders/Filler	100%		
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-036						
22	HVAC Joint Sealant, Dk. Brown, Homogeneous	LAYER 1			Chrysotile	5%
		100%	Organic Binders/Filler	95%		
	Asbestos Present Yes		Total % Non-Asbestos:	95.0%	**Total %Asbestos:**	**5.0%**
1729445-037						
23	HVAC Joint Sealant, Dk. Brown, Homogeneous	LAYER 1			Chrysotile	5%
		100%	Organic Binders/Filler	95%		
	Asbestos Present Yes		Total % Non-Asbestos:	95.0%	**Total %Asbestos:**	**5.0%**

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Test Report

Laboratory ID / Sample No.	Sample Location Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
1729445-038						
24	HVAC Joint Sealant, Dk. Brown, Homogeneous	LAYER 1 100%	 Organic Binders/Filler	 95%	Chrysotile	5%
	Asbestos Present Yes	Total % Non-Asbestos:		95.0%	**Total %Asbestos:**	**5.0%**
1729445-039						
25A	1'x1' Peghole Rows C.T., White/ Brown, Non-homogeneous	LAYER 1 100%	Wood Fiber Binder/Filler	90% 10%	None Detected	
	Asbestos Present No	Total % Non-Asbestos:		100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-040						
25B	Mastic, Dk. Brown, Homogeneous	LAYER 1 100%	 Organic Binders/Filler	 100%	None Detected	
	Asbestos Present No	Total % Non-Asbestos:		100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-041						
26A	1'x1' Peghole Rows C.T., White/ Brown, Non-homogeneous	LAYER 1 100%	Wood Fiber Binder/Filler	90% 10%	None Detected	
	Asbestos Present No	Total % Non-Asbestos:		100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-042						
26B	Mastic, Dk. Brown, Homogeneous	LAYER 1 100%	 Organic Binders/Filler	 100%	None Detected	
	Asbestos Present No	Total % Non-Asbestos:		100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-043						
27	Barrier Paper for Stucco, Brown/Black, Non-homogeneous	LAYER 1 100%	Cellulose Fiber Bituminous Matrix	50% 50%	None Detected	
	Asbestos Present No	Total % Non-Asbestos:		100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-044						
28	Barrier Paper for Stucco, Brown/Black, Non-homogeneous	LAYER 1 100%	Cellulose Fiber Bituminous Matrix	35% 65%	None Detected	
	Asbestos Present No	Total % Non-Asbestos:		100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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1729445-045						
29	Barrier Paper for Stucco, Brown/Black, Non-homogeneous	LAYER 1 100%	Cellulose Fiber Fibrous Glass Bituminous Matrix	50% 2% 48%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-046						
30	Blue Carpet Adhesive, Yellow, Homogeneous	LAYER 1 100%	Cellulose Fiber Organic Binders/Filler	<1% 100%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-047						
31	Blue Carpet Adhesive, Yellow, Homogeneous	LAYER 1 100%	Cellulose Fiber Organic Binders/Filler	<1% 100%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-048						
32	Blue Carpet Adhesive, Yellow, Homogeneous	LAYER 1 100%	Synthetic Fiber Organic Binders/Filler	<1% 100%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-049						
33	Wall Heater Insulation, Beige, Homogeneous	LAYER 1 100%	Cellulose Fiber Fibrous Glass Binder/Filler	50% 5% 45%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-050						
34	Wall Heater Insulation, Beige, Homogeneous	LAYER 1 100%	Cellulose Fiber Fibrous Glass Binder/Filler	50% 5% 45%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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1729445-051						
35	Wall Heater Insulation, Beige, Homogeneous	LAYER 1 100%	Cellulose Fiber Fibrous Glass Binder/Filler	50% 5% 45%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-052						
36	Plaster Debris, Beige/ White, Homogeneous	LAYER 1 100%	 Quartz Calcium Carbonate Binder/Filler	 5% 50% 45%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-053						
37	Plaster Debris, Beige/White/Gray, Non-homogeneous	LAYER 1 100%	Jute Fiber Quartz Calcium Carbonate Binder/Filler	<1% 40% 15% 45%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-054						
38	Plaster Debris, Beige/White/Gray, Non-homogeneous	LAYER 1 100%	Jute Fiber Quartz Calcium Carbonate Binder/Filler	<1% 40% 15% 45%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-055						
39	Duct Insulation, Dk. Brown, Homogeneous	LAYER 1 100%	Cellulose Fiber Mineral Wool Bituminous Matrix Other Non-Fibrous Material	10% 65% 15% 10%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Date Reported 11/20/2017

Date Sampled 11/07/2017
Sampled By Oscar Garcia
Total Samples 69

Method of Analysis 40 CFR Part 763 Appendix E to Subpart E, EPA Method 600/M4-82-020; updated method 600 R-93/116 Determination of Asbestos in Bulk Building Materials.

Test Report

Laboratory ID / Sample No.	Sample Location Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
1729445-056						
40	Duct Insulation, Dk. Brown, Homogeneous	LAYER 1 100%	Cellulose Fiber	10%	None Detected	
			Mineral Wool	65%		
			Bituminous Matrix	15%		
			Other Non-Fibrous Material	10%		
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-057						
41	Duct Insulation, Dk. Brown, Homogeneous	LAYER 1 100%	Cellulose Fiber	10%	None Detected	
			Mineral Wool	65%		
			Bituminous Matrix	15%		
			Other Non-Fibrous Material	10%		
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-058						
42A	12"x12" Random C.T., White/ Beige, Non-homogeneous	LAYER 1 100%	Cellulose Fiber	40%	None Detected	
			Mineral Wool	25%		
			Perlite	30%		
			Binder/Filler	5%		
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-059						
42B	Mastic, Lt. Brown, Homogeneous	LAYER 1 100%	Organic Binders/Filler	100%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-060						
43A	12"x12" Random C.T., White/ Beige, Non-homogeneous	LAYER 1 100%	Cellulose Fiber	40%	None Detected	
			Mineral Wool	25%		
			Perlite	30%		
			Binder/Filler	5%		
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Alta Environmental
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Long Beach CA 90807
Attn.: Cesar Ruvalcaba

Report Number 1729445

Project Number SMSD-17-7132
Project Name John Adams M.S.
Location Bldg K Auditorium
PO Number
WO Number

Date Received 11/08/2017
Date Analyzed 11/18/2017
Date Reported 11/20/2017

Date Sampled 11/07/2017
Sampled By Oscar Garcia
Total Samples 69

Method of Analysis 40 CFR Part 763 Appendix E to Subpart E, EPA Method 600/M4-82-020; updated method 600 R-93/116 Determination of Asbestos in Bulk Building Materials.

Test Report

Laboratory ID / Sample No.	Sample Location Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
1729445-061						
43B	Mastic, Lt. Brown, Homogeneous	LAYER 1 100%	Organic Binders/Filler	100%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-062						
44A	12"x12" Random C.T., White/ Beige, Non-homogeneous	LAYER 1 100%	Cellulose Fiber Mineral Wool Perlite Binder/Filler	40% 25% 30% 5%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-063						
44B	Mastic, Lt. Brown, Homogeneous	LAYER 1 100%	Organic Binders/Filler	100%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-064						
45A	12"x12" Pinhole C.T., White/ Beige, Non-homogeneous	LAYER 1 100%	Cellulose Fiber Mineral Wool Perlite Binder/Filler	40% 25% 30% 5%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-065						
45B	Mastic, Lt. Brown, Homogeneous	LAYER 1 100%	Organic Binders/Filler	100%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-066						
46A	12"x12" Pinhole C.T., White/ Beige, Non-homogeneous	LAYER 1 100%	Cellulose Fiber Mineral Wool Perlite Binder/Filler	40% 25% 30% 5%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Total Samples 69

Method of Analysis 40 CFR Part 763 Appendix E to Subpart E, EPA Method 600/M4-82-020; updated method 600 R-93/116 Determination of Asbestos in Bulk Building Materials.

Test Report

Laboratory ID / Sample No.	Sample Location Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
1729445-067						
46B	Mastic, Lt. Brown, Homogeneous	LAYER 1			None Detected	
		100%	Organic Binders/Filler	100%		
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-068						
47A	12"x12" Pinhole C.T., White/ Beige, Non-homogeneous	LAYER 1	Cellulose Fiber	40%	None Detected	
		100%	Mineral Wool	25%		
			Perlite	30%		
			Binder/Filler	5%		
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729445-069						
47B	Mastic, Lt. Brown, Homogeneous	LAYER 1			None Detected	
		100%	Organic Binders/Filler	100%		
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

Method Detection Limit: Less than one percent (<1%). Asbestos content has been determined using calibrated visual estimation (CVES). Samples tested were received in acceptable condition unless otherwise stated. Test report relates only to items tested. Due to PLM limitations, results on samples with None Detected or samples with low asbestos concentrations may not be reliable and further analysis such as TEM is recommended to confirm PLM results. This report shall not be reproduced except in full without the written approval of this laboratory. This report may not be used by the customer to claim product certification, endorsement, or approval by NIST/NVLAP or any agency of the government. Samples shall be disposed according to local, state and federal laws, 30 days after results are reported.

Cristina E Tabatt
Analyst - Cristina Tabatt

Cristina E Tabatt
Approved Signatory Cristina E. Tabatt

NVLAP®
Lab Code 500044-0

CHAIN OF CUSTODY

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(Lab) Order No. 1729445

CUSTOMER INFORMATION

Company	Alta Environmental
Address	3777 Long Beach Blvd., Annex Bldg.
City/State/Zip	Long Beach, Ca 90807
Contact	
Office Phone	562-495-5777
Cell	310-951-9486
Fax	562-495-5877
Email	

Turnaround Time		Shipped By		Report Send Via:	
Same Day	☐	Fedex	☐	Web	☐
1 Day	☐	UPS	☐	Email	☒
2 Day	☐	USPS	☐	Fax	☐
3 Day	☐	Drop Off	☒	Verbal	☐
5 Day	☒	Drop Box	☐	Mail	☐
Weekend	☐	Other	☐	Pick up	☐

Special Instructions:

PROJECT INFORMATION

Project Name:	John Adams M.S.	PO Number:	
Project Number:	5450-17-7132	Work Order No.:	
Location:	Bldg 12 Auditorium	Sampled By:	OSCAR GARCIA

PLM		PCM		MOLD		LEAD (Pb)			
PLM EPA 600/M4-82-020	☒	NIOSH 7400A	☐	Spore Trap	☐	Air	☐	TTLC	☐
PLM 400 Pt. Count (<0.25%)	☐	NIOSH 7400B	☐	Tape Lift	☐	Paint	☐		
PLM 1000 Pt. Count (<0.1%)	☐	w/ TWA	☐	Bulk Sample	☐	Wipe	☐		
				Swab	☐	Soil	☐		

SAMPLE ID	SAMPLE TYPE	LOCATION	Date Sampled	Start Time / Stop Time	Avg Flow Rate	Volume (L)
01	Rough plaster		11/7/17			
02	↓					
03	Smooth plaster					
04	↓					
05	Window putty					
06	↓					
07	↓					
08	white vibration reducer					
09	↓					
10	Drywall		↓			

Relinquished By: OSCAR GARCIA	Received By:
Date/Time: 11/7/17 2350	Date/Time: 11/8/17 08:00
Relinquished By:	Received By:
Date/Time:	Date/Time:

CHAIN OF CUSTODY

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services@AQenvlabs.com

Company:
Project Number:
Project Name:

(Lab) Order No. 1729445

SAMPLE ID	SAMPLE TYPE	LOCATION	Date Sampled	Start Time / Stop Time	Avg Flow Rate	Volume (L)
11	Drywall		11/7/17	-----------		
12	Drywall composite		↓	-----------		
13	↓			-----------		
14	12"x12" Blue V.F.T. & Glue			-----------		
15	↓			-----------		
16	↓			-----------		
17	2" Grey covebase w/ adhesive			-----------		
18	↓			-----------		
19	Grey carpet w/yellow Glue and brown core flooring			-----------		
20	and black paper			-----------		
21	↓			-----------		
22	HVAC Joint Sealant			-----------		
23	↓			-----------		
24	↓			-----------		
25	~~Barrier paper~~ 1'x1' Peghole rows ~~for Stucco~~ C.T. w/ mastic			-----------		
26	↓			-----------		
27	Barrier paper for Stucco			-----------		
28	↓			-----------		
29	↓			-----------		
30	Blue Carpet adhesive		↓	-----------		

Relinquished By: [signature] OSCAR GARCIA	Received By: [signature]
Date/Time: 11/7/17 2350	Date/Time: 11/8/17 08:00
Relinquished By:	Received By:
Date/Time:	Date/Time:

Lab Forms
Ver. 2016-06-27

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CHAIN OF CUSTODY

Company:

Project Number:

Project Name:

(Lab) Order No. 1729445

SAMPLE ID	SAMPLE TYPE	LOCATION	Date Sampled	Start Time / Stop Time	Avg Flow Rate	Volume (L)
31	Blue co-ret adhesive		11/2/17			
32	↓					
33	wall heate- Insulation					
34	↓					
35	↓					
36	Plate-debri					
37	↓					
38	↓					
39	Brow- duct Fus.					
40	↓					
41	↓					
42	12" X12" Rando- C. T. & mastic					
43						
44	↓					
45	12" X12" pi-hole C. T. & mastic					
46	↓					
47	↓		↓			

Relinquished By: OSCAR GARCIA-CORTEZ	Received By:
Date/Time: 11/7/17 2350	Date/Time: 11/8/17 08:00
Relinquished By:	Received By:
Date/Time:	Date/Time:

Lab Forms
Ver. 2016-06-27

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Alta Environmental
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Attn.: Cesar Ruvalcaba

Report Number 1729467

Project Number SMSD-17-7132
Project Name John Adams Middle School
Location
PO Number
WO Number

Date Received 11/09/2017
Date Analyzed 11/21/2017
Date Reported 11/21/2017

Date Sampled 11/03/2017
Sampled By
Total Samples 23

Method of Analysis 40 CFR Part 763 Appendix E to Subpart E, EPA Method 600/M4-82-020; updated method 600 R-93/116 Determination of Asbestos in Bulk Building Materials.

Test Report

Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
1729467-001	Auditorium Roof					
1108-01A	Parapet Roofing, Black, Non-homogeneous	LAYER 1 100%	Synthetic Fiber Binder/Filler	30% 70%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729467-002	Auditorium Roof					
1108-01B	Tar Layer, Black, Homogeneous	LAYER 1 100%	Bituminous Matrix/Filler	100%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729467-003	Auditorium Roof					
1108-02A	Parapet Roofing, Black, Non-homogeneous	LAYER 1 100%	Synthetic Fiber Binder/Filler	30% 70%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729467-004	Auditorium Roof					
1108-02B	Tar Layer, Black, Non-homogeneous	LAYER 1 100%	Bituminous Matrix/Filler	100%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729467-005	Auditorium Roof					
1108-03A	Parapet Roofing, Black, Non-homogeneous	LAYER 1 100%	Synthetic Fiber Binder/Filler	30% 70%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729467-006	Auditorium Roof					
1108-03B	Tar Layer, Black, Non-homogeneous	LAYER 1 100%	Bituminous Matrix/Filler	100%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Method of Analysis 40 CFR Part 763 Appendix E to Subpart E, EPA Method 600/M4-82-020; updated method 600 R-93/116 Determination of Asbestos in Bulk Building Materials.

Test Report

Laboratory ID / Sample No.	Sample Location Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
1729467-007	Auditorium Roof					
1108-04A	Gravel Rolled on Roofing Core, Gray/ Black, Non-homogeneous	LAYER 1	Fibrous Glass	15%	None Detected	
		100%	Quartz/Gravel	15%		
			Bituminous Matrix/Filler	70%		
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729467-008	Auditorium Roof					
1108-04B	Gravel Rolled on Roofing Core-Insulation, Brown, Non-homogeneous	LAYER 1	Wood Fiber	85%	None Detected	
		100%	Bituminous Matrix	5%		
			Binder/Filler	10%		
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729467-009	Auditorium Roof					
1108-05A	Gravel Rolled on Roofing Core, Gray/ Black, Non-homogeneous	LAYER 1	Fibrous Glass	15%	None Detected	
		100%	Quartz/Gravel	10%		
			Bituminous Matrix/Filler	75%		
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729467-010	Auditorium Roof					
1108-05B	Gravel Rolled on Roofing Core-Insulation, Brown, Homogeneous	LAYER 1	Wood Fiber	90%	None Detected	
		100%	Binder/Filler	10%		
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729467-011	Auditorium Roof					
1108-06A	Gravel Rolled on Roofing Core, Gray/ Black, Non-homogeneous	LAYER 1	Fibrous Glass	15%	None Detected	
		100%	Quartz/Gravel	15%		
			Bituminous Matrix/Filler	70%		
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729467-012	Auditorium Roof					
1108-06B	Gravel Rolled on Roofing Core-Insulation, Brown, Homogeneous	LAYER 1	Wood Fiber	90%	None Detected	
		100%	Binder/Filler	10%		
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Method of Analysis 40 CFR Part 763 Appendix E to Subpart E, EPA Method 600/M4-82-020; updated method 600 R-93/116 Determination of Asbestos in Bulk Building Materials.

Test Report

Laboratory ID / Sample No.	Sample Location Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
1729467-013	Auditorium Roof					
1108-07	Penetration Mastic, White/Black/Beige, Non-homogeneous	LAYER 1 100%	Bituminous Matrix Organic Binders/Filler	60% 40%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729467-014	Auditorium Roof					
1108-08	Penetration Mastic, White/Black/Beige, Non-homogeneous	LAYER 1 100%	Bituminous Matrix Organic Binders/Filler	55% 45%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729467-015	Auditorium Roof					
1108-09	Penetration Mastic, White/Black/Beige, Non-homogeneous	LAYER 1 100%	Bituminous Matrix Organic Binders/Filler	60% 40%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729467-016	Auditorium Roof					
1108-10A	Rolled on Roofing Core, White/Black, Non-homogeneous	LAYER 1 100%	Fibrous Glass Bituminous Matrix/Filler Binder/Filler	15% 75% 10%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729467-017	Auditorium Roof					
1108-10B	Rolled on Roofing Core- Roofing Paper, Pink, Homogeneous	LAYER 1 100%	Cellulose Fiber Binder/Filler	85% 15%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729467-018	Auditorium Roof					
1108-11A	Rolled on Roofing Core, White/Black, Non-homogeneous	LAYER 1 100%	Fibrous Glass Bituminous Matrix/Filler Binder/Filler	10% 80% 10%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Total Samples 23

Method of Analysis 40 CFR Part 763 Appendix E to Subpart E, EPA Method 600/M4-82-020; updated method 600 R-93/116 Determination of Asbestos in Bulk Building Materials.

Test Report

Laboratory ID / Sample No.	Sample Location Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
1729467-019	Auditorium Roof					
1108-11B	Rolled on Roofing Core- Felt (3 layers), Black, Non-homogeneous	LAYER 1 100%	Cellulose Fiber Bituminous Matrix	75% 25%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729467-020	Auditorium Roof					
1108-11C	Rolled on Roofing Core- Insulation, Brown, Homogeneous	LAYER 1 100%	Wood Fiber Binder/Filler	90% 10%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729467-021	Auditorium Roof					
1108-12A	Rolled on Roofing Core, White/Black, Non-homogeneous	LAYER 1 100%	Fibrous Glass Bituminous Matrix/Filler Binder/Filler	15% 75% 10%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729467-022	Auditorium Roof					
1108-12B	Rolled on Roofing Core- Roofing Paper, Pink/Brown, Non-homogeneous	LAYER 1 100%	Cellulose Fiber Binder/Filler	85% 15%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1729467-023	Auditorium Roof					
1108-13	Roof Walkway Pad, White/Black, Non-homogeneous	LAYER 1 100%	Fibrous Glass Quartz Bituminous Matrix/Filler Binder/Filler	15% 15% 65% 5%	None Detected	
	Asbestos Present No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Total Samples 23

Method of Analysis 40 CFR Part 763 Appendix E to Subpart E, EPA Method 600/M4-82-020; updated method 600 R-93/116 Determination of Asbestos in Bulk Building Materials.

Test Report

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)

Method Detection Limit: Less than one percent (<1%). Asbestos content has been determined using calibrated visual estimation (CVES). Samples tested were received in acceptable condition unless otherwise stated. Test report relates only to items tested. Due to PLM limitations, results on samples with None Detected or samples with low asbestos concentrations may not be reliable and further analysis such as TEM is recommended to confirm PLM results. This report shall not be reproduced except in full without the written approval of this laboratory. This report may not be used by the customer to claim product certification, endorsement, or approval by NIST/NVLAP or any agency of the government. Samples shall be disposed according to local, state and federal laws, 30 days after results are reported.

Cristina E Tabatt

Analyst - Cristina Tabatt

Cristina E Tabatt

Approved Signatory Cristina E. Tabatt

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Lab Code 500044-0

CHAIN OF CUSTODY

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(Lab) Order No. 1729467

CUSTOMER INFORMATION		Turnaround Time		Shipped By		Report Send Via:	
Company	Alta Environmental	Same Day	☐	Fedex	☐	Web	☐
Address	3777 Long Beach Boulevard	1 Day	☐	UPS	☐	Email	☐
City/State/Zip	Long Beach, CA 90807	2 Day	☐	USPS	☐	Fax	☐
Contact	Cesar Ruvalcaba	3 Day	–	Drop Off	☐	Verbal	☐
Office Phone	562/ 495-5777	5 Day	☑	Drop Box	☐	Mail	☐
Cell		Weekend	☐	Other	☐	Pick up	☐
Fax	562/ 495-5877	**Special Instructions:**					
Email							

PROJECT INFORMATION

Project Name:	John Adams Middle School	PO Number:	
Project Number:	SMSD-17-7132	Work Order No.:	
Location:		Sampled By:	

PLM		PCM		MOLD		LEAD (Pb)			
PLM EPA 600/R-93/116	☑	NIOSH 7400A	☐	Spore Trap	☐	Air	☐	TTLC	☐
PLM 400 Pt. Count (<0.25%)	☐	NIOSH 7400B	☐	Tape Lift	☐	Paint	☐	STLC	☐
PLM 1000 Pt. Count (<0.1%)	☐	w/ TWA	☐	Bulk Sample	☐	Wipe	☐	TCLP	☐
						Soil	☐		

SAMPLE ID	SAMPLE TYPE	LOCATION	Date Sampled	Start Time / Stop Time	Avg Flow Rate	Volume (L)
1108-01	Black parapet roofing	Auditorium roof	11/3/17			
1108-02	↓	↓	↓			
1108-03	↓	↓	↓			
1108-04	gravel rolled on roofing core	↓	↓			
1108-05	↓	↓	↓			
1108-06	↓	↓	↓			
1108-07	black/white penetration mastic	↓	↓			
1108-08	↓	↓	↓			
1108-09	↓	↓	↓			
1108-10	Black rolled on roofing core	↓	↓			

Relinquished By:	11/9/17 1500	Received By:	
Date/Time:		Date/Time:	11/9/17 15:00

Lab Forms
Ver. 082411

CHAIN OF CUSTODY

AQ ENVIRONMENTAL LABORATORIES
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Signal Hill, CA 90755
562-206-2770 Tel
562-206-2773 Fax
services@AQenvlabs.com

Company: ALTA
Project Number: SMSD-17-7132
Project Name: John Adams Middle School

(Lab) Order No. 1729467

SAMPLE ID	SAMPLE TYPE	LOCATION	Date Sampled	Start Time / Stop Time	Avg Flow Rate	Volume (L)
1108-11	Black rolled on roofing core	Auditorium roof	11/3/17			
1108-12	"	"	"			
1108-13	roof walkway pad	"	"			

Relinquished By: [signature] 11/9/17 1500	Received By: [signature]
Date/Time:	Date/Time: 11/9/17 15:00
Relinquished By:	Received By:
Date/Time:	Date/Time:

Lab Forms
Ver. 2016-06-27

ENVIRONMENTAL LABORATORIES LLC

1508 East 33rd Street
Signal Hill, CA 90755
Toll: 888-207-2022
Tel: 562-206-2770
Fax: 562-206-2773

Alta Environmental
3777 Long Beach Blvd.
Long Beach CA 90807
Attn.: Cesar Ruvalcaba

Report Number 1729626

Project Number SMSD-17-7132
Project Name John Adams M.S.
Location Bldg K Auditorium
PO Number
WO Number

Date Received 11/30/2017
Date Analyzed 12/05/2017
Date Reported 12/05/2017

Date Sampled 11/30/2017
Sampled By Oscar Garcia
Total Samples 3

Method of Analysis 40 CFR Part 763 Appendix E to Subpart E, EPA Method 600/M4-82-020; updated method 600 R-93/116 Determination of Asbestos in Bulk Building Materials.

Test Report

Laboratory ID / Sample No.	Sample Location Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
1729626-001						
05	Window Putty, White/ Gray, Non-homogeneous	LAYER 1 100%	Acid Soluble Material Organic/Volatile Material Non-Asbestos Residue	78.62% 13.32% 7.78%	Chrysotile	0.28%
1000 pt. POINT COUNT						
	Asbestos Present Yes		Total % Non-Asbestos:	99.7%	**Total %Asbestos:**	**0.28%**
1729626-002						
06	Window Putty, White/ Gray, Non-homogeneous	LAYER 1 100%	Acid Soluble Material Organic/Volatile Material Non-Asbestos Residue	79.60% 10.99% 9.03%	Chrysotile	0.38%
1000 pt. POINT COUNT						
	Asbestos Present Yes		Total % Non-Asbestos:	99.6%	**Total %Asbestos:**	**0.38%**
1729626-003						
07	Window Putty, White/ Gray, Non-homogeneous	LAYER 1 100%	Acid Soluble Material Organic/Volatile Material Non-Asbestos Residue	74.05% 15.50% 9.99%	Chrysotile	0.46%
1000 pt. POINT COUNT						
	Asbestos Present Yes		Total % Non-Asbestos:	99.5%	**Total %Asbestos:**	**0.46%**

Note: EPA 400 point count extended to 1000 points to meet the Cal OSHA regulatory limit of 0.1%.

Method Detection Limit: One tenth of one percent (0.1%). Asbestos content has been determined using the point count method. Samples tested were received in acceptable condition unless otherwise stated. Test report relates only to items tested. Due to PLM limitations, results on samples with None Detected or samples with low asbestos concentrations may not be reliable and further analysis such as TEM is recommended to confirm PLM results. This report shall not be reproduced except in full without the written approval of this laboratory. This report may not be used by the customer to claim product certification, endorsement, or approval by NIST/NVLAP or any agency of the government. Samples shall be disposed according to local, state and federal laws, 30 days after results are reported.

Cristina E Tabatt
Analyst - Cristina Tabatt

Cristina E Tabatt
Approved Signatory Cristina E. Tabatt

NVLAP® Lab Code 500044-0

Appendix C

Sample Location Map: Asbestos

ALTA ENVIRONMENTAL

Sheet 1 of 1

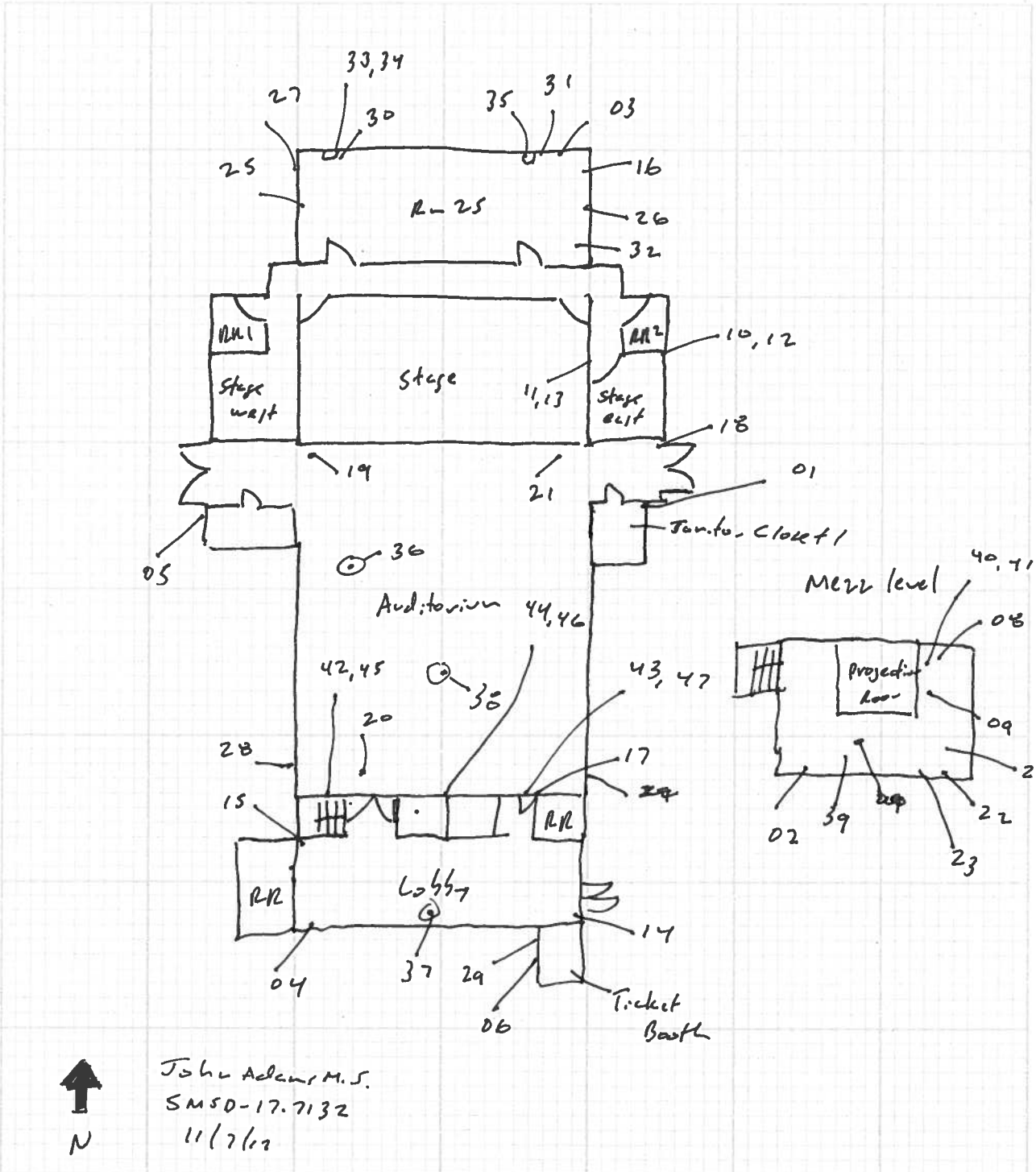
Project Name John Adams M.S.

Project No./Task No. SMSO-17.7132

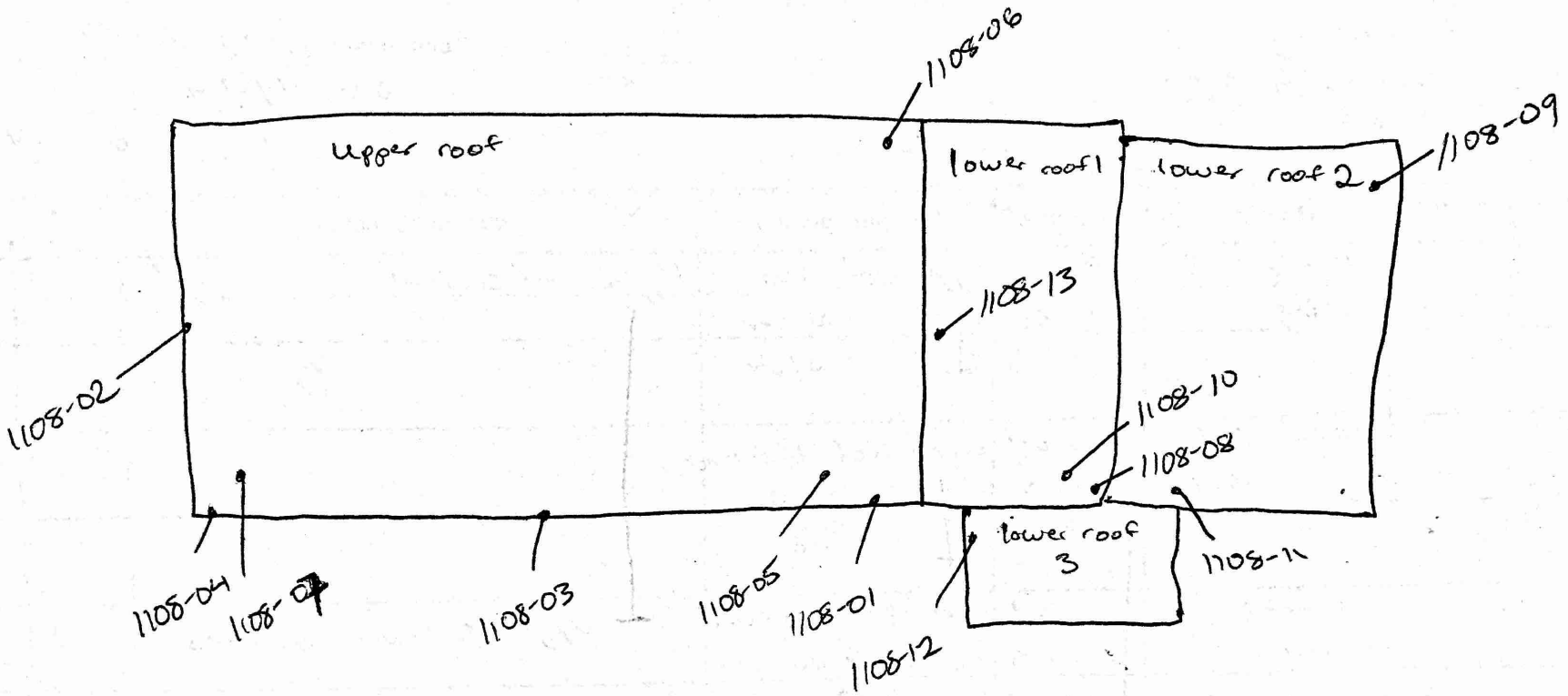
Calculated by — Date 11/7/17

Scale NONE

Checked by — Date —



JAMS roof


1108-06
Upper roof
lower roof 1
lower roof 2
1108-09
1108-13
1108-02
1108-10
1108-08
lower roof 3
1108-11
1108-04
1108-07
1108-03
1108-05
1108-01
1108-12
N

Appendix D

Lead-Based Material Inventories

MATERIAL INVENTORY
LEAD-BASED PAINT

CLIENT: SMMUSD
PROJECT NO: SMSD-17-7132
PROJECT NAME: John Adams Middle School - Auditorium

Component	Sample No.	Substrate	Paint Color	Material Location	Results (mg/cm^2)	Damage	Approx. Damage
Gutter	011	Metal	Green	Exterior	1.9 mg/cm^2	No	NA
Window Casing	008, 013, 055	Metal	White	Interior and Exterior Windows	7.1 mg/cm^2	No	NA
Flashing	009	Metal	Green	Exterior	2.6 mg/cm^2	No	NA
Downspout	012	Metal	Green	Exterior	1.5 mg/cm^2	No	NA
Door Casing	007	Wood	Green	Interior and Exterior - Permieter Entry and Exit Doors	2.7 mg/cm^2	No	NA
Door	006	Wood	Green		2.5 mg/cm^2	No	NA
Baseboard	021, 056	Ceramic	Green	Lobby Boy's Restroom, Stage Girl's Restroom	7.0 mg/cm^2	No	NA
Door	029	Metal	White	NW Stairway	0.8 mg/cm^2	No	NA
Door	027	Wood	White	Interior side of Perimeter Exit Doors	2.1 mg/cm^2	No	NA
Door Casing	026	Wood	White		2.2 mg/cm^2	No	NA
Door Casing	050	Metal	White	Stage - Large Door	> 9.9 mg/cm^2	No	NA
Door	049	Metal	White		> 9.6 mg/cm^2	No	NA
Wall	025	Ceramic	Blue	Lobby	> 9.9 mg/cm^2	No	NA
Platform	054	Wood	White	Stage Area	> 9.9 mg/cm^2	No	NA

Appendix E

Lead Containing Materials Inventory

MATERIAL INVENTORY
LEAD-CONTAINING PAINT

CLIENT: SMMUSD
PROJECT NO: SMSD-17-7132
PROJECT NAME: John Adams Middle School - Auditorium

Component	Sample No.	Substrate	Paint Color	Material Location	Results (mg/cm^2)	Damage	Approx. Damage
Wall	PC-1	Stucco	White	Exterior Walls	260 ppm	No	NA
Wall	PC-2	Plaster	White	Interior Walls and Ceilings	1,800 ppm	No	NA
Door	PC-3	Wood	White	Interior Doors	3,200 ppm	No	NA
Door Case	PC-4	Wood	White	Interior Casings	3500 ppm	No	NA
Wall Trim	PC-4A	Wood	White	Interior - Wall Trim and Baseboards	420 ppm	No	NA
Handrail	PC-5	Metal	White	NW Stair to Mezzanine	110 ppm	Yes	NA
Door	PC-6	Wood	Green	Interior Doors and Casings	4,300 ppm	No	NA
Duct	PC-7	Metal	Green	Mezzanine	2,900 ppm	No	NA
Door	PC-8	Metal	Green	Mezzanine Doors and Casings	1,600 ppm	No	NA
Wall Vent	PC-9	Metal	Black	Mezzanine	910 ppm	No	NA
Wall	PC-10	Plaster	Blue	Auditorium	87 ppm	No	NA
Wall Trim	PC-11	Wood	Blue	Auditorium	610 ppm	No	NA
Door	PC-12	Metal	Black	Stage - Door & Cases	990 ppm	No	NA
Floor	PC-13	Wood	Brown Varnish	Auditorium Stage, East Hallway	< 47 ppm	No	NA
Wall	PC-14	Concrete	Black	Stage	57 ppm	No	NA
Closet Door	PC-15	Wood	White	Classroom	1,700 ppm	No	NA
Handrail	PC-16	Metal	Green	Exterior	69 ppm	No	NA
Stair	PC-17	Wood	Green	NW Stairway	3,800 ppm	No	NA
Door	PC-18	Metal	Green	Exterior - Doors and Casings	47 ppm	No	NA
Door	PC-19	Metal	White	Interior - Doors and Casings	< 49 ppm	No	NA

Appendix F

Laboratory Analytical Data: Lead

ENVIRONMENTAL LABORATORIES

1508 East 33rd Street
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Fax (562) 206-2773

Alta Environmental
3777 Long Beach Boulevard
Long Beach, CA 90807
Attention: Cesar Ruvalcaba

Project Number: SMSD-17-7132
Project Name: JAMS
PO Number: SMSD-17-7132

Report Number: **1729446**

Date Received: 11/08/17
Date Analyzed: 11/09/17
Date Reported: 11/14/17

Date Sampled: 11/7/2017
Sampled By: Fabian Ruvalcaba
Total Samples: 20

Analytical Method: **EPA 7420/3050**
Reporting Limit: **5.0 µg**

Lead (Pb) in Paint by Flame AAS

Lab ID Client ID	Location/Description	Sample Weight (g)	Lead Concentration ppm (mg/kg)
1729446-001 PC-1	Wall Stucco White	0.1027	260
1729446-002 PC-2	Wall Plaster White	0.1021	1800
1729446-003 PC-3	Door Wood White	0.1024	3200
1729446-004 PC-4	Doorcase Wood White	0.1025	3500
1729446-005 PC-4A	Wall Trim Wood White	0.1032	420
1729446-006 PC-5	Handrail Metal White	0.1061	110
1729446-007 PC-6	Door Wood Green	0.1041	4300
1729446-008 PC-7	Duct Metal Silver	0.0718	2900
1729446-009 PC-8	Door Metal Green	0.1036	1600
1729446-010 PC-9	Wall Vent Metal Black	0.1044	910
1729446-011 PC-10	Wall Plaster Blue	0.1003	87
1729446-012 PC-11	Wall Trim Wood Blue	0.1030	610

ENVIRONMENTAL LABORATORIES

1508 East 33rd Street
Signal Hill, CA 90755
Tel (562) 206-2770
Fax (562) 206-2773

Report Number: **1729446**

Alta Environmental
3777 Long Beach Boulevard
Long Beach, CA 90807
Attention: Cesar Ruvalcaba

0 SMSD-17-7132
Project Number: JAMS
PO Number: SMSD-17-7132

Lead in Paint by Flame AAS

Lab ID Client ID	Location/Description	Sample Weight (g)	(% w/w)	Lead Concentration ppm (mg/kg)
1729446-013 PC-12	Door Metal Black	0.1054		990
1729446-014 PC-13	Floor Wood Brown Varnish	0.1058		< 47
1729446-015 PC-14	Wall Concete Black	0.1053		57
1729446-016 PC-15	Closet Door Wood White	0.1025		1700
1729446-017 PC-16	Handrail Metal Green	0.1046		69
1729446-018 PC-17	Stair Wood Green	0.1021		3800
1729446-019 PC-18	Door Metal Green	0.1066		47
1729446-020 PC-19	Door Metal White	0.1011		< 49

Samples tested were received in acceptable condition unless otherwise stated. Test report relates only to items tested. This report shall not be reproduced without the written approval of this laboratory. The client shall be solely responsible for interpreting analytical results. Samples have not been blank corrected. Samples shall be disposed according to local, state and federal laws, 30 days after reporting results.

CA ELAP Cert #2823

Approved Signatory- Cristina E. Tabatt

CHAIN OF CUSTODY

AQ ENVIRONMENTAL LABORATORIES
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Signal Hill, CA 90755
562-206-2770 Tel
562-206-2773 Fax
services@AQenvlabs.com

(Lab) Order No. 1729446

CUSTOMER INFORMATION		Turnaround Time	Shipped By	Report Send Via:
Company	Alta Environmental	Same Day ☐	Fedex ☐	Web ☐
Address	3777 Long Beach Boulevard	1 Day ☐	UPS ☐	Email ☐
City/State/Zip	Long Beach, CA 90807	2 Day ☐	USPS ☐	Fax ☐
Contact	C. Ruvalcaba	3 Day ☐	Drop Off ☐	Verbal ☐
Office Phone	562/ 495-5777	5 Day ☒	Drop Box ☐	Mail ☐
Cell		Weekend ☐	Other ☐	Pick up ☐
Fax	562/ 495-5877	**Special Instructions:**		
Email				

PROJECT INFORMATION

Project Name:	JAMS	PO Number:	SMSD-17-7132
Project Number:	SMSD-17-7132	Work Order No.:	
Location:		Sampled By:	Fabian Ruvalcaba

PLM		PCM		MOLD		LEAD (Pb)			
PLM EPA 600/R-93/116	☐	NIOSH 7400A	☐	Spore Trap	☐	Air	☐	TTLC	☐
PLM 400 Pt. Count (<0.25%)	☐	NIOSH 7400B	☐	Tape Lift	☐	Paint	☑	STLC	☐
PLM 1000 Pt. Count (<0.1%)	☐	w/ TWA	☐	Bulk Sample	☐	Wipe	☐	TCLP	☐
						Soil	☐		

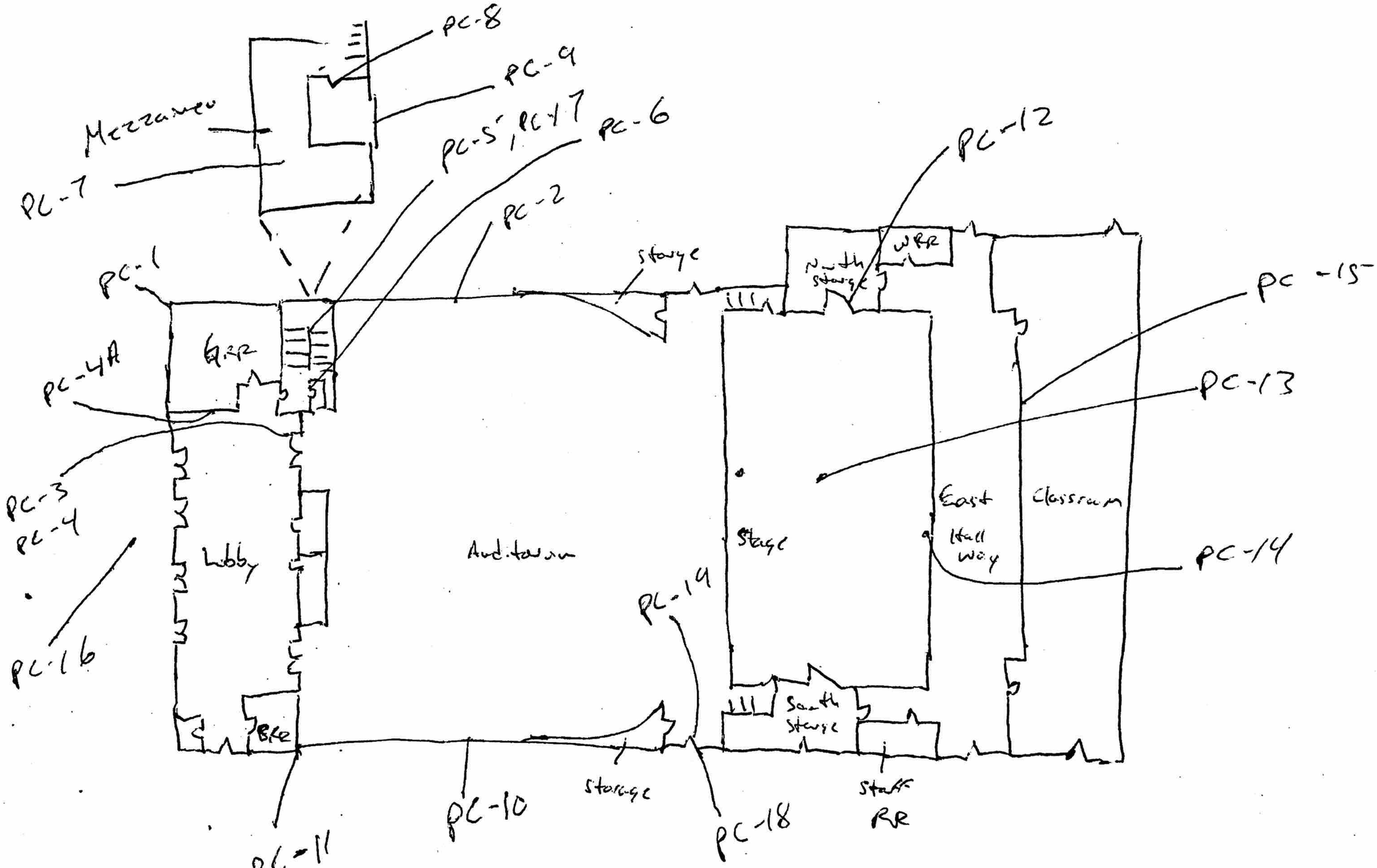
SAMPLE ID	SAMPLE TYPE	LOCATION	Date Sampled	Start Time / Stop Time	Avg Flow Rate	Volume (L)
PC-1	Wall Stucco White		11-7-17			
2	Wall Plaster White					
3	Door Wood White					
4	Door Case Wood White					
4A	Wall Trim Wood White					
5	Hand rail Metal White					
6	Door Wood Green					
7	Duct Metal Silver					
8	Door Metal Green					
9	Wall Vent Metal Black					
10	Wall Plaster Blue					
11	Wall Trim Wood Blue					
12	Door Metal Black					
13	Floor Wood Brown Varnish					
14	Wall Concrete Black					
15	Closet Door Wood White					
16	Hand rail Metal Green					
17	Stair Wood Green					
18	Door Metal Green					
19	Door Metal White					

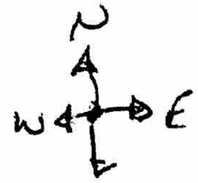
Relinquished By: Fabian Ruvalcaba	Received By:
Date/Time: 11-7-17	Date/Time: 11/8/17 08:00

Lab Forms
Ver. 082411

Appendix G

Sample Location Map: Lead


PC-8
PC-9
Mezzanine
PC-7
PC-5, PC-17
PC-6
PC-12
PC-2
PC-1
Storage
WRR
North Storage
PC-15
PC-4A
Elec RR
PC-13
PC-3
PC-4
East Hall Way
Classroom
Lobby
Auditorium
Stage
PC-14
PC-19
PC-16
Bike
South Storage
Storage
Staff RR
PC-10
PC-18
PC-11


N
W
E

Appendix H

XRF Lead Inspection, Instrument Calibration, and DHS 8552

ALTA ENVIRONMENTAL – XRF DATA FORM

11-6-17

Site: Exterior Jams **Unit:** 10 **Project #** _____

ROOM EQUIVALENT: Exterior **INSPECTOR:**

Number	Component	Wall	Location	Substrate	Condition	Color
4	Wall	A B C (D)	(L) R C	W DW P M C B (S) CE	P F (O)	White
5	Wall Handrail	A B C (D)	(L) R C	W DW P (M) C B S CE	P F (O)	Green
6	~~Wall~~ Pow	A B C (D)	L R (O)	(W) DW P M C B S CE	P F (O)	↓
7	~~Wall~~ & case	A B C (D)	L R (C)	(W) DW P M C B S CE	P F (O)	↓
8	Window-Lock	(A) B C D	L (R) C	W DW P (M) C B S CE	P F (O)	White
9	~~Baseboard~~ Flashing	(A) B C D	(L) R C	W DW P (M) C B S CE	P F (O)	Green
10	~~Door~~ Wall	(A) B C D	L R (C)	W DW P M C B (S) CE	P F (O)	White
11	~~Door casing~~ Gable	(A) B C D	(L) R C	W DW P (M) C B S CE	P F (O)	Green
12	Door jamb & Dowspt	(A) B C D	(L) R C	W DW P (M) C B S CE	P F (O)	↓
13	~~Ceiling~~ Window Case	A B C (D)	L R (C)	W DW P (M) C B S CE	P F (O)	White
	Window casing	A B C D	L R C	W DW P M C B S CE	P F I	
	Window sash	A B C D	L R C	W DW P M C B S CE	P F I	
	Cabinets	A B C D	L R C	W DW P M C B S CE	P F I	
		A B C D	L R C	W DW P M C B S CE	P F I	
		A B C D	L R C	W DW P M C B S CE	P F I	

Notes:

ROOM EQUIVALENT: Lobby

Number	Component	Wall	Location	Substrate	Condition	Color
14	Wall	A (B) C D	L (R) C	W DW (P) M C B S CE	P F (O)	White
15	~~Wall~~ Door Case	(A) B C D	(D) R C	(W) DW P M C B S CE	P F (O)	White
16	~~Wall~~ Wall Trim	A (B) C D	L R (C)	(W) DW P M C B S CE	P F (O)	White
17	Wall Baseband	A (B) C D	L R (C)	(W) DW P M C B S CE	P F (O)	↓
18	Door	A (B) C D	L R (C)	(W) DW P M C B S CE	P F (O)	↓
19	~~Baseboard~~ Case	A (B) C D	L R (C)	(W) DW P M C B S CE	P F (O)	
	Door	A B C D	L R C	W DW P M C B S CE	P F I	
	Door casing	A B C D	L R C	W DW P M C B S CE	P F I	
	Door jamb	A B C D	L R C	W DW P M C B S CE	P F I	
	Ceiling	A B C D	L R C	W DW P M C B S CE	P F I	
	Window casing	A B C D	L R C	W DW P M C B S CE	P F I	
	Window sash	A B C D	L R C	W DW P M C B S CE	P F I	
	Cabinets	A B C D	L R C	W DW P M C B S CE	P F I	
		A B C D	L R C	W DW P M C B S CE	P F I	
		A B C D	L R C	W DW P M C B S CE	P F I	

Notes:

ROOM EQUIVALENT: BRR

Number	Component	Wall	Location	Substrate	Condition	Color
20	Wall	(A) B C D	L (R) C	W DW (P) M C B S CE	P F (O)	White
21	~~Wall~~ Baseband	(A) B C D	L (R) C	W DW P M C B S (CE)	P F (O)	Green
22	Wall Floor	(A) B C D	L (R) C	W DW P M C B S (CE)	P F (O)	Green
23	~~Wall~~ Sink	(A) B C D	L R (C)	W DW P M C B S (CE)	P F (O)	White
24	Toilet	A B (C) D	(L) R C	W DW P M C B S (CE)	P F (O)	2
	Baseboard	A B C D	L R C	W DW P M C B S CE	P F I	
	Door	A B C D	L R C	W DW P M C B S CE	P F I	
	Door casing	A B C D	L R C	W DW P M C B S CE	P F I	
	Door jamb	A B C D	L R C	W DW P M C B S CE	P F I	
	Ceiling	A B C D	L R C	W DW P M C B S CE	P F I	
	Window casing	A B C D	L R C	W DW P M C B S CE	P F I	
	Window sash	A B C D	L R C	W DW P M C B S CE	P F I	
	Cabinets	A B C D	L R C	W DW P M C B S CE	P F I	
		A B C D	L R C	W DW P M C B S CE	P F I	
		A B C D	L R C	W DW P M C B S CE	P F I	

Notes:

W = Wood DW = Drywall P = Plaster M = Metal C = Concrete B = Brick S = Stucco CE = Ceramic

SIDE IDENTIFICATION: Sides B, C & D are identified clockwise from Side A; where Side A corresponds to: North side
Address side
Entrance to unit

ALTA ENVIRONMENTAL – XRF DATA FORM

4677

Site: JAMS Unit: 10 Project #

ROOM EQUIVALENT: Lobby INSPECTOR:

Number	Component	Wall	Location	Substrate	Condition	Color
25	Wall	(A) B C D	(L) R C	W DW P M C B S CE	P F (I)	Blue
26	~~Wall~~ Door	A B (C) D	L R (C)	W DW P M C B S CE	P F (I)	white
27	~~Wall~~ + case	A B (C) D	L R (C)	W DW P M C B S CE	P F (I)	+
	Wall	A B C D	L R C	W DW P M C B S CE	P F I	
		A B C D	L R C	W DW P M C B S CE	P F I	
	Baseboard	A B C D	L R C	W DW P M C B S CE	P F I	
	Door	A B C D	L R C	W DW P M C B S CE	P F I	
	Door casing	A B C D	L R C	W DW P M C B S CE	P F I	
	Door jamb	A B C D	L R C	W DW P M C B S CE	P F I	
	Ceiling	A B C D	L R C	W DW P M C B S CE	P F I	
	Window casing	A B C D	L R C	W DW P M C B S CE	P F I	
	Window sash	A B C D	L R C	W DW P M C B S CE	P F I	
	Cabinets	A B C D	L R C	W DW P M C B S CE	P F I	
		A B C D	L R C	W DW P M C B S CE	P F I	
		A B C D	L R C	W DW P M C B S CE	P F I	

Notes:

ROOM EQUIVALENT: N/W Stair Way

Number	Component	Wall	Location	Substrate	Condition	Color
28	~~Wall~~ Handrail	(A) B C D	(L) R C	W DW P ~~M~~ C B S CE	P F (I)	White
29	~~Wall~~ Door	A B C (D)	(L) R C	W DW P ~~M~~ C B S CE	P F (I)	+
30	~~Wall~~ + Case	A B C (D)	(L) R C	(W) DW P M C B S CE	P F (I)	Green
31	~~Wall~~ Stair	(A) B C D	L R (C)	(W) DW P M C B S CE	P F (I)	+
32	Door	A (B) C D	L (R) C	(W) DW P M C B S CE	P F (I)	+
33	~~Baseboard~~ Wall	(A) B C D	(L) R C	W DW (P) M C B S CE	P F (I)	White
	Door	A B C D	L R C	W DW P M C B S CE	P F I	
	Door casing	A B C D	L R C	W DW P M C B S CE	P F I	
	Door jamb	A B C D	L R C	W DW P M C B S CE	P F I	
	Ceiling	A B C D	L R C	W DW P M C B S CE	P F I	
	Window casing	A B C D	L R C	W DW P M C B S CE	P F I	
	Window sash	A B C D	L R C	W DW P M C B S CE	P F I	
	Cabinets	A B C D	L R C	W DW P M C B S CE	P F I	
		A B C D	L R C	W DW P M C B S CE	P F I	
		A B C D	L R C	W DW P M C B S CE	P F I	

Notes:

ROOM EQUIVALENT: Mezzanine

Number	Component	Wall	Location	Substrate	Condition	Color
34	~~Wall~~ Duct	(A) B C D	L R (C)	W DW P ~~M~~ C B S CE	P F (I)	Silver
35	~~Wall~~ Door	(A) B C D	L R (C)	W DW P (M) C B S CE	P F (I)	Green
36	~~Wall~~ + Case	(A) B C D	L R (C)	W DW P ~~M~~ C B S CE	P F (I)	+
37	~~Wall~~ Wall Vent	A (B) C D	L R (C)	W DW P (M) C B S CE	P F (I)	Black
38	Wall	(A) B C D	L R (C)	W DW (P) M C B S CE	P F (I)	White
	Baseboard	A B C D	L R C	W DW P M C B S CE	P F I	
	Door	A B C D	L R C	W DW P M C B S CE	P F I	
	Door casing	A B C D	L R C	W DW P M C B S CE	P F I	
	Door jamb	A B C D	L R C	W DW P M C B S CE	P F I	
	Ceiling	A B C D	L R C	W DW P M C B S CE	P F I	
	Window casing	A B C D	L R C	W DW P M C B S CE	P F I	
	Window sash	A B C D	L R C	W DW P M C B S CE	P F I	
	Cabinets	A B C D	L R C	W DW P M C B S CE	P F I	
		A B C D	L R C	W DW P M C B S CE	P F I	
		A B C D	L R C	W DW P M C B S CE	P F I	

Notes: Note: Bldg structure Made up of Wood Framing

W = Wood DW = Drywall P = Plaster M = Metal C = Concrete B = Brick S = Stucco CE = Ceramic

SIDE IDENTIFICATION: Sides B, C & D are identified clockwise from Side A; where Side A corresponds to: North side
Address side
Entrance to unit

ALTA ENVIRONMENTAL – XRF DATA FORM

4-6-17

Site: JAMS **Unit:** 10 **Project #**

ROOM EQUIVALENT: Lobby **INSPECTOR:**

Number	Component	Wall	Location	Substrate	Condition	Color
25	Wall	(A) B C D	(L) R C	W DW P M C B S CE	P F (I)	Blue
26	~~Wall~~ Door	A B (C) D	L R (C)	(W) DW P M C B S CE	P F (I)	White
27	~~Wall~~ ↓ case	A B (C) D	L R (C)	(W) DW P M C B S CE	P F (I)	↓
	Wall	A B C D	L R C	W DW P M C B S CE	P F I	
		A B C D	L R C	W DW P M C B S CE	P F I	
	Baseboard	A B C D	L R C	W DW P M C B S CE	P F I	
	Door	A B C D	L R C	W DW P M C B S CE	P F I	
	Door casing	A B C D	L R C	W DW P M C B S CE	P F I	
	Door jamb	A B C D	L R C	W DW P M C B S CE	P F I	
	Ceiling	A B C D	L R C	W DW P M C B S CE	P F I	
	Window casing	A B C D	L R C	W DW P M C B S CE	P F I	
	Window sash	A B C D	L R C	W DW P M C B S CE	P F I	
	Cabinets	A B C D	L R C	W DW P M C B S CE	P F I	
		A B C D	L R C	W DW P M C B S CE	P F I	
		A B C D	L R C	W DW P M C B S CE	P F I	

Notes:

ROOM EQUIVALENT: N/W Stair Way

Number	Component	Wall	Location	Substrate	Condition	Color
28	~~Wall~~ Handrail	(A) B C D	(L) R C	W DW P M C B S CE	P F (I)	White
29	~~Wall~~ Door	A B C (D)	L R (C)	W DW P M C B S CE	P F (I)	↓
30	~~Wall~~ & Case	A B C (D)	L R (C)	W DW P M C B S CE	P F (I)	Green
31	~~Wall~~ Stair	(A) B C D	L R (C)	W DW P M C B S CE	P F (I)	↓
32	Door	A (B) C D	L (R) C	W DW P M C B S CE	P F (I)	↓
33	~~Baseboard~~ Wall	(A) B C D	(L) R C	W DW P M C B S CE	P F (I)	White
	Door	A B C D	L R C	W DW P M C B S CE	P F I	
	Door casing	A B C D	L R C	W DW P M C B S CE	P F I	
	Door jamb	A B C D	L R C	W DW P M C B S CE	P F I	
	Ceiling	A B C D	L R C	W DW P M C B S CE	P F I	
	Window casing	A B C D	L R C	W DW P M C B S CE	P F I	
	Window sash	A B C D	L R C	W DW P M C B S CE	P F I	
	Cabinets	A B C D	L R C	W DW P M C B S CE	P F I	
		A B C D	L R C	W DW P M C B S CE	P F I	
		A B C D	L R C	W DW P M C B S CE	P F I	

Notes:

ROOM EQUIVALENT: Mezzanine

Number	Component	Wall	Location	Substrate	Condition	Color
34	~~Wall~~ Duct	(A) B C D	L R (C)	W DW P M C B S CE	P F (I)	Silver
35	~~Wall~~ Door	(A) B C D	L R (C)	W DW P (M) C B S CE	P F (I)	Green
36	~~Wall~~ & Case	(A) B C D	L R (C)	W DW P (M) C B S CE	P F (I)	↓
37	~~Wall~~ Wall Vent	A (B) C D	L R (C)	W DW P (M) C B S CE	P F (I)	Black
38	Wall	(A) B C D	L R (C)	W DW (P) M C B S CE	P F (I)	White
	Baseboard	A B C D	L R C	W DW P M C B S CE	P F I	
	Door	A B C D	L R C	W DW P M C B S CE	P F I	
	Door casing	A B C D	L R C	W DW P M C B S CE	P F I	
	Door jamb	A B C D	L R C	W DW P M C B S CE	P F I	
	Ceiling	A B C D	L R C	W DW P M C B S CE	P F I	
	Window casing	A B C D	L R C	W DW P M C B S CE	P F I	
	Window sash	A B C D	L R C	W DW P M C B S CE	P F I	
	Cabinets	A B C D	L R C	W DW P M C B S CE	P F I	
		A B C D	L R C	W DW P M C B S CE	P F I	
		A B C D	L R C	W DW P M C B S CE	P F I	

Notes: Note: Bldg structure made up of Wood framing

W = Wood DW = Drywall P = Plaster M = Metal C = Concrete B = Brick S = Stucco CE = Ceramic

SIDE IDENTIFICATION: Sides B, C & D are identified clockwise from Side A; where Side A corresponds to: North side
Address side
Entrance to unit

ALTA ENVIRONMENTAL – XRF DATA FORM

11-6-17

Site: JAMS **Unit:** 10 **Project #**

ROOM EQUIVALENT: Auditorium **INSPECTOR:**

Number	Component	Wall	Location	Substrate	Condition	Color
39	Wall	A B C D	L R C	W DW P M C B S CE	P F I	White
40	~~Wall~~ Door	A B C D	L R C	W DW P M C B S CE	P F I	"
41	~~Wall~~ + case	A B C D	L R C	W DW P M C B S CE	P F I	"
42	~~Wall~~ wall trim	A B C D	L R C	W DW P M C B S CE	P F I	Blue
43	wall	A B C D	L R C	W DW P M C B S CE	P F I	"
44	~~Baseboard~~ floor	A B C D	L R C	W DW P M C B S CE	P F I	Brown
45	~~Door~~ Ceiling	A B C D	L R C	W DW P M C B S CE	P F I	White
	Door casing	A B C D	L R C	W DW P M C B S CE	P F I	
	Door jamb	A B C D	L R C	W DW P M C B S CE	P F I	
	Ceiling	A B C D	L R C	W DW P M C B S CE	P F I	
	Window casing	A B C D	L R C	W DW P M C B S CE	P F I	
	Window sash	A B C D	L R C	W DW P M C B S CE	P F I	
	Cabinets	A B C D	L R C	W DW P M C B S CE	P F I	
		A B C D	L R C	W DW P M C B S CE	P F I	
		A B C D	L R C	W DW P M C B S CE	P F I	

Notes:

ROOM EQUIVALENT: Stage

Number	Component	Wall	Location	Substrate	Condition	Color
46	~~Wall~~ Door	A B C D	L R C	W DW P M C B S CE	P F I	Black
47	~~Wall~~ + Case	A B C D	L R C	W DW P M C B S CE	P F I	"
48	~~Wall~~ floor	A B C D	L R C	W DW P M C B S CE	P F I	Brown
49	~~Wall~~ Door (hatch)	A B C D	L R C	W DW P M C B S CE	P F I	White
50	+ Case	A B C D	L R C	W DW P M C B S CE	P F I	"
51	~~Baseboard~~ Wall	A B C D	L R C	W DW P M C B S CE	P F I	Black
52	~~Door~~ Wall	A B C D	L R C	W DW P M C B S CE	P F I	"
53	~~Door casing~~ Wall	A B C D	L R C	W DW P M C B S CE	P F I	White
54	~~Door jamb~~ Platform	A B C D	L R C	W DW P M C B S CE	P F I	White
	Ceiling	A B C D	L R C	W DW P M C B S CE	P F I	
	Window casing	A B C D	L R C	W DW P M C B S CE	P F I	
	Window sash	A B C D	L R C	W DW P M C B S CE	P F I	
	Cabinets	A B C D	L R C	W DW P M C B S CE	P F I	
		A B C D	L R C	W DW P M C B S CE	P F I	
		A B C D	L R C	W DW P M C B S CE	P F I	

Notes:

ROOM EQUIVALENT: Stage WR

Number	Component	Wall	Location	Substrate	Condition	Color
55	~~Wall~~ Window Cap	A B C D	L R C	W DW P M C B S CE	P F I	White
56	~~Wall~~ Baseboard	A B C D	L R C	W DW P M C B S CE	P F I	Green
57	~~Wall~~ Floor	A B C D	L R C	W DW P M C B S CE	P F I	"
58	~~Wall~~ Door	A B C D	L R C	W DW P M C B S CE	P F I	White
59	+ Case	A B C D	L R C	W DW P M C B S CE	P F I	"
60	~~Baseboard~~ Door	A B C D	L R C	W DW P M C B S CE	P F I	White
61	~~Door~~ Sink	A B C D	L R C	W DW P M C B S CE	P F I	"
62	~~Door casing~~ Toilet	A B C D	L R C	W DW P M C B S CE	P F I	"
	Door jamb	A B C D	L R C	W DW P M C B S CE	P F I	
	Ceiling	A B C D	L R C	W DW P M C B S CE	P F I	
	Window casing	A B C D	L R C	W DW P M C B S CE	P F I	
	Window sash	A B C D	L R C	W DW P M C B S CE	P F I	
	Cabinets	A B C D	L R C	W DW P M C B S CE	P F I	
		A B C D	L R C	W DW P M C B S CE	P F I	
		A B C D	L R C	W DW P M C B S CE	P F I	

Notes:

W = Wood DW = Drywall P = Plaster M = Metal C = Concrete B = Brick S = Stucco CE = Ceramic

SIDE IDENTIFICATION: Sides B, C & D are identified clockwise from Side A; where Side A corresponds to: North side
Address side
Entrance to unit

ALTA ENVIRONMENTAL – XRF DATA FORM

11-677

Site: JFMS **Unit:** 10 **Project #**

ROOM EQUIVALENT: Classroom **INSPECTOR:**

Number	Component	Wall	Location	Substrate	Condition	Color
63	Wall	(A) B C D	L R (C)	W DW (P) M C B S CE	P F (I)	White
64	~~Wall~~ Closet	A B C (D)	L (R) C	(W) DW P M C B S CE	P F (I)	White
65	~~Wall~~ Window Ledge	A (B) C (D)	L R (C)	(W) DW P M C B S CE	P F (I)	"
66	Wall Trim	A B (C) D	L R (C)	(W) DW P M C B S CE	P F (I)	"
67	Backend	A B (C) D	L R (C)	(W) DW P M C B S CE	P F (I)	"
	Baseboard	A B C D	L R C	W DW P M C B S CE	P F I	
	Door	A B C D	L R C	W DW P M C B S CE	P F I	
	Door casing	A B C D	L R C	W DW P M C B S CE	P F I	
	Door jamb	A B C D	L R C	W DW P M C B S CE	P F I	
	Ceiling	A B C D	L R C	W DW P M C B S CE	P F I	
	Window casing	A B C D	L R C	W DW P M C B S CE	P F I	
	Window sash	A B C D	L R C	W DW P M C B S CE	P F I	
	Cabinets	A B C D	L R C	W DW P M C B S CE	P F I	
		A B C D	L R C	W DW P M C B S CE	P F I	
		A B C D	L R C	W DW P M C B S CE	P F I	

Notes:

ROOM EQUIVALENT: Staff RR

Number	Component	Wall	Location	Substrate	Condition	Color
68	Wall	(A) B C D	L R (C)	W DW P M C B S (CE)	P F (I)	Gray
69	~~Wall~~ Floor	A B (C) D	L R (C)	W DW P M C B S (CE)	P F (I)	"
	Wall	A B C D	L R C	W DW P M C B S CE	P F I	
	Wall	A B C D	L R C	W DW P M C B S CE	P F I	
		A B C D	L R C	W DW P M C B S CE	P F I	
	Baseboard	A B C D	L R C	W DW P M C B S CE	P F I	
	Door	A B C D	L R C	W DW P M C B S CE	P F I	
	Door casing	A B C D	L R C	W DW P M C B S CE	P F I	
	Door jamb	A B C D	L R C	W DW P M C B S CE	P F I	
	Ceiling	A B C D	L R C	W DW P M C B S CE	P F I	
	Window casing	A B C D	L R C	W DW P M C B S CE	P F I	
	Window sash	A B C D	L R C	W DW P M C B S CE	P F I	
	Cabinets	A B C D	L R C	W DW P M C B S CE	P F I	
		A B C D	L R C	W DW P M C B S CE	P F I	
		A B C D	L R C	W DW P M C B S CE	P F I	

Notes:

ROOM EQUIVALENT:

Number	Component	Wall	Location	Substrate	Condition	Color
	Wall	A B C D	L R C	W DW P M C B S CE	P F I	
	Wall	A B C D	L R C	W DW P M C B S CE	P F I	
	Wall	A B C D	L R C	W DW P M C B S CE	P F I	
	Wall	A B C D	L R C	W DW P M C B S CE	P F I	
		A B C D	L R C	W DW P M C B S CE	P F I	
	Baseboard	A B C D	L R C	W DW P M C B S CE	P F I	
	Door	A B C D	L R C	W DW P M C B S CE	P F I	
	Door casing	A B C D	L R C	W DW P M C B S CE	P F I	
	Door jamb	A B C D	L R C	W DW P M C B S CE	P F I	
	Ceiling	A B C D	L R C	W DW P M C B S CE	P F I	
	Window casing	A B C D	L R C	W DW P M C B S CE	P F I	
	Window sash	A B C D	L R C	W DW P M C B S CE	P F I	
	Cabinets	A B C D	L R C	W DW P M C B S CE	P F I	
		A B C D	L R C	W DW P M C B S CE	P F I	
		A B C D	L R C	W DW P M C B S CE	P F I	

Notes:

W = Wood DW = Drywall P = Plaster M = Metal C = Concrete B = Brick S = Stucco CE = Ceramic

SIDE IDENTIFICATION: Sides B, C & D are identified clockwise from Side A; where Side A corresponds to: North side
Address side
Entrance to unit

Calibration Check Test Results

Address/Unit No. _____

Device LPA-1

Date 11-6-17 XRF Serial No. 1184

Contractor Alta Environmental

Inspector Name _____ Signature _____

NIST SRM Used 1.04 mg/cm2

Calibration Check Tolerance Used 0.3 mg/cm2

First Calibration Check

NIST SRM			First Average	Difference Between first Average and NIST SRM*
First Reading	Second reading	Third reading		
1.0	1.0	0.9		

Second Calibration Check

NIST SRM			First Average	Difference Between first Average and NIST SRM*
First Reading	Second reading	Third reading		
1.1	0.8	0.8		

Third Calibration Check (if required)

NIST SRM			First Average	Difference Between first Average and NIST SRM*
First Reading	Second reading	Third reading		

Fourth Calibration Check ***(not required)***

NIST SRM			First Average	Difference Between first Average and NIST SRM*
First Reading	Second reading	Third reading		

* if the difference of the Calibration Check Average from the NIST SRM film value is greater than the specified Calibration Check Tolerance for this device, consult the manufacturer's recommendations to bring the instrument back into control. Retest all testing combinations tested since the last successful Calibration Check test.

Appendix I

Alta Environmental Employee Certifications

State of California
Division of Occupational Safety and Health

Certified Site Surveillance Technician

Oscar Garcia

Name

Certification No. **05-3759**

Expires on **05/19/18**

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.

State of California
Division of Occupational Safety and Health

Certified Site Surveillance Technician

Jorge Robles
Name

Certification No. **17-6028**

Expires on **11/14/18**

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.

State of California Department of Public Health

Lead-Related Construction Certificate

Certificate Type

Expiration Date

Sampling Technician 10/28/2018

Jorge Robles

ID #: 30025

State of California
Division of Occupational Safety and Health
Certified Asbestos Consultant

James Charles Byers, Jr.
Name

Certification No. 06-4122

Expires on 01/18/19

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.

State of California
Division of Occupational Safety and Health
Certified Asbestos Consultant

Fabian Ruvalcaba
Name

Certification No. 15-5533

Expires on 11/17/18

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.


State of California Department of Public Health
Lead-Related Construction Certificate
Certificate Type
Expiration Date
Inspector/Assessor
12/06/2018
Fabian Ruvalcaba
ID #: 22130


State of California Department of Public Health
Lead-Related Construction Certificate
Certificate Type
Expiration Date
Inspector/Assessor
08/24/2018
James C. Byers
ID #: 14805

State of California
Division of Occupational Safety and Health
Certified Asbestos Consultant

Cesar Ruvalcaba
Name

Certification No. 95-1799

Expires on 10/27/18

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.

State of California Department of Public Health

Lead-Related Construction Certificate

Certificate Type	Expiration Date
Inspector/Assessor	01/16/2019
Project Monitor	01/16/2019

Cesar A. Ruvalcaba

ID #: 6855