

February 17, 2022

Ms. Nina Schroeder
Senior Business Manager
City of Torrance
3031 Torrance Blvd.
Torrance, CA 90503

Certified Asbestos Inspector Name: Lina Sok CSST #: 15-5499 Certification Expiration Date: November 17, 2022 Date of Sampling Report: February 15, 2022 Phone Number: 310 544 1837 Email Address: linasok@ellisenvironmental.com

**RE: *Bulk Sampling for Asbestos and Lead
Fire Station #4
5202 Calle Mayor, Torrance, CA 90505***

1. Executive Summary

On February 9, 2022, Ellis conducted an inspection for possible asbestos- and lead-containing materials prior to planned renovation efforts at the subject site. This report supplements Ellis Report(s) 17-430, 19-099, 21-063 and includes a summary of historical sampling results and abatement efforts – See Table 1.

Asbestos:

Asbestos is known to be present in the following materials:

1. Flashing mastic and pedestal mastic on the center roof
2. Thermal System Insulation (TSI) throughout inner wall spaces (assumed)
3. Mirror mastic (assumed)
4. Asbestos-cement pipe (assumed)

No asbestos was detected in the following sampled building materials:

1. Textured ceiling
2. Plaster walls
3. Carpet glue Ceiling tiles

Retain a licensed abatement contractor for the disturbance of the asbestos-containing materials noted above. See “Results” section and Table 1 for complete list of sampled materials and historical abatement efforts.

Lead:

Lead-based paint is known to be present on the following sampled materials:

1. White wall paint in the dorm, wellness area, recreational area, and weight room

Lead-containing paint is known to be present on the following sampled materials:

1. White ceiling paint throughout

No lead above regulated levels was identified in the following materials:

1. White kitchen wall paint

2. Grey exterior wall paint

Retain a licensed abatement contractor for the disturbance of the lead-based paint noted above. Avoid torching, welding, or mechanical abrading on lead-containing paints without prior exposure monitoring. See “Results” section and Table 2 for complete list of sampled materials.

This was not a complete hazardous materials survey; only client specified locations and materials were sampled (See Tables 1-2 and Figures 1-2). Any materials not identified in this report should be sampled prior to disturbance. The removal of asbestos- and lead-containing materials is regulated by SCAQMD Rule 1403, Cal/OSHA Title 8 § 1529, Cal/OSHA Title 8 § 1532.1, and their federal regulatory counterparts. See attached regulatory summaries.

2. Methodology

All samples were collected by Lina Sok (CSST # 15-5499, CDPH # 2591), an EPA-accredited building inspector employed by Ellis. Each sample was placed in a sealed container and provided with a unique identifying number. Samples were transported to an EPA/NVLAP – accredited laboratory and analyzed by the following methods as appropriate for the sampled material:

- Asbestos. 40 CFR Part 763, Subpart F, Appendix A. (AHERA Final Rule). Results expressed in percent of measured area.
- Lead in Paint. Flame AAS (SW 846 EPA method 3050B/7000B). Results expressed in percent by weight.

3. Inaccessible Areas

Sampling was limited to client-specified materials and locations (only) – see drawings and Section 1 above. There is a chance that additional suspect materials (e.g. pipe insulation above hard ceilings) may be exposed during renovation or demolition efforts. Such materials, if not identified in this report, should be sampled and analyzed prior to disturbance.

4. Results

Refer to the attached drawings, laboratory analysis reports, and historical sampling and abatement reports in Appendix A.

Asbestos:

Asbestos is known to be present in the following materials:

1. Flashing mastic and pedestal mastic on the center roof (Ellis 21-063)
(*2% chrysotile; good condition / “non-friable” – 90 sq. ft. in quantity**)
2. Thermal System Insulation (TSI) throughout inner wall spaces (assumed)
(*Quantity and condition currently unknown*)
3. Mirror mastic (assumed)
(*Quantity and condition currently unknown*)
4. Asbestos-cement pipe (assumed)
(*Quantity and condition currently unknown*)

No asbestos was detected in the following sampled building materials:

1. Textured ceiling
2. Plaster walls (Ellis 19-099)
3. Carpet glue (Ellis 19-099)
4. Ceiling tiles (Ellis 19-099)

Removal of any material containing asbestos in an amount greater than one percent is regulated under EPA-SCAQMD Rule 1403, 29 CFR 1926.1101 (federal OSHA) and other state and local guidelines. Removal of any material containing asbestos in an amount greater than 0.1 percent is also regulated, under Cal-OSHA Title 8 Section 1529. Prior to renovation or demolition, retain a licensed abatement contractor to remove asbestos materials identified.

Initiate renovation or demolition carefully; older, original materials may also be exposed during renovation or demolition practices. If not identified in this report they should be sampled prior to disturbance.

Lead

Lead-based paint (>0.06% lead by wt.) is known to be present on the following sampled materials:

1. White wall paint in the dorm, wellness area, recreational area, and weight room – (Ellis 17-430, 19-099)
(0.060 - 0.075% lead by wt., good condition)*

Lead-containing paint (<0.06% lead by wt.) is known to be present on the following sampled materials:

1. White ceiling paint throughout – (Ellis 17-430)
(0.026% lead by wt., good condition)*

No lead above regulated levels was identified in the following materials:

1. White kitchen wall paint. (Ellis19-099)
2. Grey exterior wall paint

Retain a licensed abatement contractor for the disturbance of the lead-based paint noted above. Drum and profile all uniquely generated waste streams prior to transportation or disposal. Avoid torching, welding, or mechanical abrading on lead-containing paints without prior exposure monitoring as is stipulated in Cal/OSHA Title 8 § 1532.1 – reference the attached lead “Trigger Tasks” document and regulatory summaries. See Table 2 for complete list of sampled materials.

** Not for bidding purposes. Conditions noted are representative of observations on the date of sampling (only). Field verify all listed quantities and conditions.*

5. Statement of Independence

Ellis is a privately-held company and is not affiliated with any financial institution or other corporate entity. Ellis is retained as an independent contractor to provide objective, impartial investigation or analytical services regarding environmentally regulated hazardous or toxic materials. This report is not an endorsement or rejection of any specific methods used in handling or transport of potentially hazardous chemicals. Nor is intended as a complete hazardous materials survey of the entire building or facility. Ellis provides independent testing for asbestos, lead, indoor air contaminants and other potentially hazardous materials. The company and its employees are certified and licensed to practice in the State of California. Retained laboratories are accredited by the EPA (AREAL), NIOSH (AIHA), and the California Air Resources Board (CARB).

Respectfully Submitted:
ELLIS ENVIRONMENTAL MANAGEMENT, INC.

Prepared by:



Lina Sok
Industrial Hygienist
CSST #15-5499
CDPH #2591

Reviewed by:



Ryan C. Davidson
Senior Project Manager
CAC #15-5395
CDPH #0368

Proj. No.: 22-052

Distribution:

Nina Schroeder
Gary McCoy
Louis Ortega

PHOTOS



Non-asbestos textured ceiling plaster in hallway area.



Non-asbestos textured ceiling plaster in subceiling space – dorm.

Blue lines indicate lead-based interior wall paint.
 (All areas excluding kitchen.)

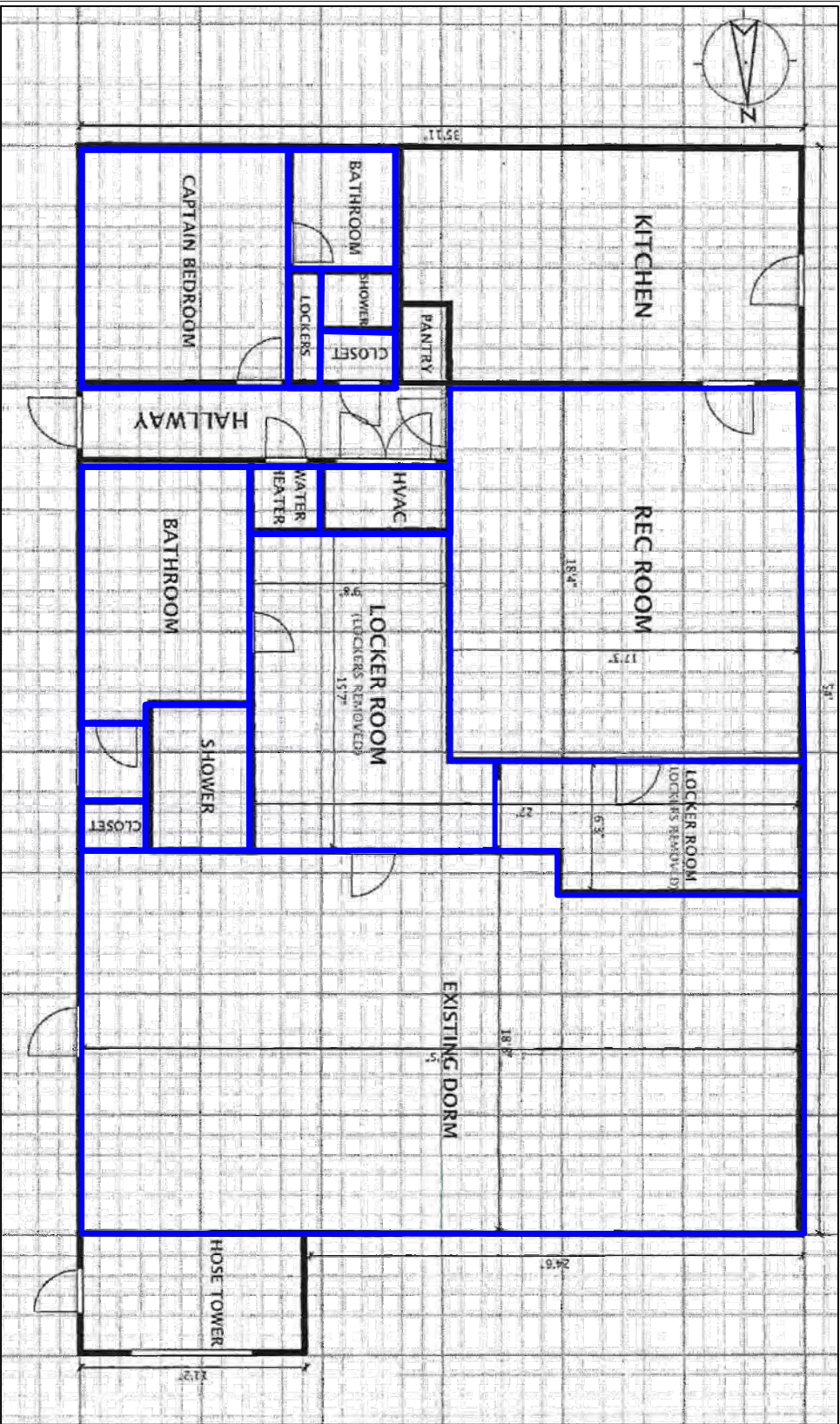


Figure 1: Material Locations
 Torrance Fire Station #4
 5205 Calle Mayor
 Torrance, CA 90505

Firm Name and Address
 Ellis Environmental Mgmt. Inc.
 430 Silver Spur Rd., Suite 201
 Rancho Palos Verdes, CA 90275

Client Name and Address
 City of Torrance
 3031 Torrance Blvd.
 Torrance, CA 90503

Project #	22-052	Sheet
Date	02/15/2022	1 of 1



* Red lines and hatch notes asbestos flashing mastic and pedestal mastic located on center roof.

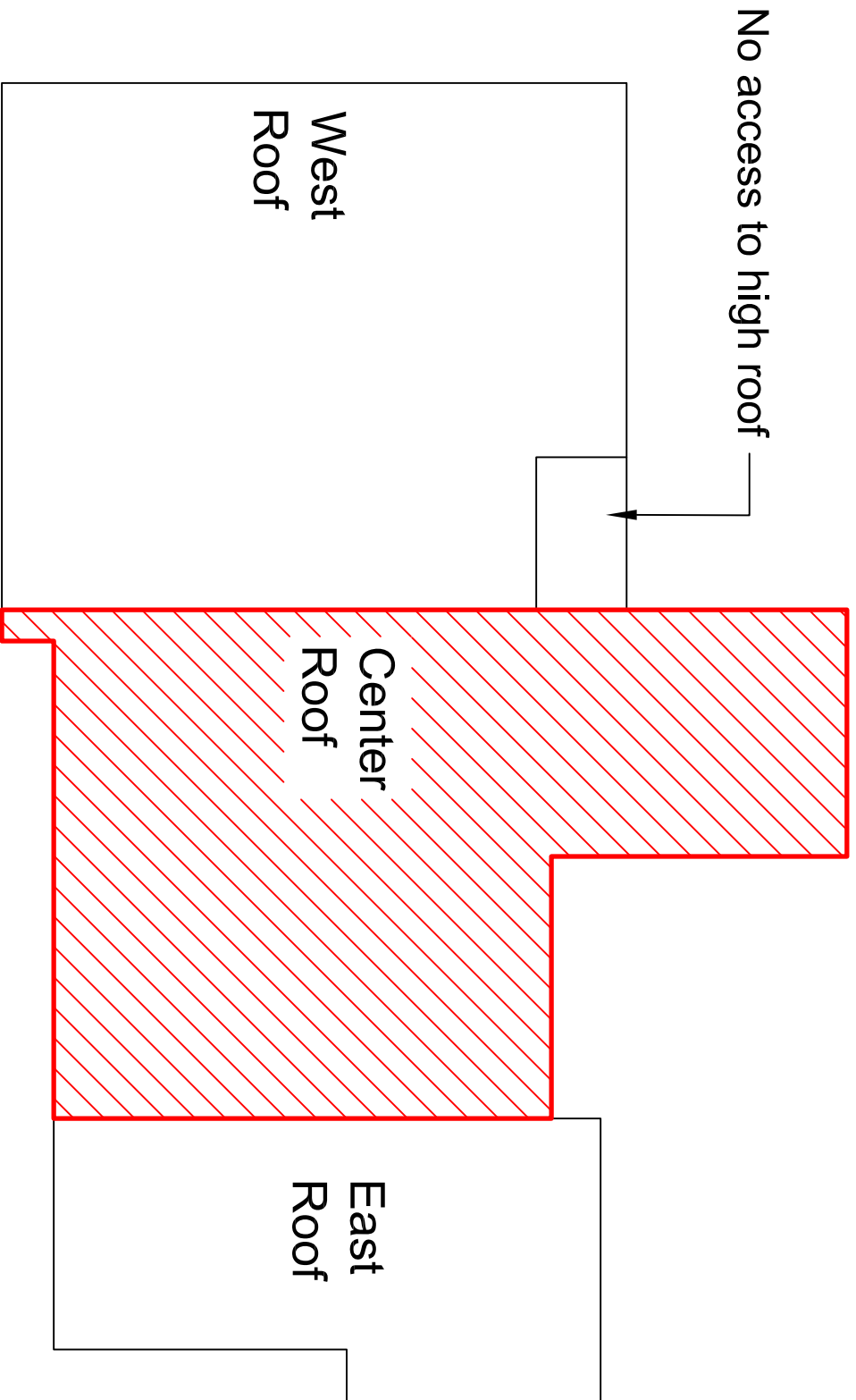


Figure 1: Material Locations
City of Torrance - Fire Station #4
5205 Calle Mayor
Torrance, CA 90505

Firm Name and Address

Ellis Environmental Mgmt. Inc.
430 Silver Spur Rd., Suite 201
Rancho Palos Verdes, CA 90275

Client Name and Address

City of Torrance
Fire Station #4
3031 Torrance Blvd.
Torrance, CA 90503

Project #

21-063

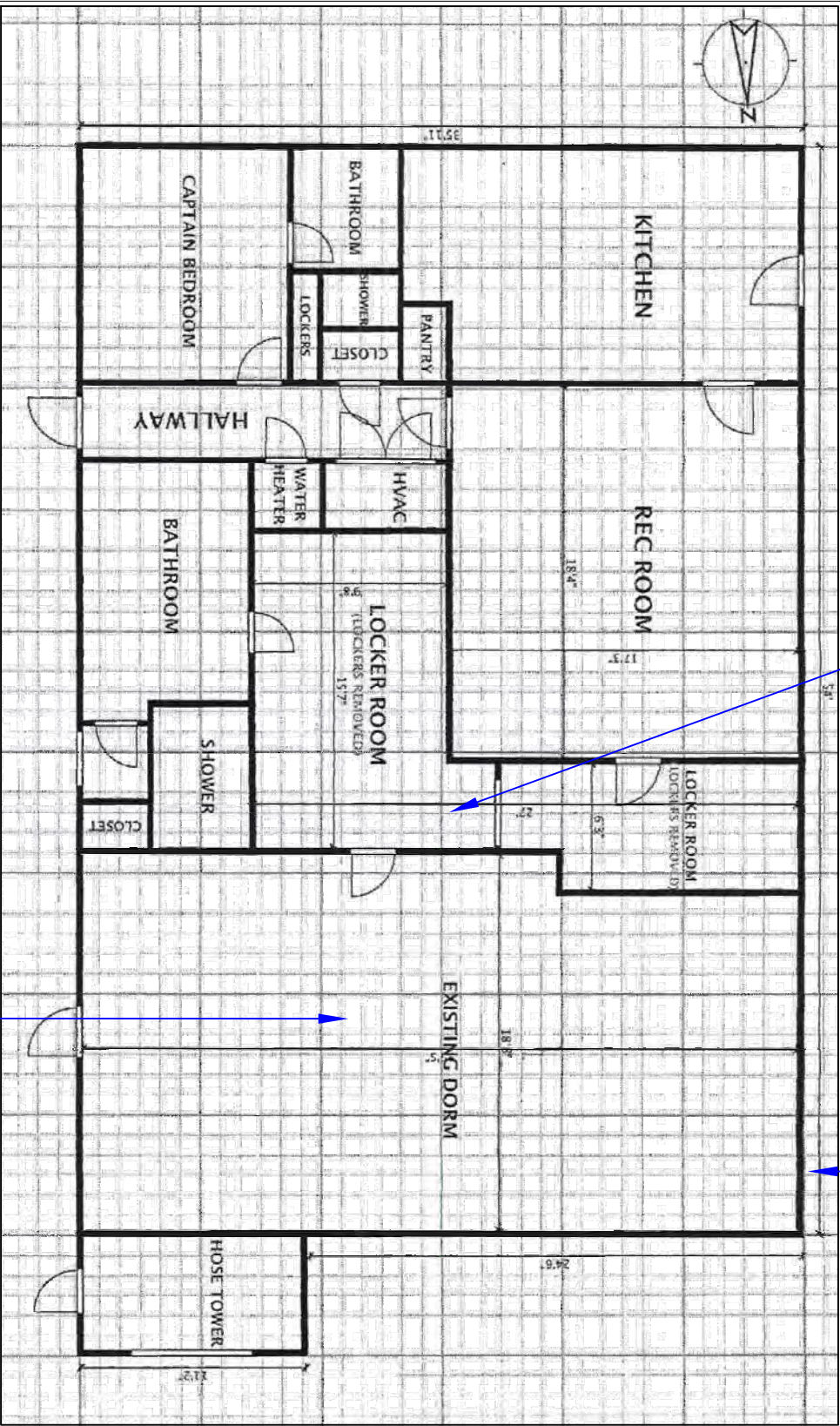
Sheet

Date

3/17/2021

1 of 1





052-A1,
052-A2

052-L1

052-A3



Figure 2: Sample Locations
Torrance Fire Station #4
5205 Calle Mayor
Torrance, CA 90505

Firm Name and Address Ellis Environmental Mgmt. Inc. 430 Silver Spur Rd., Suite 201 Rancho Palos Verdes, CA 90275	
Client Name and Address City of Torrance 3031 Torrance Blvd. Torrance, CA 90503	
Project # 22-052	Street 1 of 1
Date 02/15/2022	Street 1 of 1

<u>REF.</u>	<u>MATERIAL</u>	<u>MATERIAL LOCATION</u>	<u>FRIABLE</u>	<u>DAMAGE</u>	<u>% ASB</u>	<u>QTY*</u>	<u>UNIT</u>
<u>IDENTIFIED ASBESTOS MATERIALS</u>							
Ellis Report 21-063	flashing mastic	center roof	no	no	2%	40	s.f.
Ellis Report 21-063	pedestal mastic	center roof	no	no	2%	50	s.f.
assumed	mirror mastic	restrooms, wherever mirrors are present	no	unknown	assumed	-	s.f.
assumed	thermal system insulation (TSI)	pipe wrap - inner wall spaces, sub-ceiling space	yes	unknown	assumed	-	s.f.
assumed	transite pipe (AC pipe)	underground lines, building vents, inner wall spaces	no	unknown	assumed	-	s.f.
<u>NON-ASBESTOS MATERIALS</u>							
052-A1, 052-A2, 052-A3	textured ceiling plaster & drywall	dorm & center hallway areas	-	-	none detected	-	s.f.
Ellis Report 19-099	2' x 4' lay-in ceiling tiles	throughout	-	-	none detected	-	s.f.
Ellis Report 19-099	plaster walls and button board	throughout	-	-	none detected	-	s.f.
Ellis Report 19-099	cove base and glue	throughout	-	-	none detected	-	s.f.
Ellis Report 19-099	smooth ceiling plaster and button board	throughout	-	-	none detected	-	s.f.
Ellis Report 21-063	west roof - roof core	west roof	-	-	none detected	-	s.f.
Ellis Report 21-063	west roof - penetration mastic	west roof	-	-	none detected	-	s.f.
Ellis Report 21-063	west roof - patch mastic	west roof	-	-	none detected	-	s.f.
Ellis Report 21-063	west roof - pedestals	west roof	-	-	none detected	-	s.f.
Ellis Report 21-063	west roof - parapet mastic	west roof	-	-	none detected	-	s.f.
Ellis Report 21-063	center roof - roof core	center roof	-	-	none detected	-	s.f.

Table 1
Asbestos Results Summary

Fire Station #4
5205 Calle Mayor
Torrance, CA 90505

SHEET 1 OF 2

Proj. # 22-052



<u>REF.</u>	<u>MATERIAL</u>	<u>MATERIAL LOCATION</u>	<u>FRIABLE</u>	<u>DAMAGE</u>	<u>% ASB</u>	<u>QTY*</u>	<u>UNIT</u>
Ellis Report 21-063	center roof - penetration mastic	center roof	-	-	none detected	-	s.f.
Ellis Report 21-063	center roof - patch mastic	center roof	-	-	none detected	-	s.f.
Ellis Report 21-063	center roof - cement cover cap	center roof	-	-	none detected	-	s.f.
Ellis Report 21-063	center roof - parapet	center roof	-	-	none detected	-	s.f.
Ellis Report 21-063	east roof - roof core	east roof	-	-	none detected	-	s.f.
Ellis Report 21-063	east roof - penetration	east roof	-	-	none detected	-	s.f.
Ellis Report 21-063	east roof - patch mastic	east roof	-	-	none detected	-	s.f.
Ellis Report 21-063	east roof - block mastic	east roof	-	-	none detected	-	s.f.
Ellis Report 21-063	east roof -parapet	east roof	-	-	none detected	-	s.f.
Ellis Report 21-063	east roof - pedestal	east roof	-	-	none detected	-	s.f.
<u>ABATED ASBESTOS-CONTAINING MATERIALS</u>							
<u>DATE ABATED</u>	<u>MATERIAL</u>	<u>LOCATION</u>	<u>QUANTITY</u>	<u>UNIT</u>			
approx. 7/20/20	resilient sheet flooring	kitchen	~230	s.f.			
8/11/20	12" floor tile/mastic	water heater closet	7	s.f.			
3/28/13	floor tile/mastic	captain's bathroom	50	s.f.			
Not a complete survey; only client-specified materials were sampled.							

Table 1
Asbestos Results Summary

Fire Station #4
5205 Calle Mayor
Torrance, CA 90505



<u>SAMPLE #</u>	<u>MATERIAL</u>	<u>LEAD RESULTS</u>	<u>LEAD-BASED?</u>	<u>LEAD-CONTAINING?</u>
Ellis Report(s) 17-430, 19-099	white wall paint - dorm & throughout	0.06 - 0.075%	YES	YES
Ellis Report(s) 17-430	white ceiling paint	0.026%	no	YES
L2	white wall paint - kitchen	<0.01 %	no	no
052-L1	grey exterior wall paint	0.0057%	no	no
Not a complete survey; only client-specified materials and locations were sampled. See report text.				



Please Reply To:

AmeriSci Los Angeles

24416 S. Main Street, Ste 308
Carson, California 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

LABORATORY ELECTRONIC TRANSMITTAL

To: Duane Behrens
Ellis Environmental Management, Inc.

Fax #:

Email: duanebehrens@ellisenvironmental.com,
results@ellisenvironmental.com,
sonnybaramy@ellisenvironmental.com

From: Rosa E. Pena
AmeriSci Job #: 922021216
Subject: PLM 3 day Results
Client Project: 22-052; City Of Torrance; Fire
Station #4 5205 Calle Mayor

Date: Monday, February 14, 2022

Time: 10:36:37

Comments:

Number of Pages: _____
(including cover sheet)

NOTE: Attached report is to be considered preliminary until final review with accompanying analysis summary letter is issued.

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AmeriSci Los Angeles

24416 S. Main Street, Ste 308
Carson, California 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

PLM Bulk Asbestos Report

Ellis Environmental Management, Inc.
Attn: Duane Behrens
430 Silver Spur Road
Suite 201
Rancho Palos Verdes, CA 90275

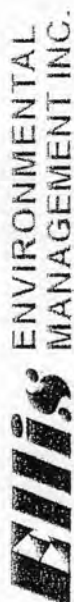
Date Received 02/09/22
Date Examined 02/12/22

AmeriSci Job # 922021216
P.O. #
Page 1 of 2

RE: 22-052; City Of Torrance; Fire Station #4 5205 Calle Mayor

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
052-A1 01	922021216-01.1 Location: Textured Ceiling Plaster	No	NAD (by CVES) by Rosa E. Pena on 02/12/22
Analyst Description: Off-White, Homogeneous, Non-Fibrous, Cementitious, Textured Ceiling			
Asbestos Types:			
Other Material: Non-fibrous 100%			
052-A1 01	922021216-01.2 Location: Textured Ceiling Plaster	No	NAD (by CVES) by Rosa E. Pena on 02/12/22
Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall			
Asbestos Types:			
Other Material: Cellulose 15%, Non-fibrous 85%			
052-A2 01	922021216-02 Location: Textured Ceiling Plaster	No	NAD (by CVES) by Rosa E. Pena on 02/12/22
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Textured Ceiling			
Asbestos Types:			
Other Material: Non-fibrous 100%			
052-A3 01	922021216-03 Location: Textured Ceiling Plaster	No	NAD (by CVES) by Rosa E. Pena on 02/12/22
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Textured Ceiling			
Asbestos Types:			
Other Material: Non-fibrous 100%			

092021216



430 Silver Spur Road, Suite 201
Rancho Palos Verdes, CA 90275
(310) 544-1837 (tel)
(310) 544-2167 (fax)

Project No.: 22-052
Client: CITY OF TORRANCE
Location: FIRE STATION #4
5205 CAVE MAYOR

Sampler: LS
Sheet 1 of 1

CHAIN OF CUSTODY RECORD

Sample Number	Description	Date	Time	H2O	Air	Solid	Stop At First Positive Layer	Tests Required
052-A1	TEXTURED CEILING PLASTER	2/9/22	PM			X	X	PUM - ASBESTOS
052-A2								
052-A3								
052-L1	GREY EXTERIOR PAINT							FRAME PAAS - LEAD

Turnaround: same day 24 hrs. 48 hrs. 3 days 5 days (Standard) 2 weeks

Special Instructions:

Date	Time	Relinquished By	Received By
2/9/22	15:00		2/9/22 1500



Please Reply To:

AmeriSci Los Angeles

24416 S. Main Street, Ste 308

Carson, California 90745

TEL: (310) 834-4868 • FAX: (310) 834-4772

LABORATORY ELECTRONIC TRANSMITTAL

To: Duane Behrens
Ellis Environmental Management, Inc.
Fax #:

Email: duanebehrens@ellisenvironmental.com,
results@ellisenvironmental.com,
sonnybaramy@ellisenvironmental.com

From:
AmeriSci Job #: 422021090
Subject: Lead (paint) 3 day Results
Client Project: 22-052; City Of Torrance; Fire
Station #4 5205 Calle Mayor
(Report Amended 2/15/2022)

Date: Tuesday, February 15, 2022
Time: 12:55:50

Number of Pages: _____
(including cover sheet)

Comments:

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AmeriSci Los Angeles
 24416 S Main St., Ste. 308
 Carson, CA 90745
 Phone: (310) 834-4868 Fax: (310) 834-4772

Laboratory Report

Report Date: 2/15/2022
 Workorder No: 422021090

Customer: **Ellis Environmental Management, Inc.**
 430 Silver Spur Road, Suit 201
 Rancho Palos Verdes, CA 90275

Attention: Duane Behrens


Subject: **22-052; City Of Torrance; Fire Station #4 5205 Calle Mayor (Report Amended 2/15/2022)**

Sample 1: **L1** Description: Grey Exterior Paint
 Collection Date: 02/09/2022 Received Date: 02/09/2022 Time: 15:00
 Matrix: Solid

<u>Parameter</u>	<u>Method</u>	<u>Results</u>	<u>Unit</u>	<u>PQL</u>	<u>Tech</u>	<u>Analysis Date</u>	<u>Qual</u>
Lead, Solid, ICP	EPA 3050B/6010B	0.0057	% wt	0.00050	MP	2/11/2022	

AmeriSci Reporting Limit is represented by the PQL. The analytical results within this report relate only to the specific compounds and samples investigated, and may not necessarily reflect other apparently similar material from a similar location. This report shall not be reproduced, except in full, without the written approval of AmeriSci Los Angeles. All analytical Batch data met quality control criteria unless other wise noted.

To the best of my knowledge this report is true and accurate.

Authorized by/Title:  POR:
 Minh Phung / Metals Superv. Date: 2/15/2022

42 2021090

Subject: RE: AmeriSci Preliminary Report 422021090; 22-052; City Of Torrance; Fire Station #4 5205 Calle Mayor

From: Lina Sok <LinaSok@ellisenvironmental.com>

Date: 2/15/2022, 12:33

To: "ameriscila@amerisci.com" <ameriscila@amerisci.com>, Duane Behrens <DuaneBehrens@ellisenvironmental.com>, Results <results@ellisenvironmental.com>, Sonny Baramy <sonnybaramy@ellisenvironmental.com>

Hello,

May we please get the lead paint results unit converted to % by weight? Thank you.

Lina Sok

CSST #15-5499, CDPH #2591

Industrial Hygienist linasok@ellisenvironmental.com

ELLIS ENVIRONMENTAL MANAGEMENT INC

O: 310 544 1837 | C: 310 686 0124 | www.ellisenvironmental.com

Please consider the environment before printing this email.

Ellis provides "essential services" as defined by the County of LA Dept. of Public Health "Safer at Home" Order for Control of Covid-19, and State of California Executive Order #N-33-20 "Shelter in Place".

-----Original Message-----

From: ameriscila@amerisci.com <ameriscila@amerisci.com>

Sent: Monday, February 14, 2022 10:38 AM

To: Duane Behrens <DuaneBehrens@ellisenvironmental.com>; Results <results@ellisenvironmental.com>; Sonny Baramy <sonnybaramy@ellisenvironmental.com>

Cc: ameriscila@amerisci.com

Subject: AmeriSci Preliminary Report 422021090; 22-052; City Of Torrance; Fire Station #4 5205 Calle Mayor

Thank you from AmeriSci.

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Rec'd by *SHH*
2-15-22 12:40

492021097D

Ellis ENVIRONMENTAL MANAGEMENT INC.

430 Silver Spur Road, Suite 201
 Rancho Palos Verdes, CA 90275
 (310) 544-1837 (tel)
 (310) 544-2167 (fax)

Project No.: 22-052
 Client: CITY OF TORRANCE
 Location: FIRE STATION #4
5205 CANAL MAYOR

Sampler: LS

Sheet 1 of 1

CHAIN OF CUSTODY RECORD

Sample Number	Description	Date	Time	H2O	Air	Solid	Stop At First Positive Layer	Tests Required
052A1	TEXTURED CEILING JUNCTION	2/9/22	PM			X	X	PLM - ASBESTOS;
052A2								
052-A3	GREY EXTERIOR PAINT							FLAME P.P.S. - LEAD
052-U								

Turnaround: same day 24 hrs. X 48 hrs. X 3 days 5 days (Standard) 2 weeks

Special Instructions:

Date	Time	Relinquished By	Received By
2/9/22	15:00	<i>[Signature]</i>	<i>[Signature]</i> 2/9/22 1500

State of California
Division of Occupational Safety and Health
Certified Site Surveillance Technician

Lina Sok

Name



Certification No. 15-5499

Expires on 11/17/22

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

Ryan C Davidson

Name



Certification No. 15-5395

Expires on 05/12/22

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.

APPLICABLE REGULATIONS – LEAD

California Title 8. Industrial Relations, Division 1, Department of Industrial Relations, Chapter 4, Division of Industrial Safety, Subchapter 4, Construction Safety Orders, Article 4, Dusts, Fumes, Mists, Vapors, and Gases, §1532.1, Lead.

This section applies to all construction work where an employee may be occupationally exposed to lead. All construction work excluded from coverage in the general industry standard for lead by section 5198(a)(2) is covered by this standard. Construction work is defined as work for construction, alteration and/or repair, including painting and decorating. It includes but is not limited to the following:

- (1) Demolition or salvage of structures where lead or materials containing lead are present;
- (2) Removal or encapsulation of materials containing lead;
- (3) New construction, alteration, repair, or renovation of structures, substrates, or portions thereof, that contain lead, or materials containing lead;
- (4) Installation of products containing lead;
- (5) Lead contamination/emergency cleanup;
- (6) Transportation, disposal, storage, or containment of lead or materials containing lead on the site or location at which construction activities are performed, and
- (7) Maintenance operations associated with the construction activities described in this subsection.

California Health & Safety Code 17961 et al.

Deems a building to be in violation of state law if it contains lead hazards, and requires local enforcement agencies to enforce provisions related to lead hazards. Makes it a crime for a person to engage in specified acts related to lead hazard evaluation, abatement, and lead-related construction courses unless certified or accredited by the Department. Permits local enforcement agencies to order the abatement of lead hazards or issue a cease and desist order in response to lead hazards.

California Labor Code 6716 to 6717 Lead-Related Activities in Construction Work

Provides for the establishment of standards that protect the health and safety of employees who engage in lead-related construction work, including construction, demolition, renovation and repair.

California Code of Regulations, Title 17, Section 35001

Includes requirements for lead hazard evaluation and abatement activities, accreditation of training providers, and certification of individuals engaged in lead-based paint activities.

LEAD - "TRIGGER TASKS"

(SOURCE: California Title 8 Section 1532.1.)

Following testing, Construction Managers and Superintendents may use the following to decide whether (and for how long) an abatement contractor should be retained during disturbance of painted surfaces.

Paint Categories

1. Lead-Based. >.06% Lead by Weight. Start-to-finish, retain an abatement contractor to perform trigger tasks listed below.
2. Lead-Containing. 0.009 – 0.06% lead by weight. Avoid torching or mechanical grinding; no other special precautions.
3. Non-Lead-Containing <.009% lead by weight. No special lead-related precautions required.

TRIGGER TASKS - Lead-Based Paints Only:

Lowest Exposure Trigger Tasks:

Unless proven otherwise (Negative Exposure Assessment, or "NEA"), assume exposures greater than 50 and up to 500 µg/m³ where lead-based coatings or paint are present:

- manual demolition of structures
- manual scraping
- manual sanding
- heat gun applications
- power tool cleaning with dust collection system
- spray painting with lead
- any other task where employees may be exposed over the PEL.

Medium Exposure Trigger Tasks:

Unless proven otherwise (NEA), assume exposures greater than 500 and up to 2,500 µg/m³ where lead-based coatings or paint are present:

- use of lead-containing mortar
- lead burning
- rivet busting
- power tool cleaning without dust collection systems
- cleanup of dry expendable abrasives
- abrasive blasting enclosure movement and removal

Highest Exposure Trigger Tasks:

Assume exposures greater than 2,500 µg/m³ unless proven otherwise where lead-based coatings or paint are present:

- abrasive blasting
- welding
- cutting
- torch burning

APPLICABLE REGULATIONS – ASBESTOS

Current state and federal regulations pertaining to asbestos are summarized below. The summary is not all-inclusive, and does not address specific removal or disposal requirements for individual materials.

NESHAPS

The National Emission Standard for Hazardous Air Pollutants (NESHAP), regulation 40 CFR Part 61, states that no visible emissions are allowed during building demolition or renovation activities which involve regulated asbestos-containing materials (RACMs). All buildings, regardless of construction date, must be surveyed for ACMs prior to demolition or renovation. The US EPA and/or the local air quality management district which implements US EPA actions must be notified prior to any building demolition, even if no ACMs are present. An ACM is defined as any material with an asbestos content of greater than one percent and which (a) is friable, or (b) Category I non-friable ACM that has or will become friable, or (c) Category II friable ACM that may become or will become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation.

According to NESHAP, ACM is material containing more than one percent asbestos as determined using the methods specified in Appendix A, Subpart E, 40 CFR Part 763, Section 1, PLM. The NESHAP classifies ACM as friable or non-friable. Friable ACM is ACM that contains more than one percent asbestos and when dry, can be crumbled, pulverized, or reduced to powder by hand pressure.

Non-friable ACM also contains more than one percent asbestos and is further classified as either Category I ACM or Category II ACM. The materials are distinguished by their potential to release fibers when damaged. Category I ACMs are much more likely to release fibers when damaged.

In accordance with the US EPA's NESHAP regulation, facilities planned for renovation or demolition must be surveyed for the total amount of asbestos materials, which must be categorized as friable, Category 1 non-friable, and Category 2 non-friable ACMs.

Southern California Air Quality Management District (SCAQMD)

The SCAQMD is a government agency that regulates sources of air pollution within the area of the Los Angeles and surrounding counties. The District's regulating and enforcement authority comes from federal law. In response to the NESHAP requirements, the SCAQMD implemented Rule 1403 to specify work practice requirements to limit asbestos emissions from building demolition and renovation activities, including the removal and associated disturbance of asbestos-containing materials (ACM). The requirements for demolition and renovation activities include asbestos surveying, notification, ACM removal procedures and time schedules, ACM handling and clean-up procedures, and storage, disposal, and landfilling requirements for asbestos-containing waste materials (ACWM). All operators are required to maintain records, including waste shipment records, and are required to use appropriate warning labels, signs, and markings.

AHERA

The Asbestos Hazard Emergency Response Act (AHERA) requires performance of asbestos surveys and the development of Asbestos Management Plans for all of the nation's primary and secondary schools. The general procedures mandated under AHERA are considered the industry standard and are applied to all surveys performed.

Cal-OSHA

Per Cal-OSHA standards, 1926.1101, Asbestos-Containing Construction Materials (ACCMs) are defined as any material with an asbestos content greater than one-tenth of one percent (>0.1%). Cal-OSHA sets forth work requirements for disturbance of ACCMs including removal operations for all types of ACCMs. The requirements have been classified as Class I, Class II, Class III, or Class IV Asbestos related work. The classes are distinguished by their potential to release fibers. Cal-OSHA prescribes specific engineering controls and work practices for each Class of Asbestos related Work.

1. Class I – This Class refers to removal of ACCMs identified as Thermal System Insulation (TSI) or surfacing (sprayed-on or troweled-on) materials. These materials are generally considered friable.
2. Class II – This Class refers to removal of ACCMs identified that are not TSI or surfacing materials. These materials are generally considered non-friable.
3. Class III – This Class refers to repair and maintenance operations of all identified ACCMs.
4. Class IV – This Class refers to incidental contact with identified ACCMs such as custodial staff.

California Health and Safety Code

The California Health and Safety Code 25915 (former Connolly Bill) requires all building owners in the State of California to provide written notification to employees, tenants, and contractors of the presence and location of ACCMs within their buildings. Some exclusion to the notification rule for restricted access areas is allowed. All documentation related to asbestos surveys (and air monitoring) must be made available to employees, tenants, or contractors for review. ACCMs are defined as any materials with an asbestos content greater than one-tenth of one percent (>0.1%). The California Health and Safety Code also require that a seller with any knowledge of ACCMs on a property disclose such information or knowledge to other parties involved in a real estate transaction.

Building Demolition / Renovation

In accordance with the US EPA's NESHAPs regulation and the SCAQMD, all structures planned for renovation or demolition must be surveyed for ACCMs prior to the planned renovation or demolition. Subsequent removal of identified ACCMs is also required. Removal involves, to the greatest extent practical, the complete removal, disposal, and replacement, if necessary, of the ACCMs. Removal usually also requires encapsulation of the remaining structure to lock down residual fibers which may exist. Removal of ACCMs is required prior to renovation and/or demolition activities. The US EPA and SCAQMD require removal of all RACMs prior to demolition or renovation. RACMs include friable and non-friable (Category I and II) which have or will become friable by demolition or renovation activities.

ATTACHMENT A
Previous Sampling Reports

Memo

To: Mr. Gary McCoy
VIA: e-mail
17-430
From: Duane Behrens Cal-OSHA Cert. 92-0226, CDPH #7914
Phone: (310) 544 1837
email: duanebehrens@ellisenvironmental.com
Date: October 12, 2017
RE: **Bulk Sampling for Asbestos and Lead
Fire Station #4 Wellness & Weight Room
5205 Calle Mayor, Torrance, CA**

On October 4, 2017 Ellis collected samples from potential lead- and asbestos-containing materials at the subject site. All samples were collected by Ryan Davidson and Sonny Baramy, both EPA accredited building inspectors employed by Ellis. Samples were transported to AmeriSci Laboratories, a NVLAP-accredited laboratory located in Carson, California. Samples were analyzed by polarized light microscopy using EPA Method 600/R-93/116 per 40 CFR 763 (asbestos), and EPA Method 3050B (lead). Results are summarized below.

<u>MATERIAL</u>	<u>RESULTS</u>	<u>+ OR -</u>	<u>FOR</u>
Ceiling plaster	ND*	-	asbestos
Button board	ND	-	asbestos
Smooth wall plaster	ND	-	asbestos
Brown sheet flooring	ND	-	asbestos
12" brown floor tile & mastic	5%	+	asbestos
White ceiling paint	0.026% by wt.	+	lead-containing
Beige wall paint	0.060% by wt.	+	lead-based

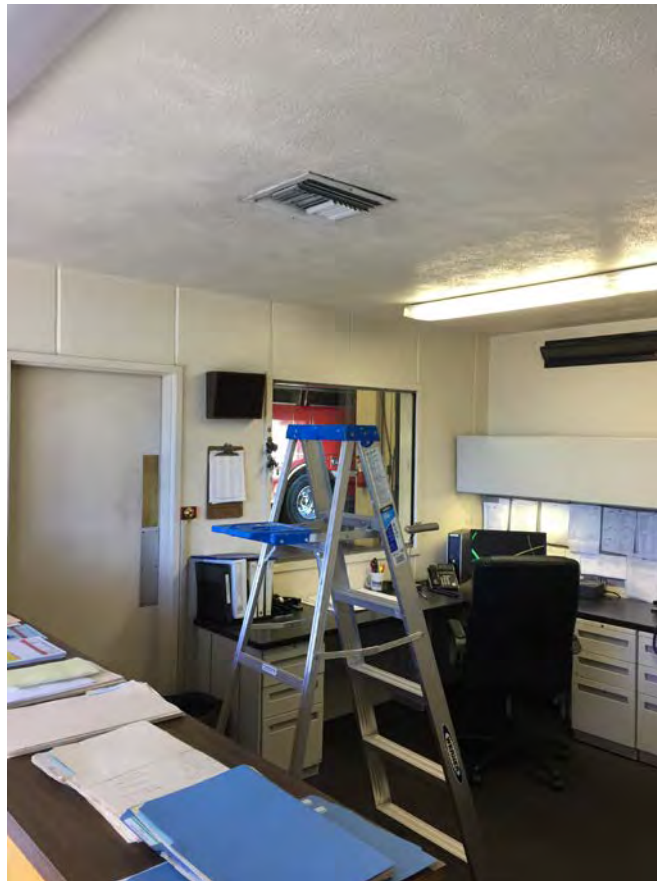
*ND = none detected

Please call with any questions.

Removal of asbestos and lead materials is regulated under California Title 8 §1529 and §1532.1, which also require personal monitoring of employees performing the removal. **Analysis results as reported are not intended and should not be interpreted as a survey of the entire building or facility.** Nor are they an endorsement or rejection of the use, handling or transport of potentially hazardous materials. Ellis provides Phase I environmental site assessments (ESAs), monitoring for indoor contaminants (IAQ studies), testing for and administration of the removal of potentially hazardous building materials. Licensed in the state of California, employees conducting asbestos surveys are certified by Cal-OSHA pursuant to regulations required by subdivision (b) of Section 9021.5 of the Labor Code, and have taken and passed an EPA-approved Building Inspector course. Retained laboratories are accredited by the EPA AREAL, NIOSH, DOHS, AIHA, NVLAP and CARB.

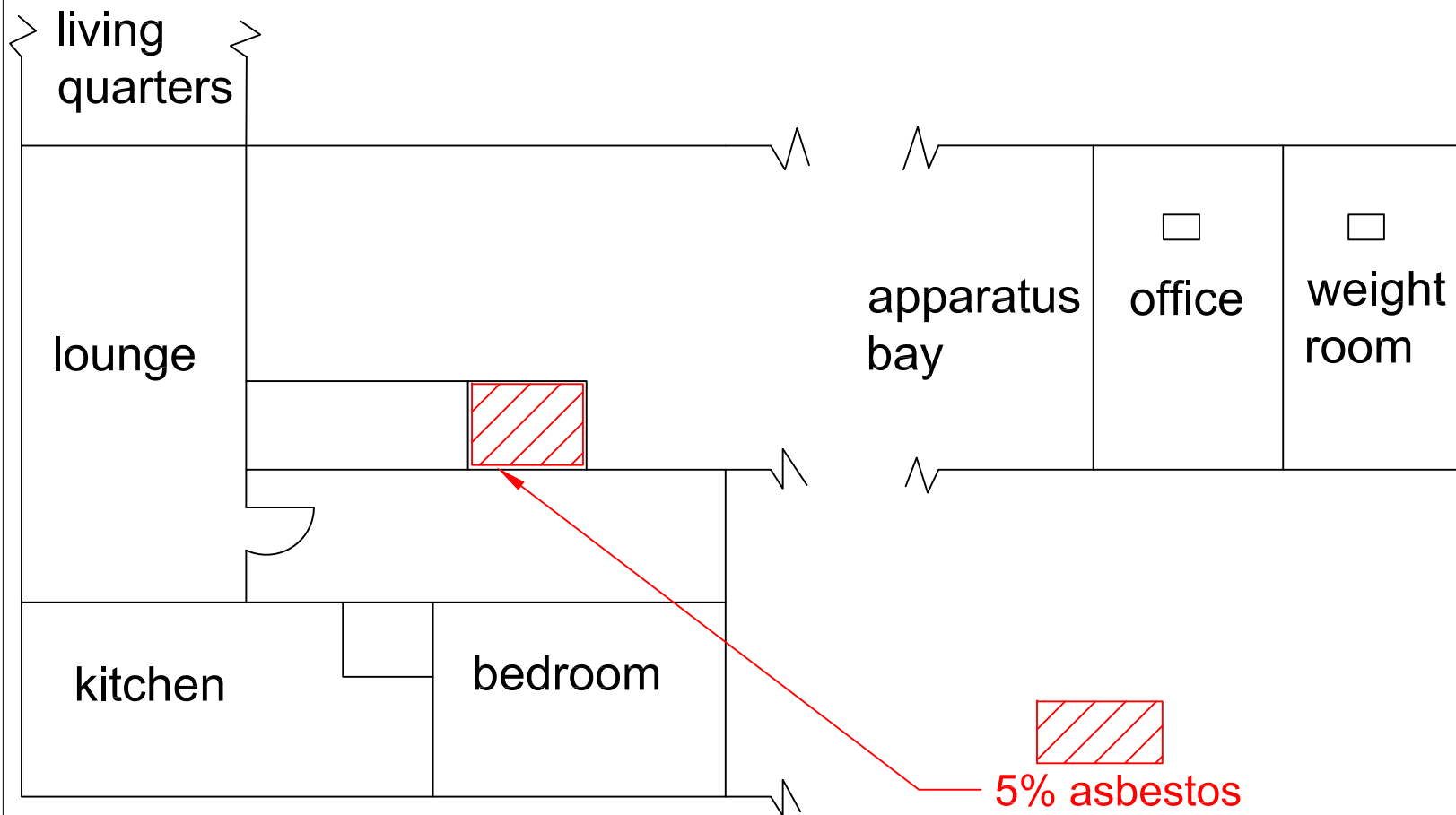


Brown 12" tile and mastic – 5% asbestos



White ceiling paint (lead containing) and beige wall paint (lead based).

Lead containing white ceiling paint and
Lead based beige wall paint throughout.



5% asbestos
12" Brown FT/ Mastic



Figure 1: Materials Location
Fire Station #4
5205 Calle Mayor
Torrance, CA, 90505

Firm Name and Address

Ellis Environmental Mgmt, Inc.
430 Silver Spur Rd., Suite 201
Rancho Palos Verdes, CA 90275

Client Name and Address

City of Torrance
Fire Station #4
3031 Torrance Blvd.
Torrance, CA, 90503

Project #

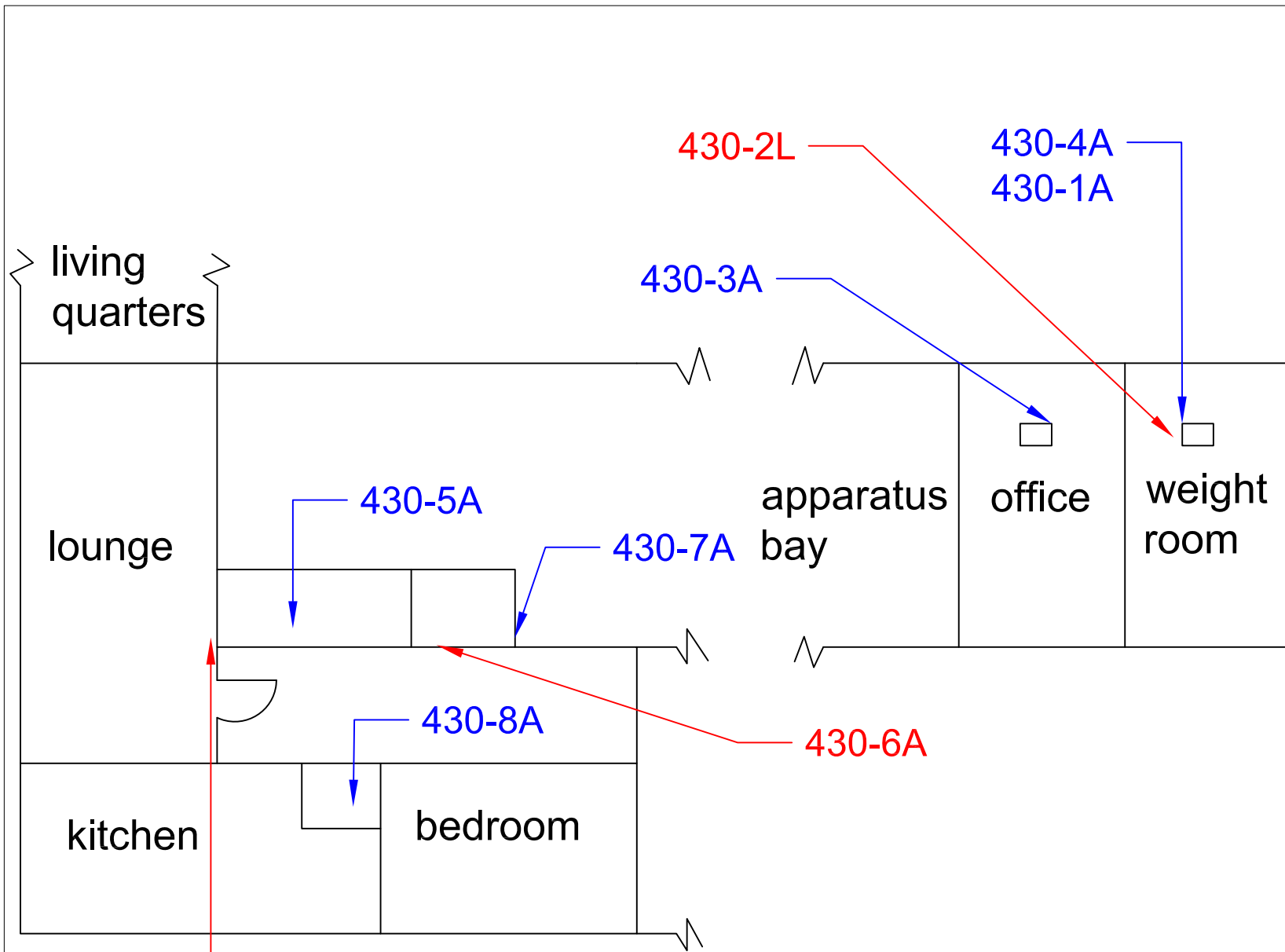
17-430

Date
10/10/2017

Sheet

1 of 2

Ellis



Red sample locations indicate asbestos or lead containing paint or lead based paint.



Figure 2: Sample Locations
Fire Station #4
 5205 Calle Mayor
 Torrance, CA, 90505

Firm Name and Address
 Ellis Environmental Mgmt, Inc.
 430 Silver Spur Rd., Suite 201
 Rancho Palos Verdes, CA 90275

Client Name and Address
 City of Torrance
 Fire Station #4
 3031 Torrance Blvd.
 Torrance, CA, 90503

Project # 17-430	Sheet
Date 10/10/2017	2 of 2
Ellis	



AmeriSci Los Angeles

24416 S. Main Street, Ste 308
Carson, California 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

PLM Bulk Asbestos Report

Ellis Environmental Management, Inc.
Attn: Duane Behrens
430 Silver Spur Road
Suite 201
Rancho Palos Verdes, CA 90275

Date Received 10/04/17
Date Examined 10/06/17

AmeriSci Job # 917101091

P.O. #

Page 1 **of** 2

RE: 17-430; Torrance; Fire Station #4

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
430-1A Location: Ceiling Plaster Analyst Description: Beige/Grey, Heterogeneous, Non-Fibrous, Cementitious, Plaster Asbestos Types: Other Material: Non-fibrous 100 %	917101091-01	No	NAD (by CVES) by Thu M. Nguyen on 10/06/17
430-3A Location: Ceiling Plaster Analyst Description: Beige/Grey, Heterogeneous, Non-Fibrous, Cementitious, Plaster Asbestos Types: Other Material: Non-fibrous 100 %	917101091-02	No	NAD (by CVES) by Thu M. Nguyen on 10/06/17
430-4A Location: Button Board Analyst Description: Off-White, Heterogeneous, Fibrous, Button Board Asbestos Types: Other Material: Cellulose 5 %, Non-fibrous 95 %	917101091-03	No	NAD (by CVES) by Thu M. Nguyen on 10/06/17
430-5A Location: Ceiling Plaster Analyst Description: Beige/Grey, Heterogeneous, Non-Fibrous, Cementitious, Plaster Asbestos Types: Other Material: Non-fibrous 100 %	917101091-04	No	NAD (by CVES) by Thu M. Nguyen on 10/06/17
430-6A Location: 12" Brown Ft / Mastic Analyst Description: Brown, Homogeneous, Non-Fibrous, Floor Tile Asbestos Types: Other Material: Non-fibrous 100 %	917101091-05L1	No	NAD (by CVES) by Thu M. Nguyen on 10/06/17

Client Name: Ellis Environmental Management, Inc.

PLM Bulk Asbestos Report

17-430; Torrance; Fire Station #4

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
430-6A Location: 12" Brown Ft / Mastic	917101091-05L2	Yes	5 % (by CVES) by Thu M. Nguyen on 10/06/17
Analyst Description: Black, Heterogeneous, Fibrous, Mastic Asbestos Types: Chrysotile 5.0 % Other Material: Non-fibrous 95 %			
430-7A Location: Smooth Wall Plaster	917101091-06	No	NAD (by CVES) by Thu M. Nguyen on 10/06/17
Analyst Description: White/Grey, Heterogeneous, Non-Fibrous, Cementitious, Plaster Asbestos Types: Other Material: Non-fibrous 100 %			
430-8A Location: Brown RSF	917101091-07	No	NAD (by CVES) by Thu M. Nguyen on 10/06/17
Analyst Description: Tan/Brown, Heterogeneous, Fibrous, Sheet Flooring Asbestos Types: Other Material: Cellulose 15 %, Non-fibrous 85 %			

Reporting Notes:

Analyzed By: Thu M. Nguyen *Thu M. Nguyen*; Date Analyzed: 10/6/2017 *10.6.17*
 *NAD = no asbestos detected; Detection Limit <4%; Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; NA = not analyzed; NA/PS = not analyzed / positive stop; NVA = No Visible Asbestos; PLM (polarized light microscopy) Bulk Asbestos Analysis by EPA 600/R-93/116, including requirements for EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab #200346-0, CA ELAP lab #2322); Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full with the approval of the laboratory. This PLM report relates ONLY to the items tested.

Reviewed By: *at alda*



AmeriSci Los Angeles

24416 S. Main Street, Ste 308
Carson, California 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

AmeriSci Job #: 417101036

Date Received: 10/04/17

Date Analyzed: 10/09/17

Lead Analysis Results

Paint

EPA Method 3050B/7000B

Ellis Environmental Management, Inc.

Rancho Palos Verdes, CA

Job Site: 17-430; Torrance; Fire Station #4

AmeriSci #	Client Number	Sample Location	% Lead (w/w)	Lead Content (mg/kg = ppm)
417101036				
01	430-2L	White Ceiling Paint	0.026	260
02	430-9L	Beige Wall Paint	0.060	600

AmeriSci Reporting Limit is 0.01%, or 100mg/kg prior to any dilutions due to high analyte concentrations or matrix interferences. AmeriSci does not correct sample results by the blank value. All analytical batch data met quality control criteria unless otherwise noted. CA ELAP No. 2322.

Reviewed by: _____

Analyzed by: Soheir Galess
Soheir Galess, Chemist [mp]

Ellis Environmental Management, Inc.

430 Silver Spur Road, Suite 201
 Rancho Palos Verdes, CA 90275
 (310) 544-1837 (tel)
 (310) 544-2167 (fax)

Project No.: 17-430

Sampler: RD/SB

Client: Torrance

Location: Fire Station #4

CHAIN OF CUSTODY RECORD

Sheet ___ of ___

917101091

Sample Number	Description	Date	Time	H2O	Air	Solid	Tests Required
430-1A	Ceiling Plaster	10/4	PM			✓	PLM - ASBESTOS
430-3A	↓ ↓	↓	↓			↓	
430-4A	Button board	↓	↓			↓	
430-5A	Ceiling Plaster	↓	↓			↓	
430-6A	12" Brown FT/mastic	↓	↓			↓	
430-7A	smooth wall Plaster	↓	↓			↓	
430-8A	Brown RSF	↓	↓			↓	
430-2L	white ceiling Paint	↓	↓			↓	FLAME - AAS
430-9L	Beige wall Paint	↓	↓			↓	↓ ↓

Turnaround: ___ same day ___ 24 hrs. ___ 48 hrs. 3 days ___ 5 days (Standard)

Special Instructions:

Date	Relinquished By	Received By	Date
10-4-17	<i>[Signature]</i>	<i>[Signature]</i>	10/4/17 @ 1330

LEAD HAZARD EVALUATION REPORT

Section 1 — Date of Lead Hazard Evaluation _____

Section 2 — Type of Lead Hazard Evaluation (Check one box only)

Lead Inspection Risk assessment Clearance Inspection Other (specify) _____

Section 3 — Structure Where Lead Hazard Evaluation Was Conducted

Address [number, street, apartment (if applicable)]		City	County	Zip Code
Construction date (year) of structure	Type of structure <input type="checkbox"/> Multi-unit building <input type="checkbox"/> School or daycare <input type="checkbox"/> Single family dwelling <input type="checkbox"/> Other _____		Children living in structure? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't Know	


Section 4 — Owner of Structure (if business/agency, list contact person)

Name		Telephone number		
Address [number, street, apartment (if applicable)]		City	State	Zip Code

Section 5 — Results of Lead Hazard Evaluation (check all that apply)

No lead-based paint detected
 Intact lead-based paint detected
 Deteriorated lead-based paint detected
 No lead hazards detected
 Lead-contaminated dust found
 Lead-contaminated soil found
 Other _____

Section 6 — Individual Conducting Lead Hazard Evaluation

Name		Telephone number		
Address [number, street, apartment (if applicable)]		City	State	Zip Code
CDPH certification number	Signature 		Date	

Name and CDPH certification number of any other individuals conducting sampling or testing (if applicable)

Section 7 — Attachments

- A. A foundation diagram or sketch of the structure indicating the specific locations of each lead hazard or presence of lead-based paint;
- B. Each testing method, device, and sampling procedure used;
- C. All data collected, including quality control data, laboratory results, including laboratory name, address, and phone number.

First copy and attachments retained by inspector
 Second copy and attachments retained by owner

Third copy only (no attachments) mailed or faxed to:
 California Department of Public Health
 Childhood Lead Poisoning Prevention Branch Reports
 850 Marina Bay Parkway, Building P, Third Floor
 Richmond, CA 94804-6403
 Fax: (510) 620-5656

March 12, 2019

Mr. Steve Minor
City of Torrance
3031 Torrance Blvd.
Torrance, CA 90503

**RE: *Bulk Sampling for Asbestos and Lead
Fire Station #4
5205 Calde Mayor, Torrance, CA 90505***

I. *Executive Summary*

On February 26, 2019, Ellis conducted an inspection for possible asbestos- and lead-containing materials at the subject site. Samples were collected prior to planned renovation activities in the **kitchen, dormitory and rec room (only)**. See drawings for sample locations. Results are summarized below:

- **Asbestos (2% Chrysotile) was detected in mastic under sheet flooring in the kitchen.** Good condition. Non-friable. Approx. 230 s.f.
- **No asbestos was detected in** plaster walls, carpet glue and ceiling tiles. See Table 1 for a complete list of sampled materials.
- **Lead-based paint (0.075% by wt.) was found on dorm and recreational area walls.** Samples of white wall paint in the kitchen were non-lead containing.

In a building of this age, asbestos may also be present in mastic behind mirrors, pipe insulation behind walls and above ceilings, and in sub-surface asbestos-cement pipe (“Transite”®). These materials were inaccessible on the date of testing.

2. *Methodology*

All samples were collected by Sarah Covert (CAC #18-6220), (CDPH I/A #30042), an EPA course-certified building inspector employed by Ellis. Each sample was placed in a sealed container and provided with a unique identifying number. Samples were transported to Amerisci Group, an NVLAP – accredited laboratory in Carson, CA (NVLAP Code: 200346-0), and analyzed by the following methods:

Asbestos.

Polarized Light Microscopy (PLM). Results expressed in percent of measured area.

Lead in Paint.

Flame AAS (SW 846 EPA Method 3050B/7000B). Results expressed in percent by weight.

3. **Inaccessible Areas**

Only client-specified locations were sampled. (See drawings attached). No walls or ceilings were demolished to gain complete visual access. There is a chance that additional suspect materials (e.g. pipe insulation above hard ceilings) may be exposed during renovation or demolition efforts. Such materials, if not identified in this report, should be sampled and analyzed prior to disturbance.

4. **Results**

Refer to the attached drawing and laboratory analysis reports.

Asbestos

- **Asbestos (2% Chrysotile) was detected in sheet flooring/mastic in the kitchen.**
- **No asbestos was detected in** plaster walls, carpet glue and ceiling tiles. See Table 1 for a complete list of sampled materials.

Assumed Asbestos Materials. No interior demolition was performed during this sampling effort. Initiate interior demolition carefully, looking for the following materials which MAY also be present:

- Thermal pipe insulation (TSI). Location: thermal systems pipe wrap, inner walls and sub-ceiling spaces. Friable. Condition and quantity unknown.
- Mirror mastic. Location: restrooms, wherever mirrors are present. Non-friable. Condition and quantity unknown.
- Transite pipe (AC pipe). Location: kitchen vents, underground lines, boiler rooms and building vents. Non-friable. Condition and quantity unknown.

Lead

- **White wall paint in the dorms and recreational area is lead-based (0.075% by wt.).** Disturbance of lead-based paints – particularly those efforts involving manual demolition, mechanical abrasion, torching or cutting – should be performed by a licensed abatement contractor.
- **No lead was detected** in samples collected from white wall paint in the kitchen.

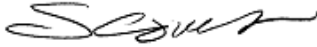
5. **Statement of Independence**

Ellis is a privately-held company and is not affiliated with any financial institution or other corporate entity. Ellis is retained as an independent contractor to provide objective, impartial investigation or analytical services regarding environmentally regulated hazardous or toxic materials. This report is not an endorsement or rejection of any specific methods used in handling or transport of potentially hazardous chemicals. Nor is intended as a complete hazardous materials survey of the entire building or facility. Ellis provides independent testing for asbestos, lead, indoor air contaminants and other potentially hazardous materials. The company and its employees are certified and licensed to practice in the State of California. Retained laboratories are accredited by the EPA (AREAL), NIOSH (AIHA), and the California

Air Resources Board (CARB).

Respectfully,
ELLIS ENVIRONMENTAL MANAGEMENT, INC.

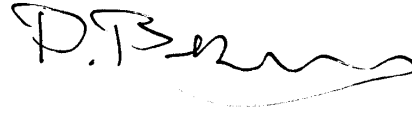
Prepared by:



Sarah Covert
Manager, Industrial Hygiene
CAC #18-6220
CDPH I/A #30042

Proj. No.: 19-099

Reviewed by:



Duane Behrens
President, Environmental Professional
CAC #92-0226
CDPH #7914



Asbestos containing floor mastic and sheet flooring in the kitchen.

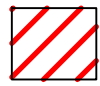


White wall paint in the dorm and rec. room is lead-based.

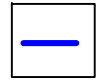
<u>MATERIAL</u>	<u>MATERIAL LOCATION</u>	<u>REF.</u>	<u>FRIABLE</u>	<u>DAMAGE</u>	<u>% ASB</u>	<u>QTY*</u>	<u>UNIT</u>
<u>IDENTIFIED ASBESTOS MATERIALS</u>							
sheet flooring and mastic	kitchen	A15, A16, A17	no	none	2%	230	s.f.
mirror mastic	restrooms, wherever mirrors are present	-	no	-	assumed	-	s.f.
thermal pipe insulation (TSI)	pipe wrap - inner wall spaces, sub ceiling space	-	yes	-	assumed	-	s.f.
transite pipe (AC pipe)	underground lines, building vents, inner wall spaces	-	no	-	assumed	-	s.f.
<u>NON-ASBESTOS MATERIALS</u>							
2'x 4' lay-in ceiling tiles	throughout	A1, A2, A3	-	-	ND	-	s.f.
plaster walls and button board	throughout	A4, A5, A6, A7, A8	-	-	ND	-	s.f.
cove base and glue	throughout	A9, A10, A11	-	-	ND	-	s.f.
carpet glue	dorms, recreational area	A12, A13, A14	-	-	ND	-	s.f.
ceiling plaster and button board	kitchen	A18, A19, A20	-	-	ND	-	s.f.

Table 1
Results Summary - Asbestos
Fire Station #4
5205 Calle Mayor
Torrance, CA 90505

Sample Date: Feb. 26, 2019
Proj. #19-099



Red hatch shows asbestos-containing mastic under sheet flooring.



Blue lines show lead-based wall paint.

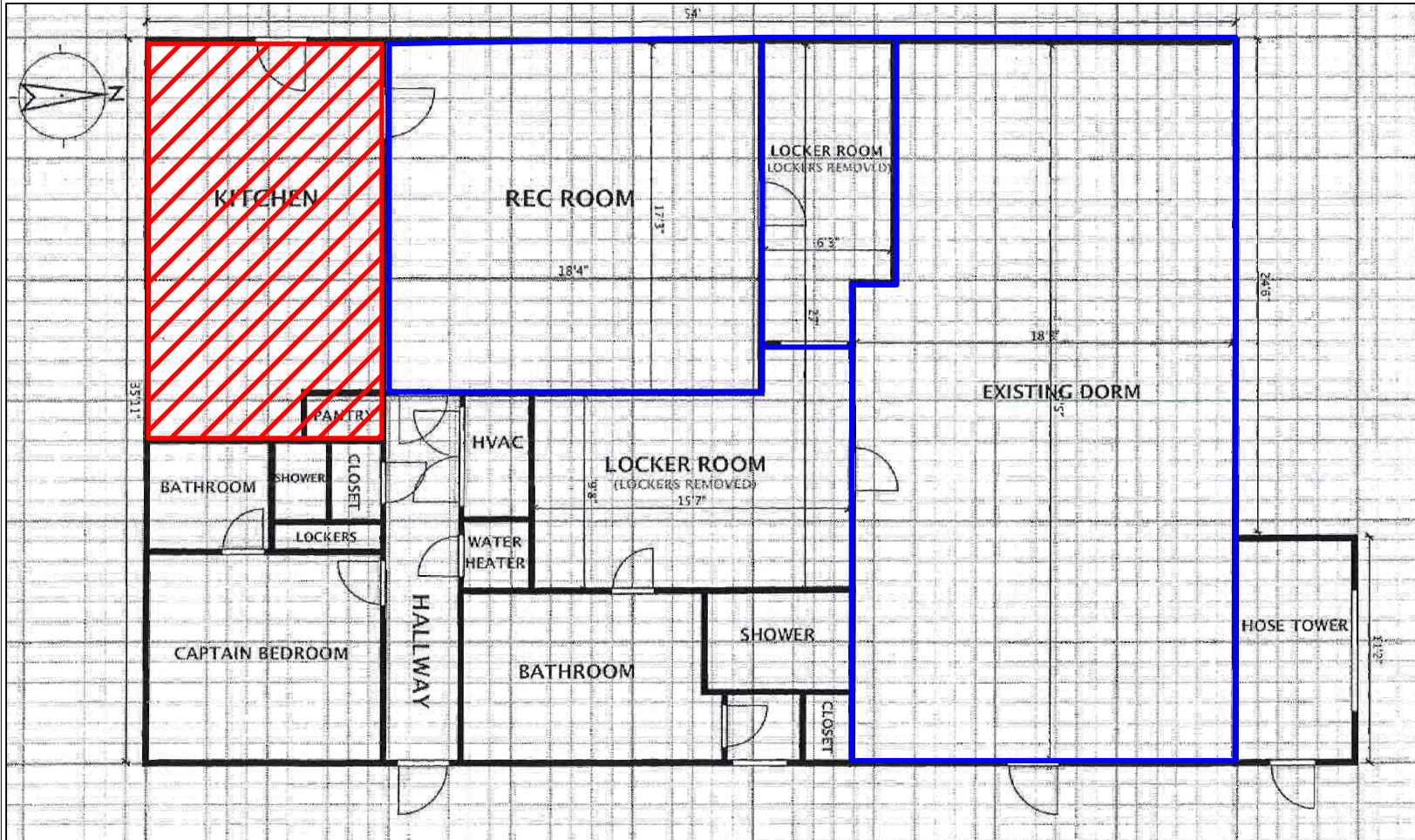


Figure 1: Material Locations

Torrance Fire Station #4

5205 Calle Mayor

Torrance, CA 90505

Firm Name and Address

Ellis Environmental Mgmt, Inc.
430 Silver Spur Rd., Suite 201
Rancho Palos Verdes, CA 90275

Client Name and Address

City of Torrance
3031 Torrance Blvd.
Torrance, CA 90503

Project #

19-099

Date

03/14/2019

Sheet

1 of 1

Ellis



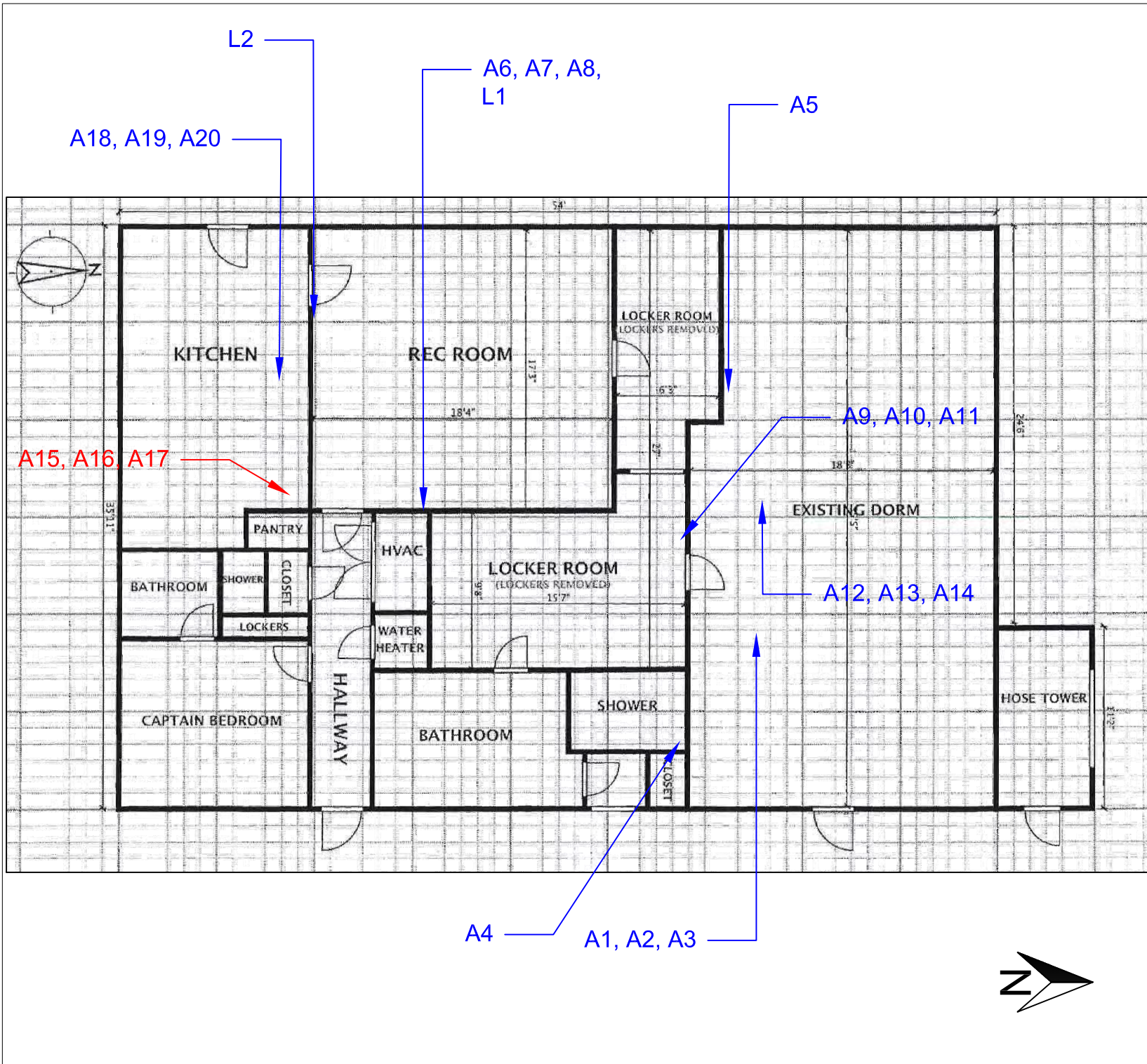


Figure 2: Sample Locations
 Torrance Fire Station #4
 5205 Calle Mayor
 Torrance, CA 90505

Firm Name and Address
 Ellis Environmental Mgmt, Inc.
 430 Silver Spur Rd., Suite 201
 Rancho Palos Verdes, CA 90275

Client Name and Address
 City of Torrance
 3031 Torrance Blvd.
 Torrance, CA 90503

Project #	19-099	Sheet
Date	03/12/2019	1 of 1
Ellis		



PLM Bulk Asbestos Report

Ellis Environmental Management, Inc.
Attn: Duane Behrens
430 Silver Spur Road
Suite 201
Rancho Palos Verdes, CA 90275

Date Received 02/26/19

Date Examined 03/05/19

RE: 19-099; Torrance; FS #4

AmeriSci Job # 919021874

P.O. #

Page 1 **of** 6

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
A1 01 Location: 2x4 Ceiling Tiles	919021874-01	No	NAD (by CVES) by Paola Ducoing on 03/05/19
Analyst Description: White/Grey, Homogeneous, Fibrous, Ceiling Tile			
Asbestos Types:			
Other Material: Cellulose 55 %, Fibrous glass 15 %, Non-fibrous 30 %			
A2 01 Location: 2x4 Ceiling Tiles	919021874-02	No	NAD (by CVES) by Paola Ducoing on 03/05/19
Analyst Description: White/Grey, Homogeneous, Fibrous, Ceiling Tile			
Asbestos Types:			
Other Material: Cellulose 55 %, Fibrous glass 15 %, Non-fibrous 30 %			
A3 01 Location: 2x4 Ceiling Tiles	919021874-03	No	NAD (by CVES) by Paola Ducoing on 03/05/19
Analyst Description: White/Grey, Homogeneous, Fibrous, Ceiling Tile			
Asbestos Types:			
Other Material: Cellulose 55 %, Fibrous glass 15 %, Non-fibrous 30 %			
A4 02 Location: Wall Plaster / b.b.	919021874-04	No	NAD (by CVES) by Paola Ducoing on 03/05/19
Analyst Description: Beige, Heterogeneous, Non-Fibrous, Cementitious, Plaster			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
Comment: Button board not submitted.			

Client Name: Ellis Environmental Management, Inc.

PLM Bulk Asbestos Report

19-099; Torrance; FS #4

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
A5 02 Location: Wall Plaster / b.b.	919021874-05	No	NAD (by CVES) by Paola Ducoing on 03/05/19
Analyst Description: Beige, Heterogeneous, Non-Fibrous, Cementitious, Plaster Asbestos Types: Other Material: Non-fibrous 100 % Comment: Button board not submitted.			
A6 02 Location: Wall Plaster / b.b.	919021874-06	No	NAD (by CVES) by Paola Ducoing on 03/05/19
Analyst Description: Beige, Homogeneous, Non-Fibrous, Plaster Asbestos Types: Other Material: Non-fibrous 100 % Comment: Button board not submitted.			
A7 02 Location: Wall Plaster / b.b.	919021874-07	No	NAD (by CVES) by Paola Ducoing on 03/05/19
Analyst Description: White/Brown, Homogeneous, Fibrous, Button Board Asbestos Types: Other Material: Cellulose 15 %, Non-fibrous 85 % Comment: Plaster not submitted.			
A8 02 Location: Wall Plaster / b.b.	919021874-08	No	NAD (by CVES) by Paola Ducoing on 03/05/19
Analyst Description: Beige, Heterogeneous, Non-Fibrous, Cementitious, Plaster Asbestos Types: Other Material: Non-fibrous 100 % Comment: Button board not submitted.			
A9 03 Location: Cove Base / Glue	919021874-09L1	No	NAD (by CVES) by Paola Ducoing on 03/05/19
Analyst Description: Black, Homogeneous, Non-Fibrous, Cove Base Asbestos Types: Other Material: Non-fibrous 100 %			

Client Name: Ellis Environmental Management, Inc.

PLM Bulk Asbestos Report

19-099; Torrance; FS #4

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
A9 03	919021874-09L2 Location: Cove Base / Glue	No	NAD (by CVES) by Paola Ducoing on 03/05/19
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Glue Asbestos Types: Other Material: Non-fibrous 100 %			
A10 03	919021874-10L1 Location: Cove Base / Glue	No	NAD (by CVES) by Paola Ducoing on 03/05/19
Analyst Description: Black, Homogeneous, Non-Fibrous, Cove Base Asbestos Types: Other Material: Non-fibrous 100 %			
A10 03	919021874-10L2 Location: Cove Base / Glue	No	NAD (by CVES) by Paola Ducoing on 03/05/19
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Glue Asbestos Types: Other Material: Non-fibrous 100 %			
A11 03	919021874-11L1 Location: Cove Base / Glue	No	NAD (by CVES) by Paola Ducoing on 03/05/19
Analyst Description: Black, Homogeneous, Non-Fibrous, Cove Base Asbestos Types: Other Material: Non-fibrous 100 %			
A11 03	919021874-11L2 Location: Cove Base / Glue	No	NAD (by CVES) by Paola Ducoing on 03/05/19
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Glue Asbestos Types: Other Material: Non-fibrous 100 %			
A12 04	919021874-12 Location: Carpet Glue	No	NAD (by CVES) by Paola Ducoing on 03/05/19
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Carpet Glue Asbestos Types: Other Material: Non-fibrous 100 %			

Client Name: Ellis Environmental Management, Inc.

PLM Bulk Asbestos Report

19-099; Torrance; FS #4

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
A13 04 Location: Carpet Glue	919021874-13	No	NAD (by CVES) by Paola Ducoing on 03/05/19
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Carpet Glue Asbestos Types: Other Material: Non-fibrous 100 %			
A14 04 Location: Carpet Glue	919021874-14	No	NAD (by CVES) by Paola Ducoing on 03/05/19
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Carpet Glue Asbestos Types: Other Material: Non-fibrous 100 %			
A15 05 Location: Sheet Flooring	919021874-15L1	No	NAD (by CVES) by Paola Ducoing on 03/05/19
Analyst Description: Brown/Grey, Heterogeneous, Fibrous, Sheet Flooring Asbestos Types: Other Material: Cellulose 20 %, Synthetic fibers 5 %, Non-fibrous 75 %			
A15 05 Location: Sheet Flooring	919021874-15L2	Yes	2 % (by CVES) by Paola Ducoing on 03/05/19
Analyst Description: Black/Yellow, Heterogeneous, Non-Fibrous, Mastic Asbestos Types: Chrysotile 2.0 % Other Material: Non-fibrous 98 %			
A16 05 Location: Sheet Flooring	919021874-16L1	No	NAD (by CVES) by Paola Ducoing on 03/05/19
Analyst Description: Brown/Grey, Heterogeneous, Fibrous, Sheet Flooring Asbestos Types: Other Material: Cellulose 20 %, Synthetic fibers 5 %, Non-fibrous 75 %			
A16 05 Location: Sheet Flooring	919021874-16L2		NA/PS
Analyst Description: Mastic Asbestos Types: Other Material:			

Client Name: Ellis Environmental Management, Inc.

PLM Bulk Asbestos Report

19-099; Torrance; FS #4

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
A17 05 Location: Sheet Flooring	919021874-17L1	No	NAD (by CVES) by Paola Ducoing on 03/05/19
Analyst Description: Brown/Grey, Heterogeneous, Fibrous, Sheet Flooring Asbestos Types: Other Material: Cellulose 20 %, Synthetic fibers 5 %, Non-fibrous 75 %			
A17 05 Location: Sheet Flooring	919021874-17L2		NA/PS
Analyst Description: Mastic Asbestos Types: Other Material:			
A18 06 Location: Ceiling Plaster / bb	919021874-18	No	NAD (by CVES) by Paola Ducoing on 03/05/19
Analyst Description: White, Homogeneous, Non-Fibrous, Plaster Asbestos Types: Other Material: Non-fibrous 100 % Comment: Button board not submitted.			
A19 06 Location: Ceiling Plaster / bb	919021874-19	No	NAD (by CVES) by Paola Ducoing on 03/05/19
Analyst Description: Off-White, Homogeneous, Non-Fibrous, Plaster Asbestos Types: Other Material: Non-fibrous 100 % Comment: Button board not submitted.			
A20 06 Location: Ceiling Plaster / bb	919021874-20	No	NAD (by CVES) by Paola Ducoing on 03/05/19
Analyst Description: Off-White, Homogeneous, Non-Fibrous, Plaster Asbestos Types: Other Material: Non-fibrous 100 % Comment: Button board not submitted.			

Ellis Environmental Management, Inc.

430 Silver Spur Road, Suite 201
 Rancho Palos Verdes, CA 90275
 (310) 544-1837 (tel)
 (310) 544-2167 (fax)

Project No.: 19-099

Sampler: SC

Client: Torrance

Location: FS. #4

CHAIN OF CUSTODY RECORD

Sheet 1 of 2

919021874

Sample Number	Description	Date	Time	H2O	Air	Solid	Tests Required
A1	2x4 ceiling tiles	2/26	am			✓	PLM Asbestos
A2	↓ ↓ ↓	↓	↓	↓	↓	↓	↓
A3	↓ ↓ ↓	↓	↓	↓	↓	↓	↓
A4	wall plaster/b.b.	↓	↓	↓	↓	↓	↓
A5	↓ ↓ ↓	↓	↓	↓	↓	↓	↓
A6	↓ ↓ ↓	↓	↓	↓	↓	↓	↓
A7	↓ ↓ ↓	↓	↓	↓	↓	↓	↓
A8	↓ ↓ ↓	↓	↓	↓	↓	↓	↓
A9	cove base / glue	↓	↓	↓	↓	↓	↓
A10	↓ ↓	↓	↓	↓	↓	↓	↓
A11	↓ ↓	↓	↓	↓	↓	↓	↓
A12	Carpet Glue	↓	↓	↓	↓	↓	↓

← + stop
 ← + stop
 ← + stop
 ← + stop

Turnaround: same day 24 hrs. 48 hrs. 3 days 5 days (Standard)

Special Instructions: Stop at 1st positive layer - ALL SAMPLES

Date	Relinquished By	Received By	Date
Feb. 26, 2019			2/26/19 11:10

Ellis Environmental Management, Inc.

430 Silver Spur Road, Suite 201
 Rancho Palos Verdes, CA 90275
 (310) 544-1837 (tel)
 (310) 544-2167 (fax)

Project No.: 19-099

Sampler: SC

Client: Torrance

Location: F.S. #4

CHAIN OF CUSTODY RECORD

Sheet 2 of 2


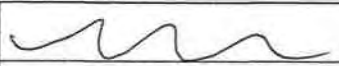
919021874

Sample Number	Description	Date	Time	H2O	Air	Solid	Tests Required
A13	Carpet Glue	2/26	am			✓	PLM Asbestos
A14	" "	↓	↓			↓	↓
A15	Sheet flooring						
A16	↓ ↓						
A17	↓ ↓						
A18	Ceiling plaster / bb						
A19	↓ ↓ ↓						
A20	↓ ↓ ↓						
L1	White wall paint - dorm						Flame AAS Lead
L2	White wall paint - Kitchen	↓	↓			↓	" "

← + stop
 ← + stop
 ← + stop

Turnaround: same day 24 hrs. 48 hrs. 3 days 5 days (Standard)

Special Instructions: stop at first positive layer - All Asbestos Samples

Date	Relinquished By	Received By	Date
2/26/19			2/26/19 11:10



AmeriSci Los Angeles

24416 S. Main Street, Ste 308
Carson, California 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

AmeriSci Job #: 419021276

Date Received: 02/26/19
Date Analyzed: 03/02/19

Lead Analysis Results

Paint

EPA Method 3050B/7000B


Ellis Environmental Management, Inc.

Rancho Palos Verdes, CA

Job Site: 19-099; Torrance; F.S. #4

AmeriSci #	Client Number	Sample Location	% Lead (w/w)	Lead Content (mg/kg = ppm)
419021276				
01	L1	White Wall Paint - Dorm	0.075	750
02	L2	White Wall Paint - Kitchen	<0.01	<100

AmeriSci Reporting Limit is 0.01%, or 100mg/kg prior to any dilutions due to high analyte concentrations or matrix interferences. AmeriSci does not correct sample results by the blank value. All analytical batch data met quality control criteria unless otherwise noted.

Reviewed by: 

Analyzed by: 
Thu M. Nguyen

Ellis Environmental Management, Inc.

430 Silver Spur Road, Suite 201
 Rancho Palos Verdes, CA 90275
 (310) 544-1837 (tel)
 (310) 544-2167 (fax)

Project No.: 19-099

Client: Torrance

Location: F.S. #4

Sampler: SC

Sheet 2 of 2

CHAIN OF CUSTODY RECORD

Δ190212Ab

Sample Number	Description	Date	Time	H2O	Air	Solid	Tests Required
A13	Carpet Glue	2/26	am			✓	PLM Asbestos
A14	" "						
A15	Sheet flooring						
A16	↓ ↓						
A17	↓ ↓						
A18	Ceiling plaster /bb						
A19	↓ ↓ ↓						
A20	↓ ↓ ↓						
L1	White wall paint - dorm						Flame AAS Lead
L2	White wall paint - Kitchen						" "

← + stop
← + stop
← + stop

Turnaround: same day 24 hrs. 48 hrs. 3 days 5 days (Standard)

Special Instructions: stop at first positive layer - All Asbestos Samples

Date	Relinquished By	Received By	Date
2/26/19			2/26/19 11:10

March 31, 2021

Mr. Gary McCoy
City of Torrance
3031 Torrance Blvd.
Torrance, CA 90503

Certified Asbestos Inspector Name: shawn sokolsky CSST #: 18-6177 Certification Expiration Date: May 15, 2021 Date of Sampling Report: March 26, 2021 Phone Number: 310 544 1837 Email Address: shawnsokolsky@ellisenvironmental.com

**RE: *Bulk Sampling for Asbestos and Lead
City of Torrance - Fire Station #4 - Roof
5205 Calle Mayor Torrance, CA 90505***

1. Executive Summary

On March 17, 2021, Ellis conducted bulk sampling for possible asbestos- and lead-containing materials on the roof of Fire Station #4. Sampling and inspections were performed prior to planned re-roofing efforts. Results of the sampling are summarized below.

- **Asbestos was detected** in sampled flashing and pedestal mastic located on the center roof only. (2% chrysotile) in both materials. See attached photos and Table 1.
- No lead at regulated levels was detected in blue flashing paint and gray gate paint on roof.

See Figure 1 and 2 for material locations and sample locations. The removal of asbestos- and lead-containing materials is regulated by SCAQMD Rule 1403, Cal/OSHA Title 8 § 1529, Cal/OSHA Title 8 § 1532.1, and their federal regulatory counterparts.

2. Methodology

All samples were collected by Shawn Sokolsky (CSST #18-6177, CDPH #4975) and Sarah Covert (CAC #18-6220, CDPH #4412) both EPA-accredited building inspector employed by Ellis. Each sample was placed in a sealed container and provided with a unique identifying number. Samples were transported to an EPA/NVLAP – accredited laboratory and analyzed by the following methods as appropriate for the sampled material:

- **Asbestos.** 40 CFR Part 763, Subpart F, Appendix A. (AHERA Final Rule). Results expressed in percent of measured area.
- **Lead in Paint.** Flame AAS (SW 846 EPA method 3050B/7000B). Results expressed by percent by weight.

3. Inaccessible Areas

Samples were collected from Fire Station #4 roof materials only. No access was given to high roof on the west roof. This report is not intended as a hazardous materials survey of any entire building or facility. There is a chance that additional suspect materials (e.g. pipe insulation above hard ceilings, underground AC pipe, etc.) may be exposed during renovation, demolition or grading efforts. Such materials, if not identified in this report, should be sampled and analyzed prior to disturbance.

4. Results

See below and refer to the attached drawing and laboratory analysis reports.

Asbestos:

Asbestos (2% chrysotile) was detected in sampled flashing mastic and pedestal mastic located on the center roof only. On the date of the inspection, the mastic was in good condition and was adhered to a metal and wood substrate. See Table 1 for a complete list of sampled materials. No asbestos was detected in other sampled materials, which included the main roofing field and parapet felts.

Removal of any material containing asbestos in an amount greater than one percent is regulated under EPA-SCAQMD Rule 1403, 29 CFR 1926.1101 (federal OSHA) and other state and local guidelines. Removal of any material containing asbestos in an amount greater than 0.1 percent is also regulated, under Cal-OSHA Title 8 Section 1529. Removal and or clean-up of damaged asbestos-containing materials requires that work be performed by an abatement contractor under an SCAQMD approved Procedure 5 work plan. Prior to any renovation or demolition, retain a licensed abatement contractor to remove asbestos materials identified. Initiate renovation or demolition carefully, as older original materials may also be exposed during renovation or demolition practices. If not identified in this report they should be sampled prior to disturbance.

Lead:

No lead was detected in blue flashing paint or gray gate paint on Fire Station #4 roof. No special lead-related precautions are required for this material.

5. Statement of Independence

Ellis is a privately held company and is not affiliated with any financial institution or other corporate entity. Ellis is retained as an independent contractor to provide objective, impartial investigation or analytical services regarding environmentally regulated hazardous or toxic materials. This report is not an endorsement or rejection of any specific methods used in handling or transport of potentially hazardous chemicals. Nor is intended as a complete hazardous materials survey of the entire building or facility. Ellis provides independent testing for asbestos, lead, indoor air contaminants and other potentially hazardous materials. The company and its employees are certified and licensed to practice in the State of California. Retained laboratories are accredited by the EPA (AREAL), NIOSH (AIHA), and the California Air Resources Board (CARB).

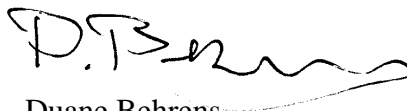
ELLIS ENVIRONMENTAL MANAGEMENT, INC.

Prepared by:



Shawn Sokolsky
Industrial Hygienist
CSST #18-6177
CDPH #4975

Reviewed by:



Duane Behrens
President, Environmental Professional
CAC #92-0226
CDPH #4899

Proj. No.: 21-063

Distribution: Gary McCoy

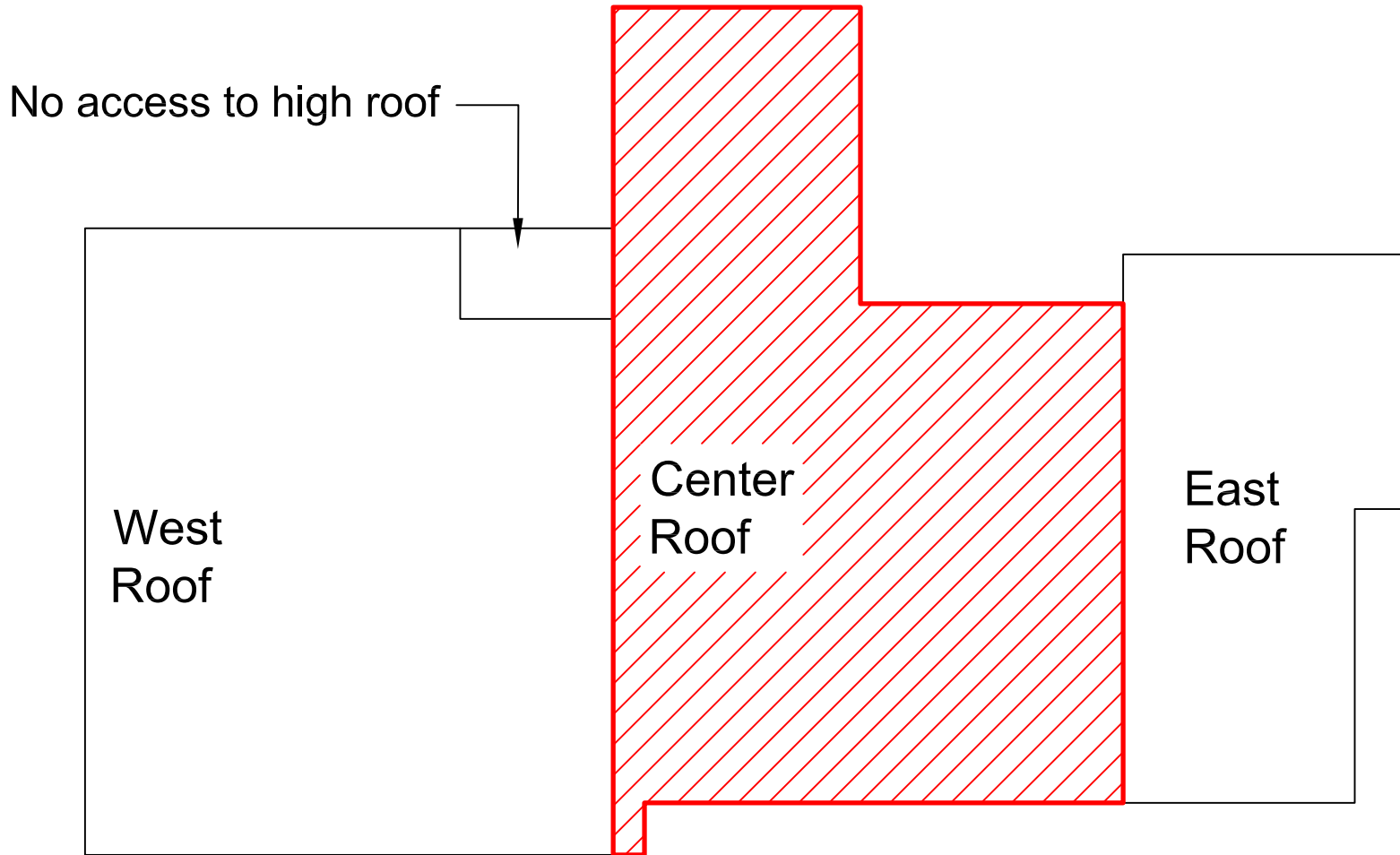
<u>REF.</u>	<u>MATERIAL</u>	<u>MATERIAL LOCATION</u>	<u>FRIABLE</u>	<u>DAMAGE</u>	<u>% ASB</u>	<u>QTY*</u>	<u>UNIT</u>
<u>IDENTIFIED ASBESTOS MATERIALS</u>							
CFM-1, CFM-2, CFM-3	center roof - flashing mastic	center roof	no	no	2%	40	SF
CRPed-1, CRPed-2, CRPed-3	center roof - pedestal mastic	center roof	no	no	2%	50	SF
<u>NON-ASBESTOS MATERIALS</u>							
WRC-1, WRC-2, WRC_3	west roof - roof core	see drawing	-	-	ND	-	-
Wpen-1, Wpen-2, Wpen-3	west roof - penetration mastic	see drawing	-	-	ND	-	-
WRPM-1, WRPM-2, WRPM-3	west roof - patch mastic	see drawing	-	-	ND	-	-
WRPed-1, WRPed-2, WRPed-3	west roof - pedestals	see drawing	-	-	ND	-	-
WRP-1, WRP-2, WRP-3	west roof - parapet mastic	see drawing	-	-	ND	-	-
CRC-1, CRC-2, CRC-3	center roof - roof core	see drawing	-	-	ND	-	-
CPen-1, CPen-2, CPen-3	center roof - penetration mastic	see drawing	-	-	ND	-	-
CRPM-1, CRPM-2, CRPM-3	center roof - patch mastic	see drawing	-	-	ND	-	-
CRCC-1, CRCC-2, CRCC-3	center roof - cement cover cap	see drawing	-	-	ND	-	-
CRP-1, CRP-2, CRP-3	center roof - parapet	see drawing	-	-	ND	-	-
ERC-1, ERC-2, ERC-3	east roof - roof core	see drawing	-	-	ND	-	-
Epen-1, Epen-2, Epen-3	east roof - penetration	see drawing	-	-	ND	-	-
EPA-1, EPA-2, EPA-3	east roof - patch mastic	see drawing	-	-	ND	-	-
EBM-1, EBM-2, EBM-3	east roof - block mastic	see drawing	-	-	ND	-	-
ERP-1, ERP-2, ERP-3	east roof -parapet	see drawing	-	-	ND	-	-
ERPed-1, ERPed-2, ERPed-3	east roof - pedestal	see drawing	-	-	ND	-	-

Table 1
Results Summary - Asbestos
Fire Station #4
City of Torrance

Sample Date:
March 17, 2021
Proj. #21-063



* Red lines and hatch notes asbestos flashing mastic and pedestal mastic located on center roof.



**Figure 1: Material Locations
City of Torrance - Fire Station #4
5205 Calle Mayor
Torrance, CA 90505**

Firm Name and Address

Ellis Environmental Mgmt, Inc.
430 Silver Spur Rd., Suite 201
Rancho Palos Verdes, CA 90275

Client Name and Address

City of Torrance
Fire Station #4
3031 Torrance Blvd.
Torrance, CA 90503

Project #

21-063

Sheet

Date
3/17/2021

1 of 1

Ellis

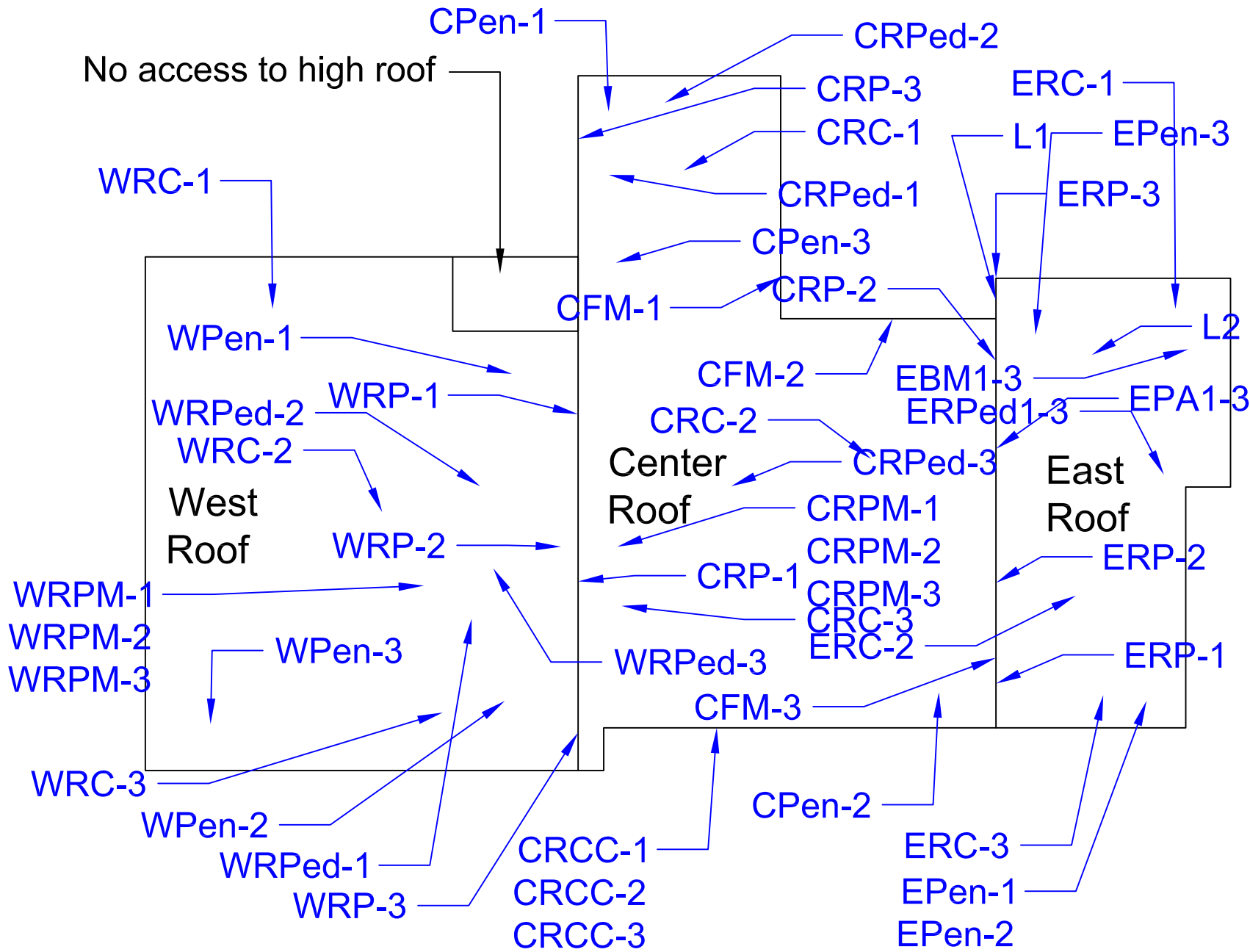


Figure 2: Sample Locations
City of Torrance - Fire Station #4
 5205 Calle Mayor
 Torrance, CA 90505

Firm Name and Address
 Ellis Environmental Mgmt, Inc.
 430 Silver Spur Rd., Suite 201
 Rancho Palos Verdes, CA 90275

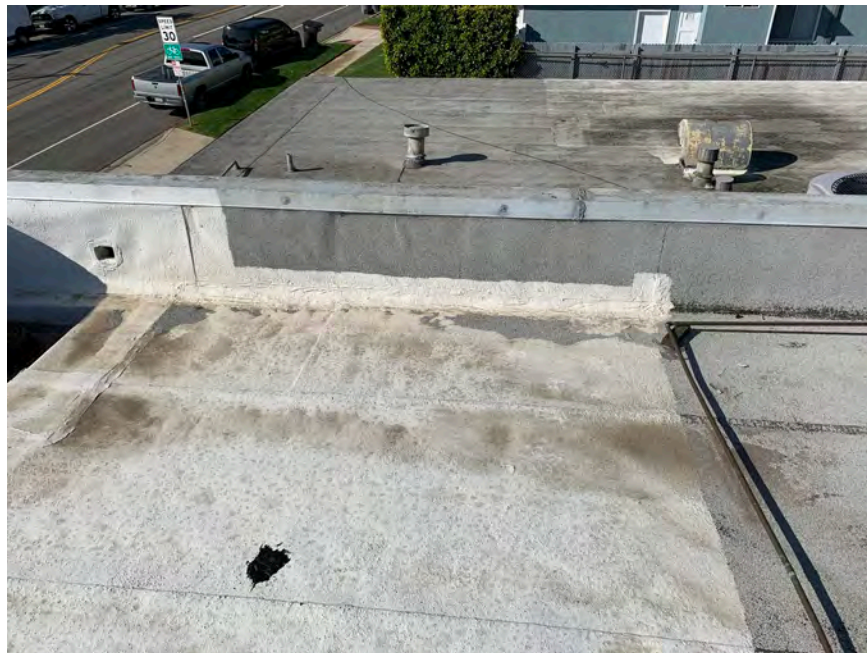
Client Name and Address
 City of Torrance
 Fire Station #4
 3031 Torrance Blvd.
 Torrance, CA 90503

Project #	21-063	Sheet	
Date	3/17/2021		1 of 1
Ellis			

Photos:



ACM flashing mastic and pedestal mastic – center roof.



ACM flashing mastic – center roof.



ACM pedestal mastic – center roof.



Non-lead blue flashing paint.



Non-lead gray gate paint.



AmeriSci Los Angeles

24416 S. Main Street, Ste 308
Carson, California 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

PLM Bulk Asbestos Report

Ellis Environmental Management, Inc.
Attn: Duane Behrens
430 Silver Spur Road
Suite 201
Rancho Palos Verdes, CA 90275

Date Received 03/17/21
Date Examined 03/23/21

AmeriSci Job # 921031502
P.O. #
Page 1 **of** 10

RE: 21-063; City Of Torrance; Fire Station #4, 5205 Calle Mayor,
Torrance, CA

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WRC-1 Location: West Roof - Roof Core Analyst Description: Grey/Black, Heterogeneous, Fibrous, Roofing Asbestos Types: Other Material: Fibrous glass 10 %, Non-fibrous 90 %	921031502-01	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
WRC-2 Location: West Roof - Roof Core Analyst Description: Grey/Black, Heterogeneous, Fibrous, Roofing Asbestos Types: Other Material: Fibrous glass 10 %, Non-fibrous 90 %	921031502-02	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
WRC-3 Location: West Roof - Roof Core Analyst Description: Grey/Black, Heterogeneous, Fibrous, Roofing Asbestos Types: Other Material: Fibrous glass 10 %, Non-fibrous 90 %	921031502-03	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
WPEN-01 Location: West Roof - Penetration Mastic Analyst Description: Grey/Black, Homogeneous, Non-Fibrous, Penetration Mastic Asbestos Types: Other Material: Non-fibrous 100 %	921031502-04	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
WPEN-02 Location: West Roof - Penetration Mastic Analyst Description: Silver/Black, Homogeneous, Fibrous, Penetration Mastic Asbestos Types: Other Material: Non-fibrous 100 %	921031502-05	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21

PLM Bulk Asbestos Report

21-063; City Of Torrance; Fire Station #4, 5205 Calle Mayor,
Torrance, CA

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WPEN-03 Location: West Roof - Penetration Mastic	921031502-06	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
Analyst Description: Silver/Black, Homogeneous, Fibrous, Penetration Mastic			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
WRPM-1 Location: West Roof - Patch Mastic	921031502-07	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
Analyst Description: Grey/Black, Homogeneous, Non-Fibrous, Penetration Mastic			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
WRPM-2 Location: West Roof - Patch Mastic	921031502-08	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
Analyst Description: Grey/Black, Homogeneous, Non-Fibrous, Penetration Mastic			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
WRPM-3 Location: West Roof - Patch Mastic	921031502-09	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
Analyst Description: Silver/Black, Homogeneous, Non-Fibrous, Roofing Mastic			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
WRPed-1 Location: West Roof - Pedestals	921031502-10	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
Analyst Description: Grey/Black, Heterogeneous, Fibrous, Roofing			
Asbestos Types:			
Other Material: Fibrous glass 20 %, Non-fibrous 80 %			
WRPed-2 Location: West Roof - Pedestals	921031502-11	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
Analyst Description: Grey/Black, Heterogeneous, Non-Fibrous, Roofing			
Asbestos Types:			
Other Material: Fibrous glass 20 %, Non-fibrous 80 %			

Client Name: Ellis Environmental Management, Inc.

PLM Bulk Asbestos Report21-063; City Of Torrance; Fire Station #4, 5205 Calle Mayor,
Torrance, CA

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WRPed-3 Location: West Roof - Pedestals	921031502-12	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
Analyst Description: Grey/Black, Heterogeneous, Fibrous, Roofing			
Asbestos Types:			
Other Material: Fibrous glass 20 %, Non-fibrous 80 %			
WRP-1 Location: West Roof - Parapet Mastic	921031502-13	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
Analyst Description: Grey/Black, Heterogeneous, Fibrous, Roofing Mastic			
Asbestos Types:			
Other Material: Fibrous glass 20 %, Non-fibrous 80 %			
WRP-2 Location: West Roof - Parapet Mastic	921031502-14	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
Analyst Description: Grey/Black, Heterogeneous, Fibrous, Roofing Mastic			
Asbestos Types:			
Other Material: Fibrous glass 20 %, Non-fibrous 80 %			
WRP-3 Location: West Roof - Parapet Mastic	921031502-15	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
Analyst Description: Grey/Black, Heterogeneous, Fibrous, Roofing Mastic			
Asbestos Types:			
Other Material: Fibrous glass 20 %, Non-fibrous 80 %			
CRC-1 Location: Center Roof - Roof Core	921031502-16	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
Analyst Description: Grey/Black, Heterogeneous, Fibrous, Roofing			
Asbestos Types:			
Other Material: Fibrous glass 20 %, Non-fibrous 80 %			
CRC-2 Location: Center Roof - Roof Core	921031502-17	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
Analyst Description: Grey/Black, Heterogeneous, Fibrous, Roofing			
Asbestos Types:			
Other Material: Fibrous glass 20 %, Non-fibrous 80 %			

Client Name: Ellis Environmental Management, Inc.

PLM Bulk Asbestos Report21-063; City Of Torrance; Fire Station #4, 5205 Calle Mayor,
Torrance, CA

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
CRC-3 Location: Center Roof - Roof Core	921031502-18	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
Analyst Description: Grey/Black, Heterogeneous, Fibrous, Roofing			
Asbestos Types:			
Other Material: Fibrous glass 20 %, Non-fibrous 80 %			
CFM-1 Location: Center Roof - Flashing Mastic	921031502-19	Yes	2 % (by CVES) by Thu M. Nguyen on 03/23/21
Analyst Description: Tan/Black, Heterogeneous, Fibrous, Flashing Mastic			
Asbestos Types: Chrysotile 2.0 %			
Other Material: Non-fibrous 98 %			
CFM-2 Location: Center Roof - Flashing Mastic	921031502-20	Yes	2 % (by CVES) by Thu M. Nguyen; on 03/23/21
Analyst Description: Tan/Black, Heterogeneous, Non-Fibrous, Fabric Mastic			
Asbestos Types: Chrysotile 2.0 %			
Other Material: Non-fibrous 98 %			
CFM-3 Location: Center Roof - Flashing Mastic	921031502-21	Yes	2 % (by CVES) by Thu M. Nguyen on 03/23/21
Analyst Description: Tan/Black, Heterogeneous, Fibrous, Flashing Mastic			
Asbestos Types: Chrysotile 2.0 %			
Other Material: Non-fibrous 98 %			
CPen-1 Location: Center Roof - Penetration Mastic	921031502-22	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
Analyst Description: Black, Heterogeneous, Non-Fibrous, Penetration Mastic			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
CPen-2 Location: Center Roof - Penetration Mastic	921031502-23	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
Analyst Description: Black, Heterogeneous, Non-Fibrous, Penetration Mastic			
Asbestos Types:			
Other Material: Non-fibrous 100 %			

Client Name: Ellis Environmental Management, Inc.

PLM Bulk Asbestos Report21-063; City Of Torrance; Fire Station #4, 5205 Calle Mayor,
Torrance, CA

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
CPen-3 Location: Center Roof - Penetration Mastic Analyst Description: Black, Heterogeneous, Non-Fibrous, Penetration Mastic Asbestos Types: Other Material: Non-fibrous 100 %	921031502-24	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
CRPM-1 Location: Center Roof - Patch Mastic Analyst Description: Black, Homogeneous, Non-Fibrous, Roofing Mastic Asbestos Types: Other Material: Non-fibrous 100 %	921031502-25	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
CRPM-2 Location: Center Roof - Patch Mastic Analyst Description: Black, Homogeneous, Non-Fibrous, Roofing Mastic Asbestos Types: Other Material: Non-fibrous 100 %	921031502-26	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
CRPM-3 Location: Center Roof - Patch Mastic Analyst Description: Black, Homogeneous, Non-Fibrous, Roofing Mastic Asbestos Types: Other Material: Non-fibrous 100 %	921031502-27	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
CRCC-1 Location: Center Roof - Cement Cover Cap Analyst Description: Black, Homogeneous, Non-Fibrous, Roofing Asbestos Types: Other Material: Non-fibrous 100 %	921031502-28	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
CRCC-2 Location: Center Roof - Cement Cover Cap Analyst Description: Black, Homogeneous, Non-Fibrous, Roofing Asbestos Types: Other Material: Non-fibrous 100 %	921031502-29	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21

Client Name: Ellis Environmental Management, Inc.

PLM Bulk Asbestos Report21-063; City Of Torrance; Fire Station #4, 5205 Calle Mayor,
Torrance, CA

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
CRCC-3 Location: Center Roof - Cement Cover Cap	921031502-30	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
Analyst Description: Black, Homogeneous, Non-Fibrous, Roofing			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
CRPed-1 Location: Center Roof - Pedestal	921031502-31	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
Analyst Description: Brown/Black, Heterogeneous, Fibrous, Roofing			
Asbestos Types:			
Other Material: Cellulose 30 %, Fibrous glass 5 %, Non-fibrous 65 %			
CRPed-2 Location: Center Roof - Pedestal	921031502-32	Yes	2 % (by CVES) by Thu M. Nguyen on 03/23/21
Analyst Description: Black, Heterogeneous, Fibrous, Roofing			
Asbestos Types: Chrysotile 2.0 %			
Other Material: Non-fibrous 98 %			
CRPed-3 Location: Center Roof - Pedestal	921031502-33	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
Analyst Description: Black, Heterogeneous, Non-Fibrous, Roofing			
Asbestos Types:			
Other Material: Fibrous glass 5 %, Non-fibrous 95 %			
CRP-1 Location: Center Roof - Parapet	921031502-34	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
Analyst Description: Black, Heterogeneous, Fibrous, Roofing			
Asbestos Types:			
Other Material: Fibrous glass 5 %, Non-fibrous 95 %			
CRP-2 Location: Center Roof - Parapet	921031502-35	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
Analyst Description: Black, Heterogeneous, Fibrous, Roofing			
Asbestos Types:			
Other Material: Fibrous glass 20 %, Non-fibrous 80 %			

Client Name: Ellis Environmental Management, Inc.

PLM Bulk Asbestos Report21-063; City Of Torrance; Fire Station #4, 5205 Calle Mayor,
Torrance, CA

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
CRP-3 Location: Center Roof - Parapet Analyst Description: Black, Heterogeneous, Fibrous, Roofing Asbestos Types: Other Material: Fibrous glass 20 %, Non-fibrous 80 %	921031502-36	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
ERC-1 Location: East Roof - Roof Core Analyst Description: Beige/Black, Heterogeneous, Fibrous, Roofing Asbestos Types: Other Material: Fibrous glass 20 %, Non-fibrous 80 %	921031502-37	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
ERC-2 Location: East Roof - Roof Core Analyst Description: Beige/Black, Heterogeneous, Fibrous, Roofing Asbestos Types: Other Material: Fibrous glass 20 %, Non-fibrous 80 %	921031502-38	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
ERC-3 Location: East Roof - Roof Core Analyst Description: Beige/Black, Heterogeneous, Fibrous, Roofing Asbestos Types: Other Material: Fibrous glass 20 %, Non-fibrous 80 %	921031502-39	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
EPen-1 Location: East Roof - Penetration Mastic Analyst Description: Black, Homogeneous, Non-Fibrous, Penetration Mastic Asbestos Types: Other Material: Non-fibrous 100 %	921031502-40	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
EPen-2 Location: East Roof - Penetration Mastic Analyst Description: Black, Homogeneous, Non-Fibrous, Penetration Mastic Asbestos Types: Other Material: Non-fibrous 100 %	921031502-41	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21

Client Name: Ellis Environmental Management, Inc.

PLM Bulk Asbestos Report21-063; City Of Torrance; Fire Station #4, 5205 Calle Mayor,
Torrance, CA

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
EPen-3 Location: East Roof - Penetration Mastic Analyst Description: Black, Homogeneous, Non-Fibrous, Penetration Mastic Asbestos Types: Other Material: Non-fibrous 100 %	921031502-42	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
EPA-1 Location: East Roof - Patch Mastic Analyst Description: Black, Homogeneous, Non-Fibrous, Roofing Mastic Asbestos Types: Other Material: Non-fibrous 100 %	921031502-43	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
EPA-2 Location: East Roof - Patch Mastic Analyst Description: Black, Homogeneous, Non-Fibrous, Roofing Mastic Asbestos Types: Other Material: Non-fibrous 100 %	921031502-44	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
EPA-3 Location: East Roof - Patch Mastic Analyst Description: Black, Homogeneous, Non-Fibrous, Roofing Mastic Asbestos Types: Other Material: Non-fibrous 100 %	921031502-45	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
EBM-1 Location: East Roof - Black Mastic Analyst Description: Black, Homogeneous, Non-Fibrous, Roofing Mastic Asbestos Types: Other Material: Non-fibrous 100 %	921031502-46	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
EBM-2 Location: East Roof - Black Mastic Analyst Description: Black, Homogeneous, Non-Fibrous, Roofing Mastic Asbestos Types: Other Material: Non-fibrous 100 %	921031502-47	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21

Client Name: Ellis Environmental Management, Inc.

PLM Bulk Asbestos Report

21-063; City Of Torrance; Fire Station #4, 5205 Calle Mayor,
Torrance, CA

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
EBM-3 Location: East Roof - Black Mastic	921031502-48	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
Analyst Description: Black, Homogeneous, Non-Fibrous, Roofing Mastic			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
ERP-1 Location: East Roof - Parapet	921031502-49	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
Analyst Description: Black, Heterogeneous, Fibrous, Parapet			
Asbestos Types:			
Other Material: Fibrous glass 20 %, Non-fibrous 80 %			
ERP-2 Location: East Roof - Parapet	921031502-50	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
Analyst Description: Black, Heterogeneous, Fibrous, Parapet			
Asbestos Types:			
Other Material: Fibrous glass 20 %, Non-fibrous 80 %			
ERP-3 Location: East Roof - Parapet	921031502-51	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
Analyst Description: Black, Heterogeneous, Fibrous, Parapet			
Asbestos Types:			
Other Material: Fibrous glass 20 %, Non-fibrous 80 %			
ERPed-1 Location: East Roof - Pedestal	921031502-52	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
Analyst Description: Black, Heterogeneous, Fibrous, Roofing			
Asbestos Types:			
Other Material: Synthetic fibers 5 %, Non-fibrous 95 %			
ERPed-2 Location: East Roof - Pedestal	921031502-53	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
Analyst Description: Black, Heterogeneous, Fibrous, Roofing			
Asbestos Types:			
Other Material: Synthetic fibers 5 %, Non-fibrous 95 %			

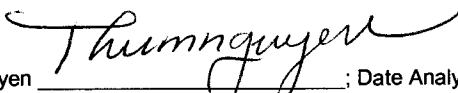
Client Name: Ellis Environmental Management, Inc.

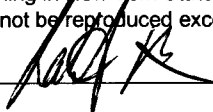
PLM Bulk Asbestos Report

21-063; City Of Torrance; Fire Station #4, 5205 Calle Mayor,
Torrance, CA

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
ERPed-3 Location: East Roof - Pedestal	921031502-54	No	NAD (by CVES) by Thu M. Nguyen on 03/23/21
Analyst Description: Black, Heterogeneous, Fibrous, Roofing Asbestos Types: Other Material: Cellulose 30 %, Fibrous glass 5 %, Non-fibrous 65 %			

Reporting Notes:

Analyzed By: Thu M. Nguyen ; Date Analyzed: 3/23/2021 3.23.21
 *NAD = no asbestos detected; Detection Limit <1%; Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; NA = not analyzed; NA/PS = not analyzed / positive stop; NVA = No Visible Asbestos; PLM (polarized light microscopy) Bulk Asbestos Analysis by EPA 600/R-93/116, including requirements for EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab #200346-0); Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full with the approval of the laboratory. This PLM report relates ONLY to the items tested.

Reviewed By: 

Ellis ENVIRONMENTAL MANAGEMENT INC.

430 Silver Spur Road, Suite 201
 Rancho Palos Verdes, CA 90275
 (310) 544-1837 (tel)
 (310) 544-2167 (fax)

021031502

Project No.: 21-063

Sampler: ss/sc

Client: City of Torrance

Location: Fire Station #4
5205 Calle Mayor, Torrance, CA


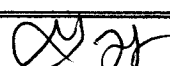
Sheet 1 of 5

CHAIN OF CUSTODY RECORD

Sample Number	Description	Date	Time	H2O	Air	Solid	Stop At First Positive Layer	Tests Required
WRC-1	West Roof-Roof Core	3/17/21	AM			✓	✓	Asbestos - PLM
WRC-2	↓							
WRC-3	↓							
WPC-1	West Roof - Penetration mastic							
WPC-2	↓							
WPC-3	↓							
WRPM-1	Roof West Roof - Patch mastic							
WRPM-2	↓							
WRPM-3	↓							
WRP-1	West Roof - Pedestals							
WRP-2	↓							
WRP-3	↓							

Turnaround: same day 24 hrs. 48 hrs. 3 days 5 days (Standard) 2 weeks

Special Instructions:

Date	Time	Relinquished By	Received By
3/17/21	11:40		 3/17/21 11:45

#1

021031502

Project No.: 21-063

430 Silver Spur Road, Suite 201
 Rancho Palos Verdes, CA 90275
 (310) 544-1837 (tel)
 (310) 544-2167 (fax)

Sampler: ss/sc

Client: City of Torrance

Location: Fire station #4
5205 Calle Mayor, Torrance, CA

Sheet 2 of 5

CHAIN OF CUSTODY RECORD

Sample Number	Description	Date	Time	H2O	Air	Solid	Stop At First Positive Layer	Tests Required
WAP-1	West Roof Paragard mastic	3/17/21	AM			✓	✓	Asbestos - PLM
WAP-2	↓							
WAP-3	↓							
CRC-1	Center Roof - Roof Core							
CRC-2	↓							
CRC-3	↓							
CFM-1	Center roof - flashing mastic							
CFM-2	↓							
CFM-3	↓							
CPen-1	Center Roof - Penetration mastic							
CPen-2	↓							
CPen-3	↓							

Turnaround: same day 24 hrs. 48 hrs. 3 days 5 days (Standard) 2 weeks

Special Instructions:

Date	Time	Relinquished By	Received By
3/17/21	11:40		3/17/21 @ 11:45

FI

Project No.: 21-063

430 Silver Spur Road, Suite 201
 Rancho Palos Verdes, CA 90275
 (310) 544-1837 (tel)
 (310) 544-2167 (fax)

Sampler: SS/SC

Client: City of Torrance

Location: Fire Station #4
5208 Calle Mayor, Torrance, CA

Sheet 3 of 5

CHAIN OF CUSTODY RECORD

Sample Number	Description	Date	Time	H2O	Air	Solid	Stop At First Positive Layer	Tests Required
CRPM-1	Center Roof- Patch mastic	3/17/11	AM			✓	✓	Asbestos- PCM
CRPM-2	↓							
CRPM-3	↓							
CRCC-1	Center Roof- Cement Cover Cap							
CRCC-2	↓							
CRCC-3	↓							
CRPed-1	Center Roof- Pedestal							
CRPed-2	↓							
CRPed-3	↓							
CRP-1	Center Roof- Parapet							
CRP-2	↓							
CRP-3	↓							

Turnaround: same day 24 hrs. 48 hrs. 3 days 5 days (Standard) 2 weeks

Special Instructions:

Date	Time	Relinquished By	Received By
3/17/11	11:40	~ ~	~ 3/17/11 e 11:45

Ellis ENVIRONMENTAL MANAGEMENT INC.

021031502

430 Silver Spur Road, Suite 201
 Rancho Palos Verdes, CA 90275
 (310) 544-1837 (tel)
 (310) 544-2167 (fax)

Project No.: 21-063

Sampler: SS/SC

Client: City of Torrance

Location: Fire Station #4
5205 Calle Mayor Torrance, CA

Sheet 4 of 5

CHAIN OF CUSTODY RECORD

Sample Number	Description	Date	Time	H2O	Air	Solid	Stop At First Positive Layer	Tests Required
ERC-1	East Roof- Roof Core	3/17/11	Am			✓	✓	Asbestos-PLM
ERC-2	↓							
ERC-3								
EPen-1	East Roof- Penetration Mastic							
EPen-2	↓							
EPen-3								
EPA-1	East Roof- Patch mastic							
EPA-2	↓							
EPA-3								
EBM-1	East Roof- Block mastic							
EBM-2	↓							
EBM-3								

Turnaround: same day 24 hrs. 48 hrs. 3 days 5 days (Standard) 2 weeks

Special Instructions:

Date	Time	Relinquished By	Received By
3/17/11	11:45	~ ~	SS/SC 3/17/21c 11:45

El

Project No.: 21-063

430 Silver Spur Road, Suite 201
Rancho Palos Verdes, CA 90275
(310) 544-1837 (tel)
(310) 544-2167 (fax)

Sampler: SS/SC

Client: City of Torrance

Location: Fire station #4
5205 Calle Mayor Torrance, CA

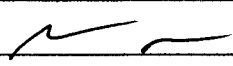
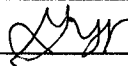
Sheet 5 of 5

CHAIN OF CUSTODY RECORD

Sample Number	Description	Date	Time	H2O	Air	Solid	Stop At First Positive Layer	Tests Required
ERP-1	East Roof- Parapet	3/17/14	Am			✓	✓	Asbestos- PLM
ERP-2	↓	↓	↓			↓	↓	
ERP-3								
ERPed-1	East Roof- Pedestal							
ERPed-2	↓						↓	
ERPed-3								
L-1	East Roof- Gray metal wall paint							Lead- Flame AAS
L-2	Blue flashing paint							↓

Turnaround: same day 24 hrs. 48 hrs. 3 days 5 days (Standard) 2 weeks

Special Instructions:

Date	Time	Relinquished By	Received By
3/17/14	11:45		 3/17/2014 11:45



Laboratory Report

Report Date: 3/22/2021
 Workorder No: 421031206

Customer: **Ellis Environmental Management, Inc.**
 430 Silver Spur Road, Suit 201
 Rancho Palos Verdes, CA 90275

Attention: Duane Behrens

Subject: **21-063; City Of Torrance, Fire Station #4, 5205 Calle Mayor, Torrance, CA**

Sample 1: L-1 Description: East Roof - Gray Metal Wall Paint
 Collection Date: 03/17/2021 Received Date: 03/17/2021 Time: 11:45:00
 Matrix: Solid

<u>Parameter</u>	<u>Method</u>	<u>Results</u>	<u>Unit</u>	<u>PQL</u>	<u>Tech</u>	<u>Analysis Date</u>	<u>Qual</u>
Lead, Solid, ICP	EPA 3050B/6010B	0.00090	wt%	0.00050	MP	3/21/2021	

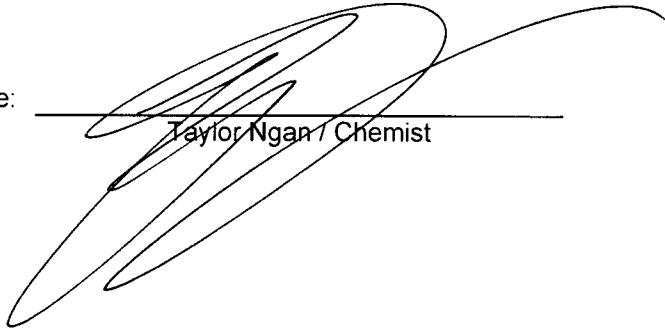
Sample 2: L-2 Description: Blue Flashing Paint
 Collection Date: 03/17/2021 Received Date: 03/17/2021 Time: 11:45:00
 Matrix: Solid

<u>Parameter</u>	<u>Method</u>	<u>Results</u>	<u>Unit</u>	<u>PQL</u>	<u>Tech</u>	<u>Analysis Date</u>	<u>Qual</u>
Lead, Solid, ICP	EPA 3050B/6010B	0.0029	wt%	0.00050	MP	3/21/2021	

AmeriSci Reporting Limit is represented by the PQL. The analytical results within this report relate only to the specific compounds and samples investigated, and may not necessarily reflect other apparently similar material from a similar location. This report shall not be reproduced, except in full, without the written approval of AmeriSci Los Angeles. All analytical Batch data met quality control criteria unless other wise noted.

To the best of my knowledge this report is true and accurate.

Authorized by/Title:



Taylor Ngan / Chemist

Date: 3/22/2021

42103/206

Project No.: 21-063

430 Silver Spur Road, Suite 201
 Rancho Palos Verdes, CA 90275
 (310) 544-1837 (tel)
 (310) 544-2167 (fax)

Sampler: SS/SC

Client: City of Torrance

Location: Fire station #4
5205 Calle Mayor Torrance, CA

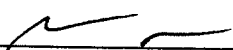
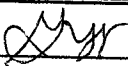
Sheet 5 of 5

CHAIN OF CUSTODY RECORD

Sample Number	Description	Date	Time	H2O	Air	Solid	Stop At First Positive Layer	Tests Required
ERP-1	East Roof - Parapet	3/17/21	AM			✓	✓	Asbestos - PLM
ERP-2	↓	↓	↓			↓	↓	
ERP-3								
ERPed-1	East Roof - Pedestal							
ERPed-2	↓							
ERPed-3								
L-1	East Roof - Gray Metal wall paint							Lead - Flame AAS
L-2	Blue flashing paint							↓

Turnaround: same day 24 hrs. 48 hrs. 3 days 5 days (Standard) 2 weeks

Special Instructions:

Date	Time	Relinquished By	Received By
3/17/21	11:45		 3/17/21 11:45

APPLICABLE REGULATIONS – ASBESTOS

Current state and federal regulations pertaining to asbestos are summarized below. The summary is not all-inclusive, and does not address specific removal or disposal requirements for individual materials.

NESHAPS

The National Emission Standard for Hazardous Air Pollutants (NESHAP), regulation 40 CFR Part 61, states that no visible emissions are allowed during building demolition or renovation activities which involve regulated asbestos-containing materials (RACMs). All buildings, regardless of construction date, must be surveyed for ACMs prior to demolition or renovation. The US EPA and/or the local air quality management district which implements US EPA actions must be notified prior to any building demolition, even if no ACMs are present. An ACM is defined as any material with an asbestos content of greater than one percent and which (a) is friable, or (b) Category I non-friable ACM that has or will become friable, or (c) Category II friable ACM that may become or will become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation.

According to NESHAP, ACM is material containing more than one percent asbestos as determined using the methods specified in Appendix A, Subpart E, 40 CFR Part 763, Section 1, PLM. The NESHAP classifies ACM as friable or non-friable. Friable ACM is ACM that contains more than one percent asbestos and when dry, can be crumbled, pulverized, or reduced to powder by hand pressure.

Non-friable ACM also contains more than one percent asbestos and is further classified as either Category I ACM or Category II ACM. The materials are distinguished by their potential to release fibers when damaged. Category I ACMs are much more likely to release fibers when damaged.

In accordance with the US EPA's NESHAP regulation, facilities planned for renovation or demolition must be surveyed for the total amount of asbestos materials, which must be categorized as friable, Category 1 non-friable, and Category 2 non-friable ACMs.

Southern California Air Quality Management District (SCAQMD)

The SCAQMD is a government agency that regulates sources of air pollution within the area of the Los Angeles and surrounding counties. The District's regulating and enforcement authority comes from federal law. In response to the NESHAP requirements, the SCAQMD implemented Rule 1403 to specify work practice requirements to limit asbestos emissions from building demolition and renovation activities, including the removal and associated disturbance of asbestos-containing materials (ACM). The requirements for demolition and renovation activities include asbestos surveying, notification, ACM removal procedures and time schedules, ACM handling and clean-up procedures, and storage, disposal, and landfilling requirements for asbestos-containing waste materials (ACWM). All operators are required to maintain records, including waste shipment records, and are required to use appropriate warning labels, signs, and markings.

AHERA

The Asbestos Hazard Emergency Response Act (AHERA) requires performance of asbestos surveys and the development of Asbestos Management Plans for all of the nation's primary and secondary schools. The general procedures mandated under AHERA are considered the industry standard and are applied to all surveys performed.

Cal-OSHA

Per Cal-OSHA standards, 1926.1101, Asbestos-Containing Construction Materials (ACCMs) are defined as any material with an asbestos content greater than one-tenth of one percent (>0.1%). Cal-OSHA sets forth work requirements for disturbance of ACCMs including removal operations for all types of ACCMs. The requirements have been classified as Class I, Class II, Class III, or Class IV Asbestos related work. The classes are distinguished by their potential to release fibers. Cal-OSHA prescribes specific engineering controls and work practices for each Class of Asbestos related Work.

1. Class I – This Class refers to removal of ACCMs identified as Thermal System Insulation (TSI) or surfacing (sprayed-on or troweled-on) materials. These materials are generally considered friable.
2. Class II – This Class refers to removal of ACCMs identified that are not TSI or surfacing materials. These materials are generally considered non-friable.
3. Class III – This Class refers to repair and maintenance operations of all identified ACCMs.
4. Class IV – This Class refers to incidental contact with identified ACCMs such as custodial staff.

California Health and Safety Code

The California Health and Safety Code 25915 (former Connolly Bill) requires all building owners in the State of California to provide written notification to employees, tenants, and contractors of the presence and location of ACCMs within their buildings. Some exclusion to the notification rule for restricted access areas is allowed. All documentation related to asbestos surveys (and air monitoring) must be made available to employees, tenants, or contractors for review. ACCMs are defined as any materials with an asbestos content greater than one-tenth of one percent (>0.1%). The California Health and Safety Code also require that a seller with any knowledge of ACCMs on a property disclose such information or knowledge to other parties involved in a real estate transaction.

Building Demolition / Renovation

In accordance with the US EPA's NESHAPs regulation and the SCAQMD, all structures planned for renovation or demolition must be surveyed for ACCMs prior to the planned renovation or demolition. Subsequent removal of identified ACCMs is also required. Removal involves, to the greatest extent practical, the complete removal, disposal, and replacement, if necessary, of the ACCMs. Removal usually also requires encapsulation of the remaining structure to lock down residual fibers which may exist. Removal of ACCMs is required prior to renovation and/or demolition activities. The US EPA and SCAQMD require removal of all RACMs prior to demolition or renovation. RACMs include friable and non-friable (Category I and II) which have or will become friable by demolition or renovation activities.

APPLICABLE REGULATIONS – LEAD

California Title 8. Industrial Relations, Division 1, Department of Industrial Relations, Chapter 4, Division of Industrial Safety, Subchapter 4, Construction Safety Orders, Article 4, Dusts, Fumes, Mists, Vapors, and Gases, §1532.1, Lead.

This section applies to all construction work where an employee may be occupationally exposed to lead. All construction work excluded from coverage in the general industry standard for lead by section 5198(a)(2) is covered by this standard. Construction work is defined as work for construction, alteration and/or repair, including painting and decorating. It includes but is not limited to the following:

- (1) Demolition or salvage of structures where lead or materials containing lead are present;
- (2) Removal or encapsulation of materials containing lead;
- (3) New construction, alteration, repair, or renovation of structures, substrates, or portions thereof, that contain lead, or materials containing lead;
- (4) Installation of products containing lead;
- (5) Lead contamination/emergency cleanup;
- (6) Transportation, disposal, storage, or containment of lead or materials containing lead on the site or location at which construction activities are performed, and
- (7) Maintenance operations associated with the construction activities described in this subsection.

California Health & Safety Code 17961 et al.

Deems a building to be in violation of state law if it contains lead hazards, and requires local enforcement agencies to enforce provisions related to lead hazards. Makes it a crime for a person to engage in specified acts related to lead hazard evaluation, abatement, and lead-related construction courses unless certified or accredited by the Department. Permits local enforcement agencies to order the abatement of lead hazards or issue a cease and desist order in response to lead hazards.

California Labor Code 6716 to 6717 Lead-Related Activities in Construction Work

Provides for the establishment of standards that protect the health and safety of employees who engage in lead-related construction work, including construction, demolition, renovation and repair.

California Code of Regulations, Title 17, Section 35001

Includes requirements for lead hazard evaluation and abatement activities, accreditation of training providers, and certification of individuals engaged in lead-based paint activities.

LEAD HAZARD EVALUATION REPORT

Section 1 — Date of Lead Hazard Evaluation _____

Section 2 — Type of Lead Hazard Evaluation (Check one box only)

Lead Inspection Risk assessment Clearance Inspection Other (specify) _____

Section 3 — Structure Where Lead Hazard Evaluation Was Conducted

Address [number, street, apartment (if applicable)]		City	County	Zip Code
Construction date (year) of structure	Type of structure <input type="checkbox"/> Multi-unit building <input type="checkbox"/> School or daycare <input type="checkbox"/> Single family dwelling <input type="checkbox"/> Other _____		Children living in structure? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't Know	


Section 4 — Owner of Structure (if business/agency, list contact person)

Name		Telephone number		
Address [number, street, apartment (if applicable)]		City	State	Zip Code

Section 5 — Results of Lead Hazard Evaluation (check all that apply)

No lead-based paint detected
 Intact lead-based paint detected
 Deteriorated lead-based paint detected
 No lead hazards detected
 Lead-contaminated dust found
 Lead-contaminated soil found
 Other _____

Section 6 — Individual Conducting Lead Hazard Evaluation

Name		Telephone number		
Address [number, street, apartment (if applicable)]		City	State	Zip Code
CDPH certification number	Signature 		Date	

Name and CDPH certification number of any other individuals conducting sampling or testing (if applicable)

Section 7 — Attachments

- A. A foundation diagram or sketch of the structure indicating the specific locations of each lead hazard or presence of lead-based paint;
- B. Each testing method, device, and sampling procedure used;
- C. All data collected, including quality control data, laboratory results, including laboratory name, address, and phone number.

First copy and attachments retained by inspector
 Second copy and attachments retained by owner

Third copy only (no attachments) mailed or faxed to:
 California Department of Public Health
 Childhood Lead Poisoning Prevention Branch Reports
 850 Marina Bay Parkway, Building P, Third Floor
 Richmond, CA 94804-6403
 Fax: (510) 620-5656