Cal Poly Humboldt.
Facilities Management

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Technical Memorandum

April 24, 2025

Cal Poly Humboldt – Humboldt Bay Aquatics Center – Asbestos and Lead Data Summary

XPL286 – HBAC Balcony Replacement Project

The California State Polytechnic University, Humboldt (Humboldt) Facilities Management (FM) Planning, Construction & Design (PDC) division collected bulk samples of suspect Asbestos Containing Material (ACM) and suspect lead materials at the Humboldt Bay Aquatics Center (HBAC) north and east exterior balconies on March 26, 2025. This memorandum summarizes the sampling survey analytical findings and provides conclusions based on these data.

Site Description

The Humboldt Bay Aquatics Center (Building 163) is located at the following street address:

- 921 Waterfront Drive, Eureka, CA 95501

The HBAC is a two-level wood-framed multiuse commercial building located along the inner reach of Humboldt Bay in Eureka, California. The HBAC was constructed in 2007 and is currently utilized by Humboldt alumni relations, athletics, recreational programs.

The project site consists of the exterior balconies extending from the east and north sides of HBAC. The balconies are supported by structural glulam beams and wooden joists. The outside edges of the balconies are supported by pressure treaded posts installed on concrete pedestals. The underside of the balconies consists of a wood-framed soffit system sheathed with fiber cement panels. The surface of the balcony includes a concrete topping slab installed over plywood. The exterior perimeters of the balconies are protected by metal guardrails. Photographs of the project site are attached (Attachment B).

Survey Description

A total 16 suspect ACM samples were collected throughout the HBAC balcony, some samples consisting of multiple unique layers of material. The samples collected at the HBAC balcony are listed in Table 1 (page 2). The location of samples collected at HBAC for this survey are depicted on the attached Sample Location Map (Figure 1, Attachment A).

The ACM sampling was conducted in general conformance with the United States Environmental Protection Agency (USEPA) National Emission Standards for Hazardous Air Pollutants (NESHAP) regulations governing facility renovation.

Sampling was conducted by Scott Harris, a FM PDC California Department of Industrial Relations, Division of Occupational Safety and Health (Cal/OSHA) Certified Asbestos Consultant (11-4713) and California Department of Public Health Lead Inspector/Assessor (LRC-00004068).

Laboratory Data

Bulk samples collected from HBAC were sent to EMSL Analytical Inc. (EMSL), an accredited laboratory located in San Leandro, California. Suspect ACM samples were analyzed for asbestos content via Polarized Light Microscopy (PLM) using USEPA Method 600/R-93-R. Suspect LBP samples were analyzed for lead content via Atomic Absorption Spectrometry (AAS) using USEPA Method 3050B/7000B. The PLM and AAS analytical reports are attached (Attachment C).

Asbestos Findings

The PLM data for samples collected at HBAC are summarized in Table 1 (below). Table 1 includes the location, material type, analytical result, and applicable regulatory designations for each sample. Samples that do not contain asbestos above the PLM laboratory detection limit are reported as non-detect (ND). Samples reported to contain asbestos are identified in Table 1 by the asbestos content (percent asbestos) and emphasized using bold text.

Table 1 – Asbestos Data Summary
Humboldt Bay Aquatics Center - Balcony

Sample Number	Location	Material	Laboratory Result	Material Category	Cal/OSHA Work Class	Waste Designation
HBAC-01	West Exterior - SE Column Footer	Concrete (Grey) + Paint (Grey/White)	ND	Not ACM or RACM	NA	Not Asbestos Waste
HBAC-02	West Exterior - SE Column Decorative Brick	CMU (Grey/Tan, Rough) + Mortar (Grey)	ND	Not ACM or RACM	NA	Not Asbestos Waste
HBAC-03	N Exterior - Center-East Column Cap Brick	Concrete Cap Brick (Dk Grey) + Mortar (Grey)	ND	Not ACM or RACM	NA	Not Asbestos Waste
HBAC-04	Interior - Boat Storage North Soffit at North Rollup	Drywall (White) + Joint Compound (White)	ND	Not ACM or RACM	NA	Not Asbestos Waste
HBAC-05	North Exterior - NW Column at Top Trim	Patch Compound (Tan) + Paint (White)	ND	Not ACM or RACM	NA	Not Asbestos Waste
HBAC-06	North Exterior - NW Column at Conc./Wood Junction	Caulk (White)	ND	Not ACM or RACM	NA	Not Asbestos Waste
HBAC-07	North Exterior - North Balcony at Entry Threshold	Caulk (Grey)	ND	Not ACM or RACM	NA	Not Asbestos Waste
HBAC-08	East Exterior - East Balcony Surface at Conc. Topper Joint at Center-North	Expansion Joint (Grey)	ND	Not ACM or RACM	NA	Not Asbestos Waste
HBAC-09	East Exterior - East Balcony South Edge at Gutter Seam	Seam Sealant (Grey)	ND	Not ACM or RACM	NA	Not Asbestos Waste
HBAC-10	North Exterior - NE/NW Balcony Junction at Center-North Facia	Caulk (White)	ND	Not ACM or RACM	NA	Not Asbestos Waste

Table 1 – Asbestos Data Summary
Humboldt Bay Aquatics Center - Balcony

Sample Number	Location	Material	Laboratory Result	Material Category	Cal/OSHA Work Class	Waste Designation
HBAC-11	North Exterior - NW Balcony NW Corner at Top of Column	Caulk (Grey) + Fill Compound (White, Hard)	ND	Not ACM or RACM	NA	Not Asbestos Waste
HBAC-12	North Exterior - NW Balcony Top of Column Behind Flashing	Sealant Sheeting (Black/Clear Backing)	ND	Not ACM or RACM	NA	Not Asbestos Waste
HBAC-13	East Exterior - East Balcony Concrete Topper at Center-E	Concrete (Grey)	ND	Not ACM or RACM	NA	Not Asbestos Waste
HBAC-14	North Exterior - NW Balcony Concrete Topper at NW	Concrete (Grey)	ND	Not ACM or RACM	NA	Not Asbestos Waste
HBAC-15	North Exterior - NE Balcony Underside at Breezeway Ceiling at Center at North doors at Patch	Exterior Siding Panel (Grey, Perforated)	ND	Not ACM or RACM	NA	Not Asbestos Waste
HBAC-16	North Exterior - NE Balcony Underside at Breezeway Ceiling at Center-North	Exterior Siding Panel (Grey)	ND	Not ACM or RACM	NA	Not Asbestos Waste

Notes:

- ACM = Asbestos Containing Material (greater than 1% asbestos)
- ACCM = Asbestos Containing Construction Materials (greater than 0.1% asbestos)
- NA = Not applicable
- ND = Nondetect (i.e., no asbestos identified above the laboratory detection limit)
- NW, SE, etc. = Azimuth direction abbreviation (e.g., Northwest, Southeast, etc.)
- PC400 = Point Count 400 (laboratory analytical method)
- RACM = Regulated Asbestos Containing Material (friable and greater than 1% asbestos)
- Individual materials comprising multi-layered samples are separated by a “+” sign

Conclusions for Asbestos

As listed in Table 1, none (0) of the samples analyzed via PLM were reported to contain asbestos. The location of samples collected at the HBAC balcony are shown on Figure 1 (Attachment A). Typical ACM located at HBAC is shown in the attached photographs (Attachment B). The PLM laboratory analytical reports are attached (Attachment C).

Any suspect ACM not identified in this memorandum that is discovered during site work shall be presumed to contain >1% asbestos until sampled and proven otherwise. If suspect ACM is identified at HBAC for which there is no existing data, then work in that area shall stop, the material wetted, and access to the area restricted until the suspect ACM can be sampled, analyzed, and appropriately classified. Asbestos materials, if any, that may be disturbed by construction work at HBAC shall be removed by a licensed abatement contractor prior to other work that may impact such material.

If discovered during the project, material containing greater than 1% asbestos is classified by Cal/OSHA as ACM, while material containing less than 1% asbestos is classified as ACCM. Construction work impacting ACM and ACCM requires compliance with Cal/OSHA asbestos regulations (8CCR1529). Demolition and renovation work impacting ACM requires compliance with the USEPA NESHAP regulations as enforced locally by the North Coast Unified Air Quality Management District (NCUAQMD).

Nonfriable ACM is classified as nonhazardous asbestos waste, so long as the material is not rendered friable. If impacted using mechanical means, nonfriable ACM shall be understood to be rendered friable and reclassified as Regulated ACM (RACM). Friable material containing greater than one percent asbestos (i.e., RACM) is classified as a California hazardous waste.

Lead Findings

The AAS data are summarized in Table 2 (below). Table 2 lists the sample location, material type, reported or presumed lead content, and associated regulatory designation for each sampled material.

Table 2 – Lead Data Summary
Humboldt Bay Aquatics Center (Building 004) - Balcony

Sample Number	Location	Material	Laboratory Result	Regulatory Designation
HBAC-Pb-01	Exterior – 2nd Level – Balcony Railing	Paint (White) (on Metal)	<60 ppm	Not LBP or LCP
HBAC-Pb-02	Exterior – 1st Level – Balcony Support Column	Paint (White/Tan) (on Wood)	<60 ppm	Not LBP or LCP
HBAC-Pb-03	Exterior – 1st Level – Balcony Support Column Base	Paint (Grey) (on Concrete)	<60 ppm	Not LBP or LCP

Notes:
- LBP = Lead Based Paint (greater than 5,000 parts per million or 0.5% lead by weight)
- LCP = Lead Containing Paint (containing detectable concentrations of lead)
- ppm = Parts per million

Conclusions for Lead

As noted in Table 2, none (0) of the samples analyzed via AAS were reported to contain lead. The location of samples collected at the HBAC balcony are shown on Figure 1 (Attachment A). Typical examples of the paint sampled at HBAC are depicted in the attached photographs (Attachment B). The AAS laboratory analytical reports are attached (Attachment C).

For general reference, paint reported to contain lead in concentrations greater than 5,000 parts per million (ppm) or 0.5% by weight is classified as LBP, while paint containing any detectable amount of lead is classified as Lead Containing Paint (LCP). Construction work impacting known or presumed LBP and/or LCP must comply with applicable Cal/OSHA regulations (8CCR1532.1).

Demolition waste streams generated by construction work at HBAC must be representatively sampled to determine the total and soluble concentration of lead in the waste. Transportation and disposal requirements shall be determined based on the waste characterization data.

Closing

If other hazardous constituents of concern are presumed to be present onsite beyond those identified in the memorandum, then additional sampling must be performed to evaluate the presence of such hazards.

Waste streams generated during construction and/or demolition work at HBAC must be representatively sampled to determine the concentration of hazardous constituents in the waste prior to transport offsite.

Please contact FM PDC with any questions regarding the information contained in this memorandum.

Thank you,

Facilities Management - Planning, Design & Construction

Scott Harris Digitally signed by Scott Harris
Date: 2025.04.24 17:29:13 -07'00'

Scott Harris, CAC, CDPH I/A
(707) 826-5904
scott.harris@humboldt.edu

Attachments:

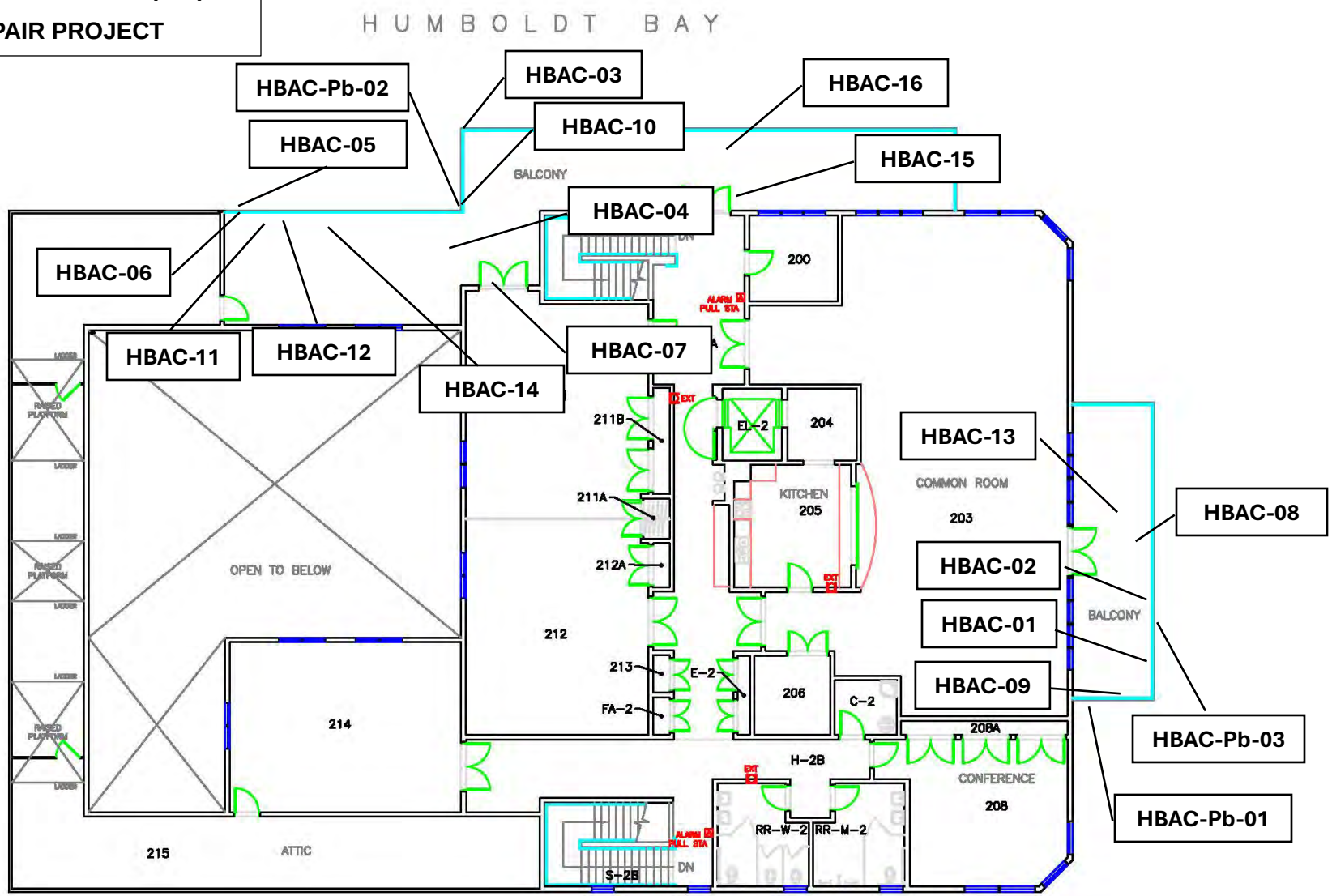
1. Attachment A – Figures
2. Attachment B – Photographs
3. Attachment C – Laboratory Data

Attachment A – Figures

FIGURE 1 – SAMPLE LOCATION MAP

HUMBOLDT BAY AQUATICS CENTER (163)

XPL286 – BALCONY REPAIR PROJECT



NOTES:

-NOT TO SCALE

-ALL LOCATIONS APPROXIMATE

-HBAC-## = SUSPECT ACM SAMPLE NUMBER AND LOCATION

-HBAC-Pb-## = SUSPECT LEAD SAMPLE NUMBER AND LOCATION

-NOTE: LABORATORY DID NOT REPORT ANY POSTIVE PLM (ASBESTOS) OR AAS (LEAD) ANALYTICAL RESULTS

NORTH

Attachment B – Photographs

Attachment B
Site Photographs

Photograph 1 – Humboldt Bay Aquatics Center – Exterior – Balcony – View looking north (penthouse south wall)

Photograph 2 – Humboldt Bay Aquatics Center – Exterior – South Balcony – View looking south

Photograph 3 – Humboldt Bay Aquatics Center – Exterior – North Balcony – View looking west

Photograph 4 – Humboldt Bay Aquatics Center – Exterior – Penthouse Balcony – View looking south

Photograph 5 – Humboldt Bay Aquatics Center – Exterior – Balcony – Transition to elevator shaft balcony

Photograph 6 – Humboldt Bay Aquatics Center – Exterior – Balcony – Elevator shaft and stairwell balcony

Photograph 7 – Humboldt Bay Aquatics Center – Exterior – Penthouse Balcony – View looking north

Photograph 8 – Exterior – Penthouse Balcony – Vent sealant reported to contain asbestos

Photograph 9 – Humboldt Bay Aquatics Center – Exterior – Balcony – Vent flashing detail

Photograph 10 – Humboldt Bay Aquatics Center – Exterior – Balcony – Vent flashing containing lead (typical)

Attachment C – Laboratory Data

EMSL Analytical, Inc.

7725 Convoy Court San Diego, CA 92111
Tel/Fax: (858) 499-1303 / (858) 499-1304
http://www.EMSL.com / sandiegolab@emsl.com

EMSL Order:	432501928
Customer ID:	HUSU75
Customer PO:	
Project ID:	

Attention:	Scott Harris Cal Poly Humboldt – FM - PD&C 1 Harpst St Arcata, CA 95521-8299	**Phone:**	(707) 599-6974
		Fax:	
		Received Date:	04/03/2025 10:00 AM
		Analysis Date:	04/04/2025
		Collected Date:	

Project: HBAC BALCONY - CF: 607022 HM700 D30037 -- XPL286; RQ:047-863

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
HBAC-01-Concrete *432501928-0001*	W EXT - SE COLUMN FOOTER / CONCRETE (GREY) + PAINT (GREY/WHITE)	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HBAC-01-Paint *432501928-0001A*	W EXT - SE COLUMN FOOTER / CONCRETE (GREY) + PAINT (GREY/WHITE)	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HBAC-02-Brick *432501928-0002*	W EXT - SE COLUMN DECORATIVE BRICK / CMU (GREY/TAN,ROUGH) + MORTAR (GREY)	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HBAC-02-Mortar *432501928-0002A*	W EXT - SE COLUMN DECORATIVE BRICK / CMU (GREY/TAN,ROUGH) + MORTAR (GREY)	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HBAC-03-Brick *432501928-0003* *Dark gray.*	N EXT - CTR E COLUMN CAP BRICK / CONCRETE CAP BRICK (DK GREY) + MORTAR (GREY)	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HBAC-03-Mortar *432501928-0003A* *Light gray.*	N EXT - CTR E COLUMN CAP BRICK / CONCRETE CAP BRICK (DK GREY) + MORTAR (GREY)	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HBAC-04-Drywall *432501928-0004*	INTERIOR - BOAT STORAGE N SOFFIT AT N ROLLUP / DRYWALL (WHITE) + JC (WHITE)	White Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
HBAC-04-Joint Compound *432501928-0004A*	INTERIOR - BOAT STORAGE N SOFFIT AT N ROLLUP / DRYWALL (WHITE) + JC (WHITE)	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HBAC-05-Patch Compound *432501928-0005*	N EXT - NW COLUMN AT TOP TRIM / PATCH COMPOUND (TAN) + PAINT (WHITE)	Tan/Pink Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 04/04/2025 16:39:28

EMSL Analytical, Inc.

7725 Convoy Court San Diego, CA 92111

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EMSL Order:	432501928
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Project ID:	

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
HBAC-05-Paint *432501928-0005A*	N EXT - NW COLUMN AT TOP TRIM / PATCH COMPOUND (TAN) + PAINT (WHITE)	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HBAC-06 *432501928-0006*	N EXT - NW COLUMN AT CONC./WOOD JUNCT. / CAULK (WHITE)	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HBAC-07 *432501928-0007*	N EXT - N BALCONY AT ENTRY THRESHOLD / CAULK (GREY)	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HBAC-08 *432501928-0008*	E EXT - E BALCONY SUFRACE AT CONC. TOPPER JOINT AT CTR-N / EXPANSION JOINT (GREY)	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HBAC-09 *432501928-0009*	E EXT - E BALCONY S EDGE AT GUTTER SEAM / SEAM SEALANT (GREY)	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HBAC-10 *432501928-0010*	N EXT - NE/NW BALCONY JUNCT AT CTR-N FACIA / CAULK (WHITE)	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HBAC-11-Caulk *432501928-0011*	N EXT - NW BALCONY NW CORNER AT TOP OF COLUMN / CAULK (GREY) + FILL COMPOUND (WHITE, HARD)	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HBAC-11-Filling Compound *432501928-0011A*	N EXT - NW BALCONY NW CORNER AT TOP OF COLUMN / CAULK (GREY) + FILL COMPOUND (WHITE, HARD)	Gray/White Non-Fibrous Homogeneous	4% Cellulose	96% Non-fibrous (Other)	None Detected
HBAC-12-Sealant 1 *432501928-0012*	N EXT - NW BALCONY TOP OF COLUMN BEHIND FLASHING / SEALANT SHEETING (BLACK/CLEAR BACKING)	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HBAC-12-Sealant 2 *432501928-0012A*	N EXT - NW BALCONY TOP OF COLUMN BEHIND FLASHING / SEALANT SHEETING (BLACK/CLEAR BACKING)	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 04/04/2025 16:39:28

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EMSL Order:	432501928
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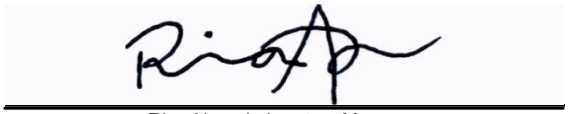
Project ID:	

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
HBAC-13 *432501928-0013*	E EXT - E BALCONY CONCRETE TOPPER AT CTR-E / CONCRETE (GREY)	Gray/Various Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HBAC-14 *432501928-0014*	N EXT - NW BALCONY CONCRETE TOPPER AT NW / CONCRETE (GREY)	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HBAC-15 *432501928-0015*	N EXT - NE BALCONY UNDERSIDE AT BREEZEWAY CEILING AT CTR AT N DOORS AT PATCH / EXTERIOR SIDING PANEL (GREY, PREFORATED)	Gray Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
HBAC-16 *432501928-0016*	N EXT - NE BALCONY UNDERSIDE AT BREEZEWAY CEILING AT CTR-N / EXTERIOR SIDING PANEL (GREY)	Gray Fibrous Homogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected

Analyst(s)

Eric Sun (13)
Peter Pham (10)



Riva Alger, Laboratory Manager
or Other Approved Signatory

Initial report from: 04/04/2025 16:39:28

OrderID: 432501928

Asbestos Chain of Custody (Air, Bulk, Soil)

California Customers

EMSL Order Number / Lab Use Only

#432501928

EMSL Analytical, Inc.
464 McCormick Street

San Leandro, CA 94577
PHONE: (510) 895-3675
EMAIL: sanleandrolab@emsl.cc

If Bill-To is the same as Report-To leave this section blank, Third-party billing requires written authorization.

Customer Information		Billing Information	
Customer ID:	HUSU75	Billing ID:	HUSU75
Company Name:	Cal Poly Humboldt	Company Name:	Cal Poly Humboldt
Contact Name:	Scott Harris	Billing Contact:	Scott Harris
Street Address:	Facilities Management-PDC	Street Address:	Facilities Management-PDC
City, State, Zip:	Arcata CA 95521	City, State, Zip:	Arcata CA 95521
Country:	US	Country:	US
Phone:	707-826-5904	Phone:	707-826-5904
Email(s) for Report:	scott.harris@humboldt.edu	Email(s) for Invoice:	scott.harris@humboldt.edu

Project Information

Project Name/No: HBAC Balcony - CF: 607022 HM700 D30037 - - XPL286, ~~WO:~~ RQ:047-863

Purchase Order:

EMSL LIMS Project ID: (If applicable, EMSL will provide)

US State where samples collected: CA

State of Connecticut (CT) must select project location: ☐ Commercial (Taxable) ☐ Residential (Non-Taxable)

Sampled By Name: SH

Sampled By Signature:

No. of Samples in Shipment

Turn-Around-Time (TAT)

☐ 3 Hour ☐ 4-4.5 Hour AHERA ONLY ☐ 6 Hour ☐ 24 Hour ☐ 32 Hour ☑ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

TEM Air 3-6 Hour, please call ahead to schedule. 32 Hour TAT available for select tests only; samples must be submitted by 11:30 am.

Test Selection

PCM Air
- ☐ NIOSH 7400
- ☐ NIOSH 7400 w/ 8hr. TWA

PLM - Bulk (reporting limit)
- ☑ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)
- ☐ POINT COUNT
  - ☐ 400 (<0.25%) ☐ 1,000 (<0.1%) ☐ 1,200 (<0.08%)
- ☐ POINT COUNT w/ GRAVIMETRIC
  - ☐ 400 (<0.25%) ☐ 1,000 (<0.1%) ☐ 1,200 (<0.08%)

TEM - Air
- ☐ AHERA 40 CFR, Part 763
- ☐ CARB Modified AHERA
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312*

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ TEM EPA 600/R-93/116 w Milling Prep (0.1%)

TEM - Settled Dust
- ☐ Microvac - ASTM D5755
- ☐ Wipe - ASTM D6480
- ☐ Qualitative via Filtration Prep
- ☐ Qualitative via Drop Mount Prep

Soil - Rock - Vermiculite (reporting limit)*
- ☐ PLM CARB 435 - Level A (<0.25%)
- ☐ PLM CARB 435 - Level B (<0.1%)
- ☐ TEM CARB 435 - Level B (<0.1%)
- ☐ TEM CARB 435 - Level C (<0.01%)
- ☐ CARB Guidance Compliance Prep
- ☐ PLM EPA 600/R-93/116 with milling prep (<0.25%)
- ☐ PLM EPA 600/R-93/116 with milling prep (<0.1%)
- ☐ TEM EPA 600/R-93/116 with milling prep (<0.1%)

Other

*Please call with your project-specific requirements.

☐ Positive Stop - Clearly Identified Homogeneous Areas (HA)

Filter Pore Size (Air Samples) ☐ 0.8um ☑ 0.45um

Sample Number	Sample Location / Description	Volume, Area or Homogeneous Area	Date / Time Sampled (Air Monitoring Only)
	See Attachment A		03/26/2025

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Method of Shipment:		Sample Condition Upon Receipt:	4/2/25 10:00AM
Relinquished by:	S. Harris	Date/Time: 04/01/2025	Received by: Emily Fischer UPS	Date/Time: ~~04-02-2025-10:00~~
Relinquished by:	EF	Date/Time: 4/2/25 4:00pm	Received by: Riva Alger	Date/Time: 4/3/25 11:00am

Controlled Document - COC-51 Asbestos CA Clients R3 03/24/2021

☑ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

#4325019288

Sample Chain of Custody Supplement

Project: XPL286	Site: Humboldt Bay Aquatics Center (HBAC)	Sample Date: 03/26/2025
Bulk Sample Matrix		
Sample Number	**Location**	**Material Description**
HBAC-01	W Ext - SE Column Footer	Concrete (Grey) + Paint (Grey/White)
HBAC-02	W Ext - SE Column Decorative Brick	CMU (Grey/Tan, Rough) + Mortar (Grey)
HBAC-03	N Ext - CTR-E Column Cap Brick	Concrete Cap Brick (Dk Grey) + Mortar (Grey)
HBAC-04	Interior - Boat Storage N Soffit at N Rollup	Drywall (White) + JC (White)
HBAC-05	N Ext - NW Column at Top Trim	Patch Compound (Tan) + Paint (White)
HBAC-06	N Ext - NW Column at Conc./Wood Junct.	Caulk (White)
HBAC-07	N Ext - N Balcony at Entry Threshold	Caulk (Grey)
HBAC-08	E Ext - E Balcony Surface at Conc. Topper Joint at CTR-N	Expansion Joint (Grey)
HBAC-09	E Ext - E Balcony S Edge at Gutter Seam	Seam Sealant (Grey)
HBAC-10	N Ext - NE/NW Balcony Junct at CTR-N Facia	Caulk (White)
HBAC-11	N Ext - NW Balcony NW Corner at Top of Column	Caulk (Grey) + Fill Compound (White, Hard)
HBAC-12	N Ext - NW Balcony Top of Column Behind Flashing	Sealant Sheeting (Black/Clear Backing)
HBAC-13	E Ext - E Balcony Concrete Topper at CTR-E	Concrete (Grey)
HBAC-14	N Ext - NW Balcony Concrete Topper at NW	Concrete (Grey)
HBAC-15	N Ext - NE Balcony Underside at Breezeway Ceiling at CTR at N doors at Patch	Exterior Siding Panel (Grey, Perforated)
HBAC-16	N Ext - NE Balcony Underside at Breezeway Ceiling at CTR-N	Exterior Siding Panel (Grey)

Notes:
Please provide a result for each unique material comprising multilayered samples.

ACT	Acoustical Ceiling Tile
AWT	Acoustical Wall Tile
CTR	Center
JC	Joint Compound
N, S, E, W, NW, etc.	Azimuth directions
TSI	Thermal System Insulation
VFT	Vinyl floor tile
VSF	Vinyl sheet flooring

rel: [signature] FX 4/2/25 4:00p

Emily Fischer UPS ~~0404202510000~~

4/2/25 10:00A

rec. Riva Alger 4/3/25 11:00am

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:cs@emsl.com
www.emsl.com

EMSL Order ID: 012515621
LIMS Reference ID: AD15621
EMSL Customer ID: HUSU75

Attention: Scott Harris
Cal Poly Humboldt – FM - PD&C [HUSU75]
1 Harpst St
Arcata, CA 95521-8299
(707) 599-6974
ssh11@humboldt.edu

Project Name: HBAC Balcony - CF: 607022 HM700 D30037 - - X[L286 RQ:047-863
Customer PO:
EMSL Sales Rep: Callum McMillan
Received: 04/03/2025 09:40
Reported: 04/04/2025 19:29

Analytical Results

Analyte	Results	RL	Weight(g)	Prep Date & Tech	Prep Method	Analysis Date & Analyst	Analytical Method	Q	DF
Client Sample ID: HBAC-Pb-01/HBAC-Ext-E Balcony Railing at SW - Paint - White - Metal									**Date Sampled: 03/26/25**
Matrix: Chips									**LIMS Reference ID: AD15621-01**
Lead	<60 ppm	60 ppm	0.2546	04/03/25 KD1	SW-846 3050B	04/04/25 PMX	SW846-7000B		1
Sample Comments:									
Client Sample ID: HBAC-Pb-02/HBAC-Ext-NW Balcony Column - Paint - White/Tan - Wood									**Date Sampled: 03/26/25**
Matrix: Chips									**LIMS Reference ID: AD15621-02**
Lead	<60 ppm	60 ppm	0.2506	04/03/25 KD1	SW-846 3050B	04/04/25 PMX	SW846-7000B		1
Sample Comments:									
Client Sample ID: HBAC-Pb-03/HBAC-Ext-E Balcony Column Base - Paint - Grey - Concrete									**Date Sampled: 03/26/25**
Matrix: Chips									**LIMS Reference ID: AD15621-03**
Lead	<60 ppm	60 ppm	0.273	04/03/25 KD1	SW-846 3050B	04/04/25 PMX	SW846-7000B		1
Sample Comments:									

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Project Name: HBAC Balcony - CF: 607022 HM700 D30037 - - X[L286 RQ:047-863
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Certified Analyses included in this Report

Analyte	Certifications
SW846-7000B in Chips	
Lead	AIHA LAP

List of Certifications

Code	Description	Number	Expires
NJDEP	New Jersey Department of Environmental Protection	03036	06/30/2025
AIHA LAP	EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-ELLAP Accredited	100194	05/01/2025
NYSDOH	New York State Department of Health ELAP	10872	04/01/2025
California ELAP	California Water Boards	1877	06/30/2025
A2LA	A2LA Environmental Certificate	2845.01	07/31/2026
PADEP	Pennsylvania Department of Environmental Protection	2845.25	11/30/2025
MADEP	Massachusetts Department of Environmental Protection	M-NJ337	06/30/2025
CTDPH	Connecticut Department of Public Health	PH-0270	06/23/2026

Please see the specific Field of Testing (FOT) on www.emsl.com <http://www.emsl.com> for a complete listing of parameters for which EMSL is certified.

Notes and Definitions

Item	Definition
(Dig)	For metals analysis, sample was digested.
[2C]	Reported from the second channel in dual column analysis.
DA	Direct Analysis
DF	Dilution Factor
MDL	Method Detection Limit.
ND	Analyte was NOT DETECTED at or above the detection limit.
NR	Spike/Surrogate showed no recovery.
Q	Qualifier
RCS	Respirable Crystalline Silica
RL	Reporting Limit For paint chips, the RL is 0.008% by wt. (equiv. to 80 mg/kg, or ppm) based upon a minimum sample weight of 0.25 grams. For soils, the RL is 40 mg/kg (ppm) based upon a minimum sample weight of 0.5 grams. For dust wipes, the RL is 10 µg/wipe; reporting units of µg/sq. ft. are not validated by the lab based upon data provided by non-lab personnel.
Wet	Sample is not dry weight corrected.

Measurement of uncertainty and any applicable definitions of method modifications are available upon request. Per EPA NLLAP policy, sample results are not blank corrected.

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Project Name: HBAC Balcony - CF: 607022 HM700 D30037 - - X[L286 RQ:047-863

Customer PO:
EMSL Sales Rep: Callum McMillan
Received: 04/03/2025 09:40
Reported: 04/04/2025 19:29

Owen McKenna Laboratory Manager or other approved signatory

Analysis following EMSL SOP for the Determination of Environmental Lead by FLAA. The laboratory has a reporting limit of 0.0064% by wt., based upon a minimum sample weight of 0.25g submitted to the lab, and is not responsible for any result or reporting limit provided in mg/cm2 since it is dependent upon an area value provided by non-lab personnel. A "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty and definitions of modifications are available upon request. Results in this report are not blank corrected unless specified.

EMSL ANALYTICAL, INC.
TESTING LABS • PRODUCTS • TRAINING

Lead Chain of Custody

EMSL Order Number / Lab Use Only

AD15621

EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077

PHONE: (800) 220-3675
EMAIL: CinnaminsonLeadLab@emsl.com

Customer Information		Billing Information	
Customer ID:	HUSU75	Billing ID:	HUSU75
Company Name:	Cal Poly Humboldt	Company Name:	Cal Poly Humboldt
Contact Name:	Scott Harris	Billing Contact:	Scott Harris
Street Address:	Facilities Management - PDC - 1 Harpst Street	Street Address:	Facilities Management - PDC - 1 Harpst Street
City, State, Zip:	Arcata, CA 95521	City, State, Zip:	Arcata, CA 95521
Country:	US	Country:	US
Phone:	707-826-3674	Phone:	707-826-3646
Email(s) for Report:	scott.harris@humboldt.edu	Email(s) for Invoice:	scott.harris@humboldt.edu

Project Information

Project Name/No: HBAC Balcony - CF: 607022 HM700 D30037 - - XPL286; ~~WO~~: RQ-047-863

Purchase Order:

EMSL LIMS Project ID: (If applicable. EMSL will provide)

US State where samples collected:

State of Connecticut (CT) must select project location: ☐ Commercial (Taxable) ☐ Residential (Non-Taxable)

Sampled By Name: SH

Sampled By Signature:

No. of Samples in Shipment: 3

Turn-Around-Time (TAT)

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 32 Hour ☑ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

Please call ahead for large projects and/or turnaround times 6 Hours or Less. *32 Hour TAT available for select tests only, samples must be submitted by 11:30am.

MATRIX	METHOD	INSTRUMENT	REPORTING LIMIT	SELECTION
CHIPS ☐ % by wt. ☑ ppm (mg/kg) ☐ mg/cm² *Reporting Limit based on a minimum 0.25g sample weight. **Not appropriate for Ceramic Tiles - XRF is recommended	SW 846-7000B	Flame Atomic Absorption	0.008% (80ppm)	☑
	SW 846-6010D*	ICP-OES	0.0004% (4ppm)	☐
AIR	NIOSH 7082	Flame Atomic Absorption	4µg/filter	☐
	NIOSH 7303M	ICP-OES	1.0µg/filter	☐
	NIOSH 7303M	ICP-MS	0.05µg/filter	☐
WIPE ☐ ASTM ☐ NON-ASTM *If no box is checked, non-ASTM Wipe is assumed	SW 846-7000B	Flame Atomic Absorption	10µg/wipe	☐
	SW 846-6010D*	ICP-OES	1.0µg/wipe	☐
TCLP	SW 846-1311 / 7000B / SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW 846-1311 / SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	☐
SPLP	SW 846-1312 / 7000B / SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW 846-1312 / SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	☐
TTLC	22 CCR App. II, 7000B	Flame Atomic Absorption	40mg/kg (ppm)	☐
	22 CCR App. II, SW 846-6010D*	ICP-OES	2mg/kg (ppm)	☐
STLC	22 CCR App. II, 7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	22 CCR App. II, SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	☐
Soil	SW 846-7000B	Flame Atomic Absorption	40mg/kg (ppm)	☐
	SW 846-6010D*	ICP-OES	2mg/kg (ppm)	☐
Wastewater	SM 3111B / SW 846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
Unpreserved ☐ Preserved with HNO3 ☐ PH<2	EPA 200.7	ICP-OES	0.020 mg/L (ppm)	☐
Drinking Water	EPA 200.5	ICP-OES	0.003 mg/L (ppm)	☐
Unpreserved ☐ Preserved with HNO3 ☐ PH<2	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50	ICP-OES	12 µg/filter	☐
Other:				☐

RECEIVED EMSL CINNAMINSON, NJ 2025 APR -3 A 9:11

Sample Number	Sample Location	Volume / Area	Date / Time Sampled
HBAC-Pb-01	HBAC-Ext-E Balcony Railing at SW	Paint (White) (Metal)	03/26/2025
HBAC-Pb-02	HBAC-Ext-NW Balcony Column	Paint (White/Tan) (Wood)	
HBAC-Pb-03	HBAC-Ext-E Balcony Column Base	Paint (Grey) (Concrete)	
	n/a		380

Method of Shipment:

Sample Condition Upon Receipt:

Relinquished by: Scott Harris	Date/Time: 04/01/2025	Received by: Emily Fischer UPS	Date/Time: ~~04042025 1000~~ 4/2/25 10:00A
Relinquished by: FX	Date/Time: 4/2/25 4:00P	Received by: Quinn EFX 4-03-25	Date/Time 940

*6010C Available Upon Request

☐ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)