## **CAL POLY HUMBOLDT**

February 15, 2023

To All Prospective Bidders

SUBJECT: IFB #PW23-1, Library Flat Roof Replacement, Project XPL277

#### Addendum #1

The following changes, omissions and/or additions to the Bidding Documents shall apply to proposals made for and to the execution of the various parts of the work affected thereby and all other conditions shall remain the same. In case of conflict between Bidding Documents and this Addendum, this Addendum shall govern.

#### 1. Bid Proposal Submittal Due Date

Bid Proposal Submittal due date has not changed and remains Thursday, March 9, 2023 by 3:00 p.m.

#### 2. Revised Exhibits

Exhibits F Library Flat Roof Drawings and Exhibit G Project Manual have been revised. New versions Can be viewed at <u>here</u>

#### 3. Technical Memorandum

Please see the attached Technical Memorandum – Asbestos and Lead Data Summary.

#### -END OF ADDENDUM-

Contracts & Procurement

Addie Dunaway Procurement Specialist



PHONE 707 826-3646 707 826-5888 FAX FacilityMgmt@humboldt.edu 707 826-4475 ALT

EMAIL

#### **Technical Memorandum**

January 19, 2023

#### Subject: XPL277 Library Low Slope Roof Replacement – Asbestos and Lead Data Summary

The California State Polytechnic University, Humboldt (Humboldt) Facilities Management (FM) Planning, Construction & Design (PDC) division collected bulk samples of suspect Asbestos Containing Material (ACM) at the exterior roof of the Humboldt Library (Building 041) located on the Humboldt campus. Sampling was conducted on December 21, 2022, in association with the Library Low Slope Roof Replacement Project (the project). This memorandum summarizes the bulk sampling findings and provides conclusions based on these data.

#### **Project Site**

The project consists of three exterior roof sections collectively comprising with the Library low slope (flat) roof (project site). The three sections of the project site include:

- 1. Main roof
- Penthouse roof located at the center-east portion of the building
- 3. Elevator shaft roof located at the northeast corner of the building

The flat roofs include an approximately 6" parapet throughout the perimeter, except where the main roof contacts exterior walls extending above the flat roof (e.g., penthouse, stairwell enclosure, and elevator shaft). The rolled roofing is secured at the parapets with metal flashing. The tops of the parapets are covered with metal cap flashing. Penetrations in the roofs are sealed with roofing mastic. Photographs of the project site are attached (Attachment A).

#### **Survey Description**

A total of eight (8) suspect ACM samples were collected throughout the project site, some samples consisting of multiple layers of unique materials. The suspect 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 Cal/OSHA Certified Asbestos Consultant (11-4713) and California Department of Public Health Lead Inspector/Assessor (00004068).

A single (1) suspect ACM was identified at the project site as noted in Table 1 (page 2) and not sampled due to limited accessibility. Additionally, suspect lead material was identified at the project site and presumed to contain lead as noted in Table 2 (page 2).

#### Laboratory Data

The bulk samples were sent to SGS Forensic Laboratories, located in Hayward, California. Samples were analyzed for asbestos content via Polarized Light Microscopy (PLM) using USEPA Method 600/R-93-116. The PLM data are summarized in Table 1. The lead findings are summarized in Table 2. The relevant laboratory analytical reports are attached (Attachment B).

> 1 Harpst Street, Arcata, California 95521-8299 facilitymgmt.humboldt.edu

#### **Asbestos Findings**

Table 1 includes the sample location, material type, laboratory result, and applicable regulatory designations for each sampled suspect ACM. Samples reported to contain asbestos are identified in Table 1 by the asbestos content (percent asbestos) and highlighted using bold text. Individual materials comprising multi-layered samples are separated by a "+" sign. Suspect materials presumed to contain greater than one percent asbestos are noted in Table 1 as "Presume >1%." Materials that were <u>not</u> reported by the laboratory to contain asbestos, i.e., non-detect (ND) materials, are listed as "ND".

Table 1 – /	Asbestos Data Summary							
Sample Number	Location / Material	Laboratory Result	USEPA Category	Cal/OSHA Work Class	Waste Designation			
LIB- ROOF-1	Library - Roof at CTR E / Rolled Comp Roofing (Black, Red Granular)	ND	NA	NA	NA			
LIB- ROOF-2	Library - N Roof at NE / Rolled Comp Roofing (Black, Red Granular)	ND	NA NA		NA			
LIB- ROOF-3	Library - S Roof at SW / Rolled Comp Roofing (Black, Red Granular) + Concrete (Grey)	ND	ND NA		NA			
LIB- ROOF-4	Library - NE Upper Roof at SW / Rolled Comp Roofing (Black, Red Granular)	ed Comp ND NA		NA	NA			
LIB- ROOF-5			NA	NA	NA			
LIB- ROOF-6	Library - Roof at SE Vent / Penetration Mastic (Black) ND		NA NA		NA			
LIB- ROOF-7			NA	NA	NA			
LIB- ROOF-8			NA	NA	NA			
Not Sampled	Library Penthouse Interior / CementitiousPresume >1%Presume Cat IIPresume Class IINon-haz							
<ul> <li>Call</li> <li>Na</li> <li>Na</li> </ul>	CM = Asbestos Containing Material (greater than at II = Category II nonfriable ACM (USEPA materia A = Not applicable D = Nondetect (i.e., no asbestos found above the on-haz = Nonhazardous asbestos waste	al designation	)	<u>.</u>	·			

#### Lead Findings

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

Table 2 – Le	able 2 – Lead Data Summary							
Sample Number	Location / Material Laboratory Result Regulatory Designation							
NA	Vent Penetrations Throughout / Malleable Lead Cladding on Vertical Vents	Presume >0.5%	Presume LBP					

Table 2 – Lead Data Summary								
Sample Number	Location / Material	Laboratory Result	Regulatory Designation					
Notes: • LBP = Lead Based Paint (greater than 5,000 parts per million or 0.5% lead by weight)								

#### **Conclusions for Asbestos**

One (1) material was presumed to contain asbestos (cementitious vent flue) as noted in Table 1. This flue is classified as a Category II nonfriable ACM based on the material's physical characteristics. None (0) of the sampled materials analyzed via PLM were reported to contain asbestos (see Attachment B).

Nonfriable ACM is classified as nonhazardous asbestos waste, so long as the material is not rendered friable. Asbestos materials that may be disturbed by the project shall be removed by a licensed abatement contractor prior to other site work.

Any suspect ACM not identified in this memorandum that is discovered during site work should be presumed to contain asbestos until sampled and proven otherwise. If suspect ACM is identified at the project site 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 appropriately sampled and characterized.

#### **Conclusions for Lead**

A single (1) material (vent cladding) is presumed to contain lead (see Photograph 4, Attachment A). As noted in Table 2, lead is presumed to be present at the project site, therefore construction work must comply with applicable Cal/OSHA and CDPH regulations governing lead. Coatings and other suspect lead materials at the project site shall be presumed to contain lead, unless sampled and proven otherwise.

The demolition waste stream shall 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.

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

Thank you, Facilities Management - Planning, Design & Construction

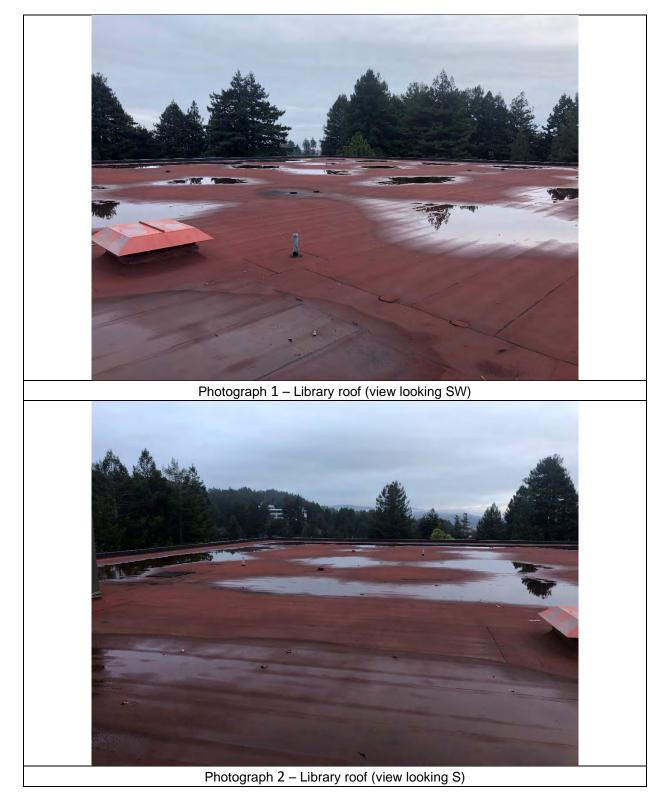
Scott Harris, CAC, CDPH (707) 826-5904 scott.harris@humboldt.edu

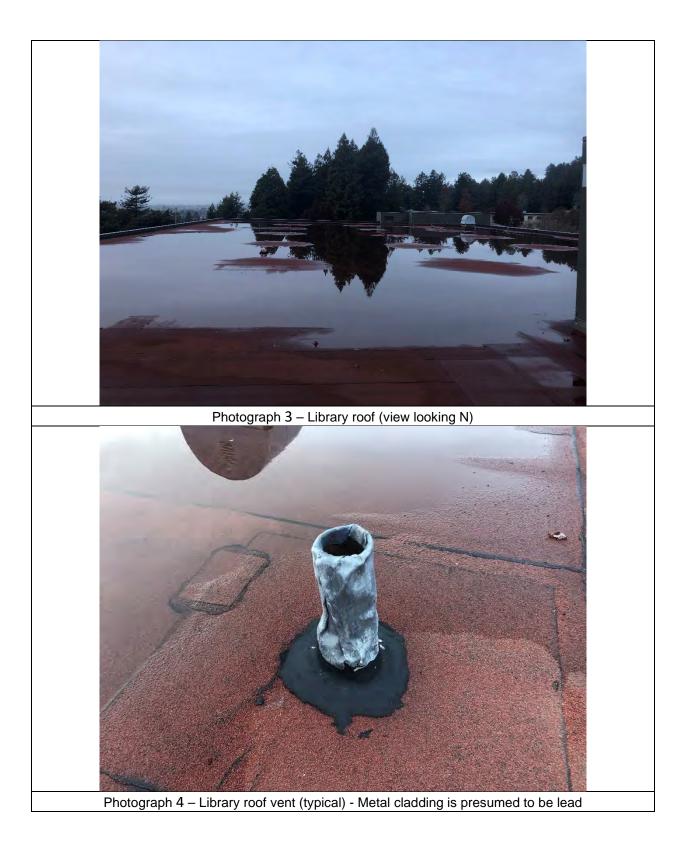
#### Attachments:

- 1. Attachment A Site Photographs
- 2. Attachment B Laboratory Data

## Attachment A

### Site Photographs







IFB #PW23-1 Page 7 of 10

## Attachment B

Laboratory Data



# Bulk Asbestos Analysis (EPA Method 40CFR, Part 763, Appendix E to Subpart E and EPA 600/R-93-116, Visual Area Estimation)

NVLAP Lab Code: 101459-0

Humboldt State University Scott Harris 1 Harpst Street Plan Operations Arcata, CA 95521 Job ID/Site: PO# 1127193;XPL277 - L			ode: 101459-0		Client ID: Report Number Date Received: Date Analyzed Date Printed: First Reported SGSFL Job ID Total Samples	: 01/04/2 : 01/05/2 01/05/2 : 01/05/2 : 2087	23 23 23 23
					Total Samples	Analyzed:	8
Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
LIB-ROOF-1 Layer: Black Tar Layer: Black Felt Layer: Black Tar Layer: Black Felt Layer: Stones Layer: Black Tar Layer: Black Tar Layer: Black Felt Layer: Stones Total Composite Values of Non-Asbes Cellulose (10 %) Fibrous Glass (5 Comment: Bulk complex sample.		•	ND ND ND ND ND ND ND				
LIB-ROOF-2 Layer: Black Tar Layer: Black Felt Layer: Black Tar Layer: Black Felt Layer: Stones Layer: Black Tar Layer: Black Felt Layer: Stones	12632106		ND ND ND ND ND ND ND				
Total Composite Values of Non-Asbes Cellulose (10 %) Fibrous Glass (5 Comment: Bulk complex sample.		-					
LIB-ROOF-3 Layer: Black Tar Layer: Black Felt Layer: Black Tar Layer: Black Felt Layer: Stones	12632107		ND ND ND ND ND				
Total Composite Values of Non-Asbes Cellulose (10 %) Fibrous Glass (5 Comment: Bulk complex sample.		-					

Client Name: Humboldt State University					Report Num Date Printed		
Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
LIB-ROOF-4 Layer: Black Tar Layer: Black Felt Layer: Black Tar Layer: Black Felt Layer: Stones	12632108		ND ND ND ND ND				
Total Composite Values of Non-Asbest Cellulose (10 %) Fibrous Glass (5 9 Comment: Bulk complex sample.		-					
<b>LIB-ROOF-5</b> Layer: Stones Layer: Black Tar Layer: Black Felt	12632109		ND ND ND				
Total Composite Values of Non-Asbest Cellulose (10 %) Fibrous Glass (5 9		-					
<b>LIB-ROOF-6</b> Layer: Black Non-Fibrous Material Layer: Stones	12632110		ND ND				
Total Composite Values of Non-Asbest Cellulose (Trace)	os Fibrous Com	ponents:					
<b>LIB-ROOF-7</b> Layer: Black Non-Fibrous Material Layer: Stones	12632111		ND ND				
Total Composite Values of Non-Asbest Cellulose (Trace)	os Fibrous Com	ponents:					
<b>LIB-ROOF-8</b> Layer: Grey Non-Fibrous Material	12632112		ND				
Total Composite Values of Non-Asbest Cellulose (Trace)	os Fibrous Com	ponents:					

Lad Shower

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Analytical results and reports are generated by SGS Forensic Laboratories (SGSFL) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by SGSFL to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by SGSFL. The client is solely responsible for the use and interpretation of test results and reports requested from SGSFL. SGSFL is not able to assess the degree of hazard resulting from materials analyzed. SGS Forensic Laboratories reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.

IFB #PW23-1 Page 10 of 10



Analysis Request Form (COC)

Client Name & Address: Client No.: 2087			PO / Job#: PO1127193 / XPL277 Date: 12/22/2022					
Cal Poly Humboldt (Humboldt State University) Facilities Management - Planning, Design & Construction 1 Harpst Street, Arcata, CA 95521-8299			Turn Around Time: Same Day / 1Day 2Day 3 xy / 4Day / 5Day					
			PCM: INIOSH 7400A / INIOSH 7400B Rotometer					
Thaipst Street, Area	R PLM: R Stand	lard / E	Point Count	400 - 100	00 / 🗖 C.	ARB 435		
Contact: Scott Harris	□ TEM Air: □ AHERA / □ Yamate2 / □ NIOSH 7402 □ TEM Bulk: □ Quantitative / □ Qualitative / □ Chatfield							
ssh11@humbolo	□ TEM Water: □ Potable / □ Non-Potable / □ Weight % □ TEM Dust: □ D5755 (microvac) / □ D6480 (wipe)							
Site Nome: Library (041)			□ IAQ Particle Identification (PLM LAB) □ PLM Opaques/Soot □ Particle Identification (TEM LAB) □ Special Project					
Site Location: Exterior - F	Roof		🗆 Metals Analys	is Matri Analy		Me	ethod:	
Comments: Project Numer	: XPL277 , CF	660817 HM600	1 D0037 ×P	1277		🗖 Silica		w/Gravimetry
	Dote /				FOR AIR SA	MPLES ONLY		Sample Area /
Sample ID	Time	Sample Location / D	escription	Туре	Time On/Off	Avg LPM	Total Time	Air Volume
LIB-ROOF-1	12/21/22	Library - Roof at CTR E / Roll (Black, Red Granular)	ed Comp Roofing	A P C	NA	NA	NA	NA
LIB-ROOF-2	12/21/22	Library - N Roof at NE / Rolle (Black. Red Granular)	A P C.			(		
LIB-ROOF-3	12/21/22	Library - S Roof at SW / Rolle (Black, Red Granular) + Conc	A P C		-			
LIB-ROOF-4	12/21/22	Library - NE Upper Roof at SI Roofing (Black, Red Granular	A P C		-			
LIB-ROOF-5	12/21/22	Library - N Roof E Parapet at Roofing (Black, Red Granular	A P C		-			
LIB-ROOF-6	12/21/22	Library - Roof at SE Vent / Pe (Black)	A P C		-			
LIB-ROOF-7	12/21/22	Library - Roof at NE Vent / Pr (Black)	A P C	<u> </u>				
LIB-ROOF-8	12/21/22	Library - NE Upper Roof Flas Fastener Sealant (Dark Grev		A P C	1		ł	
		An		P C				
				A P C				
Sampled By: SH	Date/Time	As above Shipped Via:	Fed Ex TUPS	US M	ail 7 Cour	ier ¬D	rop Off 🗖	Other:
Relinquished By: Scott H Date / Time: 12/22/202 01/03/10	An	Relinquished By: 3/23 Date / Time:			Relinquished Date / Time			
Received By:	21500 W/	Received By:			Received By Date / Time			
Date / Time: Condition Acceptable?	Yes 023 7 N	Condition Acceptables	Yes □ No		Condition A			D No
SGS Los Ang Los Ang	Forensic Laboration Office: 3777 De geles Office: 2053 S Vegas Office: 6	ories may subcontract client sa pot Road, Suite 409, Hayward 35 South Belshaw Ave., Carso 5765 S. Eastern Avenue, Suite 020 Woodcreek Drive, Suite C	1, CA 94545-2761 n, CA 90746 • Pho 3, Las Vegas, NV 8	<ul> <li>Phone</li> <li>ne: 310/</li> <li>9119</li> </ul>	e: 510/887-8 763-2374 • Phone: 702/	8828 • 80 888/813 784-0040	0/827-327 -9417	74