June 20, 2022

Eastern Oregon University
Attn: David Moore, Capital Projects Manager
One University Boulevard
La Grande, Oregon 97850

Re: Limited Asbestos Containing Materials Inspection
Quinn Coliseum Tunnels, Eastern Oregon University Campus

Dear David,

On June 3, 2022, Fulcrum Environmental Consulting, Inc. (Fulcrum), completed a limited asbestos containing materials (ACM) inspection of steam piping located on the Eastern Oregon University campus in La Grande, Oregon. Fulcrum understands that Eastern Oregon University is planning to replace a damaged steam line that services the Quinn Coliseum. Fulcrum's inspection is limited to the steam line and associated piping in select locations at the Quinn Coliseum. See Figure 1 for steam pipe map provided by Eastern Oregon University.

Roque Reyes, an Asbestos Hazard Emergency Response Act (AHERA) accredited Building Inspector with Fulcrum, completed the inspection. Site inspection was completed under the direction of Ryan Mathews, a Certified Industrial Hygienist (CIH), also with Fulcrum. See Attachment A for applicable professional certificates.

Scope of Work

Fulcrum was retained by Eastern Oregon University to complete a limited ACM inspection of a steam line and associated piping that services the Quinn Coliseum located on the Eastern Oregon University campus in La Grande, Oregon.

Fulcrum's scope of work consisted of a site inspection, material sampling, sample analysis, and reporting. All inspection tasks were completed by accredited, certified, or qualified professionals. Fulcrum did not dismantle equipment to determine if potentially hazardous material components were present.

Building Description

Quinn Coliseum is a sports complex located on the southwest portion of the Eastern Oregon University campus. The steam line tunnel is accessed through a hatch located in the southwest hallway near the southwest entrance to the building. The tunnel contains steam lines and various sized piping. Newer fiberglass insulation was observed on most of the piping within the tunnel. The steam line was observed to be 8-inches in diameter. Original insulation was observed in damaged condition.

P. 509.574.0839 F. 509.575.8453
406 North 2nd Street
Yakima, Washington 98901
efulcrum.net

The steam line is also accessed through three vaults on the west exterior of Quinn Coliseum. For the inspection, Fulcrum identified the south vault as "Vault 1", the center vault as "Vault 2", and the north vault as "Vault 3". Small sections of the steam line were observed in each vault along with valves and corroded piping.

Standing water was observed in the tunnel and at each vault. Pipes and associated insulation were observed to be in poor condition.

Asbestos Containing Materials Inspection

Asbestos inspection purpose is in compliance with regulatory requirements enforced by local, state and federal agencies, including: Occupational Safety and Health Administration (OSHA) 29 Code of Federal Regulations (CFR) 1926.1101, *Asbestos*; U.S. Environmental Protection Agency (EPA) 40 CFR Part 61, *National Emissions Standard for Hazardous Air Pollutants* (NESHAPs), and 40 CFR Part 763 *Asbestos Hazard Emergency Response Act (AHERA)*; and Oregon Occupational Safety and Health Division, and Oregon Department of Environmental Quality (DEQ) Chapter 340, Division 248: *Asbestos Requirements*. Under these regulations an ACM is defined as any material containing greater than one (1) percent (%) asbestos.

These regulations require the owner to inspect a facility for the presence of ACM prior to undertaking a construction, remodel, renovation, maintenance, or demolition project, and to provide inspection results to affected contractors or employees.

All samples were shipped by common carrier, under chain of custody, to Aerobiology Laboratory Associates Inc. (Aerobiology). Aerobiology is located in Phoenix, Arizona. Aerobiology is a National Voluntary Laboratory Accreditation Program (NVLAP) certified laboratory (#500097-0). Samples were analyzed using Polarized Light Microscopy (PLM) method EPA 600/R-93/116.

Fulcrum collected a total of 60 samples of suspect building materials from the Quinn Coliseum tunnel and vaults to be analyzed for asbestos content. Materials sampled included fiberglass insulation around 2-inch, 4-inch, 6-inch, 8-inch, and 10-inch pipes and joints, elbows, and tees (JETs). Other materials sampled included original insulation around 8-inch main steam line, black tar material on concrete, and accessible gaskets.

Laboratory analysis identified **60% Amosite** asbestos in the gray insulation sampled from the 8-inch main steam line in the tunnel and **65% Amosite** asbestos in the gray insulation sampled from Vault 2. The black tar sampled on concrete in the Quinn Coliseum tunnel was identified with **70% Chrysotile** asbestos.

No asbestos fibers were identified in samples collected from fiberglass insulation.

See Figures 2 and 3 for ACM sample locations. See Attachment C for Laboratory Results.

P. 509.574.0839 F. 509.575.8453
406 North 2nd Street
Yakima, Washington 98901
efulcrum.net

Conclusions

Asbestos Containing Materials

Fulcrum collected 60 suspect samples of building materials from the Quinn Coliseum tunnel and vaults to be analyzed for asbestos content. Laboratory analysis identified the following materials as ACM:

- Gray insulation around 8-inch steam line
- Black tar material on concrete cover of underground pipe entrance

If any new suspect materials are identified during renovation and select demolition, work should be halted until the material(s) is sampled to confirm asbestos absence or presence.

Limitations

Fulcrum Environmental Consulting, Inc.'s (Fulcrum) scope of services for this project, as outlined in preceding sections, was limited to an ACM inspection of a steam line and associated piping that services the Quinn Coliseum located on the Eastern Oregon University campus in La Grande, Washington. Results are specific to the time and day of inspection and may not reflect conditions at other times. Fulcrum makes no warranties, expressed or implied as to the accuracy or completeness of other's work included herein. Fulcrum has performed these services in accordance with generally accepted industry standards of care at the time of the inspection. No warranty, expressed or implied, is made.

If the scope of work should change, including impact to materials not tested during this inspection or if new suspect materials are identified, the contractor(s) should stop work and contact Fulcrum to conduct additional sampling and analysis.

If you have any questions, or need further assistance, please feel free to call Ryan Mathews at 509.574.0839.

Sincerely,

Roque E. Reyes
Environmental Scientist

Ryan K. Mathews, CIH, CHMM
Principal

THE AMERICAN BOARD OF INDUSTRIAL HYGIENE
INCORPORATED
CERTIFICATION NUMBER
9916 CP
EXPIRES
12-1-2026
PENNSYLVANIA · 1960
RYAN K. MATHEWS, CIH

Attachments

P. 509.574.0839 F. 509.575.8453
406 North 2nd Street
Yakima, Washington 98901
efulcrum.net

Figures

P. 509.574.0839 F. 509.575.8453
406 North 2nd Street
Yakima, Washington 98901
efulcrum.net

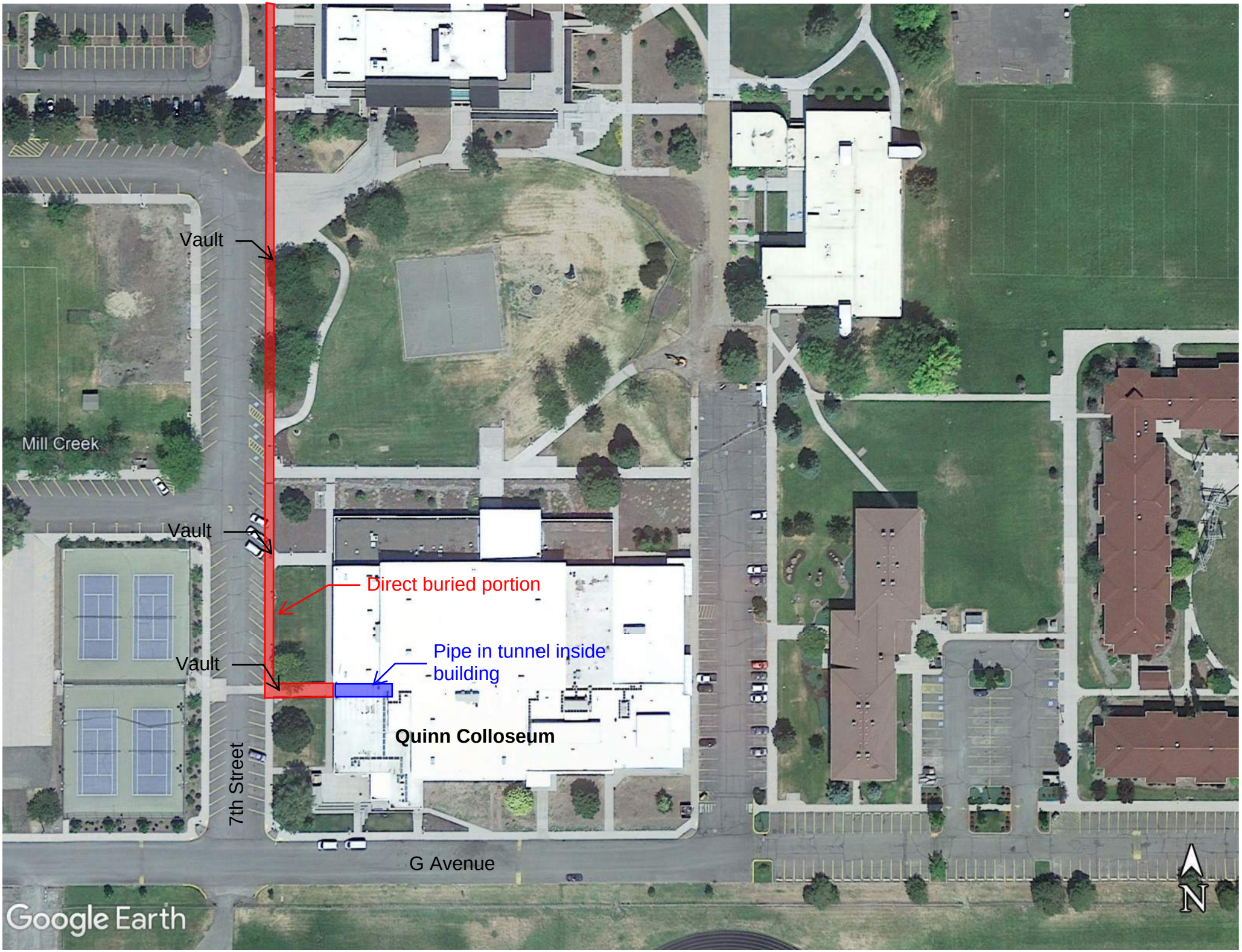
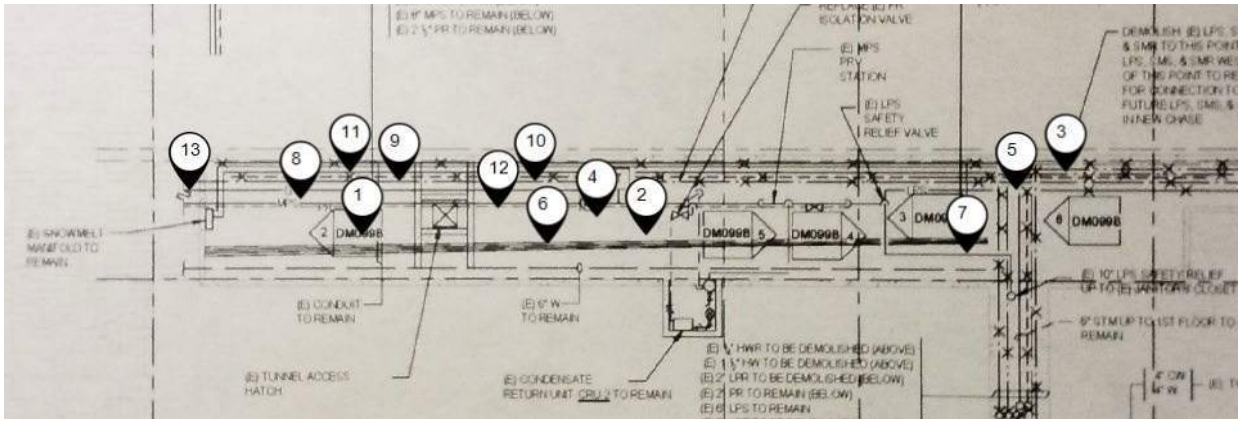

Vault
Mill Creek
Vault
Direct buried portion
Pipe in tunnel inside building
Vault
Quinn Colloseum
7th Street
G Avenue
Google Earth
N

Figure 2: ACM Sample Locations – Tunnel



Map ID	Sample ID	Section Name	Location	Index	Material
1	6322-001	Tunnel	West	TSI-01	White wrap over fiberglass insulation around 2-inch pipe runs
2	6322-002	Tunnel	Center	TSI-01	White wrap over fiberglass insulation around 2-inch pipe runs
3	6322-003	Tunnel	East	TSI-01	White wrap over fiberglass insulation around 2-inch pipe runs
1	6322-004	Tunnel	West	TSI-02	White plastic over fiberglass insulation around 2-inch JETs
2	6322-005	Tunnel	Center	TSI-02	White plastic over fiberglass insulation around 2-inch JETs
3	6322-006	Tunnel	East	TSI-02	White plastic over fiberglass insulation around 2-inch JETs
1	6322-007	Tunnel	West	TSI-03	White wrap over fiberglass insulation around 4-inch pipe runs
4	6322-008	Tunnel	Center	TSI-03	White wrap over fiberglass insulation around 4-inch pipe runs
5	6322-009	Tunnel	East	TSI-03	White wrap over fiberglass insulation around 4-inch pipe runs
1	6322-010	Tunnel	West	TSI-04	White plastic over fiberglass insulation around 4-inch JETs
4	6322-011	Tunnel	Center	TSI-04	White plastic over fiberglass insulation around 4-inch JETs
5	6322-012	Tunnel	East	TSI-04	White plastic over fiberglass insulation around 4-inch JETs
1	6322-013	Tunnel	West	TSI-05	White wrap over fiberglass insulation around 6-inch pipe runs
6	6322-014	Tunnel	Center	TSI-05	White wrap over fiberglass insulation around 6-inch pipe runs
7	6322-015	Tunnel	East	TSI-05	White wrap over fiberglass insulation around 6-inch pipe runs
1	6322-016	Tunnel	West	TSI-06	White plastic over fiberglass insulation around 6-inch JETs

Map ID	Sample ID	Section Name	Location	Index	Material
6	6322-017	Tunnel	Center	TSI-06	White plastic over fiberglass insulation around 6-inch JETs
7	6322-018	Tunnel	East	TSI-06	White plastic over fiberglass insulation around 6-inch JETs
8	6322-019	Tunnel	West	TSI-07	White wrap over fiberglass insulation around 8-inch pipe runs
10	6322-020	Tunnel	Center	TSI-07	White wrap over fiberglass insulation around 8-inch pipe runs
9	6322-021	Tunnel	West	TSI-07	White wrap over fiberglass insulation around 8-inch pipe runs
11	6322-022	Tunnel	West	TSI-08	White plastic over fiberglass insulation around 8-inch JETs
10	6322-023	Tunnel	Center	TSI-08	White plastic over fiberglass insulation around 8-inch JETs
11	6322-024	Tunnel	West	TSI-08	White plastic over fiberglass insulation around 8-inch JETs
9	6322-025	Tunnel	West	TSI-09	White wrap over fiberglass insulation around 10-inch pipes
12	6322-026	Tunnel	Center	TSI-09	White wrap over fiberglass insulation around 10-inch pipes
12	6322-027	Tunnel	Center	TSI-09	White wrap over fiberglass insulation around 10-inch pipes
9	6322-028	Tunnel	West	TSI-10	White plastic over fiberglass insulation around 10-inch JETs
12	6322-029	Tunnel	Center	TSI-10	White plastic over fiberglass insulation around 10-inch JETs
12	6322-030	Tunnel	Center	TSI-10	White plastic over fiberglass insulation around 10-inch JETs
13	6322-031	Tunnel	West	TSI-11	Black wrap over gray fibrous insulation around 8-inch pipe that extends underground
13	6322-032	Tunnel	West	TSI-11	Black wrap over gray fibrous insulation around 8-inch pipe that extends underground
13	6322-033	Tunnel	West	TSI-11	Black wrap over gray fibrous insulation around 8-inch pipe that extends underground
13	6322-034	Tunnel	West	MSC-01	Black tar material on concrete exterior of underground pipe entrance
13	6322-035	Tunnel	West	MSC-01	Black tar material on concrete exterior of underground pipe entrance
13	6322-036	Tunnel	West	MSC-01	Black tar material on concrete exterior of underground pipe entrance

Figure 3: ACM Sample Locations – Vaults

Map ID	Sample ID	Section Name	Location	Index	Material
1	6322-037	Vault 1	Center	TSI-12	Metal cover over fiberglass insulation on 8-inch pipe run
1	6322-038	Vault 1	Center	TSI-12	Metal cover over fiberglass insulation on 8-inch pipe run
1	6322-039	Vault 1	Center	TSI-12	Metal cover over fiberglass insulation on 8-inch pipe run
1	6322-040	Vault 1	Center	TSI-13	White cloth wrap over fiberglass insulation around valves
1	6322-041	Vault 1	Center	TSI-13	White cloth wrap over fiberglass insulation around valves
1	6322-042	Vault 1	Center	TSI-15	White cloth wrap over fiberglass insulation around valves
3	6322-043	Vault 2	South	TSI-15	Brown wrap over gray fibrous insulation around 8-inch pipe run
3	6322-044	Vault 2	South	TSI-15	Brown wrap over gray fibrous insulation around 8-inch pipe run
3	6322-045	Vault 2	North	TSI-15	Brown wrap over gray fibrous insulation around 8-inch pipe run
3	6322-046	Vault 2	Center	TSI-15	Residual pipe insulation on rusty deteriorated pipe
3	6322-047	Vault 2	Center	TSI-15	Residual pipe insulation on rusty deteriorated pipe
3	6322-048	Vault 2	Center	TSI-15	Residual pipe insulation on rusty deteriorated pipe

Map ID	Sample ID	Section Name	Location	Index	Material
2	6322-049	Vault 3	South	TSI-16	Metal cover over fiberglass insulation around 8-inch pipe run
2	6322-050	Vault 3	South	TSI-16	Metal cover over fiberglass insulation around 8-inch pipe run
2	6322-051	Vault 3	North	TSI-16	Metal cover over fiberglass insulation around 8-inch pipe run
2	6322-052	Vault 3	Center	TSI-17	White cloth wrap over fiberglass insulation around valves
2	6322-053	Vault 3	Center	TSI-17	White cloth wrap over fiberglass insulation around valves
2	6322-054	Vault 3	Center	TSI-17	White cloth wrap over fiberglass insulation around valves
2	6322-055	Vault 3	Center	TSI-18	Residual pipe insulation on rusty deteriorated pipe
2	6322-056	Vault 3	Center	TSI-18	Residual pipe insulation on rusty deteriorated pipe
2	6322-057	Vault 3	Center	TSI-18	Residual pipe insulation on rusty deteriorated pipe
2	6322-058	Vault 3	East	MSC-02	Red gasket between pipes
2	6322-059	Vault 3	East	MSC-02	Red gasket between pipes
2	6322-060	Vault 3	East	MSC-02	Red gasket between pipes

FULCRUM environmental consulting

Attachment A

Professional Certifications

P. 509.574.0839 F. 509.575.8453
406 North 2nd Street
Yakima, Washington 98901
efulcrum.net

Certificate of Completion

This is to certify that

Roque E. Reyes

has satisfactorily completed
4 hours of online refresher training as an

AHERA Building Inspector

to comply with the training requirements of
TSCA Title II, 40 CFR 763 (AHERA)

EPA Provider # 1085

183074
Certificate Number

ARGUS PACIFIC
TRAINING • CONSULTING
A Terracon COMPANY

Nov 24, 2021 Expires in 1 year.
Date(s) of Training

Exam Score: N/A
(if applicable)

Instructor: David Welch

ARGUS PACIFIC, INC / 21905 64th AVE W, SUITE 100 / MOUNTLAKE TERRACE, WASHINGTON 98043 / 206.285.3373 / ARGUSPACIFIC.COM

The Board for Global EHS Credentialing (BGC)

through its vested authority, hereby confirms that

Ryan K. Mathews

has met all requirements of education, experience, and examination, and on-going maintenance set forth through the BGC's American Board of Industrial Hygiene® (ABIH®) credentialing division for re-certification in the Comprehensive Practice of Industrial Hygiene and is thereby conferred the credential of

Certified Industrial Hygienist® (CIH®)

The aforenamed individual is given all rights, privileges, and responsibilities as both a diplomate of the BGC and holder of the CIH credential, provided that the credential is not suspended or revoked, and it is renewed annually. Moreover, the holder must meet all recertification requirements, including the obligation to practice ethically as prescribed by the BGC.

Credential Number:	9916 CP
Award Date:	May 6, 2011
Expiration Date:	December 1, 2026

Alan Leibowitz, CIH, CSP, FAIHA
Chair of the Board of Directors

Ulric K. Chung, MCS, PhD
Chief Executive Officer and Secretary

Attachment B

Photograph Layout

P. 509.574.0839 F. 509.575.8453
406 North 2nd Street
Yakima, Washington 98901
efulcrum.net

The southwest entrance to Quinn Coliseum.

The tunnel is accessed through a hatch located in the southwest hallway near the southwest entrance.

The tunnel is occupied by various sized piping.

Most pipes were observed with newer fiberglass insulation.

The main steam line was observed to be in poor condition.

The gray fibrous insulation was identified with 60% Amosite asbestos.

A black tar material was observed on concrete above the steam line. The black tar was identified with 12% Chrysotile asbestos.

The main steam line extends below ground connecting to Vault 1.

Vault 1 is located outside of the southwest entrance to Quinn Coliseum.

A valve and a small section of the steam line were observed in Vault 1.

The steam line in Vault 1 was observed with a metal cover and fiberglass insulation.

The valve was observed with a blanket covering composed of white wrap with fiberglass insulation.

The steam line observed with damaged insulation in Vault 2.

The insulation around the steam line was observed to be in poor condition.

The insulation was identified with 60% Amosite asbestos.

A 4-inch deteriorated pipe was observed next to the steam line in Vault 2.

A valve and the section of the steam line is present in Vault 3.

The section of the steam line in Vault 3 was observed with deteriorated insulation.

A flange gasket was observed in Vault 3.

No other gaskets were accessible.

FULCRUM environmental consulting

Attachment C

Asbestos Containing Materials Summary Table
Asbestos Containing Materials Results

P. 509.574.0839 F. 509.575.8453
406 North 2nd Street
Yakima, Washington 98901
efulcrum.net

Asbestos Containing Materials Summary Table

Sample ID	Location[1]	Section Name	Index	Material	Layers	Analytical Result	Comment	Greater than 1%	Friability	Current Condition	Less than 1%
6322-001	West	Tunnel	TSI-01	White wrap over fiberglass insulation around 2-inch pipe runs	2	Composite		No	Friable	Damaged	No
6322-001 Layer 1	West	Tunnel	-	White/Silver Wrap	-	ND		No	Friable	Damaged	No
6322-001 Layer 2	West	Tunnel	-	Yellow Insulation	-	ND		No	Friable	Damaged	No
6322-002	Center	Tunnel	TSI-01	White wrap over fiberglass insulation around 2-inch pipe runs	2	Composite		No	Friable	Damaged	No
6322-002 Layer 1	Center	Tunnel	-	White/Silver Wrap	-	ND		No	Friable	Damaged	No
6322-002 Layer 2	Center	Tunnel	-	Yellow Insulation	-	ND		No	Friable	Damaged	No
6322-003	East	Tunnel	TSI-01	White wrap over fiberglass insulation around 2-inch pipe runs	2	Composite		No	Friable	Damaged	No
6322-003 Layer 1	East	Tunnel	-	White/Silver Wrap	-	ND		No	Friable	Damaged	No
6322-003 Layer 2	East	Tunnel	-	Yellow Insulation	-	ND		No	Friable	Damaged	No
6322-004	West	Tunnel	TSI-02	White plastic over fiberglass insulation around 2-inch JETs	3	Composite		No	Friable	Damaged	No
6322-004 Layer 1	West	Tunnel	-	White Plastic	-	ND		No	Friable	Damaged	No
6322-004 Layer 2	West	Tunnel	-	White/Silver Wrap	-	ND		No	Friable	Damaged	No
6322-004 Layer 3	West	Tunnel	-	Yellow Insulation	-	ND		No	Friable	Damaged	No
6322-005	Center	Tunnel	TSI-02	White plastic over fiberglass insulation around 2-inch JETs	3	Composite		No	Friable	Damaged	No
6322-005 Layer 1	Center	Tunnel	-	White Plastic	-	ND		No	Friable	Damaged	No
6322-005 Layer 2	Center	Tunnel	-	White/Silver Wrap	-	ND		No	Friable	Damaged	No
6322-005 Layer 3	Center	Tunnel	-	Yellow Insulation	-	ND		No	Friable	Damaged	No
6322-006	East	Tunnel	TSI-02	White plastic over fiberglass insulation around 2-inch JETs	5	Composite		No	Friable	Damaged	No
6322-006 Layer 1	East	Tunnel	-	White Plastic	-	ND		No	Friable	Damaged	No
6322-006 Layer 2	East	Tunnel	-	White/Silver Wrap	-	ND		No	Friable	Damaged	No
6322-006 Layer 3	East	Tunnel	-	Tan/Silver Wrap	-	ND		No	Friable	Damaged	No
6322-006 Layer 4	East	Tunnel	-	Clear Yellow Adhesive	-	ND		No	Friable	Damaged	No
6322-006 Layer 5	East	Tunnel	-	Yellow Insulation	-	ND		No	Friable	Damaged	No
6322-007	West	Tunnel	TSI-03	White wrap over fibeglass insulation around 4-inch pipe runs	2	Composite		No	Friable	Damaged	No
6322-007 Layer 1	West	Tunnel	-	White/Silver Wrap	-	ND		No	Friable	Damaged	No
6322-007 Layer 2	West	Tunnel	-	Yellow/Orange Insulation	-	ND		No	Friable	Damaged	No
6322-008	Center	Tunnel	TSI-03	White wrap over fibeglass insulation around 4-inch pipe runs	2	Composite		No	Friable	Damaged	No
6322-008 Layer 1	Center	Tunnel	-	White/Silver Wrap	-	ND		No	Friable	Damaged	No
6322-008 Layer 2	Center	Tunnel	-	Yellow/Orange Insulation	-	ND		No	Friable	Damaged	No
6322-009	East	Tunnel	TSI-03	White wrap over fibeglass insulation around 4-inch pipe runs	2	Composite		No	Friable	Damaged	No
6322-009 Layer 1	East	Tunnel	-	Tan/Silver Wrap	-	ND		No	Friable	Damaged	No
6322-009 Layer 2	East	Tunnel	-	Yellow Insulation	-	ND		No	Friable	Damaged	No
6322-010	West	Tunnel	TSI-04	White plastic over fiberglass insulation around 4-inch JETs	2	Composite		No	Friable	Damaged	No
6322-010 Layer 1	West	Tunnel	-	White Plastic	-	ND		No	Friable	Damaged	No
6322-010 Layer 2	West	Tunnel	-	Tan/Rusty Insulation	-	ND		No	Friable	Damaged	No
6322-011	Center	Tunnel	TSI-04	White plastic over fiberglass insulation around 4-inch JETs	2	Composite		No	Friable	Damaged	No
6322-011 Layer 1	Center	Tunnel	-	White Plastic	-	ND		No	Friable	Damaged	No
6322-011 Layer 2	Center	Tunnel	-	Tan/Rusty Insulation	-	ND		No	Friable	Damaged	No
6322-012	East	Tunnel	TSI-04	White plastic over fiberglass insulation around 4-inch JETs	2	Composite		No	Friable	Damaged	No

Sample ID	Location[1]	Section Name	Index	Material	Layers	Analytical Result	Comment	Greater than 1%	Friability	Current Condition	Less than 1%
6322-012 Layer 1	East	Tunnel	-	White Plastic	-	ND		No	Friable	Damaged	No
6322-012 Layer 2	East	Tunnel	-	Tan/Rusty Insulation	-	ND		No	Friable	Damaged	No
6322-013	West	Tunnel	TSI-05	White wrap over fiberglass insulation around 6-inch pipe runs	2	Composite		No	Friable	Damaged	No
6322-013 Layer 1	West	Tunnel	-	Tan/Silver Wrap	-	ND		No	Friable	Damaged	No
6322-013 Layer 2	West	Tunnel	-	Yellow Insulation	-	ND		No	Friable	Damaged	No
6322-014	Center	Tunnel	TSI-05	White wrap over fiberglass insulation around 6-inch pipe runs	2	Composite		No	Friable	Damaged	No
6322-014 Layer 1	Center	Tunnel	-	White/Silver Wrap	-	ND		No	Friable	Damaged	No
6322-014 Layer 2	Center	Tunnel	-	Yellow Insulation	-	ND		No	Friable	Damaged	No
6322-015	East	Tunnel	TSI-05	White wrap over fiberglass insulation around 6-inch pipe runs	2	Composite		No	Friable	Damaged	No
6322-015 Layer 1	East	Tunnel	-	White/Silver Wrap	-	ND		No	Friable	Damaged	No
6322-015 Layer 2	East	Tunnel	-	Yellow Insulation	-	ND		No	Friable	Damaged	No
6322-016	West	Tunnel	TSI-06	White plastic over fiberglass insulation around 6-inch JETs	2	Composite		No	Friable	Damaged	No
6322-016 Layer 1	West	Tunnel	-	White Plastic	-	ND		No	Friable	Damaged	No
6322-016 Layer 2	West	Tunnel	-	Yellow Insulation	-	ND		No	Friable	Damaged	No
6322-017	Center	Tunnel	TSI-06	White plastic over fiberglass insulation around 6-inch JETs	2	Composite		No	Friable	Damaged	No
6322-017 Layer 1	Center	Tunnel	-	White Plastic	-	ND		No	Friable	Damaged	No
6322-017 Layer 2	Center	Tunnel	-	Rusty Insulation	-	ND		No	Friable	Damaged	No
6322-018	East	Tunnel	TSI-06	White plastic over fiberglass insulation around 6-inch JETs	2	Composite		No	Friable	Damaged	No
6322-018 Layer 1	East	Tunnel	-	White Plastic	-	ND		No	Friable	Damaged	No
6322-018 Layer 2	East	Tunnel	-	Tan/Rusty Insulation	-	ND		No	Friable	Damaged	No
6322-019	West	Tunnel	TSI-07	White wrap over fiberglass insulation around 8-inch pipe runs	2	Composite		No	Friable	Damaged	No
6322-019 Layer 1	West	Tunnel	-	White/Silver Wrap	-	ND		No	Friable	Damaged	No
6322-019 Layer 2	West	Tunnel	-	Yellow Insulation	-	ND		No	Friable	Damaged	No
6322-020	Center	Tunnel	TSI-07	White wrap over fiberglass insulation around 8-inch pipe runs	2	Composite		No	Friable	Damaged	No
6322-020 Layer 1	Center	Tunnel	-	White/Silver Wrap	-	ND		No	Friable	Damaged	No
6322-020 Layer 2	Center	Tunnel	-	Yellow Insulation	-	ND		No	Friable	Damaged	No
6322-021	West	Tunnel	TSI-07	White wrap over fiberglass insulation around 8-inch pipe runs	2	Composite		No	Friable	Damaged	No
6322-021 Layer 1	West	Tunnel	-	White/Silver Wrap	-	ND		No	Friable	Damaged	No
6322-021 Layer 2	West	Tunnel	-	Yellow Insulation	-	ND		No	Friable	Damaged	No
6322-022	West	Tunnel	TSI-08	White plastic over fiberglass insulation around 8-inch JETs	2	Composite		No	Friable	Damaged	No
6322-022 Layer 1	West	Tunnel	-	White Plastic	-	ND		No	Friable	Damaged	No
6322-022 Layer 2	West	Tunnel	-	Cream Insulation	-	ND		No	Friable	Damaged	No
6322-023	Center	Tunnel	TSI-08	White plastic over fiberglass insulation around 8-inch JETs	2	Composite		No	Friable	Damaged	No
6322-023 Layer 1	Center	Tunnel	-	White Plastic	-	ND		No	Friable	Damaged	No
6322-023 Layer 2	Center	Tunnel	-	Cream Insulation	-	ND		No	Friable	Damaged	No
6322-024	West	Tunnel	TSI-08	White plastic over fiberglass insulation around 8-inch JETs	3	Composite		No	Friable	Damaged	No
6322-024 Layer 1	West	Tunnel	-	White Plastic	-	ND		No	Friable	Damaged	No
6322-024 Layer 2	West	Tunnel	-	White/Silver/Tan Wrap	-	ND		No	Friable	Damaged	No
6322-024 Layer 3	West	Tunnel	-	Cream Insulation	-	ND		No	Friable	Damaged	No
6322-025	West	Tunnel	TSI-09	White wrap over fiberglass insulation around 10-inch pipes	2	Composite		No	Friable	Damaged	No

Sample ID	Location[1]	Section Name	Index	Material	Layers	Analytical Result	Comment	Greater than 1%	Friability	Current Condition	Less than 1%
6322-025 Layer 1	West	Tunnel	-	White/Silver Wrap	-	ND		No	Friable	Damaged	No
6322-025 Layer 2	West	Tunnel	-	White/Tan Insulation	-	ND		No	Friable	Damaged	No
6322-026	Center	Tunnel	TSI-09	White wrap over fiberglass insulation around 10-inch pipes	2	Composite		No	Friable	Damaged	No
6322-026 Layer 1	Center	Tunnel	-	White/Silver Wrap	-	ND		No	Friable	Damaged	No
6322-026 Layer 2	Center	Tunnel	-	Yellow/Rusty Insulation	-	ND		No	Friable	Damaged	No
6322-027	Center	Tunnel	TSI-09	White wrap over fiberglass insulation around 10-inch pipes	2	Composite		No	Friable	Damaged	No
6322-027 Layer 1	Center	Tunnel	-	Tan/Silver Wrap	-	ND		No	Friable	Damaged	No
6322-027 Layer 2	Center	Tunnel	-	Yellow Insulation	-	ND		No	Friable	Damaged	No
6322-028	West	Tunnel	TSI-10	White plastic over fiberglass insulation around 10-inch JETs	2	Composite		No	Friable	Damaged	No
6322-028 Layer 1	West	Tunnel	-	White Plastic	-	ND		No	Friable	Damaged	No
6322-028 Layer 2	West	Tunnel	-	Cream Insulation	-	ND		No	Friable	Damaged	No
6322-029	Center	Tunnel	TSI-10	White plastic over fiberglass insulation around 10-inch JETs	3	Composite		No	Friable	Damaged	No
6322-029 Layer 1	Center	Tunnel	-	White Plastic	-	ND		No	Friable	Damaged	No
6322-029 Layer 2	Center	Tunnel	-	White/Silver Wrap	-	ND		No	Friable	Damaged	No
6322-029 Layer 3	Center	Tunnel	-	Cream Insulation	-	ND		No	Friable	Damaged	No
6322-030	Center	Tunnel	TSI-10	White plastic over fiberglass insulation around 10-inch JETs	3	Composite		No	Friable	Damaged	No
6322-030 Layer 1	Center	Tunnel	-	White Plastic	-	ND		No	Friable	Damaged	No
6322-030 Layer 2	Center	Tunnel	-	White/Silver Wrap	-	ND		No	Friable	Damaged	No
6322-030 Layer 3	Center	Tunnel	-	Cream Insulation	-	ND		No	Friable	Damaged	No
6322-031	West	Tunnel	TSI-11	Black wrap over gray fibrous insulation around 8-inch pipe that extends underground	2	Composite	**60% Amosite** in gray insulation layer	**Yes**	Friable	Damaged	No
6322-031 Layer 1	West	Tunnel	-	Dark Brown Wrap	-	ND		No	Friable	Damaged	No
6322-031 Layer 2	West	Tunnel	-	Gray Insulation	-	**60% Amosite**		**Yes**	Friable	Damaged	No
6322-032	West	Tunnel	TSI-11	Black wrap over gray fibrous insulation around 8-inch pipe that extends underground	N/A	*Not Analyzed*	*See sample 6322-031 for sample analysis*	No	Friable	Damaged	No
6322-033	West	Tunnel	TSI-11	Black wrap over gray fibrous insulation around 8-inch pipe that extends underground	N/A	*Not Analyzed*	*See sample 6322-031 for sample analysis*	No	Friable	Damaged	No
6322-034	West	Tunnel	MSC-01	Black tar material on concrete exterior of underground pipe entrance	3	Composite	**70% Chrysotile** in black felt layer	**Yes**	Friable	Damaged	No
6322-034 Layer 1	West	Tunnel	-	Black Felt	-	**70% Chrysotile**		**Yes**	Friable	Damaged	No
6322-034 Layer 2	West	Tunnel	-	Black Tarry Material	-	ND		No	Friable	Damaged	No
6322-034 Layer 3	West	Tunnel	-	Gray Cementitious Material	-	ND		No	Friable	Damaged	No
6322-035	West	Tunnel	MSC-01	Black tar material on concrete exterior of underground pipe entrance	N/A	*Not Analyzed*	*See sample 6322-034 for sample analysis*	No	Friable	Damaged	No
6322-036	West	Tunnel	MSC-01	Black tar material on concrete exterior of underground pipe entrance	N/A	*Not Analyzed*	*See sample 6322-034 for sample analysis*	No	Friable	Damaged	No
6322-037	Center	Vault 1	TSI-12	Metal cover over fiberglass insulation on 8-inch pipe run	2	Composite		No	Friable	Damaged	No
6322-037 Layer 1	Center	Vault 1	-	Silver Metal Sheet	-	ND		No	Friable	Damaged	No
6322-037 Layer 2	Center	Vault 1	-	Tan Insulation	-	ND		No	Friable	Damaged	No
6322-038	Center	Vault 1	TSI-12	Metal cover over fiberglass insulation on 8-inch pipe run	2	Composite		No	Friable	Damaged	No
6322-038 Layer 1	Center	Vault 1	-	Silver Metal Sheet	-	ND		No	Friable	Damaged	No

Sample ID	Location[1]	Section Name	Index	Material	Layers	Analytical Result	Comment	Greater than 1%	Friability	Current Condition	Less than 1%
6322-038 Layer 2	Center	Vault 1	-	Tan Insulation	-	ND		No	Friable	Damaged	No
6322-039	Center	Vault 1	TSI-12	Metal cover over fiberglass insulation on 8-inch pipe run	2	Composite		No	Friable	Damaged	No
6322-039 Layer 1	Center	Vault 1	-	Silver Metal Sheet	-	ND		No	Friable	Damaged	No
6322-039 Layer 2	Center	Vault 1	-	Tan Insulation	-	ND		No	Friable	Damaged	No
6322-040	Center	Vault 1	TSI-13	White cloth wrap over fiberglass insulation around valves	2	Composite		No	Friable	Damaged	No
6322-040 Layer 1	Center	Vault 1	-	Gray Wrap	-	ND		No	Friable	Damaged	No
6322-040 Layer 2	Center	Vault 1	-	Cream Insulation	-	ND		No	Friable	Damaged	No
6322-041	Center	Vault 1	TSI-13	White cloth wrap over fiberglass insulation around valves	2	Composite		No	Friable	Damaged	No
6322-041 Layer 1	Center	Vault 1	-	Gray Wrap	-	ND		No	Friable	Damaged	No
6322-041 Layer 2	Center	Vault 1	-	Cream Insulation	-	ND		No	Friable	Damaged	No
6322-042	Center	Vault 1	TSI-13	White cloth wrap over fiberglass insulation around valves	2	Composite		No	Friable	Damaged	No
6322-042 Layer 1	Center	Vault 1	-	Gray Wrap	-	ND		No	Friable	Damaged	No
6322-042 Layer 2	Center	Vault 1	-	Cream Insulation	-	ND		No	Friable	Damaged	No
6322-043	South	Vault 2	TSI-14	Brown wrap over gray fibrous insulation around 8-inch pipe run	2	**65% Amosite**	**65% Amosite** in brown/gray insulation layer	No	Friable	Damaged	No
6322-044	South	Vault 2	TSI-14	Brown wrap over gray fibrous insulation around 8-inch pipe run	N/A	*Not Analyzed*	*See sample 6322-043 for sample analysis*	No	Friable	Damaged	No
6322-045	North	Vault 2	TSI-14	Brown wrap over gray fibrous insulation around 8-inch pipe run	N/A	*Not Analyzed*	*See sample 6322-043 for sample analysis*	No	Friable	Damaged	No
6322-046	Center	Vault 2	TSI-15	Residual pipe insulation on rusty deteriorated pipe	1	ND		No	Friable	Damaged	No
6322-047	Center	Vault 2	TSI-15	Residual pipe insulation on rusty deteriorated pipe	1	ND		No	Friable	Damaged	No
6322-048	Center	Vault 2	TSI-15	Residual pipe insulation on rusty deteriorated pipe	1	ND		No	Friable	Damaged	No
6322-049	South	Vault 3	TSI-16	Metal cover over fiberglass insulation around 8-inch pipe run	2	Composite		No	Friable	Damaged	No
6322-049 Layer 1	South	Vault 3	-	Silver Metal Sheet	-	ND		No	Friable	Damaged	No
6322-049 Layer 2	South	Vault 3	-	Cream Insulation	-	ND		No	Friable	Damaged	No
6322-050	South	Vault 3	TSI-16	Metal cover over fiberglass insulation around 8-inch pipe run	2	Composite		No	Friable	Damaged	No
6322-050 Layer 1	South	Vault 3	-	Silver Metal Sheet	-	ND		No	Friable	Damaged	No
6322-050 Layer 2	South	Vault 3	-	Cream Insulation	-	ND		No	Friable	Damaged	No
6322-051	North	Vault 3	TSI-16	Metal cover over fiberglass insulation around 8-inch pipe run	2	Composite		No	Friable	Damaged	No
6322-051 Layer 1	North	Vault 3	-	Silver Metal Sheet	-	ND		No	Friable	Damaged	No
6322-051 Layer 2	North	Vault 3	-	Cream Insulation	-	ND		No	Friable	Damaged	No
6322-052	Center	Vault 3	TSI-17	White cloth wrap over fiberglass insulation around valves	2	Composite		No	Friable	Damaged	No
6322-052 Layer 1	Center	Vault 3	-	Tan Wrap	-	ND		No	Friable	Damaged	No
6322-052 Layer 2	Center	Vault 3	-	White Insulation	-	ND		No	Friable	Damaged	No
6322-053	Center	Vault 3	TSI-17	White cloth wrap over fiberglass insulation around valves	2	Composite		No	Friable	Damaged	No
6322-053 Layer 1	Center	Vault 3	-	Tan Wrap	-	ND		No	Friable	Damaged	No
6322-053 Layer 2	Center	Vault 3	-	White Insulation	-	ND		No	Friable	Damaged	No
6322-054	Center	Vault 3	TSI-17	White cloth wrap over fiberglass insulation around valves	2	Composite		No	Friable	Damaged	No
6322-054 Layer 1	Center	Vault 3	-	Tan Wrap	-	ND		No	Friable	Damaged	No
6322-054 Layer 2	Center	Vault 3	-	White/Tan Insulation	-	ND		No	Friable	Damaged	No
6322-055	Center	Vault 3	TSI-18	Residual pipe insulation on rusty deteriorated pipe	1	ND		No	Friable	Damaged	No
6322-056	Center	Vault 3	TSI-18	Residual pipe insulation on rusty deteriorated pipe	1	ND		No	Friable	Damaged	No
6322-057	Center	Vault 3	TSI-18	Residual pipe insulation on rusty deteriorated pipe	1	ND		No	Friable	Damaged	No

Sample ID	Location[1]	Section Name	Index	Material	Layers	Analytical Result	Comment	Greater than 1%	Friability	Current Condition	Less than 1%
6322-058	East	Vault 3	MSC-02	Red gasket between pipes	1	ND		No	Friable	Good	No
6322-059	East	Vault 3	MSC-02	Red gasket between pipes	1	ND		No	Friable	Good	No
6322-060	East	Vault 3	MSC-02	Red gasket between pipes	1	ND		No	Friable	Good	No

1. Locations identified in the table may not reflect reflect the locations sampled and may not represent all locations of identified materials.
2. ND = Non-Detect

NVLAP TESTING
NVLAP LAB CODE 500097-0

Aerobiology Laboratory Associates, INCORPORATED
A Pace Analytical® Laboratory

Aerobiology Laboratory Associates, Inc.
2226 W Northern Ave., Suite C-110
Phoenix , AZ 85021
(602) 441-3700
www.aerobiology.net

Client:
Fulcrum Environmental Consulting
406 North 2nd Street
Yakima, WA 98901
Attn: Ryan Mathews

Certificate of Analysis

Project Name: J3TBP8 - 223507.02 Quinn Coliseum

Proiect ID: 22021330

Date Collected: 06/03/22
Date Received: 06/07/22
Date Analyzed: 06/09/22
Date Reported: 06/09/22
Job ID:

Test Requested**: Asbestos Bulk Analysis, Polarized Light Microscopy (PLM):** EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos		Non-Asbestos		
Client	Lab Sample Number				Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
6322-001	22021330-001-A	White/Silver Wrap	N	45	ND		75	25	B,CELL,FBG
	22021330-001-B	Yellow Insulation	N	55	ND		95	5	FBG
6322-002	22021330-002-A	White/Silver Wrap	N	7	ND		75	25	B,CELL,FBG
	22021330-002-B	Yellow Insulation	N	93	ND		95	5	FBG
6322-003	22021330-003-A	White/Silver Wrap	N	18	ND		75	25	B,CELL,FBG
	22021330-003-B	Yellow Insulation	N	82	ND		95	5	FBG
6322-004	22021330-004-A	White Plastic	Y	20	ND			100	
	22021330-004-B	White/Silver Wrap	N	20	ND		75	25	B,CELL,FBG
	22021330-004-C	Yellow Insulation	N	60	ND		95	5	FBG

Elle Teague
Analyst

Elle Teague
Manager-Asbestos

A Amosite
AC Actinolite
AN Anthophyllite
CHRY Chrysotile
CR Crocidolite
TR Tremolite
Trace Less Than 1%
ND None Detected

Q Quartz
C Carbonates
G Gypsum
M Mica
T Tar
P Perlite
B Binder
D Diatoms

CELL Cellulose
MW Mineral Wool
FBG Fiberglass
SYN Synthetic
WO Wollastonite
FT Fibrous Talc
AH Animal Hair
NAC Non-Asbestiform AC
NTR Non-Asbestiform TR

NVLAP TESTING
NVLAP LAB CODE 500097-0

Aerobiology Laboratory Associates, Incorporated
A Pace Analytical® Laboratory

Aerobiology Laboratory Associates, Inc.
2226 W Northern Ave., Suite C-110
Phoenix , AZ 85021
(602) 441-3700
www.aerobiology.net

Client:
Fulcrum Environmental Consulting
406 North 2nd Street
Yakima, WA 98901
Attn: Ryan Mathews

Certificate of Analysis

Project Name: J3TBP8 - 223507.02 Quinn Coliseum

Proiect ID: 22021330

Date Collected: 06/03/22
Date Received: 06/07/22
Date Analyzed: 06/09/22
Date Reported: 06/09/22
Job ID:

Test Requested**: Asbestos Bulk Analysis, Polarized Light Microscopy (PLM):** EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos		Non-Asbestos		
Client	Lab Sample Number				Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
6322-005	22021330-005-A	White Plastic	Y	25	ND			100	
	22021330-005-B	White/Silver Wrap	N	5	ND		75	25	B,CELL,FBG
	22021330-005-C	Yellow Insulation	N	70	ND		95	5	FBG
6322-006	22021330-006-A	White Plastic	Y	40	ND			100	
	22021330-006-B	White/Silver Wrap	N	8	ND		75	25	B,CELL,FBG
	22021330-006-C	Tan/Silver Wrap	N	17	ND		75	25	B,CELL,FBG
	22021330-006-D	Clear Yellow Adhesive	N	23	ND		Trace	100	B
	22021330-006-E	Yellow Insulation	N	12	ND		95	5	FBG
6322-007	22021330-007-A	White/Silver Wrap	N	45	ND		75	25	B,CELL,FBG
	22021330-007-B	Yellow/Orange Insulation	N	55	ND		95	5	FBG

Elle Teague
Analyst

Elle Teague
Manager-Asbestos

A Amosite
AC Actinolite
AN Anthophyllite
CHRY Chrysotile
CR Crocidolite
TR Tremolite
Trace Less Than 1%
ND None Detected

Q Quartz
C Carbonates
G Gypsum
M Mica
T Tar
P Perlite
B Binder
D Diatoms

CELL Cellulose
MW Mineral Wool
FBG Fiberglass
SYN Synthetic
WO Wollastonite
FT Fibrous Talc
AH Animal Hair
NAC Non-Asbestiform AC
NTR Non-Asbestiform TR

NVLAP LAB CODE 500097-0

Aerobiology Laboratory Associates, Inc.
2226 W Northern Ave., Suite C-110
Phoenix , AZ 85021
(602) 441-3700
www.aerobiology.net

Client:
Fulcrum Environmental Consulting
406 North 2nd Street
Yakima, WA 98901
Attn: Ryan Mathews

Certificate of Analysis

Project Name: J3TBP8 - 223507.02 Quinn Coliseum

Proiect ID: 22021330

Date Collected: 06/03/22
Date Received: 06/07/22
Date Analyzed: 06/09/22
Date Reported: 06/09/22
Job ID:

Test Requested**: Asbestos Bulk Analysis, Polarized Light Microscopy (PLM):** EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos		Non-Asbestos		
Client	Lab Sample Number				Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
6322-008	22021330-008-A	White/Silver Wrap	N	15	ND		75	25	B,CELL,FBG
	22021330-008-B	Yellow/Orange Insulation	N	85	ND		95	5	FBG
6322-009	22021330-009-A	Tan/Silver Wrap	N	20	ND		75	25	B,CELL,FBG
	22021330-009-B	Yellow Insulation	N	80	ND		95	5	FBG
6322-010	22021330-010-A	White Plastic	Y	12	ND			100	
	22021330-010-B	Tan/Rusty Insulation	N	88	ND		93	7	FBG
6322-011	22021330-011-A	White Plastic	Y	15	ND			100	
	22021330-011-B	Tan/Rusty Insulation	N	85	ND		93	7	FBG
6322-012	22021330-012-A	White Plastic	Y	12	ND			100	
	22021330-012-B	Tan/Rusty Insulation	N	88	ND		93	7	FBG

Elle Teague
Analyst

Elle Teague
Manager-Asbestos

A Amosite
AC Actinolite
AN Anthophyllite
CHRY Chrysotile
CR Crocidolite
TR Tremolite
Trace Less Than 1%
ND None Detected

Q Quartz
C Carbonates
G Gypsum
M Mica
T Tar
P Perlite
B Binder
D Diatoms

CELL Cellulose
MW Mineral Wool
FBG Fiberglass
SYN Synthetic
WO Wollastonite
FT Fibrous Talc
AH Animal Hair
NAC Non-Asbestiform AC
NTR Non-Asbestiform TR

NVLAP LAB CODE 500097-0

Aerobiology Laboratory Associates, Inc.
2226 W Northern Ave., Suite C-110
Phoenix , AZ 85021
(602) 441-3700
www.aerobiology.net

Client:
Fulcrum Environmental Consulting
406 North 2nd Street
Yakima, WA 98901
Attn: Ryan Mathews

Certificate of Analysis

Project Name: J3TBP8 - 223507.02 Quinn Coliseum

Proiect ID: 22021330

Date Collected: 06/03/22
Date Received: 06/07/22
Date Analyzed: 06/09/22
Date Reported: 06/09/22
Job ID:

Test Requested**: Asbestos Bulk Analysis, Polarized Light Microscopy (PLM):** EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos		Non-Asbestos		
Client	Lab Sample Number				Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
6322-013	22021330-013-A	Tan/Silver Wrap	N	18	ND		75	25	B,CELL,FBG
	22021330-013-B	Yellow Insulation	N	82	ND		95	5	FBG
6322-014	22021330-014-A	White/Silver Wrap	N	20	ND		75	25	B,CELL,FBG
	22021330-014-B	Yellow Insulation	N	80	ND		95	5	FBG
6322-015	22021330-015-A	White/Silver Wrap	N	23	ND		75	25	B,CELL,FBG
	22021330-015-B	Yellow Insulation	N	77	ND		95	5	FBG
6322-016	22021330-016-A	White Plastic	Y	30	ND			100	
	22021330-016-B	Yellow Insulation	N	70	ND		95	5	FBG
6322-017	22021330-017-A	White Plastic	Y	60	ND			100	
	22021330-017-B	Rusty Insulation	N	40	ND		95	5	FBG

Elle Teague
Analyst

Elle Teague
Manager-Asbestos

A Amosite
AC Actinolite
AN Anthophyllite
CHRY Chrysotile
CR Crocidolite
TR Tremolite
Trace Less Than 1%
ND None Detected

Q Quartz
C Carbonates
G Gypsum
M Mica
T Tar
P Perlite
B Binder
D Diatoms

CELL Cellulose
MW Mineral Wool
FBG Fiberglass
SYN Synthetic
WO Wollastonite
FT Fibrous Talc
AH Animal Hair
NAC Non-Asbestiform AC
NTR Non-Asbestiform TR

NVLAP LAB CODE 500097-0

Aerobiology Laboratory Associates, Inc.
2226 W Northern Ave., Suite C-110
Phoenix , AZ 85021
(602) 441-3700
www.aerobiology.net

Client:
Fulcrum Environmental Consulting
406 North 2nd Street
Yakima, WA 98901
Attn: Ryan Mathews

Certificate of Analysis

Project Name: J3TBP8 - 223507.02 Quinn Coliseum

Proiect ID: 22021330

Date Collected: 06/03/22
Date Received: 06/07/22
Date Analyzed: 06/09/22
Date Reported: 06/09/22
Job ID:

Test Requested**: Asbestos Bulk Analysis, Polarized Light Microscopy (PLM):** EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos		Non-Asbestos		
Client	Lab Sample Number				Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
6322-018	22021330-018-A	White Plastic	Y	15	ND			100	
	22021330-018-B	Tan/Rusty Insulation	N	85	ND		93	7	FBG
6322-019	22021330-019-A	White/Silver Wrap	N	18	ND		75	25	B,CELL,FBG
	22021330-019-B	Yellow Insulation	N	82	ND		95	5	FBG
6322-020	22021330-020-A	White/Silver Wrap	N	15	ND		75	25	B,CELL,FBG
	22021330-020-B	Yellow Insulation	N	85	ND		95	5	FBG
6322-021	22021330-021-A	White/Silver Wrap	N	15	ND		75	25	B,CELL,FBG
	22021330-021-B	Yellow Insulation	N	85	ND		95	5	FBG
6322-022	22021330-022-A	White Plastic	Y	40	ND			100	
	22021330-022-B	Cream Insulation	N	60	ND		97	3	MW

Elle Teague
Analyst

Elle Teague
Manager-Asbestos

A Amosite
AC Actinolite
AN Anthophyllite
CHRY Chrysotile
CR Crocidolite
TR Tremolite
Trace Less Than 1%
ND None Detected

Q Quartz
C Carbonates
G Gypsum
M Mica
T Tar
P Perlite
B Binder
D Diatoms

CELL Cellulose
MW Mineral Wool
FBG Fiberglass
SYN Synthetic
WO Wollastonite
FT Fibrous Talc
AH Animal Hair
NAC Non-Asbestiform AC
NTR Non-Asbestiform TR

NVLAP LAB CODE 500097-0

Aerobiology Laboratory Associates, Inc.
2226 W Northern Ave., Suite C-110
Phoenix , AZ 85021
(602) 441-3700
www.aerobiology.net

Client:
Fulcrum Environmental Consulting
406 North 2nd Street
Yakima, WA 98901
Attn: Ryan Mathews

Certificate of Analysis

Project Name: J3TBP8 - 223507.02 Quinn Coliseum

Proiect ID: 22021330

Date Collected: 06/03/22
Date Received: 06/07/22
Date Analyzed: 06/09/22
Date Reported: 06/09/22
Job ID:

Test Requested: **Asbestos Bulk Analysis, Polarized Light Microscopy (PLM):** EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos		Non-Asbestos		
Client	Lab Sample Number				Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
6322-023	22021330-023-A	White Plastic	Y	65	ND			100	
	22021330-023-B	Cream Insulation	N	35	ND		97	3	MN
6322-024	22021330-024-A	White Plastic	Y	20	ND			100	
	22021330-024-B	White/Silver/Tan Wrap	N	20	ND		80	20	B,CELL,FBG
	22021330-024-C	Cream Insulation	N	60	ND		97	3	MN
6322-025	22021330-025-A	White/Silver Wrap	N	18	ND		75	25	B,CELL,FBG
	22021330-025-B	White/Tan Insulation	N	82	ND		95	5	FBG
6322-026	22021330-026-A	White/Silver Wrap	N	15	ND		75	25	B,CELL,FBG
	22021330-026-B	Yellow/Rusty Insulation	N	85	ND		93	7	FBG

Elle Teague
Analyst

Elle Teague
Manager-Asbestos

A Amosite
AC Actinolite
AN Anthophyllite
CHRY Chrysotile
CR Crocidolite
TR Tremolite
Trace Less Than 1%
ND None Detected

Q Quartz
C Carbonates
G Gypsum
M Mica
T Tar
P Perlite
B Binder
D Diatoms

CELL Cellulose
MW Mineral Wool
FBG Fiberglass
SYN Synthetic
WO Wollastonite
FT Fibrous Talc
AH Animal Hair
NAC Non-Asbestiform AC
NTR Non-Asbestiform TR

NVLAP LAB CODE 500097-0

Aerobiology Laboratory Associates, Inc.
2226 W Northern Ave., Suite C-110
Phoenix , AZ 85021
(602) 441-3700
www.aerobiology.net

Client:
Fulcrum Environmental Consulting
406 North 2nd Street
Yakima, WA 98901
Attn: Ryan Mathews

Certificate of Analysis

Project Name: J3TBP8 - 223507.02 Quinn Coliseum

Proiect ID: 22021330

Date Collected: 06/03/22
Date Received: 06/07/22
Date Analyzed: 06/09/22
Date Reported: 06/09/22
Job ID:

Test Requested: **Asbestos Bulk Analysis, Polarized Light Microscopy (PLM):** EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos		Non-Asbestos		
Client	Lab Sample Number				Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
6322-027	22021330-027-A	Tan/Silver Wrap	N	30	ND		75	25	B,CELL,FBG
	22021330-027-B	Yellow Insulation	N	70	ND		95	5	FBG
6322-028	22021330-028-A	White Plastic	Y	50	ND			100	
	22021330-028-B	Cream Insulation	N	50	ND		97	3	MN
6322-029	22021330-029-A	White Plastic	Y	15	ND			100	
	22021330-029-B	White/Silver Wrap	N	25	ND		75	25	B,CELL,FBG
	22021330-029-C	Cream Insulation	N	60	ND		97	3	MN
6322-030	22021330-030-A	White Plastic	Y	20	ND			100	
	22021330-030-B	White/Silver Wrap	N	25	ND		75	25	B,CELL,FBG
	22021330-030-C	Cream Insulation	N	55	ND		97	3	MN

Elle Teague
Analyst

Elle Teague
Manager-Asbestos

A Amosite
AC Actinolite
AN Anthophyllite
CHRY Chrysotile
CR Crocidolite
TR Tremolite
Trace Less Than 1%
ND None Detected

Q Quartz
C Carbonates
G Gypsum
M Mica
T Tar
P Perlite
B Binder
D Diatoms

CELL Cellulose
MW Mineral Wool
FBG Fiberglass
SYN Synthetic
WO Wollastonite
FT Fibrous Talc
AH Animal Hair
NAC Non-Asbestiform AC
NTR Non-Asbestiform TR

NVLAP LAB CODE 500097-0

Aerobiology Laboratory Associates, Inc.
2226 W Northern Ave., Suite C-110
Phoenix , AZ 85021
(602) 441-3700
www.aerobiology.net

Client:
Fulcrum Environmental Consulting
406 North 2nd Street
Yakima, WA 98901
Attn: Ryan Mathews

Certificate of Analysis

Project Name: J3TBP8 - 223507.02 Quinn Coliseum

Proiect ID: 22021330

Date Collected: 06/03/22
Date Received: 06/07/22
Date Analyzed: 06/09/22
Date Reported: 06/09/22
Job ID:

Test Requested**: Asbestos Bulk Analysis, Polarized Light Microscopy (PLM):** EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos		Non-Asbestos		
Client	Lab Sample Number				Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
6322-031	22021330-031-A	Dark Brown Wrap	N	15	ND		94	6	CELL
	22021330-031-B	**Gray Insulation**	**N**	**85**	**A**	**60**		**40**	**G**
6322-032	22021330-032	Positive Stop							
6322-033	22021330-033	Positive Stop							
6322-034	**22021330-034-A**	**Black Felt**	**N**	**85**	**CHRY**	**70**	**5**	**25**	**T,B,CELL**
	22021330-034-B	Black Tarry Material	N	12	ND			100	T,B
	22021330-034-C	Gray Cementitious Material	N	3	ND		Trace	100	G
6322-035	22021330-035	Positive Stop							
6322-036	22021330-036	Positive Stop							

Elle Teague
Analyst

Elle Teague
Manager-Asbestos

A Amosite
AC Actinolite
AN Anthophyllite
CHRY Chrysotile
CR Crocidolite
TR Tremolite
Trace Less Than 1%
ND None Detected

Q Quartz
C Carbonates
G Gypsum
M Mica
T Tar
P Perlite
B Binder
D Diatoms

CELL Cellulose
MW Mineral Wool
FBG Fiberglass
SYN Synthetic
WO Wollastonite
FT Fibrous Talc
AH Animal Hair
NAC Non-Asbestiform AC
NTR Non-Asbestiform TR

NVLAP TESTING
NVLAP LAB CODE 500097-0

Aerobiology Laboratory Associates, Inc.
2226 W Northern Ave., Suite C-110
Phoenix , AZ 85021
(602) 441-3700
www.aerobiology.net

Client:
Fulcrum Environmental Consulting
406 North 2nd Street
Yakima, WA 98901
Attn: Ryan Mathews

Certificate of Analysis

Project Name: J3TBP8 - 223507.02 Quinn Coliseum

Proiect ID: 22021330

Date Collected: 06/03/22
Date Received: 06/07/22
Date Analyzed: 06/09/22
Date Reported: 06/09/22
Job ID:

General Notes

* **ND** indicates no asbestos was detected; the method detection limit is 1%.

* **Trace** or "<1" indicates asbestos was identified in the sample, but the concentration is less than 1%.

* All regulated asbestos minerals (i.e. chrysotile, amosite, crocidolite, anthophyllite, tremolite, and actinolite) were sought in every layer of each sample, but only those asbestos minerals detected are listed. Amosite is the common name for the asbestiform variety of the minerals cummingtonite and grunerite. Crocidolite is the common name used for the asbestiform variety of the mineral riebeckite.

* Tile, vinyl, foam, plastic, and fine powder samples may contain asbestos fibers of such small diameter (< 0.25 microns in diameter) that these fibers cannot be detected by PLM. For such samples, more sensitive analytical methods (e.g. TEM, SEM, and XRD) are recommended if greater certainty about asbestos content is required. Semi-quantitative bulk TEM floor tile analysis is accepted under NESHAP regulations.

* These results are submitted pursuant to Aerobiology Laboratory Associates, Inc.'s current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted.

* Unless notified in writing to return the samples covered by this report, Aerobiology Laboratory Associates, Inc. will store the samples for a minimum period of thirty (30) days before discarding. A shipping and handling charge will be assessed for the return of any samples.

* Aerobiology does not guarantee the results of tape lifts, microvacs, wipe, and/or debris samples. Accurate analysis cannot be performed due to particle size, media used, and/or amount of material given. Analysis of these materials should be performed by a TEM. A result of ND does not indicate that the sample area does not contain asbestos. It means the analyst could not identify asbestos in the specific sample for the reasons listed above.

Notes Required by NVLAP

* Aerobiology Laboratory shall be responsible for all the information provided in the report, except when information is provided by the customer. Aerobiology Laboratory is not responsible for the sampling activity.

* This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

* This test report relates only to the items tested or calibrated.

* This report is not valid unless it bears the name of a NVLAP-approved signatory.

22021330
6/7/22

J3TBP8

FULCRUM
environmental consulting

Fulcrum Environmental Consulting, Inc.
406 North 2nd Street
Yakima, Washington 98901

Chain of Custody

Project: 223507.02
Site Location: Quinn Coliseum
G Avenue
La Grande, Oregon 97850
Sampled By: Roque Reyes (Roque.Reyes@efulcrum.net)
Purpose: Hazardous Building Materials Inspection

Laboratory Notes

Stop after first positive for each HM

Turn-Around Time Request

3-5 Days

Samples

Sample ID	Material	Floor / Section	Space	Analysis
6322-001	TSI-01 - White wrap over fiberglass insulation around 2-inch pipe runs	Tunnel	West	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-002	TSI-01 - White wrap over fiberglass insulation around 2-inch pipe runs	Tunnel	Center	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-003	TSI-01 - White wrap over fiberglass insulation around 2-inch pipe runs	Tunnel	East	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-004	TSI-02 - White plastic over fiberglass insulation around 2-inch JETs	Tunnel	West	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-005	TSI-02 - White plastic over fiberglass insulation around 2-inch JETs	Tunnel	Center	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-006	TSI-02 - White plastic over fiberglass insulation around 2-inch JETs	Tunnel	East	3002 - PLM Bulk Count (EPA Method 600/R93/116)

Sample ID	Material	Floor / Section	Space	Analysis
6322-007	TSI-03 - White wrap over fibeglass insulation around 4-inch pipe runs	Tunnel	West	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-008	TSI-03 - White wrap over fibeglass insulation around 4-inch pipe runs	Tunnel	Center	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-009	TSI-03 - White wrap over fibeglass insulation around 4-inch pipe runs	Tunnel	East	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-010	TSI-04 - White plastic over fiberglass insulation around 4-inch JETs	Tunnel	West	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-011	TSI-04 - White plastic over fiberglass insulation around 4-inch JETs	Tunnel	Center	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-012	TSI-04 - White plastic over fiberglass insulation around 4-inch JETs	Tunnel	East	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-013	TSI-05 - White wrap over fiberglass insulation around 6-inch pipe runs	Tunnel	West	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-014	TSI-05 - White wrap over fiberglass insulation around 6-inch pipe runs	Tunnel	Center	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-015	TSI-05 - White wrap over fiberglass insulation around 6-inch pipe runs	Tunnel	East	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-016	TSI-06 - White plastic over fiberglass insulation around 6-inch JETs	Tunnel	West	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-017	TSI-06 - White plastic over fiberglass insulation around 6-inch JETs	Tunnel	Center	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-018	TSI-06 - White plastic over fiberglass insulation around 6-inch JETs	Tunnel	East	3002 - PLM Bulk Count (EPA Method 600/R93/116)

Sample ID	Material	Floor / Section	Space	Analysis
6322-019	TSI-07 - White wrap over fiberglass insulation around 8-inch pipe runs	Tunnel	West	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-020	TSI-07 - White wrap over fiberglass insulation around 8-inch pipe runs	Tunnel	Center	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-021	TSI-07 - White wrap over fiberglass insulation around 8-inch pipe runs	Tunnel	West	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-022	TSI-08 - White plastic over fiberglass insulation around 8-inch JETs	Tunnel	West	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-023	TSI-08 - White plastic over fiberglass insulation around 8-inch JETs	Tunnel	Center	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-024	TSI-08 - White plastic over fiberglass insulation around 8-inch JETs	Tunnel	West	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-025	TSI-09 - White wrap over fiberglass insulation around 10-inch pipes	Tunnel	West	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-026	TSI-09 - White wrap over fiberglass insulation around 10-inch pipes	Tunnel	Center	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-027	TSI-09 - White wrap over fiberglass insulation around 10-inch pipes	Tunnel	Center	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-028	TSI-10 - White plastic over fiberglass insulation around 10-inch JETs	Tunnel	West	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-029	TSI-10 - White plastic over fiberglass insulation around 10-inch JETs	Tunnel	Center	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-030	TSI-10 - White plastic over fiberglass insulation around 10-inch JETs	Tunnel	Center	3002 - PLM Bulk Count (EPA Method 600/R93/116)

22021330
6/7/22

Sample ID	Material	Floor / Section	Space	Analysis
6322-031	TSI-11 - Black wrap over gray fibrous insulation around 10-inch pipe that extends undergound *8-inch	Tunnel	West	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-032	TSI-11 - Black wrap over gray fibrous insulation around 10-inch pipe that extends undergound *8-inch	Tunnel	West	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-033	TSI-11 - Black wrap over gray fibrous insulation around 10-inch pipe that extends undergound *8-inch	Tunnel	West	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-034	MSC-01 - Black tar material on concrete cover of underground pipe entrance	Tunnel	West	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-035	MSC-01 - Black tar material on concrete cover of underground pipe entrance	Tunnel	West	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-036	MSC-01 - Black tar material on concrete cover of underground pipe entrance	Tunnel	West	3002 - PLM Bulk Count (EPA Method 600/R93/116)

Sampled By	6/3/22 Date	Time

Received By	Date	Time
Relinquished By	6/6/22 Date	Time

Jr Fedex	06/07/22 Date	@ 0907 Time
Relinquished By	Date	Time

Received By	Date	Time
Relinquished By	Date	Time

Analysis By	Date	Time

ALL SAMPLES ACCEPTABLE
INIT/DATE 06/07/22

NVLAP LAB CODE 500097-0

Aerobiology Laboratory Associates, Inc.
2226 W Northern Ave., Suite C-110
Phoenix , AZ 85021
(602) 441-3700
www.aerobiology.net

Client:
Fulcrum Environmental Consulting
406 North 2nd Street
Yakima, WA 98901
Attn: Ryan Mathews

Certificate of Analysis

Project Name: GHSZJF - 223507.02 Quinn Coliseum

Proiect ID: 22021324

Date Collected: 06/03/22
Date Received: 06/07/22
Date Analyzed: 06/08/22
Date Reported: 06/08/22
Job ID:

Test Requested**: Asbestos Bulk Analysis, Polarized Light Microscopy (PLM):** EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos		Non-Asbestos		
Client	Lab Sample Number				Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
6322-037	22021324-001-A	Silver Metal Sheet	N	40	ND			100	
	22021324-001-B	Tan Insulation	N	60	ND		98	2	FBG
6322-038	22021324-002-A	Silver Metal Sheet	N	35	ND			100	
	22021324-002-B	Tan Insulation	N	65	ND		98	2	FBG
6322-039	22021324-003-A	Silver Metal Sheet	N	20	ND			100	
	22021324-003-B	Tan Insulation	N	80	ND		98	2	FBG
6322-040	22021324-004-A	Gray Wrap	N	18	ND		95	5	FBG
	22021324-004-B	Cream Insulation	N	82	ND		98	2	FBG

Aaron Agajanian
Analyst

Elle Teague
Manager-Asbestos

A Amosite
AC Actinolite
AN Anthophyllite
CHRY Chrysotile
CR Crocidolite
TR Tremolite
Trace Less Than 1%
ND None Detected

Q Quartz
C Carbonates
G Gypsum
M Mica
T Tar
P Perlite
B Binder
D Diatoms

CELL Cellulose
MW Mineral Wool
FBG Fiberglass
SYN Synthetic
WO Wollastonite
FT Fibrous Talc
AH Animal Hair
NAC Non-Asbestiform AC
NTR Non-Asbestiform TR

NVLAP LAB CODE 500097-0

Aerobiology Laboratory Associates, Inc.
2226 W Northern Ave., Suite C-110
Phoenix , AZ 85021
(602) 441-3700
www.aerobiology.net

Client:
Fulcrum Environmental Consulting
406 North 2nd Street
Yakima, WA 98901
Attn: Ryan Mathews

Certificate of Analysis

Project Name: GHSZJF - 223507.02 Quinn Coliseum

Proiect ID: 22021324

Date Collected: 06/03/22
Date Received: 06/07/22
Date Analyzed: 06/08/22
Date Reported: 06/08/22
Job ID:

Test Requested**: Asbestos Bulk Analysis, Polarized Light Microscopy (PLM):** EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos		Non-Asbestos		
Client	Lab Sample Number				Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
6322-041	22021324-005-A	Gray Wrap	N	55	ND		95	5	FBG
	22021324-005-B	Cream Insulation	N	45	ND		98	2	FBG
6322-042	22021324-006-A	Gray Wrap	N	50	ND		95	5	FBG
	22021324-006-B	Cream Insulation	N	50	ND		98	2	FBG

Aaron Agajanian
Analyst

Elle Teague
Manager-Asbestos

A Amosite
AC Actinolite
AN Anthophyllite
CHRY Chrysotile
CR Crocidolite
TR Tremolite
Trace Less Than 1%
ND None Detected

Q Quartz
C Carbonates
G Gypsum
M Mica
T Tar
P Perlite
B Binder
D Diatoms

CELL Cellulose
MW Mineral Wool
FBG Fiberglass
SYN Synthetic
WO Wollastonite
FT Fibrous Talc
AH Animal Hair
NAC Non-Asbestiform AC
NTR Non-Asbestiform TR

NVLAP LAB CODE 500097-0

Aerobiology Laboratory Associates, Inc.
2226 W Northern Ave., Suite C-110
Phoenix , AZ 85021
(602) 441-3700
www.aerobiology.net

Client:
Fulcrum Environmental Consulting
406 North 2nd Street
Yakima, WA 98901
Attn: Ryan Mathews

Certificate of Analysis

Project Name: GHSZJF - 223507.02 Quinn Coliseum

Proiect ID: 22021324

Date Collected: 06/03/22
Date Received: 06/07/22
Date Analyzed: 06/08/22
Date Reported: 06/08/22
Job ID:

General Notes

* **ND** indicates no asbestos was detected; the method detection limit is 1%.

* **Trace** or "<1" indicates asbestos was identified in the sample, but the concentration is less than 1%.

* All regulated asbestos minerals (i.e. chrysotile, amosite, crocidolite, anthophyllite, tremolite, and actinolite) were sought in every layer of each sample, but only those asbestos minerals detected are listed. Amosite is the common name for the asbestiform variety of the minerals cummingtonite and grunerite. Crocidolite is the common name used for the asbestiform variety of the mineral riebeckite.

* Tile, vinyl, foam, plastic, and fine powder samples may contain asbestos fibers of such small diameter (< 0.25 microns in diameter) that these fibers cannot be detected by PLM. For such samples, more sensitive analytical methods (e.g. TEM, SEM, and XRD) are recommended if greater certainty about asbestos content is required. Semi-quantitative bulk TEM floor tile analysis is accepted under NESHAP regulations.

* These results are submitted pursuant to Aerobiology Laboratory Associates, Inc.'s current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted.

* Unless notified in writing to return the samples covered by this report, Aerobiology Laboratory Associates, Inc. will store the samples for a minimum period of thirty (30) days before discarding. A shipping and handling charge will be assessed for the return of any samples.

* Aerobiology does not guarantee the results of tape lifts, microvacs, wipe, and/or debris samples. Accurate analysis cannot be performed due to particle size, media used, and/or amount of material given. Analysis of these materials should be performed by a TEM. A result of ND does not indicate that the sample area does not contain asbestos. It means the analyst could not identify asbestos in the specific sample for the reasons listed above.

Notes Required by NVLAP

* Aerobiology Laboratory shall be responsible for all the information provided in the report, except when information is provided by the customer. Aerobiology Laboratory is not responsible for the sampling activity.

* This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

* This test report relates only to the items tested or calibrated.

* This report is not valid unless it bears the name of a NVLAP-approved signatory.

22021324
6/7/22

GHSZJF

FULCRUM
environmental consulting

Fulcrum Environmental Consulting, Inc.
406 North 2nd Street
Yakima, Washington 98901

Chain of Custody

Project: 223507.02
Site Location: Quinn Coliseum
G Avenue
La Grande, Oregon 97850
Sampled By: Roque Reyes (Roque.Reyes@efulcrum.net)
Purpose: Hazardous Building Materials Inspection

Laboratory Notes

Stop after first positive for each HM

Turn-Around Time Request

3-5 Days

Samples

Sample ID	Material	Floor / Section	Space	Analysis
6322-037	TSI-12 - Metal cover over fiberglass insulation on 10-inch pipe run *8-inch	Vault 1	Center	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-038	TSI-12 - Metal cover over fiberglass insulation on 10-inch pipe run *8-inch	Vault 1	Center	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-039	TSI-12 - Metal cover over fiberglass insulation on 10-inch pipe run *8-inch	Vault 1	Center	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-040	TSI-13 - White cloth wrap over fiberglass insulation around valves	Vault 1	Center	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-041	TSI-13 - White cloth wrap over fiberglass insulation around valves	Vault 1	Center	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-042	TSI-13 - White cloth wrap over fiberglass insulation around valves	Vault 1	Center	3002 - PLM Bulk Count (EPA Method 600/R93/116)

22021324
6/7/22

Sampled By	Date	Time
[signature]	6/3/22	

Received By	Date	Time
Relinquished By	Date	Time
[signature]	6/6/22	

Received By	Date	Time
2 Fedex	06/07/22	@0907
Relinquished By	Date	Time

Received By	Date	Time
Relinquished By	Date	Time

Analysis By	Date	Time

ALL SAMPLES ACCEPTABLE
INIT/DATE 06/07/22

NVLAP LAB CODE 500097-0

Aerobiology Laboratory Associates, Inc.
2226 W Northern Ave., Suite C-110
Phoenix , AZ 85021
(602) 441-3700
www.aerobiology.net

Client:
Fulcrum Environmental Consulting
406 North 2nd Street
Yakima, WA 98901
Attn: Ryan Mathews

Certificate of Analysis

Project Name: 5WLCBP - 223507.02 Quinn Coliseum - Revised Report v1

Proiect ID: 22021326

Date Collected: 06/03/22
Date Received: 06/07/22
Date Analyzed: 06/08/22
Date Reported: 06/09/22
Job ID:

Test Requested**: Asbestos Bulk Analysis, Polarized Light Microscopy (PLM):** EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification					Asbestos		Non-Asbestos		
Client	Lab Sample Number	Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
6322-043	**22021326-001-A**	**Brown/Gray Insulation**	**N**	**100**	**A**	**65**		**35**	**G**
6322-044	22021326-002	Positive Stop							
6322-045	22021326-003	Positive Stop							
6322-046	22021326-004	Brown/Gray Rusty Compound	N	100	ND			100	G
6322-047	22021326-005	Brown/Gray Rusty Compound	N	100	ND			100	G
6322-048	22021326-006	Brown/Gray Rusty Compound	N	100	ND			100	G

Aaron Agajanian
Analyst

Elle Teague
Manager-Asbestos

A Amosite
AC Actinolite
AN Anthophyllite
CHRY Chrysotile
CR Crocidolite
TR Tremolite
Trace Less Than 1%
ND None Detected

Q Quartz
C Carbonates
G Gypsum
M Mica
T Tar
P Perlite
B Binder
D Diatoms

CELL Cellulose
MW Mineral Wool
FBG Fiberglass
SYN Synthetic
WO Wollastonite
FT Fibrous Talc
AH Animal Hair
NAC Non-Asbestiform AC
NTR Non-Asbestiform TR

NVLAP LAB CODE 500097-0

Aerobiology Laboratory Associates, Inc.
2226 W Northern Ave., Suite C-110
Phoenix , AZ 85021
(602) 441-3700
www.aerobiology.net

Client:
Fulcrum Environmental Consulting
406 North 2nd Street
Yakima, WA 98901
Attn: Ryan Mathews

Certificate of Analysis

Project Name: 5WLCBP - 223507.02 Quinn Coliseum - Revised Report v1

Proiect ID: 22021326

Date Collected: 06/03/22
Date Received: 06/07/22
Date Analyzed: 06/08/22
Date Reported: 06/09/22
Job ID:

General Notes

* **ND** indicates no asbestos was detected; the method detection limit is 1%.

* **Trace** or "<1" indicates asbestos was identified in the sample, but the concentration is less than 1%.

* All regulated asbestos minerals (i.e. chrysotile, amosite, crocidolite, anthophyllite, tremolite, and actinolite) were sought in every layer of each sample, but only those asbestos minerals detected are listed. Amosite is the common name for the asbestiform variety of the minerals cummingtonite and grunerite. Crocidolite is the common name used for the asbestiform variety of the mineral riebeckite.

* Tile, vinyl, foam, plastic, and fine powder samples may contain asbestos fibers of such small diameter (< 0.25 microns in diameter) that these fibers cannot be detected by PLM. For such samples, more sensitive analytical methods (e.g. TEM, SEM, and XRD) are recommended if greater certainty about asbestos content is required. Semi-quantitative bulk TEM floor tile analysis is accepted under NESHAP regulations.

* These results are submitted pursuant to Aerobiology Laboratory Associates, Inc.'s current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted.

* Unless notified in writing to return the samples covered by this report, Aerobiology Laboratory Associates, Inc. will store the samples for a minimum period of thirty (30) days before discarding. A shipping and handling charge will be assessed for the return of any samples.

* Aerobiology does not guarantee the results of tape lifts, microvacs, wipe, and/or debris samples. Accurate analysis cannot be performed due to particle size, media used, and/or amount of material given. Analysis of these materials should be performed by a TEM. A result of ND does not indicate that the sample area does not contain asbestos. It means the analyst could not identify asbestos in the specific sample for the reasons listed above.

Notes Required by NVLAP

* Aerobiology Laboratory shall be responsible for all the information provided in the report, except when information is provided by the customer. Aerobiology Laboratory is not responsible for the sampling activity.

* This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

* This test report relates only to the items tested or calibrated.

* This report is not valid unless it bears the name of a NVLAP-approved signatory.

22021326
6/7/22

5WLCBP

Fulcrum Environmental Consulting, Inc.
406 North 2nd Street
Yakima, Washington 98901

Chain of Custody

Project: 223507.02
Site Location: Quinn Coliseum
G Avenue
La Grande, Oregon 97850
Sampled By: Roque Reyes (Roque.Reyes@efulcrum.net)
Purpose: Hazardous Building Materials Inspection

Laboratory Notes

Stop after first positive for each HM

Turn-Around Time Request

3-5 Days

Samples

Sample ID	Material	Floor / Section	Space	Analysis
6322-043	TSI-14 - Brown wrap over gray fibrous insulation around 10-inch pipe run *8-inch	Vault 2	South	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-044	TSI-14 - Brown wrap over gray fibrous insulation around 10-inch pipe run *8-inch	Vault 2	South	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-045	TSI-14 - Brown wrap over gray fibrous insulation around 10-inch pipe run *8-inch	Vault 2	North	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-046	TSI-15 - Residual pipe insulation on rusty deteriorated pipe	Vault 2	Center	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-047	TSI-15 - Residual pipe insulation on rusty deteriorated pipe	Vault 2	Center	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-048	TSI-15 - Residual pipe insulation on rusty deteriorated pipe	Vault 2	Center	3002 - PLM Bulk Count (EPA Method 600/R93/116)

22021326
6/7/22

Sampled By	Date	Time
[signature]	6/3/22	

Received By	Date	Time
Relinquished By	**Date**	**Time**
[signature]	6/6/22	

Received By	Date	Time
Fedex	06/07/22	@ 09:07
Relinquished By	**Date**	**Time**

Received By	Date	Time
Relinquished By	**Date**	**Time**

Analysis By	Date	Time

ALL SAMPLES ACCEPTABLE
INIT/DATE 06/07/22

NVLAP LAB CODE 500097-0

Aerobiology Laboratory Associates, Inc.
2226 W Northern Ave., Suite C-110
Phoenix , AZ 85021
(602) 441-3700
www.aerobiology.net

Client:
Fulcrum Environmental Consulting
406 North 2nd Street
Yakima, WA 98901
Attn: Ryan Mathews

Certificate of Analysis

Project Name: W1R1I6 - 223507.02 Quinn Coliseum

Proiect ID: 22021329

Date Collected: 06/03/22
Date Received: 06/07/22
Date Analyzed: 06/08/22
Date Reported: 06/08/22
Job ID:

Test Requested**: Asbestos Bulk Analysis, Polarized Light Microscopy (PLM):** EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos		Non-Asbestos		
Client	Lab Sample Number				Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
6322-049	22021329-001-A	Silver Metal Sheet	N	17	ND			100	
	22021329-001-B	Cream Insulation	N	83	ND		98	2	FBG
6322-050	22021329-002-A	Silver Metal Sheet	N	20	ND			100	
	22021329-002-B	Cream Insulation	N	80	ND		98	2	FBG
6322-051	22021329-003-A	Silver Metal Sheet	N	15	ND			100	
	22021329-003-B	Cream Insulation	N	85	ND		98	2	FBG
6322-052	22021329-004-A	Tan Wrap	N	30	ND		95	5	FBG
	22021329-004-B	White Insulation	N	70	ND		98	2	FBG
6322-053	22021329-005-A	Tan Wrap	N	25	ND		95	5	FBG
	22021329-005-B	White Insulation	N	75	ND		98	2	FBG

Aaron Agajanian
Analyst

Elle Teague
Manager-Asbestos

A Amosite
AC Actinolite
AN Anthophyllite
CHRY Chrysotile
CR Crocidolite
TR Tremolite
Trace Less Than 1%
ND None Detected

Q Quartz
C Carbonates
G Gypsum
M Mica
T Tar
P Perlite
B Binder
D Diatoms

CELL Cellulose
MW Mineral Wool
FBG Fiberglass
SYN Synthetic
WO Wollastonite
FT Fibrous Talc
AH Animal Hair
NAC Non-Asbestiform AC
NTR Non-Asbestiform TR

NVLAP TESTING
NVLAP LAB CODE 500097-0

Aerobiology Laboratory Associates, Incorporated
A Pace Analytical® Laboratory

Aerobiology Laboratory Associates, Inc.
2226 W Northern Ave., Suite C-110
Phoenix , AZ 85021
(602) 441-3700
www.aerobiology.net

Client:
Fulcrum Environmental Consulting
406 North 2nd Street
Yakima, WA 98901
Attn: Ryan Mathews

Certificate of Analysis

Project Name: W1R1I6 - 223507.02 Quinn Coliseum

Proiect ID: 22021329

Date Collected: 06/03/22
Date Received: 06/07/22
Date Analyzed: 06/08/22
Date Reported: 06/08/22
Job ID:

Test Requested**: Asbestos Bulk Analysis, Polarized Light Microscopy (PLM):** EPA 600/R-93/116: Method for Asbestos in Bulk Building Materials, EPA-40 CFR Appendix E to Subpart E of Part 763, Interim Method for Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo-geneous (Y/N)	Layer Percentage	Asbestos		Non-Asbestos		
Client	Lab Sample Number				Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
6322-054	22021329-006-A	Tan Wrap	N	15	ND		95	5	FBG
	22021329-006-B	White/Tan Insulation	N	85	ND		98	2	FBG
6322-055	22021329-007	Tan/Brown Rusty Compound	N	100	ND		3	97	G,FBG
6322-056	22021329-008	Tan/Brown Rusty Compound	N	100	ND		3	97	G,FBG
6322-057	22021329-009	Tan/Brown Rusty Compound	N	100	ND		3	97	G,FBG
6322-058	22021329-010	Red Compound	N	100	ND			100	C,G
6322-059	22021329-011	Red Compound	N	100	ND			100	C,G
6322-060	22021329-012	Red Compound	N	100	ND			100	C,G

Aaron Agajanian
Analyst

Elle Teague
Manager-Asbestos

A Amosite
AC Actinolite
AN Anthophyllite
CHRY Chrysotile
CR Crocidolite
TR Tremolite
Trace Less Than 1%
ND None Detected

Q Quartz
C Carbonates
G Gypsum
M Mica
T Tar
P Perlite
B Binder
D Diatoms

CELL Cellulose
MW Mineral Wool
FBG Fiberglass
SYN Synthetic
WO Wollastonite
FT Fibrous Talc
AH Animal Hair
NAC Non-Asbestiform AC
NTR Non-Asbestiform TR

NVLAP LAB CODE 500097-0

Aerobiology Laboratory Associates, Inc.
2226 W Northern Ave., Suite C-110
Phoenix , AZ 85021
(602) 441-3700
www.aerobiology.net

Client:
Fulcrum Environmental Consulting
406 North 2nd Street
Yakima, WA 98901
Attn: Ryan Mathews

Certificate of Analysis

Project Name: W1R1I6 - 223507.02 Quinn Coliseum

Proiect ID: 22021329

Date Collected: 06/03/22
Date Received: 06/07/22
Date Analyzed: 06/08/22
Date Reported: 06/08/22
Job ID:

General Notes

* **ND** indicates no asbestos was detected; the method detection limit is 1%.

* **Trace** or "<1" indicates asbestos was identified in the sample, but the concentration is less than 1%.

* All regulated asbestos minerals (i.e. chrysotile, amosite, crocidolite, anthophyllite, tremolite, and actinolite) were sought in every layer of each sample, but only those asbestos minerals detected are listed. Amosite is the common name for the asbestiform variety of the minerals cummingtonite and grunerite. Crocidolite is the common name used for the asbestiform variety of the mineral riebeckite.

* Tile, vinyl, foam, plastic, and fine powder samples may contain asbestos fibers of such small diameter (< 0.25 microns in diameter) that these fibers cannot be detected by PLM. For such samples, more sensitive analytical methods (e.g. TEM, SEM, and XRD) are recommended if greater certainty about asbestos content is required. Semi-quantitative bulk TEM floor tile analysis is accepted under NESHAP regulations.

* These results are submitted pursuant to Aerobiology Laboratory Associates, Inc.'s current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted.

* Unless notified in writing to return the samples covered by this report, Aerobiology Laboratory Associates, Inc. will store the samples for a minimum period of thirty (30) days before discarding. A shipping and handling charge will be assessed for the return of any samples.

* Aerobiology does not guarantee the results of tape lifts, microvacs, wipe, and/or debris samples. Accurate analysis cannot be performed due to particle size, media used, and/or amount of material given. Analysis of these materials should be performed by a TEM. A result of ND does not indicate that the sample area does not contain asbestos. It means the analyst could not identify asbestos in the specific sample for the reasons listed above.

Notes Required by NVLAP

* Aerobiology Laboratory shall be responsible for all the information provided in the report, except when information is provided by the customer. Aerobiology Laboratory is not responsible for the sampling activity.

* This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

* This test report relates only to the items tested or calibrated.

* This report is not valid unless it bears the name of a NVLAP-approved signatory.

22021329
6/7/22

W1R1I6

FULCRUM
environmental consulting

Fulcrum Environmental Consulting, Inc.
406 North 2nd Street
Yakima, Washington 98901

Chain of Custody

Project: 223507.02
Site Location: Quinn Coliseum
G Avenue
La Grande, Oregon 97850
Sampled By: Roque Reyes (Roque.Reyes@efulcrum.net)
Purpose: Hazardous Building Materials Inspection

Laboratory Notes

Stop after first positive for each HM

Turn-Around Time Request

3-5 Days

Samples

Sample ID	Material	Floor / Section	Space	Analysis
6322-049	TSI-16 - Metal cover over fiberglass insulation around 10-inch pipe run *8-inch	Vault 3	South	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-050	TSI-16 - Metal cover over fiberglass insulation around 10-inch pipe run *8-inch	Vault 3	South	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-051	TSI-16 - Metal cover over fiberglass insulation around 10-inch pipe run *8-inch	Vault 3	North	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-052	TSI-17 - White cloth wrap over fiberglass insulation around valves	Vault 3	Center	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-053	TSI-17 - White cloth wrap over fiberglass insulation around valves	Vault 3	Center	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-054	TSI-17 - White cloth wrap over fiberglass insulation around valves	Vault 3	Center	3002 - PLM Bulk Count (EPA Method 600/R93/116)

22021329
6/7/22

Sample ID	Material	Floor / Section	Space	Analysis
6322-055	TSI-18 - Residual pipe insulation on rusty deteriorated pipe	Vault 3	Center	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-056	TSI-18 - Residual pipe insulation on rusty deteriorated pipe	Vault 3	Center	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-057	TSI-18 - Residual pipe insulation on rusty deteriorated pipe	Vault 3	Center	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-058	MSC-02 - Red gasket between pipes	Vault 3	East	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-059	MSC-02 - Red gasket between pipes	Vault 3	East	3002 - PLM Bulk Count (EPA Method 600/R93/116)
6322-060	MSC-02 - Red gasket between pipes	Vault 3	East	3002 - PLM Bulk Count (EPA Method 600/R93/116)

[signature]	6/3/22	
Sampled By	Date	Time

Received By	Date	Time
[signature]	6/6/22	
Relinquished By	Date	Time

[signature] FedEx	06/07/22	0907
Received By	Date	Time
Relinquished By	Date	Time

Received By	Date	Time
Relinquished By	Date	Time

Analysis By	Date	Time

ALL SAMPLES ACCEPTABLE
INIT/DATE 06/07/2227