Limited Asbestos Survey For Recreational Center Building Arthur Langford, Jr. Park

> 211 Thornton Street, SW Atlanta, GA 30360

Proposal No. 2013-0012

Prepared for:



Atlanta BeltLine, Inc. 86 Pryor Street, SW Atlanta, GA 30303 Attention: Kevin W. Burke, AOLCP, PLA, ASLA

Prepared by:



Accura Engineering and Consulting Services, Inc. 3342 International Park Drive Atlanta, GA 30316 (813) 489-4155 Phone (813) 489-4143 Fax

October 2013

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José J. Sosa, P.E., CIH Vice President

Robert Provost, IHT Field Services

October 2013

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List of Acronyms

EPA	Environmental Protection Agency
GAEPD	Georgia Environmental Protection Division
HP	Horsepower
mg/ft ²	Micrograms per Square Foot
mg/kg	milligram per kilogram
mg/l	Milligrams per Liter
OSHA	Occupational Safety and Health Administration
P.G.	Professional Geologist
PCBs	Polychlorinated Biphenyls
PEL	Permissible Exposure Level
RCRA	Resource Conservation & Recovery Act
SVOCs	Semi-Volatile Organic Aromatics

1.0 EXECUTIVE SUMMARY

Accura Engineering and Consulting Services, Inc. (Accura) was retained by Atlanta BeltLine, Inc. (ABI) to perform a limited asbestos survey at the Arthur Langford, Jr. Park, Recreational Center Building. The park is located at 211Thornton Street, SW Atlanta, Georgia.

The scope of the asbestos survey was to identify suspect asbestos-containing materials (ACM) in the building systems that are scheduled for renovation, repairs, and/or replacement. Asbestos-containing materials that are disturbed during the renovation and renovation activities have the potential for releasing harmful asbestos fibers into the environment. The release of airborne asbestos fibers has the potential for exposing building occupants, and construction workers to inhaling the asbestos fibers which is hazardous to health.

1.1 Asbestos Containing Material Summary

Eight homogeneous areas of suspect ACM were identified during the visual inspection of building. There was one asbestos containing material found in the building. Table 1 in Section 4 contains the inventory and the number of samples collected during the inspection. Refer to Appendix B contains the analytical results for Asbestos containing materials (ACM's).

2.0 BUILDING INSPECTION INFORMATION

Building Name	Recreational Center			
Area of Survey	10,000 SF			
Building Type	Masonry			
# of Floors	2			
Purpose of ACM Survey	Renovation			
Building Survey Date	09/30/13			

1

3.0 INTRODUCTIONS

Mr. Robert Provost carried out the inspection survey on August 30, 2013. Appendix A contains the inspector certificate for Mr. Provost.

4.0 ASBESTOS SURVEY FINDINGS

The ACM inspection was performed in accordance with the U.S. Environmental Protection Agency's (USEPA) requirements for implementation of the Asbestos Hazard Emergency Response Act (AHERA), and the Asbestos School Hazard Abatement Reauthorization Act (ASHARA).

Asbestos in excess of the regulatory threshold was found in elbows and tees insulation on the cold water lines. The piping was observed throughout the basement and first floors of the recreational center building. The survey performed was not destructive, therefore, pipe runs inside wet walls and/or pipe chases were not accessible to the inspector to inspect, sample and quantify. Table 1 contains the suspect materials identified and sampled during the survey. The insulation on approximately 20% of the fittings was damaged and in some elbows and tees missing completely.

SAMPLE	MATERIAL	HA	FUNCTIONAL	QUANTITY	NESHAP	TYPE &
NO.	(TYPE)		SPACE		CLASS	
						%
						ASBESTOS
Lan-1A	Fiberboard and Mastic	1	Basement all	5,000 SF	NA	No Asbestos
Through			Rooms			
Lan-1B						
			6			
Lan-2A	Glue on Tectum	2	Basement all	5,000 SF	NA	No Asbestos

Table 1 – Invento	y and Number of	of Samples	Collected
-------------------	-----------------	------------	-----------

SAMPLE	MATERIAL	HA	FUNCTIONAL	QUANTITY	NESHAP	TYPE &
NO.	(TYPE)		SPACE		CLASS	0/
						%
						ASDESTUS
Through	Board		Rooms			
Lan-2B						
Lan-3A	Mud Elbows and	3	Basement and	60 EA	Friable	Chrysotile
Through	rees on ripe		Running Water			2 to 3 %
Lan-3B						
Lan-4A	Black Mastic on		Basement	2 SF	NA	No Asbestos
Through	Piping		Mechanical Room			
Lan-4B						
Lan-5A	Vibration Gasket		Basement	2 SF	NA	No Asbestos
Through			Mechanical Room			
Lon 5P						
Lan-5D						
Lan-6A	Pipe Insulation		All rooms on Basement and	1200 LF	NA	No Asbestos
Through			Restrooms and			
Lan-6B			First Floor			
Lan-7A	Sink Vapor Barrier		Basement	2 SF	NA	No Asbestos
Through			Hall			
Lan-7B						
Lan-8A	Mastic on Duct		All Rooms and in	400 SF	NA	No Asbestos
Through	VVOľK		vvalis			
Lan-8B						

4.1 Asbestos Survey Protocol

Samples were given a unique numeric identification (i.e. Lan-1A, Lan-1B, etc.). The first three digits represents the building number followed by a number starting with "1" increasing sequentially with the last number representing the total number of homogeneous areas identified within the structure. The alphabetic listing indicates those samples collected within a homogeneous sampling area, starting with "A" and increasing through the alphabet. Each sample location was identified on the sample location drawings.

The technique used for sampling the suspect materials was designed to minimize possible fiber release and in turn possible contamination of surrounding areas. All representative "suspect" materials sampled, were collected in accordance with the EPA's AHERA and "Guidance for Controlling Asbestos Containing Material in Buildings" (EPA 560 / 6-85-024, June 1985).

In the event suspect materials had been identified, the sample location would be sprayed with an amended soapy water mixture. Then, a core sample of the material would be collected and properly stored in a labeled airtight bag. A chain of custody form is then completed for all bulk samples collected and subsequently delivered to AmeriSci Richmond, Inc. for analysis using Polarized Light Microscopy (PLM). AmeriSci Richmond, Inc. utilizes dispersion staining techniques according to US EPA method 600 / M4-82-020 incorporating visual estimates of identified material percentages.

During the sampling activities, each suspect ACM was touched by the inspector to determine its friability and observed to determine the physical condition of the material. A friable material is defined as a material that can be crumbled, or reduced to powder by hand pressure. Friability of a material directly relates to a potential of the ACM to release airborne fibers. The more friable the ACM the more likely asbestos fibers will be released. The inspector assessed the suspect ACM according to their physical conditions.

Joint compound associated with gypsum wallboard system will be evaluated to determine whether the material should be classified as "joint compound" or "skim coat" per EPA's NESHAP clarification letter published in the Federal Register on January 5,

1994.

The Accura inspector split the bulk samples every 20th sample collected. These samples were sent to another laboratory for QA/QC. The identities of the QA/QC samples were not revealed to the laboratory on the chain of custody form.

Accura personnel utilized PPE as deemed appropriate for each sampling event. Accura personnel utilized wet methods while collecting bulk samples.

5.0 CONCLUSIONS

5.1 Asbestos-Containing Materials

Damaged elbows have the potential for additional damage. The pipe runs are exposed below the tectum ceiling in basement. There is a potential for children and building occupants in the locker room areas to get exposed to airborne asbestos fibers.

The elbow and tees insulation were classified as friable by the asbestos inspector. Therefore, the material could be crumbled and/or pulverized by hand pressure.

6.0 **RECOMMENDATIONS**

6.1 Asbestos Recommendations

The elbows and tees insulation should be removed prior to renovation to prevent disturbance. If this material is to stay in place it is suggested that the material be repaired immediately and signs posted to ensure that they are not damaged by unauthorized personnel. Access to the area should be limited to only authorized personnel. This material must be removed by a licensed Georgia asbestos abatement Contractor.

In the event that the scope of the renovation changes, areas not inspected but affected by the change in scope should be evaluated.

Appendix A

Certifications



american board of industrial hygiene

organized to improve the practice of industrial hygiene proclaims that



having met all requirements of education, experience and examination, and ongoing maintenance, is hereby certified in the

> COMPREHENSIVE PRACTICE of INDUSTRIAL HYGIENE

and has the right to use the designations

CERTIFIED INDUSTRIAL HYGIENIST

CIH



Certificate Number 5429 CP

Awarded:

Expiration Date:

December 9, 1991

Date: June 1, 2018

Executive Director ABIH

Chair ABIH

Accura Engineering and Consulting Services, Inc.



727-593-3067 Asbestos Survey & Mechanical (inspector) Refresher Training

> This is to Certify that Robert Provost

Has completed the requisite training for asbestos accreditation under TSCA TITLE II Date of Examination 10/02/12

Date of Course: 10/02/12 Expiration Date 10/02/13 Certificate #102122 Course # FL49-0006326322 Provider # FL49-0003810

lannor tot

Instructor







SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

AmeriSci Richmond dba AmeriSci Richmond 13635 Genito Road Midlothian, VA 23112 Mr. Thomas B. Keith Phone: 804-763-1200 Fax: 804-763-1800 E-Mail: bkeith@amerisci.com URL: http://www.amerisci.com

BULK ASBESTOS FIBER ANALYSIS (PLM)

NVLAP LAB CODE 101904-0

NVLAP Code	Designation / Description
18/A01	EPA 600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

2013-07-01 through 2014-06-30

Effective dates

Page 1 of 1

Main R. Mal

For the National Institute of Standards and Technology NVLAP-01S (REV. 2005-05-19)



UNITED STATES DEPARTMENT OF COMMERCE National Institute of Standards and Technology Gaithersburg, Maryland 20899

June 18, 2013

Mr. Thomas B. Keith America Science TEAM Richmond, Inc. dba AmeriSci Richmond 13635 Genito Road Midlothian, VA 23112

NVLAP Lab Code: 101904-0

Dear Mr. Keith:

I am pleased to inform you that continuing accreditation for specific test methods in Bulk Asbestos Fiber Analysis (PLM) is granted to your organization under the National Voluntary Laboratory Accreditation Program (NVLAP). This accreditation is effective until June 30, 2014, provided that your organization continues to comply with accreditation requirements contained in the NVLAP Procedures.

Your Certificate of Accreditation is enclosed along with a statement of your Scope of Accreditation. You may reproduce these documents in their entirety and announce your organization's accreditation status using the NVLAP symbol and/or term in business publications, the trade press, and other business-oriented literature. Accreditation does not relieve your organization from observing and complying with any applicable existing laws and/or regulations.

We are pleased to have you participate in NVLAP and look forward to your continued association with this program. If you have any questions concerning your NVLAP accreditation, please direct them to Hazel M. Richmond, Program Manager, Laboratory Accreditation Program, National Institute of Standards and Technology, 100 Bureau Dr. Stop 2140, Gaithersburg, MD 20899-2140; (301) 975-4016.

Sincerely,

Main R. M.L

Warren R. Merkel, Chief Laboratory Accreditation Program

Enclosure(s)



NIST/NVLAP • 100 Bureau Drive, Stop 2140 • Gaithersburg, MD 20899-2140 http://www.nist.gov/nvlap



Appendix B

Asbestos Chain of Custody Form & Laboratory Analytical Report

1

	Please Reply To:			
Ameri	Sci	AmeriSci Richmond 13635 GENITO ROAD MIDLOTHIAN, VIRGINIA 23112) 763-1200 • FAX: (804) 763-1800		
	FACSIMILE TELECOP	Y TRANSMISSION	v	
To:	Robert Provost Accura Engineering & Consulting Services. In	From: c AmeriSci Job #:	Donna M. Blackwell 113101142	
Fax #:		Subject: Client Project:	PLM 5 day Results Landford	
Email:	rprovost@live.com			
Date: Time: Comments:	Tuesday, October 08, 2013 12:57:57	Number of Pages:	(including cover sheet)	

CONFIDENTIALITY NOTICE: Unless otherwise indicated, the information contained in this communication is confidential information intended for use of the individual named above. If the reader of this communication is not the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is prohibited. If you have received this communication in error, please immediately notify the sender by telephone and return the original message to the above address via the US Postal Service at our expense. Preliminary data reported here will be verified before final report is issued. Samples are disposed of in 60 days or unless otherwise instructed by the protocol or special instructions in writing. Thank you.

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Certified Analysis Service 24 Hours A Day • 7 Days A Week Competitive Prices visit our web site - www.amerisci.com

Boston • Los Angeles • New York • Richmond

AmeriSci Richmond 13635 GENITO ROAD AMERI SCI MIDLOTHIAN, VIRGINIA 23112 TEL: (804) 763-1200 · FAX: (804) 763-1800 **PLM Bulk Asbestos Report** Accura Engineering & Consulting Servic Date Received 10/03/13 AmeriSci Job # 113101142 Date Examined 10/08/13 P.O. # Attn: Robert Provost 6911 Pistol Rd Page 1 of 4 **RE:** Landford Suite 101 Tampa, FL 33635 **Client No. / HGA** Lab No. **Asbestos Present Total % Asbestos** Lan-1A 113101142-01L1 No NAD Location: Fiberboard & Mastic; Ceiling Hall (by CVES) by Donna M. Blackwell on 10/08/13 Analyst Description: Brown/Gray, Homogeneous, Fibrous, Fiber Board Asbestos Types: Other Material: Cellulose 100 % Lan-1A 113101142-01L2 No NAD Location: Fiberboard & Mastic; Ceiling Hall (by CVES) by Donna M. Blackwell on 10/08/13 Analyst Description: Gray, Homogeneous, Non-Fibrous, Mastic Asbestos Types: Other Material: Non-fibrous 100 % Lan-1B 113101142-02L1 NAD No Location: Fiberboard & Mastic; Ceiling Hall (by CVES) by Donna M. Blackwell on 10/08/13 Analyst Description: Brown/Gray, Heterogeneous, Fibrous, Fiber Board Asbestos Types: Other Material: Cellulose 100 % Lan-1B 113101142-02L2 No NAD Location: Fiberboard & Mastic; Ceiling Hall (by CVES) by Donna M. Blackwell on 10/08/13 Analyst Description: Gray, Homogeneous, Non-Fibrous, Mastic Asbestos Types: Other Material: Non-fibrous 100 % Lan-1C No NAD 113101142-03L1 Location: Fiberboard & Mastic; Ceiling Hall (by CVES) by Donna M. Blackwell on 10/08/13 Analyst Description: Brown/Gray, Heterogeneous, Fibrous, Fiber Board Asbestos Types: Other Material: Cellulose 100 %

See Reporting notes on last page

AmeriSci Job #: 113101142 Client Name: Accura Engineering & Consulting Services, Inc

Page 2 of 4

PLM Bulk Asbestos Report

Landford

Client No. / HG	A Lab No.	Asbestos Present	Total % Asbestos
Lan-1C Analyst Descript	113101142-03L2 Location: Fiberboard & Mastic; Ceiling Hall ion: Gray, Homogeneous, Non-Fibrous, Mastic	No	NAD (by CVES) by Donna M. Blackwell on 10/08/13
Asbestos Ty	pes:		
Other mate	nai: Non-librous 100 %	1920 - 1924	
Lan-2A	113101142-04 Location: Glue On Tectum Board; Ceiling Hall	Νο	NAD (by CVES) by Donna M. Blackwell on 10/08/13
Analyst Descript Asbestos Ty Other Mate	ion: Lt. Gray, Heterogeneous, Non-Fibrous, Bulk M pes: rial: Cellulose 12 %, Non-fibrous 88 %	<i>N</i> aterial	
Lan-2B	113101142-05 Location: Glue On Tectum Board; Ceiling Hall	Νο	NAD (by CVES) by Donna M. Blackwell on 10/08/13
Analyst Descript Asbestos Ty Other Mate	ion: Lt. Gray, Heterogeneous, Non-Fibrous, Bulk M pes: rial: Cellulose 10 %, Non-fibrous 90 %	/laterial	
Lan-2C	113101142-06 Location: Glue On Tectum Board; Ceiling Hall	Νο	NAD (by CVES) by Donna M. Blackwell on 10/08/13
Analyst Descript Asbestos Ty Other Mate	ion: Yellow/Gray, Homogeneous, Non-Fibrous, Bu pes: rial: Cellulose 5 %, Non-fibrous 95 %	lk Material	
Lan-3A	113101142-07 Location: Mud Elbow On P.I.; Storage Rm 1	Yes	3 % (by CVES) by Donna M. Blackwell on 10/08/13
Analyst Descript Asbestos Ty Other Mate	ion: Gray, Heterogeneous, Fibrous, Bulk Material pes: Chrysotile 3.0 % rial: Fibrous glass 40 %, Non-fibrous 57 %		
Lan-3B	113101142-08 Location: Mud Elbow On P.I.; Mech Rm	Yes	2 % (by CVES) by Donna M. Blackwell on 10/08/13
Analyst Descript Asbestos Ty Other Mate	 tion: Gray, Heterogeneous, Fibrous, Bulk Material pes: Chrysotile 2.0 % rial: Fibrous glass 43 %, Non-fibrous 55 % 		

See Reporting notes on last page

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AmeriSci Job #: 113101142 Client Name: Accura Engineering & Consulting Services, Inc

Page 3 of 4

PLM Bulk Asbestos Report

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Landford

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
Lan-3C Location: Mu	113101142-09 d Elbow On P.I.; Storage Rm 2	Yes	3 % (by CVES) by Donna M. Blackwell on 10/08/13
Analyst Description: Gray, Hete Asbestos Types: Chrysotile Other Material: Fibrous gla	rogeneous, Fibrous, Bulk Material 3.0 % ass 52 %, Non-fibrous 45 %		
Lan-4A Location: Bla	113101142-10 ick Mastic; Mech	Νο	NAD (by CVES) by Donna M. Blackwell on 10/08/13
Analyst Description: Black, Hor Asbestos Types: Other Material: Non-fibrou	nogeneous, Non-Fibrous, Bulk Ma s 100 %	terial	
Lan-5A Location: Vit	113101142-11 ration Gasket; Mech	No	NAD (by CVES) by Donna M. Blackwell on 10/08/13
Analyst Description: Black/Whi Asbestos Types: Other Material: Synthetic f	te, Heterogeneous, Fibrous, Bulk Mibers 35 %, Non-fibrous 65 %	/aterial	
Lan-6A Location: PI;	113101142-12 Storage Rm 1	No	NAD (by CVES) by Donna M. Blackwell on 10/08/13
Analyst Description: Gray/Silve Asbestos Types: Other Material: Cellulose 3	r, Heterogeneous, Fibrous, Bulk M 32 %, Fibrous glass 28 %, Non-fit	aterial prous 40 %	
Lan-6B Location: PI;	113101142-13 Mech Rm	No	NAD (by CVES) by Donna M. Blackwell on 10/08/13
Analyst Description: Silver/Yelle Asbestos Types: Other Material: Cellulose 2	ow, Heterogeneous, Fibrous, Bulk 20 %, Fibrous glass 50 %, Non-fit	Material prous 30 %	
Lan-6C Location: PI;	113101142-14 Storage Rm 2	Νο	NAD (by CVES) by Donna M. Blackwell on 10/08/13
Analyst Description: Silver/Yell Asbestos Types: Other Material: Cellulose 2	ow, Heterogeneous, Fibrous, Bulk 20 %, Fibrous glass 55 %, Non-fit	Material prous 25 %	

See Reporting notes on last page

AmeriSci Job #: 113101142 Client Name: Accura Engineering & Consulting Services, Inc

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PLM Bulk Asbestos Report

Landford

Client No. / HGA Lab No. **Asbestos Present Total % Asbestos** Lan-7A 113101142-15 No NAD Location: Sink Vapor Barrier; Hall (by CVES) by Donna M. Blackwell on 10/08/13 Analyst Description: Gray, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 20 %, Non-fibrous 80 % Lan-8A 113101142-16 No NAD Location: Mastic On Duct; Mech (by CVES) by Donna M. Blackwell on 10/08/13 Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Synthetic fibers 2 %, Non-fibrous 98 % Lan-8B No NAD 113101142-17 Location: Mastic On Duct; Mech (by CVES) by Donna M. Blackwell on 10/08/13 Analyst Description: Off White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Synthetic fibers 2 %, Non-fibrous 98 %. 113101142-18 Lan-8C No NAD (by CVES) Location: Mastic On Duct; Mech by Donna M. Blackwell on 10/08/13 Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Synthetic fibers Trace, Non-fibrous 100 %

Reporting Notes:

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A	MERISCI	CHAIN OF CUSTODY RECORD 113101142 AMERISCI RIGHMOND						1	AMERISCI RICHMON 13635 GENITO ROAL MIDLOTHIAN, VA 23112 PHONE: (804) 763-120		
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Asbestos Survey Report Arthur Langford, Jr. Park, 211 Thornton Street, SW, Atlanta, Georgia

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Appendix C

Photos



Mudded Elbow and Tee in Mechanical Room



Mudded Elbows and Tees in Boys Locker Room



Mechanical Room



Pipes Run Through the Hall First Floor



Restroom above the Doorway



Pipe Insulation in Boys Locker Room



Storage Room between the Locker Rooms