



REQUEST FOR PROPOSAL FOR
Surgery Phase 3, Level 6

*The University of Texas Medical Branch at Galveston
John Sealy Annex (JSA) Surgery Phase 3, Level 6
RFP No.: 17-045*

ADDENDUM NO. 1

Prepared By:
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Issue Date: June 13, 2018

REQUEST FOR PROPOSAL
The University of Texas Medical Branch at Galveston
JSA Surgery Phase 3, Level 6
RFP No.: 18-045

ADDENDUM NO. 1

This Addendum No. 1 hereby forms and is made a part of the Request for Proposal for the JSA Surgery Phase 3, Level 6 Renovations. The following shall be incorporated into the specifications and/or terms and conditions of RFP No.17-045.

- 1. Limited Asbestos Survey Report** (Total Safety, Dated, February 2018) has been included.
- 2. Clarification on Flooring/Corridor Scope of Work:** Addendum No.2 will be forthcoming and will include an adjusted timeline to move the scope of work pertaining to the Corridor on Level 6 to be done at the end of Project. There will be added scope for the ceiling and a change of scope in the flooring which will reduce the area of abatement.



Building HEROES. Protecting HEROES.

Limited Asbestos Survey Report

for

**John Sealy Annex Building M009, Levels 6 and 9
Phase 3 Surgery Suite Renovation
Galveston, Texas**

Prepared for:

**University of Texas Medical Branch at Galveston
301 University Blvd.
Galveston, Texas 77555-1116**

February 2018
Project No.: 5925429



Building HEROES. Protecting HEROES.

February 28, 2018
Project No: 5925429

University of Texas Medical Branch at Galveston
301 University Blvd.
Galveston, Texas 77555
Attn.: Mr. LaTonya Browner

***Asbestos Consulting Services
John Sealy Annex Building M009, Levels 6 & 9
Phase 3 Surgery Suite Renovation
Galveston, Texas
Limited Asbestos Survey Report***

INTRODUCTION

Total Safety U.S., Inc., (Total Safety) is pleased to submit the results of the limited asbestos survey of the John Sealy Annex Building M009, Levels 6 and 9 – Phase 3 Surgery Suite Renovation Project located in Galveston, Texas. All work was performed in accordance with the scope of environmental consulting services outlined in our proposal.

Our services included the investigation for possible suspect asbestos-containing materials (ACM) and, if applicable, subsequent collection of bulk material samples and the corresponding evaluation of the material(s). Suspect ACM were discovered and samples were collected to establish if asbestos is present in the materials. If the laboratory analysis indicated asbestos amounts greater than 1%, a physical assessment and response action are listed.

FIELD FINDINGS

Ms. Charisse Crochet and Mr. Andrew Lee conducted the limited asbestos survey on February 15, 2018. Ms. Crochet and Mr. Lee are licensed as Asbestos Inspectors (license nos. 60-3246 & 60-2690) and their licenses are included in Appendix C.

Each suspect material was properly wetted prior to sample collection. Samples were carefully placed in asbestos sample bags. The bags were then wiped, sealed and labeled for transport to the licensed laboratory for analysis. A chain of custody accompanied the samples to the laboratory.

A total of thirty-nine bulk asbestos samples (73 layers) were collected from eleven homogeneous materials. Two of the eleven materials sampled contained greater than 1% asbestos. Two additional materials tested positive in a previous survey and six materials tested negative in a previous survey. In accordance with the Environmental Protection Agency (EPA), materials containing greater than 1% asbestos by weight are considered asbestos-containing materials. The homogeneous materials were then assessed in terms of friability, condition and, if applicable, quantity. The term friable means any material that, when dry, can be reduced to powder using only hand pressure.

The following suspect asbestos-containing building materials were sampled during the survey:

6th FLOOR

- Sheetrock/Joint Compound (asbestos not detected in this material)

- 4" Grey Covebase with Glue (asbestos not detected in this material)
- 2'x2' White Ceiling Tile with Textured Pattern and Pinholes (asbestos not detected in this material)
- 12"x12" Pink Floor Tile with White and Dark Pink Streak Pattern and Yellow Mastic (asbestos not detected in this material)
- Yellow Carpet Glue (asbestos not detected in this material)
- 4" Brown Covebase with Glue (asbestos not detected in this material)
- **12"x12" White Floor Tile with Tan Streak Pattern and Black Mastic (asbestos detected in the mastic material)**
- Duct Insulation with Mastic (asbestos not detected in this material)
- Beige Floor Tile with Glue (beneath Carpet) (asbestos not detected above the regulatory standard)

9th FLOOR

- Sheetrock/Joint Compound (asbestos not detected above the regulatory standard)
- **12"x12" Off-White Floor Tile with Tan Streak Pattern and Black Mastic (asbestos detected in the floor tile and mastic material)**
- **9"x9" Beige Floor Tile with Black Mastic (tested positive in a previous survey)**
- Brown Covebase with Adhesive (tested negative in a previous survey)
- **Black Mastic beneath 9"x9" Light Beige Floor Tile (tested positive in a previous survey)**
- Wall Plaster with Joint Compound (tested negative in a previous survey)
- 2'x2' Ceiling Tile with Pinholes (tested negative in a previous survey)
- HVAC Cork Duct Insulation with Black Mastic (tested negative in a previous survey)
- Ceiling Plaster with Joint Compound (tested negative in a previous survey)
- Pipe Insulation with Black Mastic (tested negative in a previous survey)

LABORATORY ANALYSIS

All bulk samples collected were submitted to EMSL Analytical, Inc. (EMSL) for analysis. The samples were analyzed by polarized light microscopy (PLM) and quantification using 400 point count procedure in compliance with guidelines established by the USEPA (50 CFR Part 763.115). EMSL is a successful participant in the National Institute of Standards and Technology's National Voluntary Laboratory Accreditation Program (NVLAP). EMSL's NVLAP license number is 102106. EMSL's Department of State Health Services license number is 30-0159.

ASBESTOS SAMPLE RESULTS

The results of the laboratory analyses are presented in Appendix B. Samples from the following material indicate the presence of asbestos in amounts greater than 1%. Condition assessments are also included for each material.

During this survey of the John Sealy Annex Building M009, Levels 6 and 9, the following materials were identified as containing asbestos:

- **Black Mastic beneath 12"x12" White Floor Tile with Tan Streak Pattern** contained 5% chrysotile asbestos. Bulk samples of this material

were collected at Level 6 – 6.310E. This material is non-friable, in good condition and may be located in other areas.

- **12”x12” Off-White Floor Tile with Tan Streak Pattern and Black Mastic** contained 2% chrysotile asbestos in the floor tile and 5% chrysotile asbestos in the mastic. Bulk samples of this material were collected at Level 9 – 9.314 and 9.332. This material is non-friable, in good condition and may be located in other areas.
- **9”x9” Beige Floor Tile with Black Mastic** tested positive in a previous survey. Bulk samples of this material were collected at Level 9 – 9.302. This material is non-friable, in good condition and may be located in other areas.
- **Black Mastic beneath 9”x9” Light Beige Floor Tile** tested positive in a previous survey. Bulk samples of this material were collected at Level 9 – office 9.308. This material is non-friable, in good condition and may be located in other areas.

RECOMMENDATIONS

Total Safety’s recommendations include interim controls and abatement alternatives. We have formulated these recommendations from our assessment of the risk associated with the materials found to contain asbestos.

Once a hazard has been identified and prior to its abatement, it is necessary to institute interim controls. These interim controls should include an Operations & Maintenance (O&M) Program which includes good housekeeping and maintenance programs; training of building managers and maintenance personnel; updating building records to indicate the presence of asbestos-containing materials, marking of materials which could present a hazard; and periodic surveillance to identify changes in conditions, if any.

Based on the conditions observed and identified at the John Sealy Annex Building M009, Levels 6 and 9 – Phase 3 Surgery Suite Renovation Project located in Galveston, Texas, Total Safety offers the following recommendations for addressing the identified asbestos:

Total Safety recommends that all of the materials or components identified as containing asbestos in good condition be placed in an O&M program until they are removed. This program should include interim control measures for those materials posing a high hazard, and will act as a passive abatement alternative for those materials posing a low to moderate hazard. The O&M Program should include appropriate measures to reduce the potential for disturbance, as well as enclosure and encapsulation to increase the effectiveness of the program.

In addition, the asbestos containing materials must not be disturbed. In the event renovation and demolition activities will potentially disturb the ACM, or in the event damaged asbestos containing material is present, Federal and State law requires that proper abatement activities be conducted. A licensed consultant must be notified. The removal and disposal of any asbestos-containing material is regulated by the Environmental Protection Agency (EPA); the National Emission Standard for Hazardous Air Pollutants (NESHAP), and the Department of State Health Services, Asbestos Health Protection Rules. All removal activities must be designed by a licensed and certified consultant and performed by a licensed abatement contractor utilizing proper engineering controls. Third-party air monitoring must be conducted by a State of Texas-licensed asbestos consulting agency during the abatement/demolition activities. The Department of State Health Services requires a 10-day notification be submitted prior to

abatement/demolition activities. **This document shall not be used for abatement bid purposes.**

CLOSING

The limited asbestos survey indicated that asbestos above the regulatory standard is present in the various materials at the John Sealy Annex Building M009, Levels 6 and 9 – Phase 3 Surgery Suite Renovation Project located in Galveston, Texas. We appreciate the opportunity to provide these services and look forward to working with you in the future. Should you have any questions, feel free to contact me at (409) 727-8227.

Sincerely,
Total Safety

A handwritten signature in black ink that reads "Daniel R. Ward". The signature is written in a cursive style with a large, stylized initial "D".

Daniel R. Ward
Regional Manager EHS Services
DSHS Consultant License No. 10-5479

APPENDIX A
BULK ASBESTOS SAMPLE TABLE



**BULK ASBESTOS SAMPLE TABLE
UNIVERSITY OF TEXAS MEDICAL BRANCH AT GALVESTON
JOHN SEALY ANNEX BUILDING M009, LEVELS 6 & 9
PHASE 3 SURGERY SUITE RENOVATION
GALVESTON, TEXAS**

Sampled February 15, 2018

H. A.* Number	Material Description	Sample Location	Sample Numbers	Percent Asbestos	Condition	Friability (Y/N)
01	Sheetrock/Joint Compound	6.100A	1	None Detected	Good	N
		6.106E	2	None Detected	Good	N
		6.312A	3	None Detected	Good	N
		6.312	4	None Detected	Good	N
		6.310	5	None Detected	Good	N
		6.310E	6	None Detected	Good	N
		6.310	7	None Detected	Good	N
02	4" Grey Covebase with Glue	6.100A	8	None Detected	Good	N
		6.106E	9	None Detected	Good	N
		6.312D	10	None Detected	Good	N
03	2'x2' White Ceiling Tile with Textured Pattern and Pinholes	6.100A	11	None Detected	Good	Y
		6.106E	12	None Detected	Good	Y
		6.312C	13	None Detected	Good	Y
04	12"x12" Pink Floor Tile with White and Dark Pink Streak Pattern and Yellow Mastic	6.106E	14	None Detected	Good	N
		6.106E	15	None Detected	Good	N
		6.106E	16	None Detected	Good	N
05	Yellow Carpet Glue	6.106A	17	None Detected	Good	N
		6.106D	18	None Detected	Good	N
		6.106	19	None Detected	Good	N
06	4" Brown Covebase with Glue	6.310E	20	None Detected	Good	N
		6.310E	21	None Detected	Good	N
		6.310E	22	None Detected	Good	N

- 1) ***Bold and italicized indicate confirmed asbestos containing material.***
 2) ***Materials may be located in areas other than the sample location.***



**BULK ASBESTOS SAMPLE TABLE
UNIVERSITY OF TEXAS MEDICAL BRANCH AT GALVESTON
JOHN SEALY ANNEX BUILDING M009, LEVELS 6 & 9
PHASE 3 SURGERY SUITE RENOVATION
GALVESTON, TEXAS**

Sampled February 15, 2018

H. A.* Number	Material Description	Sample Location	Sample Numbers	Percent Asbestos	Condition	Friability (Y/N)
07	<i>12"x12" White Floor Tile with Tan Streak Pattern and Black Mastic</i>	6.310E	23	<i>None Detected-Floor Tile 5% Chrysotile-Mastic</i>	Good	N
		6.310E	24	<i>None Detected-Floor Tile Not Analyzed-Mastic</i>	Good	N
		6.310E	25	<i>None Detected-Floor Tile Not Analyzed-Mastic</i>	Good	N
08	Duct Insulation with Mastic	6.310E	26	None Detected	Good	N
		6.310E	27	None Detected	Good	N
		6.310E	28	None Detected	Good	N
09	Beige Floor Tile with Glue (Beneath Carpet)	6.310	29	<1% Chrysotile-Floor Tile None Detected-Glue	Good	N
		6.310	30	<1% Chrysotile-Floor Tile None Detected-Glue	Good	N
		6.310	31	<1% Chrysotile-Floor Tile None Detected-Glue	Good	N
10	Sheetrock/Joint Compound	9.112	32	None Detected	Good	N
		9.112E	33	None Detected	Good	N
		9.112D	34	None Detected	Good	N
		9.300 Hallway	35	None Detected-Sheetrock 0.75% Chrysotile-JC 0.50% Chrysotile-Texture	Good	N
		9.300 Hallway	36	None Detected-Sheetrock 0.75% Chrysotile-JC 0.75% Chrysotile-Texture	Good	N

- 1) ***Bold and italicized indicate confirmed asbestos containing material.***
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**BULK ASBESTOS SAMPLE TABLE
UNIVERSITY OF TEXAS MEDICAL BRANCH AT GALVESTON
JOHN SEALY ANNEX BUILDING M009, LEVELS 6 & 9
PHASE 3 SURGERY SUITE RENOVATION
GALVESTON, TEXAS**

Sampled February 15, 2018

H. A.* Number	Material Description	Sample Location	Sample Numbers	Percent Asbestos	Condition	Friability (Y/N)
11	<i>12"x12" Off-White Floor Tile with Tan Streak Pattern and Black Mastic</i>	9.314	37	<i>2% Chrysotile-Floor Tile</i>	<i>Good</i>	<i>N</i>
		9.314	38	<i>5% Chrysotile-Mastic</i>	<i>Good</i>	<i>N</i>
		9.332	39	<i>Not Analyzed</i>	<i>Good</i>	<i>N</i>
NA	<i>9"x9" Beige Floor Tile with Black Mastic</i>	<i>Lab 9.302</i>	<i>NA</i>	<i>Tested Positive in a Previous Survey</i>	<i>Good</i>	<i>N</i>
NA	Brown Covebase with Adhesive	Lab 9.302	NA	Tested Negative in a Previous Survey	Good	N
NA	<i>Black Mastic beneath 9"x9" Light Beige Floor Tile</i>	<i>Office 9.308</i>	<i>NA</i>	<i>Tested Positive in a Previous Survey</i>	<i>Good</i>	<i>N</i>
NA	Wall Plaster with Joint Compound	Lab 9.302 & M925	NA	Tested Negative in a Previous Survey	Good	Y
NA	2'x2' Ceiling Tile with Pinholes	Lab 9.302, 9.302A & M952	NA	Tested Negative in a Previous Survey	Good	Y
NA	HVAC Cork Duct Insulation with Black Mastic	M952	NA	Tested Negative in a Previous Survey	Good	N
NA	Ceiling Plaster with Joint Compound	9 th Floor Restroom	NA	Tested Negative in a Previous Survey	Good	N
NA	Pipe Insulation with Black Mastic	Hallway outside 9 th Floor Restroom	NA	Tested Negative in a Previous Survey	Good	N

- 1) ***Bold and italicized indicate confirmed asbestos containing material.***
- 2) ***Materials may be located in areas other than the sample location.***

APPENDIX B
ASBESTOS LABORATORY RESULTS



EMSL Analytical, Inc.

5950 Fairbanks N. Houston Rd. Houston, TX 77040

Tel/Fax: (713) 686-3635 / (713) 686-3645

<http://www.EMSL.com/houstonlab@emsl.com>

EMSL Order: 151801095

Customer ID: ICU80

Customer PO:

Project ID:

Attention: Dan Ward
Total Safety-EHS Services
365 Highway 365
Port Arthur, TX 77640

Phone: (713) 962-8227

Fax: (409) 729-5072

Received Date: 02/19/2018 9:30 AM

Analysis Date: 02/20/2018 - 02/21/2018

Collected Date: 02/16/2018

Project: Survey @ UTMB/JSA 6th and 9th Floors/ Job #5925429

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1-Drywall <i>151801095-0001</i>		Brown/White Fibrous Homogeneous	10% Cellulose	60% Gypsum 30% Non-fibrous (Other)	None Detected
1-Joint Compound <i>151801095-0001A</i>		White Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (Other)	None Detected
2-Drywall <i>151801095-0002</i>		Brown/White Fibrous Homogeneous	10% Cellulose	60% Gypsum 30% Non-fibrous (Other)	None Detected
2-Wall Covering <i>151801095-0002A</i>		White Fibrous Homogeneous	5% Synthetic	5% Ca Carbonate 90% Non-fibrous (Other)	None Detected
3-Drywall <i>151801095-0003</i>		Brown/White Fibrous Homogeneous	10% Cellulose	60% Gypsum 30% Non-fibrous (Other)	None Detected
3-Wall Covering <i>151801095-0003A</i>		White Fibrous Heterogeneous	5% Synthetic	5% Ca Carbonate 90% Non-fibrous (Other)	None Detected
4-Drywall <i>151801095-0004</i>		Brown/White Fibrous Homogeneous	10% Cellulose 3% Glass	60% Gypsum 27% Non-fibrous (Other)	None Detected
4-Joint Compound <i>151801095-0004A</i>		White Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (Other)	None Detected
4-Wall Covering <i>151801095-0004B</i>		Beige Fibrous Homogeneous	8% Cellulose	92% Non-fibrous (Other)	None Detected
5-Drywall <i>151801095-0005</i>		Brown/White Fibrous Homogeneous	10% Cellulose	60% Gypsum 30% Non-fibrous (Other)	None Detected
5-Mastic <i>151801095-0005A</i>		Brown/Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
6-Drywall <i>151801095-0006</i>		Brown/White Fibrous Homogeneous	10% Cellulose	60% Gypsum 30% Non-fibrous (Other)	None Detected
6-Texture <i>151801095-0006A</i> <i>Inseparable paint / coating layer included in analysis</i>		White/Beige Non-Fibrous Heterogeneous		20% Ca Carbonate 80% Non-fibrous (Other)	None Detected
6-Mastic <i>151801095-0006B</i>		Brown/Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
7-Drywall <i>151801095-0007</i>		Brown/White Fibrous Homogeneous	10% Cellulose	60% Gypsum 30% Non-fibrous (Other)	None Detected
7-Mastic <i>151801095-0007A</i>		Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Report amended: 02/21/2018 14:26:15 Replaces initial report from: 02/21/2018 12:49:09 Reason Code: Client-Change to Appearance



EMSL Analytical, Inc.

5950 Fairbanks N. Houston Rd. Houston, TX 77040

Tel/Fax: (713) 686-3635 / (713) 686-3645

<http://www.EMSL.com> / houstonlab@emsl.com

EMSL Order: 151801095
Customer ID: ICU80
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
8-Cove Base <i>151801095-0008</i>		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
8-Mastic <i>151801095-0008A</i>		Brown/Tan Non-Fibrous Homogeneous	<1% Wollastonite	100% Non-fibrous (Other)	None Detected
9-Cove Base <i>151801095-0009</i>		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
9-Mastic <i>151801095-0009A</i>		Brown/Tan Non-Fibrous Homogeneous	<1% Wollastonite	100% Non-fibrous (Other)	None Detected
10-Cove Base <i>151801095-0010</i>		Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
10-Mastic <i>151801095-0010A</i>		Brown/Yellow Non-Fibrous Homogeneous	<1% Wollastonite	100% Non-fibrous (Other)	None Detected
11 <i>151801095-0011</i>		White/Beige Fibrous Homogeneous	40% Cellulose 20% Min. Wool	40% Non-fibrous (Other)	None Detected
12 <i>151801095-0012</i>		White/Beige Fibrous Homogeneous	40% Cellulose 20% Min. Wool	40% Non-fibrous (Other)	None Detected
13 <i>151801095-0013</i>		White/Beige Fibrous Homogeneous	40% Cellulose 20% Min. Wool	40% Non-fibrous (Other)	None Detected
14-Floor Tile <i>151801095-0014</i>		Brown/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
14-Mastic <i>151801095-0014A</i>		Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
14-Leveler <i>151801095-0014B</i>		Gray/White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
15-Floor Tile <i>151801095-0015</i>		Tan/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
15-Mastic <i>151801095-0015A</i>		Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
15-Leveler <i>151801095-0015B</i>		Gray/White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
16-Floor Tile <i>151801095-0016</i>		Pink Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
16-Mastic <i>151801095-0016A</i>		Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
16-Leveler <i>151801095-0016B</i>		White Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (Other)	None Detected
17 <i>151801095-0017</i>		Gray/Yellow Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected

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EMSL Order: 151801095
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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
18 <small>151801095-0018</small>		Gray/Yellow Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
19 <small>151801095-0019</small>		Gray/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
20-Cove Base <small>151801095-0020</small>		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
20-Mastic <small>151801095-0020A</small>		Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
21-Cove Base <small>151801095-0021</small>		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
21-Mastic <small>151801095-0021A</small>		Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
22-Cove Base <small>151801095-0022</small>		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
22-Mastic <small>151801095-0022A</small>		Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
23-Floor Tile <small>151801095-0023</small>		Gray/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
23-Mastic <small>151801095-0023A</small>		Black Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
24-Floor Tile <small>151801095-0024</small>		Gray/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
24-Mastic <small>151801095-0024A</small>					Positive Stop (Not Analyzed)
25-Floor Tile <small>151801095-0025</small>		Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
25-Mastic <small>151801095-0025A</small>					Positive Stop (Not Analyzed)
26-Wrap <small>151801095-0026</small>		Silver/Beige Fibrous Homogeneous	10% Glass <1% Wollastonite	90% Non-fibrous (Other)	None Detected
26-Insulation <small>151801095-0026A</small>		Yellow Fibrous Homogeneous	90% Glass	10% Non-fibrous (Other)	None Detected
27-Wrap <small>151801095-0027</small>		Silver/Beige Fibrous Homogeneous	10% Glass <1% Wollastonite	90% Non-fibrous (Other)	None Detected
27-Insulation <small>151801095-0027A</small>		Yellow Fibrous Homogeneous	90% Glass	10% Non-fibrous (Other)	None Detected
28-Wrap <small>151801095-0028</small>		Silver/Beige Non-Fibrous Homogeneous	10% Glass <1% Wollastonite	90% Non-fibrous (Other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
28-Insulation <i>151801095-0028A</i>		Yellow Fibrous Homogeneous	95% Glass	5% Non-fibrous (Other)	None Detected
29-Floor Tile <i>151801095-0029</i>		Brown/Beige Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
29-Mastic <i>151801095-0029A</i>		Brown/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
29-Leveler <i>151801095-0029B</i>		White Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (Other)	None Detected
30-Floor Tile <i>151801095-0030</i>		Brown/Beige Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
30-Mastic <i>151801095-0030A</i>		Brown/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
31-Floor Tile <i>151801095-0031</i>		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
31-Mastic <i>151801095-0031A</i>		Brown/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
32-Drywall <i>151801095-0032</i>		Brown/White Fibrous Homogeneous	10% Cellulose	60% Gypsum 30% Non-fibrous (Other)	None Detected
32-Joint Compound <i>151801095-0032A</i>		White Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (Other)	None Detected
32-Texture <i>151801095-0032B</i> <i>Inseparable paint / coating layer included in analysis</i>		White/Beige Non-Fibrous Heterogeneous		20% Ca Carbonate 80% Non-fibrous (Other)	None Detected
33 <i>151801095-0033</i>		Brown/White Fibrous Homogeneous	10% Cellulose	60% Gypsum 30% Non-fibrous (Other)	None Detected
34-Drywall <i>151801095-0034</i>		Brown/White Fibrous Homogeneous	10% Cellulose	60% Gypsum 30% Non-fibrous (Other)	None Detected
34-Joint Compound <i>151801095-0034A</i>		White Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (Other)	None Detected
34-Texture <i>151801095-0034B</i> <i>Inseparable paint / coating layer included in analysis</i>		White/Beige Non-Fibrous Heterogeneous		20% Ca Carbonate 80% Non-fibrous (Other)	None Detected
35-Drywall <i>151801095-0035</i>		Brown/White Fibrous Homogeneous	10% Cellulose	60% Gypsum 30% Non-fibrous (Other)	None Detected
35-Joint Compound <i>151801095-0035A</i>		White Fibrous Homogeneous		20% Ca Carbonate 78% Non-fibrous (Other)	2% Chrysotile
35-Texture <i>151801095-0035B</i> <i>Inseparable paint / coating layer included in analysis</i>		White/Beige Fibrous Heterogeneous		20% Ca Carbonate 78% Non-fibrous (Other)	2% Chrysotile

Report amended: 02/21/2018 14:26:15 Replaces initial report from: 02/21/2018 12:49:09 Reason Code: Client-Change to Appearance



EMSL Analytical, Inc.

5950 Fairbanks N. Houston Rd. Houston, TX 77040

Tel/Fax: (713) 686-3635 / (713) 686-3645

<http://www.EMSL.com/houstonlab@emsl.com>

EMSL Order: 151801095
Customer ID: ICU80
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
36-Drywall <i>151801095-0036</i>		Brown/White Fibrous Homogeneous	10% Cellulose	60% Gypsum 30% Non-fibrous (Other)	None Detected
36-Joint Compound <i>151801095-0036A</i>					Positive Stop (Not Analyzed)
36-Texture <i>151801095-0036B</i>					Positive Stop (Not Analyzed)
37-Floor Tile <i>151801095-0037</i>		White/Beige Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
37-Mastic <i>151801095-0037A</i>		Black Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
38 <i>151801095-0038</i>					Positive Stop (Not Analyzed)
39 <i>151801095-0039</i>					Positive Stop (Not Analyzed)

Analyst(s) _____

Collin Creel (20)
Wanda Porch (53)

Michelle Leggett, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. 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. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

Samples analyzed by EMSL Analytical, Inc. Houston, TX NVLAP Lab Code 102106-0, AZ 0925, CO AL-15355, LA 04126, TX 300159

Report amended: 02/21/2018 14:26:15 Replaces initial report from: 02/21/2018 12:49:09 Reason Code: Client-Change to Appearance



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Chain of Custody

EMSL Order Number (Lab Use Only):

151801095

EMSL Analytical, Inc. 5950
Fairbanks North Houston
Houston, TX 77040
PHONE: 1-866-318-3920
FAX: 713-686-3645

Company: Total Safety - EHS Services		EMSL-Bill to: <input type="checkbox"/> Same <input checked="" type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: 365 Highway 365		Third Party Billing requires written authorization from third party	
City: Port Arthur	State/Province: TX	Zip/Postal Code: 77640	Country: US
Report To (Name): Dan Ward/Sara Hebert		Fax #:	Purchase Order:
Telephone #: 713.962.8227		Email Address: dward@totalsafety.com, shebert@totalsafety.com	
Project Name/Number: Survey @ UTMB / JSA		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail	
U.S. State Samples Taken: 0 10th & 9th Floors		Connecticut Samples: <input type="checkbox"/> Commercial <input type="checkbox"/> Residential	

Turnaround Time (TAT) Options* - Please Check

3 Hour
 6 Hour
 24 Hour
 48 Hour
 72 Hour
 96 Hour
 1 Week
 2 Week

*For RUSH TATs, Please Call Ahead to Confirm Lab Hours and Availability. Not all TAT options are valid for every test. Materials Science and IAQ TATs are in Business Days rather than Hours (i.e. 24 Hour = End of Next Business Day)

Asbestos

<p>PCM - Air</p> <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/8hr. TWA <p>TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA ONLY)</p> <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 <p>TEM - Water</p> Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	<p>PLM - Bulk</p> <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 <input type="checkbox"/> PLM EPA NOB (<1%) <input type="checkbox"/> NYS 198.1 (friable-NY) <input type="checkbox"/> NYS 198.6 (non-friable-NY) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/ Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)	<p>TEM - Bulk</p> <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <p>Soil/Rock/Vermiculite</p> <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> EPA Reg. 1 Screening Protocol (Qualitative) <p>Other:</p>
--	---	---

<p style="text-align: center; font-weight: bold;">Lead (Pb)</p> <p style="text-align: center; font-weight: bold;">Flame Atomic Absorption</p> <input type="checkbox"/> Chips SW846-7000B or AOAC 974.02 <input type="checkbox"/> Soil SW846-7000B/7420 <input type="checkbox"/> Air NIOSH 7082 <input type="checkbox"/> Wastewater SM3111B or SW846-7000B/7420 <input type="checkbox"/> ASTM Wipe SW846-7000B/7420 <input type="checkbox"/> non ASTM Wipe SW846-7000B/7420 <input type="checkbox"/> TCLP SW846-1311/7420/SM 3111B	<p style="text-align: center; font-weight: bold;">ICP</p> <input type="checkbox"/> Air NIOSH 7300 Modified <input type="checkbox"/> non ASTM Wipe SW846-6010B or C <input type="checkbox"/> ASTM Wipe SW846-6010B or C <input type="checkbox"/> Soil SW846-6010 B or C <input type="checkbox"/> Waste Water SW846-6010B or C <input type="checkbox"/> TCLP SW846-6010B or C
<p style="text-align: center; font-weight: bold;">Graphite Furnace Atomic Absorption</p> <input type="checkbox"/> Soil SW846-7421 <input type="checkbox"/> Wastewater EPA 200.9 <input type="checkbox"/> Air NIOSH 7105 <input type="checkbox"/> Drinking Water EPA 200.9	<p>Other: <input type="checkbox"/></p>

<p style="text-align: center; font-weight: bold;">Microbiology</p> <p>Swab and Bulk Samples</p> <input type="checkbox"/> Mold & Fungi - Direct Examination <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi Culture (Genus & Species) <input type="checkbox"/> Bacterial Count & ID (Up to Three Types) <input type="checkbox"/> Bacterial Count & ID (Up to Five Types)	<p>Air Samples</p> <input type="checkbox"/> Mold & Fungi (Spore Trap) <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi Culture (Genus & Species) <input type="checkbox"/> Bacterial Culture & ID (Up to Three Types) <input type="checkbox"/> Bacterial Culture & ID (Up to Five Types)
<p>Sewage Screen</p> <input type="checkbox"/> Sewage Screen (P/A) <input checked="" type="checkbox"/> Sewage Screen (Membrane Filtration)	<p>DNA & PCR Testing: (See Analytical Guide for Code) Code:</p> <p>Legionella: (See Analytical Guide for Code) Code:</p> <p>Other: (See Analytical Guide for Code) Code:</p> <p>P/A = Presence/Absence, PP = Pour Plate</p>
<p>Water Samples</p> <input type="checkbox"/> Total Coliform & E.coli (P/A, SM 9223B) <input type="checkbox"/> Heterotrophic Plate Count (PP, SM 9215B) <input type="checkbox"/> Fecal Coliform (SM 9222D)	<p style="text-align: center; font-weight: bold;">IAQ</p> Nuisance Dust NIOSH <input type="checkbox"/> 0500 <input type="checkbox"/> 0600 Airborne Dust <input type="checkbox"/> PM10 <input type="checkbox"/> TSP Silica Analysis: <input type="checkbox"/> All Species Silica Analysis - Single Species <input type="checkbox"/> Alpha Quartz <input type="checkbox"/> Cristoballite <input type="checkbox"/> Tridymite <input type="checkbox"/> HVAC Efficiency <input type="checkbox"/> Carbon Black <input type="checkbox"/> Airborne Oil Mist Radon Testing: Call for Kit and COC Other: <input type="checkbox"/>

****Comments/Special Instructions:** 713.962.8227
 BuTo: Total Safety-EHS Services, 4210 Malone Drive, Pasadena, TX, 77507, US
 Attention: Dan Ward Phone: 281.583.6100 Email: Purchase Order

Positive Stop

Client Sample #s	1 - 39	Total # of Samples:	39
Relinquished (Client):	<i>C. Ward</i>	Date:	2/19/18
Received (Lab):	<i>S. Wilson</i>	Date:	2/22/18
		Time:	1700
		Time:	930AM



EMSL Analytical, Inc.

5950 Fairbanks N. Houston Rd. Houston, TX 77040

Phone/Fax: (713) 686-3635 / (713) 686-3645

<http://www.EMSL.com> / houstonlab@emsl.com

EMSL Order: 151801095

Customer ID: ICU80

Customer PO:

Project ID:

Attention: Dan Ward
Total Safety-EHS Services
365 Highway 365
Port Arthur, TX 77640

Phone: (713) 962-8227
Fax: (409) 729-5072
Received: 02/19/2018 9:30 AM
Analysis Date: 02/21/2018
Collected: 02/16/2018

Project: Survey @ UTMB/JSA 6th and 9th Floors/ Job #5925429

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy. Quantitation using 400 Point Count Procedure

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
35-Joint Compound 151801095-0035A		White Non-Fibrous Homogeneous		99.25% Non-fibrous (Other)	0.75% Chrysotile
35-Texture 151801095-0035B		White/Beige Non-Fibrous Heterogeneous		99.50% Non-fibrous (Other)	0.50% Chrysotile
Inseparable paint / coating layer included in analysis					
36-Joint Compound 151801095-0036A		White Non-Fibrous Homogeneous		99.25% Non-fibrous (Other)	0.75% Chrysotile
36-Texture 151801095-0036B		White Non-Fibrous Heterogeneous		99.25% Non-fibrous (Other)	0.75% Chrysotile
Inseparable paint / coating layer included in analysis					

Analyst(s)

Jenny Drapela (4)

Michelle Leggett, Laboratory Manager
or other approved signatory

Disclaimer: Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. The limit of detection as stated in the method is 0.25%. EMSL Analytical Inc suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval of EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government. EMSL Analytical Inc., bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc., liability is limited to the cost of sample analysis. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. Houston, TX

Initial report from: 02/21/2018 17:33:22

APPENDIX C
DEPARTMENT OF STATE HEALTH SERVICES LICENSES



License Number: 100489 Current Date: 10/25/2017 01:13 PM
 Name: TOTAL SAFETY US INC
 Doing Business As: TOTAL SAFETY EHS SERVICES
 License Type: Asbestos Consultant Agency
 License Status: Current
 Expiry Date: 09/05/2018
 Effective Rank Date: 09/06/2012

Addresses

Main Address	Address	365 HWY 365 PORT ARTHUR , TX JEFFERSON 77640 US
	Phone Number:	7139628227
Physical Address	Address	365 HWY 365 PORT ARTHUR , TX JEFFERSON 77640 US
	Phone Number:	2812914800
Mailing Address (Enter name of company or individual associated with the mailing address)	Address	TOTAL SAFETY US INC PORT ARTHUR , TX JEFFERSON 77640 US
	Phone Number:	2812914800

Asbestos Consultant Agency Designated Person

Licensee's Role:	Asbestos Consultant Agency	
Related Party Role:	Asbestos Individual Consultant	
Related Party Name	License	Address
	Asbestos Individual Consultant #105619	DEER PARK , TX HARRIS 77536 US
FIFE, RONALD E	Status: Current	
	Expiration Date: 10/20/2019	



License Number: 105479 Current Date: 10/25/2017 01:14 PM
 Name: WARD, DANIEL R
 License Type: Asbestos Individual Consultant
 License Status: Current
 Expiry Date: 05/11/2018
 Effective Rank Date: 05/12/2006

Addresses

Main Address	Address	BEAUMONT , TX JEFFERSON 77705 US
Mailing Address (Enter name of company or individual associated with the mailing address)	Address	TOTAL SAFETY EHS SERVICES PORT ARTHUR , TX JEFFERSON 77640 US



License Number:	603246	Current Date:	10/25/2017 01:15 PM
Name:	CROCHET, FRAN C		
License Type:	Asbestos Inspector		
License Status:	Current		
Expiry Date:	06/20/2019		
Effective Rank Date:	06/21/2013		

Addresses

Main Address	Address	GROVES , TX JEFFERSON 77619 US
Mailing Address (Enter name of company or individual associated with the mailing address)	Address	TOTAL SAFETY US INC Attn: Caroline Gaspard PORT ARTHUR , TX JEFFERSON 77640 US
	Phone Number:	4097237400



License Number: 602690 Current Date: 10/25/2017 01:16 PM
 Name: LEE, ANDREW L
 License Type: Asbestos Inspector
 License Status: Current
 Expiry Date: 02/22/2018
 Effective Rank Date: 02/23/2006

Addresses

Main Address	Address	PORT ARTHUR , TX JEFFERSON 77640 US
Mailing Address (Enter name of company or individual associated with the mailing address)	Address	TOTAL SAFETY EHS SERVICES PORT ARTHUR , TX JEFFERSON 77640 US
	Phone Number:	4097237438
