

Detroit, MI Chicago, IL Denver, CO Tiburon, CA St. Louis, MO Indianapolis, IN Kansas City, MO Minneapolis, MN **HQ:** Waukesha, WI

## Addendum #1

Project: SB860 - Administration Building - Roof Replacement

Project Number: 20210256 Date: March 24, 2025

#### Notice to all Plan Holders/Bidders:

The following modifications, additions, deletions, clarifications and/or information are now part of the Contract Documents and shall be fully binding. This addendum must be acknowledged as part of the Bid Form.

#### Item #1 (attendance sheet):

See the attached attendance sheet from the pre-bid meeting held on March 20, 2025.

#### Item #2 (asbestos report):

Attached is a copy of the asbestos report.

#### Item #3 (Existing Building Plans):

The structural plans from the construction of the building are available. If you would like a copy emailed, please send a request to <a href="mailto:info@building-envelope.net">info@building-envelope.net</a>. In the subject line note "Administration Building Original Plans".

#### Item #4 (Bid date):

The bid date has been extended to April 3, 2025, 2:00 p.m. EST.

#### Item #5 (Clarified Detail):

Notes have been added to detail 1 on A3.0 (see the attached). Reuse the existing copper counter flashing below the coping stones to cover the specified termination bar.

#### Item #6 (Revised Roof Plan):

Delete note 18 located on the south wall (west end) of roof area A. See the revised section of the roof plan (attached).

End of Addendum No. 1



The following questions/answers were stated at the pre-bid meeting held on site on March 20, 2025:

- Question: Is it required to raise any low units?
  - **Answer:** Any low units that are lower than 8" must be raised to 8" per manufacturer warranty standards and any non-functional roof top curbs, or equipment will be considered for removal and coordinated with IU Personnel and staff.
- Question: Can we use the existing copper counter flashing under the stone coping to cover the specified anchor bar? This would act as a counter flashing and may be required by manufacturers?
   Answer: See item #5 above.
- Question: Where are is the set-up location?
  - **Answer:** The proposed set-up/storage location is listed 2 on A0.0. Final location will be established at the pre-construction meeting.
- Question? What is the deck thickness as it relates to the anchor attachment?
   Answer: See item 3 above.

The following topics were discussed at the on-site, pre-bid meeting held March 20, 2025:

- Project requirements, system description, warranty requirements, and IU procedural requirements.
- Please email any other related questions to Tom Laufenberg at <u>Toml@building-envelope.net</u> or <u>Andyb@building-envelope.net</u>.
- IU contacts are as follows Brian Klaum, Mike Huff, and Eric Bucholtz. Their contact information is on the attached sign in sheet.
- Please be aware that notes 17 and 18 on A1.1 applies to the alternate bid #2.

March 24, 2025 Page 2 of 2

| Name                             | Company                | Phone #                      | Email                             |
|----------------------------------|------------------------|------------------------------|-----------------------------------|
| Keith Shelly                     | Bennett & Brosseau     |                              | George                            |
| Alonzo Patino                    | Windward Roofing       | 773-573-4303                 | apatino@windwardroofing.com       |
| Nelson Smiley                    | Foster Contracting Inc | 317-464-7597                 | nelson@fostercontracting.net      |
| Tony Sagrati                     | Korellis               | 219-713-9807                 | tsagrati@korellis.com             |
| Ken Hoy                          | Slatile Roofing        | 574-233-7485                 | ken.hoy@slatile.com               |
| Tim Brooker                      | DCG Roofing Solutions  | 847-274-6817                 | tbrooker@dcgroofing.com           |
| Jerry Dollahan                   | Slatile                |                              | jerry.dollahan@slatile.com        |
| Eric Bucholtz                    | IUSB                   | 574-520-4680                 | ebucholt@iu.edu                   |
| Brian Klaum                      | IU                     | 317-946-4530                 | bdklaum@iu.edu                    |
| Andy Barriento                   | BEC                    | 317-432-1727                 | andyb@building-envelope.net       |
| Doug Ruffner                     | Applied Fabricators    | 317-701-0936                 | druffner@appliedfabricators.com   |
| Mike Huff  Aaron Hoover(not pres | IU<br>ent) IU          | 574-520-4319<br>574-520-4319 | huffmike@iu.edu  aahoover@usb.edu |
| Aaron Hoover(not pres            | ent) IU                | J/4-JZU-4519                 | aanoover@usb.euu                  |

#### PROJECT REPORT

Asbestos Survey
Administration Building - Roofing
Indiana University South Bend
1700 W. Mishawaka Avenue
South Bend, IN 46615

#### Submitted To:

Ms. Jami L. Bennett-Hammon
Asbestos Project Coordinator
Office of Environmental, Health & Safety Management
Indiana University
1514 E. 3<sup>rd</sup> Street
Bloomington, IN 47401

Project Number:

15.1300.4.1

Dates Inspected:

**December 1 & 3, 2015** 

Prepared By:

Amereco Engineering 204 E. Jefferson Street Valparaiso, IN 46383 (219) 531-0531 204 E. JEFFERSON ST. • VALPARAISO, IN 46383 • OFFICE 219.531.0531 • FAX 219.464.0464

February 22, 2016

Ms. Jami L. Bennett – Hammon Asbestos Project Coordinator Office of Environmental, Health & Safety Management Indiana University 1514 E. 3<sup>rd</sup> Street Bloomington, IN 47401

Re:

Asbestos Roofing Survey Indiana University South Bend Administration Building Project No. 15.1300.4.1

Dear Ms. Bennett-Hammon:

Thank you for the opportunity to provide you and Indiana University with this service. Attached please find the report associated with the asbestos roofing survey completed at the above captioned location. This survey was conducted on December 1<sup>st</sup> and 3<sup>rd</sup>, 2015, by John Blosky and Zachary Heine, Indiana Department of Environmental Management Licensed Asbestos Inspectors, License Numbers: 198701061 and 196831037, respectively. All sampling and analyses were performed in accordance with all applicable local, state, and federal rules and regulations.

Please be advised that asbestos containing materials were not identified during the asbestos roofing survey. Please refer to the inspection result forms in the attachment portion of the report for all findings.

Please call if you have any questions or if additional assistance can be provided.

Respectfully.

Jeffrey Rugg, CHMM

Senior Environmental Manager

Attachments

Zachary Heine, CHMM Director of Operations

## **Table of Contents**

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## **Attachments**

| Site Plans                    | Appendix A |
|-------------------------------|------------|
| Asbestos Inspector Licensure  | Appendix B |
| Asbestos Inspection Results   | Appendix C |
| Laboratory Analytical Reports | Appendix D |

#### 1. Background

Amereco performed this asbestos survey to determine the location, condition and quantity of accessible asbestos-containing materials associated with the roofing system. The survey was performed in accordance with the Indiana Department of Environmental Management (IDEM), the US Environmental Protection Agency (EPA) rules and regulations, specifically, the National Emission Standard for Hazardous Air Pollutants (NESHAP) and the requirements established by the Occupational Safety and Health Act (OSHA).

Bulk samples were collected of the suspect asbestos containing materials (ACMs) identified in association with the roofing system at Indiana University South Bend's Administration Building. Site plans are attached with the building location, sample locations and identification of asbestos containing roofing components. All samples were analyzed for asbestos fiber content by polarized light microscopy (PLM) (EPA-600/M4-82-020). By EPA and OSHA definition, materials containing greater than 1% asbestos content are defined as asbestos containing material (ACM).

#### 2. Inspection

On December 1 and 3, 2015, Amereco was on-site to perform the asbestos survey. All accessible ACMs were categorized into separate homogeneous materials and sampled accordingly. A homogeneous sample area is defined by the U.S. Environmental Protection Agency (EPA) as an area of surfacing material, thermal insulation, or miscellaneous material that is uniform in color and texture (Asbestos Hazard Emergency Response Act [AHERA] 40 CFR 763 Subpart E). A total of twenty-seven (27) suspect asbestos samples were collected by John Blosky, License No. 198701061 and Zachary Heine, License No. 196831037.

Bulk samples were collected from suspect asbestos containing materials according to the sampling methods described in the AHERA, 40 CFR 763.86. For surfacing materials (SURF), samples were collected from each homogeneous area as follows: three (3) samples collected from materials <1,000 SF, five (5) samples from materials >1,000 and seven (7) samples were collected from materials >5,000 SF. For thermal system insulation (TSI), a minimum of six (6) bulk samples were collected from each homogeneous material. This included a minimum of three (3) samples for each different fitting, if identified, (elbow, tee, valve, etc). Samples of miscellaneous building materials (MISC) and suspect non-friable materials were collected to sufficiently determine the presence or absence of asbestos. For materials identified as "none detect" a minimum of three (3) samples were collected and analyzed, unless there was a very small quantity of the material.

To avoid disturbing the material more than necessary and potentially cause the release of asbestos fibers, the inspector performed bulk sampling of suspect materials in accordance with generally accepted procedures outlined by the EPA. Each sample was collected and placed in a clean, sealable container and labeled with a unique sample identification number. The sample number was recorded on a Bulk Sample Log Form and on the sample container to permit easy identification of the sampled material. Supplemental information was also recorded on the Bulk Sample Log Form, including date of inspection, a brief description, location of the sample, quantity, and type (matrix) of material sampled.

The bulk samples were analyzed for asbestos content by polarized-light microscopy (PLM). This analytical method, which EPA and OSHA currently recommend for the determination of asbestos in bulk samples of friable materials, can be used for qualitative identification of six morphologically different types of asbestos fibers: chrysotile, amosite, crocidolite, anthrophyllite, tremolite, and actinolite asbestos. The method specifies that the asbestos content in a bulk sample shall be estimated and reported as a finite percentage within the range of 0 to 100. Minute quantities of asbestos in bulk samples may be reported as "trace" or less than 1 percent (<1%). The analytical method determines the asbestos percentage by means of the visual estimation technique.

#### 3. Findings

The following tables depict the asbestos containing building materials identified, in association with the roofing system, at the subject site:

|         | Homoger              | ous Material            |                 |            |
|---------|----------------------|-------------------------|-----------------|------------|
| Roof ID | Building<br>Material | Description of Material | EPA<br>Category | Friability |

Please refer to the site plans found in Appendix A of this report for additional information on the location of the asbestos containing roofing. Additionally, please refer to the Roof Core Location Map for the location of all roof coring activities conducted onsite. For additional information regarding the contents of each roof core and the samples collected, please refer to the Asbestos Inspection Results – Roof Cores, in tabular format, found in Appendix C.

#### 4. Conclusion

Based on the results of the asbestos survey, asbestos containing roofing materials were not identified. No further actions are required and the roofing materials may be removed and/or replaced as needed.

#### 5. Report Limitations

Amereco made a diligent effort to inspect all areas of the roofing system that may contain asbestos. However, demolition activities may uncover suspect ACMs that were previously inaccessible. In the event that ACMs are uncovered during demolition, such materials should be documented and handled accordingly.

The sampling and analyses were performed in accordance with all applicable state and federal rules and regulations governing asbestos inspections in public and commercial buildings. Quality control criteria specific to the analytical method have been met. All QA/QC documentation will remain on file for future reference.

## Appendix A



STE LOCATION MAP

PROJECT #: SHEET
15.1300.4.1

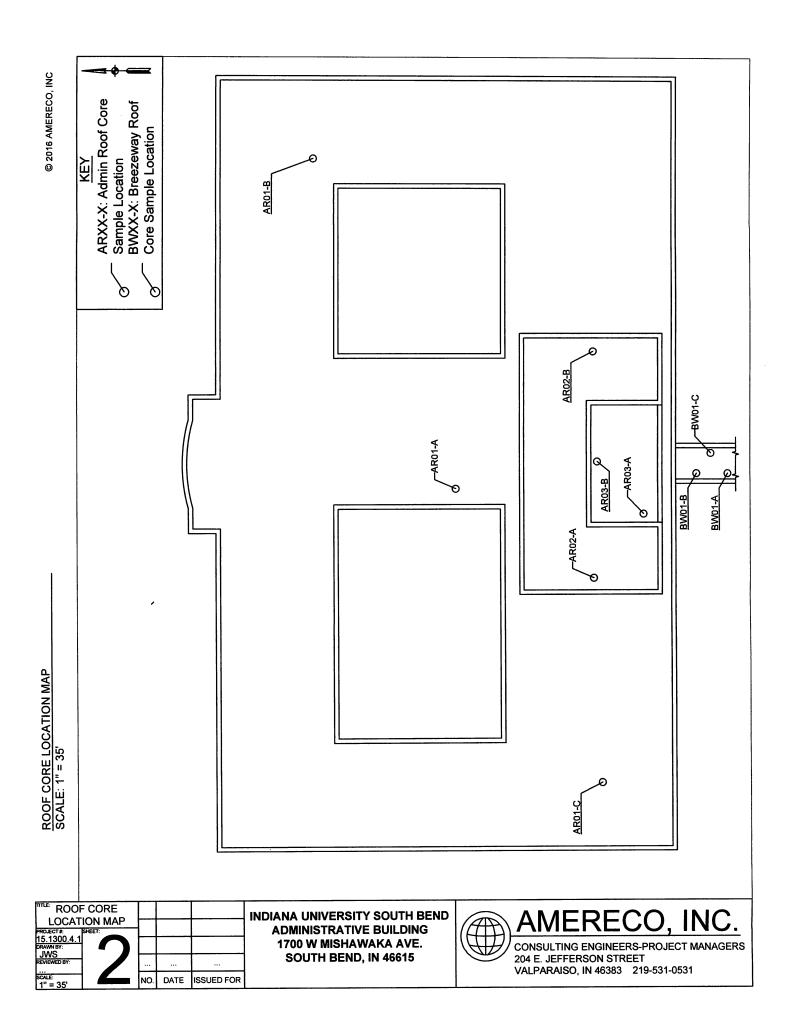
DRAWN BY:
STRAVIS
REVIEWED BY:
JBLOSKY
SCALE:
NTS

NO. DATE ISSUED FOR

INDIANA UNIVERSITY SOUTH BEND ADMINISTRATIVE BUILDING 1700 W MISHAWAKA AVE. SOUTH BEND, IN 46615

## AMERECO, INC

CONSULTING ENGINEERS-PROJECT MANAGERS 204 E. JEFFERSON STREET VALPARAISO, IN 46383 219-531-0531



# Appendix B

#### **Asbestos Licensure**



Indiana Dept. of Environmental Management

John T. Blosky

Asbestos Project Designer License #: 190823109

Effective: 01/03/2016 Birth Date: 07/09/1963

Height: 6-02 Weight: 208 Expiration: 01/03/2017

Gender: M Bye Color: Blue Hair Color: Brown



Indiana Dept. of Environmental Management

John T. Blosky

Asbestos Management Planner License #: 198701061

Effective: 11/17/2015 Birth Date: 07/09/1963

Height: 6-02 Weight: 208 Expiration: 11/17/2016

Gender: M
Eye Color: Blue
Hair Color: Brown



Indiana Dept. of Environmental Management

John T. Blosky

Asbestos Inspector License #: 198701061

Effective: 12/04/2015 Birth Date: 07/09/1963

Height: 6-02 Weight: 208 Expiration: 12/04/2016

Gender: M Eye Color: Blue Hair Color: Brown



Indiana Dept. of Environmental Management

Jeffrey A. Rugg

Asbestos Inspector License #: 194722076

Effective: 09/24/2015 Birth Date: 10/08/1979

Height: 6-01 Weight: 235 Expiration: 09/24/2016

Gender: M Eye Color: BRO Hair Color: BRO



Indiana Dept. of Environmental Management

Zachary K. Heine

Asbestos Management Planner License #: 192519018

Effective: 03/11/2015 Birth Date: 07/01/1983

Height: 6-05 Weight: 250 Expiration: 03/11/2016

Gender: M
Eye Color: BRO
Hair Color: BLK



Indiana Dept. of Environmental Management

Zachary K. Heine

Asbestos Inspector License #: 196831037

Effective: 05/07/2015 Birth Date: 07/01/1983

Height: 6-05 Weight: 250 Expiration: 05/07/2016

Gender: M
Eye Color: BRO
Hair Color: BLK

## **Appendix C**

# Asbestos Inspection Results - Roof Cores Administation Building - Roofing Indiana University South Bend

|               | Homo  | Homogenous Material     | , a o b o + c O v d a | , tilito | Asbestos | Sam    | Samples Collected |
|---------------|-------|-------------------------|-----------------------|----------|----------|--------|-------------------|
| Core ID       | Depth | Description of Material | Lr A Category         | Hability | Content  | ID     | Result            |
|               | 1/4"  | Built-up Roofing        | ×                     | NF       | ON       | AR01-A | QN                |
|               | 1/2"  | Yellow Fiberglass       | ×                     | NF       | ON       | NS     | AN                |
| AABO1-A       | 1"    | Built-up Roofing        | ×                     | NF       | No       | AR02-A | QN                |
| V-1010V       | 1"    | Brown Insulation        | ×                     | NF       | ON       | AR03-A | QN                |
|               | 1/4"  | Built-up Roofing        | ×                     | NF       | No       | AR04-A | QN                |
|               | NA    | Duplicate of AR01-A     | ×                     | NF       | ON       | AR06-A | QN                |
|               | 1/4"  | Built-up Roofing        | ×                     | NF       | ON       | AR01-B | QN                |
|               | 1/2"  | Yellow Insulaton        | ×                     | NF       | ON       | NS     | AN                |
| AAR01-B       | 1"    | Built-up Roofing        | ×                     | NF       | ON       | AR02-B | QN                |
|               | 1"    | Brown Insulation        | ×                     | NF       | No       | AR03-B | GN                |
|               | 1/4"  | Built-up Roofing        | ×                     | NF       | No       | AR04-B | GN                |
|               | 1/4"  | Built-up Roofing        | ×                     | NF       | No       | AR01-C | QN                |
|               | 1/2"  | Yellow Fiberglass       | ×                     | NF       | No       | NS     | NA                |
| AAR01-C       | 1"    | Built-up Roofing        | ×                     | NF       | No       | AR02-C | QN                |
|               | 1"    | Brown Insulation        | ×                     | NF       | No       | AR03-C | QN                |
|               | 1/4"  | Built-up Roofing        | ×                     | NF       | No       | AR04-C | QN                |
|               | 1/8"  | EPDM                    | ×                     | NF       | No       | NS     | NA                |
| AABO2-A       | 1/2"  | Yellow Insulation       | ×                     | NF       | No       | NS     | NA                |
| U-7011UU      | 1/2"  | Built-up Roofing        | ×                     | NF       | No       | AR05-A | QN                |
|               | 1/4"  | Brown Insulation        | ×                     | NF       | No       | NS     | NA                |
|               | 1/8"  | EPDM                    | ×                     | NF       | No       | NS     | NA                |
| A A A B O 2 B | 1/2"  | Yellow Insulation       | ×                     | NF       | No       | NS     | NA                |
| 2000          | 1/2"  | Built-up Roofing        | ×                     | NF       | No       | AR05-B | ND                |
|               | 1/4"  | Brown Insulation        | ×                     | NF       | No       | NS     | NA                |
| AABO3-A       | 1/16" | EPDM - Rubber           | ×                     | NF       | No       | NS     | NA                |
| ע-כסווטע      | 2"    | Yellow Foam             | ×                     | NF       | No       | NS     | NA                |
| a cody v      | 1/16" | EPDM - Rubber           | ×                     | NF       | No       | NS     | NA                |
| d-COARA       | 2"    | Yellow Foam             | ×                     | NF       | No       | NS     | NA                |

ND = None Detected

NA = Not Analyzed (Stop Positive or not a Suspect Material) NS = No Sample, Not a Suspect Asbestos Containing Material Notes:

AHERA Assessment Category: 1 = Damaged or significantly damaged TSI ACBM, 2 = Damaged friable surfacing ACBM, 3 = Significantly damaged friable surfacing ACBM, 5 = ACBM with potential for damage, 6 = ACBM with potential for significant damage, 7 = Any remaining friable ACBM or friable suspected ACBM, X = Not applicable (material is non-ACBM or nonfriable surfacing or miscellaneous material)

204 E. Jefferson Street Amereco Engineering Valparaiso, IN 46383 (219) 531-0531

# Asbestos Inspection Results - Roof Cores Indiana University South Bend Breezeway Between Admin and University Center

|          | Homo      | Homogenous Material          | EDA Catagoria | ruis bilita | Asbestos | Sam     | Samples Collected |
|----------|-----------|------------------------------|---------------|-------------|----------|---------|-------------------|
| Core ID  | Depth     | Description of Material      | Era Category  | ridbility   | Content  | Q       | Result            |
|          | 1/16"     | EPDM                         | ×             | NF          | No       | NS      | NA                |
| N/01_A   | 1.5"      | Yellow Foam                  | ×             | Ą           | No       | NS      | NA                |
| 7        | 1/2"      | Built-up Roofing with Gravel | ×             | ٩N          | No       | BR01-A  | ND                |
|          | 1/16"     | Tan Insulation Board         | ×             | NF          | No       | BR012-A | ND                |
|          | 1/16"     | EPDM                         | X             | NF          | ÓN       | NS      | NA                |
| DIVIOT D | 1.5"      | Yellow Foam                  | X             | NE          | ÓN       | NS      | NA                |
|          | $1/2^{m}$ | Built-up Roofing with Gravel | X             | .NE         | No       | BR01-B  | <u>N</u>          |
|          | 1/16"     | Tan Insulation Board         | X             | NE          | ON       | BR012-B | QN                |
|          | 1/16"     | EPDM                         | X             | NF          | No       | NS      | NA                |
| D-10/MB  | 1.5"      | Yellow Foam                  | ×             | NF          | No       | NS      | NA                |
| )        | 1/2"      | Built-up Roofing with Gravel | ×             | JN          | No       | BR01-C  | ND                |
|          | 1/16"     | Tan Insulation Board         | ×             | ٩N          | ON       | BR012-C | ON                |

ND = None Detected

**Notes:** NA = Not Analyzed (Stop Positive or not a Suspect Material)

NS = No Sample, Not a Suspect Asbestos Containing Material

= ACBM with potential for significant damage, 7 = Any remaining friable ACBM or friable suspected ACBM, X = Not applicable surfacing ACBM, 4 = Damaged or significantly damaged friable miscellaneous ACBM, 5 = ACBM with potential for damage, 6 AHERA Assessment Category: (material is non-ACBM or nonfriable surfacing or miscellaneous material)

Valparaiso, IN 46383

219.531.0531

# **Appendix D**

## **Appendix E**



2242 West Harrison St., Suite 200, Chicago, IL 60612-3766 Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com



NVLAP Lab Code 101202-0

#### ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA-600/M4-82-020

Amereco Inc 204 E Jefferson St. Valparaiso, IN 46383 Phone: (219) 531-0531 (219) 464 0464 Fax:

Reference:

PO#121115.3/15.13004.1

Date Received: 12/11/2015

Location:

Administration Roof South Bend, IN

Date Analyzed: 12/17/2015

Batch No.:

322199

Date Reported: 12/17/2015

Customer No.: 118

Turn Around Time: 5 Days

| Laboratory | Customer Sample   | Asbestos Components | Non-Asbestos Components |
|------------|-------------------|---------------------|-------------------------|
| Sample     | Number            | (%)                 | (%)                     |
| 322199001  | AR01-A-Membrane   | ND                  | Binder 99-100%          |
| 322199002  | AR01-B-Membrane   | ND                  | Binder 99-100%          |
| 322199003  | AR01-C-Membrane   | ND                  | Binder 99-100%          |
| 322199004  | AR01-A-Tar        | ND                  | Binder 99-100%          |
| 322199005  | AR01-B-Tar        | ND                  | Binder 99-100%          |
| 322199006  | AR01-C-Tar        | ND                  | Binder 99-100%          |
| 322199007  | AR01-A-Insulation | ND                  | Glass 99-100%           |
| 322199008  | AR01-B-Insulation | ND                  | Glass 99-100%           |
| 322199009  | AR01-C-Insulation | ND                  | Glass 99-100%           |
| 322199010  | AR02-A            | ND                  | Binder 99-100%          |
| 322199011  | AR02-B            | ND                  | Binder 99-100%          |
| 322199012  | AR02-C            | ND                  | Binder 99-100%          |
| 322199013  | AR03-A            | ND                  | Glass 99-100%           |
| 322199014  | AR03-B            | ND                  | Glass 99-100%           |
| 322199015  | AR03-C            | ND                  | Glass 99-100%           |
| 322199016  | AR04-A            | ND                  | Binder 99-100%          |
| 322199017  | AR04-B            | ND                  | Binder 99-100%          |
| 322199018  | AR04-C            | ND                  | Binder 99-100%          |

ND = Asbestos Not Detected (Not Present)

NA = Not Analyzed

NS = Not Submitted

Components of inhomogeneous samples are analyzed per our Standard Operating Procedure, or per customer request.

The use of the NVLAP logo does not imply endorsement by NVLAP or any agency of the US Government.

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify as immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This report remains property of STAT Analysis until payment is received in full (see invoice).

Analyzed by Name

Henry Robateau / Microscopist

Date: 12/17/2015

Page 1 of 2



2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com



#### ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA-600/M4-82-020

Amereco Inc 204 E Jefferson St. Valparaiso, IN 46383 Phone: (219) 531-0531 Fax: (219) 464 0464

Reference: PO#121115.3/15.13004.1 Date Received: 12/11/2015
Location: Administration Roof South Bend, IN Date Analyzed: 12/17/2015
Batch No.: 322199 Date Reported: 12/17/2015

Customer No.: 118 Turn Around Time: 5 Days

| Laboratory | Customer Sample | Asbestos Components | Non-Asbestos Components |
|------------|-----------------|---------------------|-------------------------|
| Sample     | Number          | (%)                 | (%)                     |
| 322199019  | AR05-A          | ND                  | Binder 99-100%          |
| 322199020  | AR05-B          | ND                  | Binder 99-100%          |
| 322199021  | AR06-A          | ND                  | Binder 99-100%          |

ND = Asbestos Not Detected (Not Present)

NA = Not Analyzed

NS = Not Submitted

Components of inhomogeneous samples are analyzed per our Standard Operating Procedure, or per customer request.

The use of the NVLAP logo does not imply endorsement by NVLAP or any agency of the US Government.

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This report remains property of STAT Analysis until payment is received in full (see invoice).

Analyzed by Name:

Henry Robaleau / Microscopist

Page 2 of 2

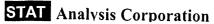
Date: 12/17/2015

STAVE Analysis Corporation 2255 W. Harrison, Suite B, Chicago, Illinois 60612 Phone: (312) 733-0551 Fax: (312) 733-2386 e-mail address: STATinfo@STATAnalysis.com AIHA accredited 10248 NVLAP accredited 1010202-0

|   | CRAIN OF CUSTODY RECORD                      | ECORD Page: of 2   |
|---|--|--|
| Client: Amereco Inc.                      | Turn Around: Immediate: 4 Hrs: 8             | 1-Dav. 72 11-  |
| Street Address: 204 E. Jefferson St       |  |  |
| City, State, Zip: Valparaiso, IN 46383    | OFFICE USE ONLY BELOW:                       | Relinouished by: < Mill Sure 10/1/12 2                     |
| Phone: 219-531-0531                       | Batch No.                                    |  |
| Fax: 219-464-0464                         | ングイン   | hy.  |
| e-mail/Alt Fax: labresults@amerecoeng.com | Samples Acceptable: Yesi No.                 |  |
| Project Name: Administration 1200 f       | 1 10 10                                      | þv.  |
| Project Number. 15, 1300 4, 1             | Shorts VI                                    |  |
| Project Location: South Bend 12           | Reported By (Initial/Date/Time/Method):      | qs   |
| Project Manager: Z. Hene                  | >  | tots<br>sots<br>sotsə<br>A oir                             |
| P.O. Number: 1211/5-3                     | Comments:                                    | estos<br>ostos<br>ostos<br>Asbes<br>Asbes<br>Asbes<br>ovac |
| Time                                      | Rate Volume Area I ahoratory                 | Asboinio<br>Air, Air<br>Bulk<br>Alice<br>Wice              |
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| AR01- A 12/1/15                           | •  |  |
|   |  |  |
| AROI-C                                    |  |  |
| ,   |  | >  |
| AKUZ: A                                   |  | \ \frac{1}{2}  |
| AR01-B                                    |  |  |
| AROZ-C                                    |  |  |
| AR03-A                                    |  |  |
| AR03-B                                    |  |  |
| AR03.C                                    |  |  |
| Акоч-А                                    |  |  |
| ARO4-13                                   |  |  |
| ARON. C                                   |  | -  |
| AROS-A 12/3/15                            |  |  |

STAT Analysis Corporation
2255 W. Harrison, Suite B., Chicago, Illinois 60612 Phone: (312) 733-0551 Fax: (312) 733-2386
e-mail address: STATinfo@STATAnalysis.com AIHA accredited 10248 NVLAP accredited 101202-0
CHAIN OF CUSTODY RECORD

| CHAIN C  | , and an | Consequence 10%                         | HAIN OF                | CHAIN OF CUSTODY RECORD | ECOR             |         | Page:        | 7        | of      | Z        |            | <del>.</del>     | 24           | SORE | LABORATORY | 70           |
|--|--|---|------------------------|-------------------------|------------------|---------|--------------|----------|---------|----------|------------|------------------|--------------|------|------------|--------------|
| Client: Amereco Inc.                                   |  | Turn Around: Immediate:                 | l: Immediate:          | 4 Hrs:                  | 8 Hrs.           | 12 Hrs: |              | I-Dav:   | 4       | 48 Hre   | $\vdash$   | 7, 27            |              | 15   |            | 7            |
| Street Address: 204 E. Jefferson St                    |  | Date Due:                               |                        | Time Due:               |                  |         |              |          | !<br>]  |          | 7 .        | 7                |              | 1    |            | 7            |
| City, State, Zip: Valparaiso, IN 46383                 |  | OFFIC                                   | OFFICE USE ONLY BELOW: | Y BELOW:                | Relinquished by: | ished b | 13           | 7        | T.      | -        | )ate/T     | Date/Time: 12/11 | 21/11/       | ١.   | 14:0       | ·            |
|  |  | Batch No.:                              | 661                    | 701                     | Received by:     | d by:   |              |          |         | -        | Jate/T     | Date/Time [7     |              | 1    | 14/5       | ر با         |
| Fax: 219-464-0464                                      |  |   | 1                      | アト                      | Relinquished by: | ished b |              |          |         | -        | Date/Time: |                  | 1            |      | اد         |              |
| e-mail/Alt Fax: labresults@amerecoeng.com              | .com   | Samples Acceptable: Yes:                | table: Yes:            | No.                     | Received by:     | d by:   |              | <b>}</b> |         |          | Date/Time  |                  |              |      |            |              |
| Project Name: Same as pa                               |  | Checked by (Initial/Date):              | itial/Date):           | ]                       | Relinquished by: | shed b  |              |          |         |          | Date/Time  | E                |              |      |            | _            |
| Project Number:  |  | QC by (Initial/Date):                   | Date):                 |                         | Received by:     | d by:   |              |          |         |          | Date/Time  |                  |              |      |            | _            |
| Project Location:                                      |  | Reported By (Initial/Date/Time/Method): | nitial/Date/Tir        | ne/Method):             | الا)             | -       | _            | _        | L       | <u> </u> | -          |                  | $\vdash$     | -    | L          |              |
| Project Manager.                                       |  |   |                        |                         | ua)              |         |              |          |         |          |            |                  |              |      |            |              |
| P.O. Number:   |  | Comments:                               |                        |                         | soiss            |         |              | ORVO     | 15      |          |            |                  |              |      |            |              |
| Client Sample Number/Description: Date Taken HA # - 1D | Time   | Rate Volume                             | Volume Area            | Laboratory              | CM Asb           | LM Poir | EM Bull      | eM Mic   | JIRW ME | her:     |            |                  |              |      |            |              |
| l l  | <del> </del>                                 |   | wiped (11)             | compression.            | d                |         |              | Т        |         | 0        | -          |                  |              |      |            | <del>-</del> |
|  |  |   |                        |                         |                  |         | -            |          |         | -        | -          |                  | -            | -    |            | . ,          |
|  |  |   |                        |                         |                  |         | +-           |          |         | -        | ╀-         |                  | +            | -    |            |              |
|  |  |   |                        |                         |                  |         | <del> </del> |          |         | +-       |            |                  | +-           |      |            |              |
|  |  |   |                        |                         |                  |         | -            |          |         | +-       |            |                  | +            |      |            |              |
|  |  |   |                        |                         |                  | -       |              |          |         | -        |            | -                | +-           |      |            |              |
|  |  |   |                        |                         |                  | -       | -            |          |         | -        |            | +                | -            |      |            |              |
|  |  |   |                        |                         |                  |         | -            |          | 1       | -        |            | -                |              |      |            |              |
|  |  |   |                        |                         |                  |         | -            |          |         | -        |            | -                | -            |      |            |              |
|  |  |   |                        |                         |                  |         | -            |          |         | +        |            | -                | -            |      |            |              |
|  |  |   |                        |                         |                  |         |              |          |         | -        |            |                  | -            |      |            |              |
|  |  |   |                        |                         |                  |         |              |          |         | -        |            | -                | <del> </del> |      | T          |              |
|  |  |   |                        |                         |                  |         |              |          |         | <u> </u> |            | -                | <u> </u>     |      | Τ          |              |



2242 West Harrison St., Suite 200, Chicago, 1L 60612-3766 Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo(a STATAnalysis.com



NVLAP Lab Code 101202-0

#### ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA-600/M4-82-020

Amereco Inc 204 E Jefferson St. Valparaiso, IN 46383 Phone: (219) 531-0531 Fax: (219) 464 0464

Reference:

PO#121115.4/15.13002.1

Date Received: 12/11/2015

Location:

Breezeway Roof South Bend, IN

Date Analyzed: 12/17/2015

Batch No.:

322200

Date Reported: 12/17/2015

Customer No.:

118

Turn Around Time: 5 Days

| Laboratory | Customer Sample | Asbestos Components | Non-Asbestos Components           |
|------------|-----------------|---------------------|-----------------------------------|
| Sample     | Number          | (%)                 | (%)                               |
| 322200001  | BR01-A          | ND                  | Cellulose 80-85%<br>Binder 15-20% |
| 322200002  | BR01-B          | ND                  | Cellulose 80-85%<br>Binder 15-20% |
| 322200003  | BR01-C          | ND                  | Cellulose 80-85%<br>Binder 15-20% |
| 322200004  | BR02-A          | ND                  | Cellulose 95-99%<br>Binder 1-5%   |
| 322200005  | BR02-B          | ND                  | Cellulose 95-99%<br>Binder 1-5%   |
| 322200006  | BR02-C          | ND                  | Cellulose 95-99%<br>Binder 1-5%   |

ND = Asbestos Not Detected (Not Present)

NA = Not Analyzed

NS = Not Submitted

Components of inhomogeneous samples are analyzed per our Standard Operating Procedure, or per customer request.

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Analyzed by Name

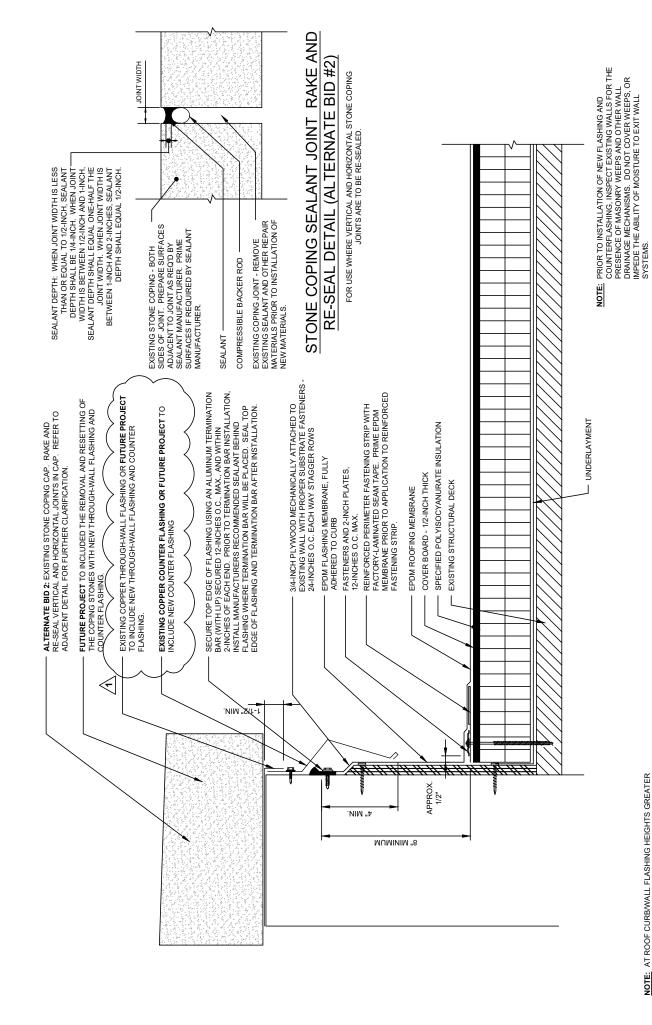
Page 1 of 1

Date: 12/17/2015

SIAN Analysis Cordoration
2255 W. Harrison, Suite B, Chicago, Illinois 60612 Phone: (312) 733-0551 Fax: (312) 733-2386
e-mail address: STATinfo@STATAnalysis.com AIHA accredited 10248 NVLAP accredited 101202-9
CHAIN OF CUSTODY RECORD Page:

| 2255 W. Harrison, Suite B. Chicago, Illinois 60612         | 7   | Per production (J(V)) MM                 |
|--|---|--|
| e-mun aaaress: 51A1mJo@51A1Analysis.com AIHA               | HA accredited 10248 NVLAP accredited 101202-9 CHAIN OF CUSTODY RECORD | ECORD Page: / of                         |
| Client: Amereco Inc.                                       | Turn Around: Immediate: 4 Hrs: 8                                      | 8 Hrs: 12 Hrs: 1-Day: 48 Hrs. 77 H-F.    |
| Street Address: 204 E. Jefferson St                        | Date Due: Time Due:   |  |
| City, State, Zip: Valparaiso, IN 46383                     | OFFICE USE ONLY BELOW:  | Relinquished by: Sun July 3.11           |
| Phone: 219-531-0531  | Batch No  | Constitution (2)                         |
| Fax: 219-464-0464  | ことと   | hu.                                      |
| e-mail/Alt Fax: labresults@amerecoeng.com                  | Samples Acceptable: Yes; No:  | Received by:                             |
| Project Name: Brezeway Roof                                | Checked by (Initial/Date): 12   12   15                               | hv.                                      |
|  | QC by (Initial/Date):   | Received by:                             |
| Project Location: South Bend IN                            | Reported By (Initial/Date/Time/Method):                               | qs                                       |
| Project Manager: 2. He.ne                                  | <b>S</b>  | tos<br>sotes<br>sotes                    |
| P.O. Number: 121115. ul                                    | Comments:   | t Cor<br>t Cor<br>Asbes<br>Asb<br>imeti  |
| Lime   | Rate Volume Area I shoratori  | Asbein Air Air Aich                      |
| Citent Sample Number/Description: Date Taken HA # - ID Off | (lpm) (Liters) Wined (ft <sup>2</sup> )                               | ipet: EM / EW / EW / FW / FW / FW / FW / |
| BRO1. A 17/31/5  |   | L<br>L<br>L<br>L                         |
| BROI-B   |   |  |
| BRo1-C   |   |  |
| B202- A  |   |  |
| 8202 · R   |   |  |
| B Roz-C  |   |  |
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Consideration of the constant THAT TO WORK HOSE AND SHAPES AT STATE OF THE MORE MORE THAT AND STATES AND AND SHAPES AND STATES AND SHAPES AN 4 Comments



THAN 24-INCHES: PROVIDE INTERMEDIATE
SECUREMENT PER THE REQUIREMENTS AND
RECOMMENDATIONS OF THE EPDM ROOFING
MEMBRANE MANUFACTURER.

FOLLOWING THE RECOMMENDATIONS AND REQUIREMENTS OF THE ROOFING MEMBRANNE MANUFACTURER. PROVIDE "T\_OINT COVERS" AT THE BASE OF THE CURB AT FLASHING PIECE INTERSECTIONS.

INSTALL INSIDE AND OUTSIDE FLASHING CORNERS

NOTE

PARAPET WALL FLASHING

SCALE: NO SCALE

