



May 9, 2023

Mr. Garrett Foley
Regional Construction Manager
The Kroger Co.
40393 Grand River Avenue
Novi, Michigan 48375

**RE: Asbestos Survey Report
Kroger Store D-409 Renovation
12731 South Saginaw
Grand Blanc, Michigan
Project No. 193-485.0003**

Dear Mr. Foley:

Civil & Environmental Consultants, Inc. (CEC) was retained by The Kroger Co. (Kroger) to conduct an asbestos-containing material (ACM) survey at Kroger Store D-409 Renovation in Grand Blanc, Michigan (subject property). The survey was conducted in accordance with CEC Proposal No. 193-485.0003, and authorized via Kroger Purchase Order No. 833992, dated March 3, 2023. CEC understands that this asbestos survey was requested due to planned renovation of the subject property structure.

CEC's subcontractor, Micro Air Inc. (Micro Air), conducted the survey on April 11, 2023. The survey was conducted in general accordance with The Kroger Co., Asbestos-Containing Materials Scope of Work and Report Requirements (dated January 2022), the USEPA Asbestos National Emissions Standard for Hazardous Air Pollutants (NESHAP; 40 CFR Part 61, Subpart M) and the sample collection protocols established in EPA regulation 40 CFR 763, the Asbestos Hazard Emergency Response Act (AHERA). The Micro Air report is attached and must be read in its entirety for a comprehensive understanding of the findings of the survey and recommendations.

PROJECT INFORMATION

The building was constructed in 1980, the store and loading dock were expanded in 2015-2016, and encompasses approximately 90,976 square-feet under roof. The building was constructed on a concrete slab foundation supporting concrete block and brick exterior walls, with metal roof joists and a corrugated metal roof deck. Interior finishes consists of wallboard and concrete block walls. Ceilings were suspended acoustical ceiling tiles or exposed roof joists. Floors were carpet, vinyl or ceramic tile, or concrete. The roofing system consisted of a ballasted rubber membrane over isocyanate panels and associated sealants.

The subject property consisted of Kroger Store D-409 and asphalt parking lot. The Kroger Store consisted of a grocery sales area, department preparation areas, pharmacy, office area, and a warehouse. Mezzanine areas consist of a mechanical area.

FIELD ACTIVITIES

CEC's subcontractor, Micro Air Inc. (Micro Air), utilizing a Michigan-licensed asbestos inspector, conducted the survey. The survey was limited to accessible areas and destructive sampling (e.g., breaking into wall voids) was not conducted.

Survey activities began with a visual inspection of interior and exterior (including roofs) areas of the subject property to identify homogeneous areas of suspect asbestos-containing materials (ACM). A homogeneous area (HA) consists of building materials that appear similar throughout in terms of color, texture and consideration of date of installation or application.

Based on the findings of the visual inspection, bulk samples of suspect ACM were collected in general accordance with AHERA sample collection protocols. Bulk samples were collected of the following suspect materials: 12" x 12" vinyl floor tile and mastic (two patterns), 2' x 4' drop acoustic ceiling tile (two patterns), carpet tile mastic, poured flooring, vinyl base molding and adhesive, woodgrain pattern sheet flooring and adhesive, plastic wall adhesive, ceramic wall tile grout, seam sealant on HVAC ductwork, gasket material on cooler/freezer walls, brick mortar, brick expansion joint, concrete block mortar, concrete block expansion joint, poured concrete slab, drywall and joint compound, window/door frame caulk, window glazing, exterior finishing system, stainless steel sink insulation, seam sealant on rubber membrane roof, asphalt sealant on roof penetrations, and roofing felts under rubber membrane roof.

Bulk samples were submitted under chain of custody to a laboratory accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for analysis by polarized light microscopy (PLM) with dispersion staining techniques per EPA's Method for the Determination of Asbestos in Bulk Building Materials (600/R-93-116).

PREVIOUS SURVEYS

Kroger provided a prior asbestos survey report for the building titled *Asbestos Survey Report, Kroger Store D-409 Proposed Expansion, 12731 South Saginaw Road, Grand Blanc, Michigan*, dated November 8, 2013, and prepared by Amec Environment & Infrastructure, Inc (Amec). The report summarized a survey conducted in October 2013 of the Kroger Store D-409 and seven adjacent tenant suites (Suites 801 through 807). A total of 77 bulk samples were collected from the Kroger store and submitted for analysis. Asbestos was not identified in the submitted samples. Information presented in the prior report is incorporated into this survey where appropriate. A copy of the Amec report is attached.

REGULATORY OVERVIEW

The State of Michigan Department of Environmental Quality (MDEQ), Air Division enforces the USEPA Asbestos National Emission Standards for Hazardous Air Pollutants (NESHAP, 40 CFR Part 61, Subpart M). The Asbestos NESHAP regulates asbestos fiber emissions, asbestos waste disposal practices, and requires the identification and classification according to friability of existing ACM prior to demolition or renovation activity.

Asbestos abatement notifications for all demolition and renovation activities involving the removal or disturbance of RACM and non-friable ACMs should be submitted to the Michigan Department of Environmental Quality (MDEQ) and LARA at least 10-working days prior to the commencement of project activities. If remodeling/renovation efforts include repair, removal or replacement of “load bearing” structural members, this is considered demolition and a 10-day notification to the local municipal agency may be required.

FINDINGS

One hundred and four bulk samples of suspect ACMs were collected during the inspection and submitted to an accredited laboratory for analysis by PLM. Asbestos was not identified in the samples collected and analyzed.

RECOMMENDATIONS

Based on the results of this asbestos survey, CEC does not recommend additional inspection or assessment activities for the subject property building. However, suspect materials, other than those identified during this asbestos survey may exist within the building. Should suspect materials other than those which were identified during this survey be uncovered during demolition/renovation, those materials should be assumed asbestos-containing until sampling and analysis can confirm or deny asbestos content.

GENERAL COMMENTS

This report has been prepared for the exclusive use and reliance of The Kroger Co. and its subsidiaries and affiliates and its authorized representatives (Users), who may solely rely upon the conclusions presented herein. Reliance on this Asbestos Survey by the Users and all authorized parties will be subject to the terms, conditions and limitations stated in the Professional Services and Consulting Agreement (PSCA) signed by Civil & Environmental Consultants, Inc. and the Kroger Co. General Offices (G.O.) on June 20, 2019. The use or reliance by a third party is not permitted without the specific written permission of both the CEC and Kroger. ***This report is not a bidding document.*** Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. CEC does not warrant the work of regulatory agencies, laboratories or other third parties supplying information which may have been used in the preparation of this report. No warranty, express or implied is made.

CEC appreciates the opportunity to serve The Kroger Co. on this project. Please call us if we can be of any further assistance.

Sincerely,

Civil & Environmental Consultants, Inc.



Bryan N. Gatlin

Senior Environmental Scientist



Deborah J. Blankenship, RG, PG, CPG

Principal

Attachment

Micro Air Renovation Asbestos Survey Report, dated May 5, 2023

Amec Asbestos Survey Report, dated November 8, 2013

cc: Cliff Brown, The Kroger Co.
Marty Cristo, The Kroger Co.
Peg Chandler, The Kroger Co.
Stephanie Barlow, The Kroger Co.
Brett Smollen, The Kroger Co.

ATTACHMENTS

2023

NESHAP Renovation Asbestos Survey Report

For

**Existing Kroger Store D-409
12731 South Saginaw Street
Grand Blanc, Michigan 48439**

Prepared For:

Civil & Environmental Consultants, Inc.

3000 Little Hills Expressway, Suite 102

St. Charles, MO 63301

Attn: Ms. Deborah J. Blankenship, P.G., R.G., Principal

Prepared By:



Micro Air, Inc.

6320 La Pas Trail

Indianapolis, Indiana 46268

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TAB 1

ASBESTOS SURVEY REPORT



6320 LA PAS TRAIL, INDIANAPOLIS, INDIANA 46268
TELEPHONE: (317) 293-1533 FAX: (317) 290-3566

E-MAIL: microair@microair.com
WEB SITE: <http://www.microair.com>

Indoor Air Quality
Catastrophe Services
Microbiology
Asbestos Surveys
Air Monitoring
Industrial Hygiene
Epidemiology
Radon Testing
Water Testing
Lead Testing

May 5th, 2023

Ms. Deborah J. Blankenship, P.G
Principal
Civil & Environmental Consultants, Inc.
3000 Little Hills Expressway; Suite 102
Saint Charles, MO 63301

**RE: Renovation Asbestos Inspection
Existing Kroger Store D-409
12731 South Saginaw Street
Grand Blanc, Michigan 48439
Micro Air, Inc. Job #20-19107-D**

Dear Ms. Blankenship:

Micro Air, Inc. was contracted by Civil & Environmental Consultants, Inc. to conduct an asbestos inspection of the Kroger Store D-409 located at 12731 South Saginaw Street in Grand Blanc, Michigan. Mr. Donald G. French of Micro Air, Inc. (State of Michigan asbestos inspector accreditation number A11834, Exp. Date: 02/18/2024) conducted the inspection on April 11th, 2023. The survey was conducted in order to accommodate renovation of the existing Kroger Store at the site.

All survey work was conducted following guidelines established under the EPA National Emission Standard for Asbestos (40 CFR 61 Subpart M) and the EPA "Asbestos Hazard Emergency Response Act (AHERA)" (40 CFR 763 subpart E). **Sampling of the roofing system was conducted during the course of the survey per the request of Civil & Environmental Consultants, Inc.**

All bulk samples collected during the inspection were submitted to Micro Air, Inc.'s laboratory located at 6320 La Pas Trail in Indianapolis, Indiana for analysis. All bulk samples were analyzed utilizing the EPA approved Polarized Light Microscopy method (EPA Method/600/R-93/116). Following is a synopsis of the findings of the survey:

**Existing Kroger Store D-409
12731 South Saginaw Street
Grand Blanc, Michigan 48439**

According to the Grand Blanc City Assessors Office the building was constructed in 1980 and remodeled in 2016. The retail space contains approximately 90,976 square feet of floor space. The retail space is constructed of concrete block and brick with exterior finishing system fascia, aluminum door and window system, concrete block walls and structural steel supporting a corrugated metal roof deck. A ballasted rubber membrane roofing system was identified at the site.

Interior finishes consist of drywall interior walls, drop acoustical tile ceilings and carpet, sheet flooring, vinyl floor tile and ceramic tile applied over poured concrete floors. A mechanical room was identified on the mezzanine level of the warehouse. The administrative offices, ECR room, lunch and locker rooms, pharmacy, bakery and deli area and click-list space were all identified on the ground level of the store.

Domestic water and refrigerant lines throughout the building are insulated with either non-suspect armaflex or fiberglass insulation. Non-suspect wood was identified at the interior cooler walls throughout the building. The building is heated by rooftop gas units with supplemental electric cooling.

The following potential, asbestos-containing materials were identified at the retail space and sampled for asbestos content during the inspection:

1. 12" x 12" vinyl floor tile and mastic (two patterns)
2. 2' x 4' drop acoustical ceiling tile (two patterns)
3. Carpet tile mastic
4. Poured flooring
5. Vinyl base molding and adhesive
6. Woodgrain pattern sheet flooring and adhesive
7. Plastic wall adhesive
8. Ceramic wall tile grout
9. Seam sealant on HVAC ductwork
10. Gasket material on cooler/freezer walls
11. Brick mortar
12. Brick expansion joint
13. Concrete block mortar
14. Concrete block expansion joint
15. Poured concrete slab
16. Perimeter drywall and associated joint compound
17. Interior drywall and associated joint compound
18. Window/door frame caulk
19. Window glazing
20. Exterior finishing system
21. Stainless steel sink insulation

- 22. Seam sealant on rubber membrane roof
- 23. Asphalt sealant on roof penetrations
- 24. Roofing felts under rubber membrane roof

The results of laboratory analysis indicated no asbestos-containing materials present within the Kroger Store D-409 located at 12731 South Saginaw Street in Grand Blanc, Michigan.

Enclosed is a copy of the laboratory bulk sample reports/chain of custody logs, bulk sample location drawings, photographs of materials sampled and inspector/laboratory certifications.

Thank you for the opportunity to provide our asbestos related services. If you have any questions concerning this report or need additional information, please do not hesitate to contact me.

Respectfully submitted,



Donald G. French
Asbestos Inspector
Micro Air, Inc.

TAB 2

PHOTOGRAPHS



Existing Kroger Store D-409
12731 South Saginaw Street
Grand Blanc, Michigan 48439
Exterior Photo



Existing Kroger Store D-409

12731 South Saginaw Street

Grand Blanc, Michigan 48439

12" x 12" Tan and Cream Scale Pattern Floor Tiles and Mastics

Store Floor

No Asbestos Detected



Existing Kroger Store D-409

12731 South Saginaw Street

Grand Blanc, Michigan 48439

2' x 4' Birdtrack Pattern Ceiling Tile

North Side of Store, Pharmacy, Office Areas

No Asbestos Detected



Existing Kroger Store D-409

12731 South Saginaw Street

Grand Blanc, Michigan 48439

2' x 4' Drywall Pattern Ceiling Tile

Food Prep Areas and Recycling

No Asbestos Detected



Existing Kroger Store D-409
12731 South Saginaw Street
Grand Blanc, Michigan 48439

Carpet Tile Mastic

Office, Pharmacy, Customer Service Areas, and Vestibules

No Asbestos Detected



Existing Kroger Store D-409
12731 South Saginaw Street
Grand Blanc, Michigan 48439

Poured Flooring

Food Prep Areas, Dairy Cooler, and Recycling

No Asbestos Detected



Existing Kroger Store D-409

12731 South Saginaw Street

Grand Blanc, Michigan 48439

Brown Vinyl Base Molding and Adhesive

Store Floor, Lunch Room, and Office Areas

No Asbestos Detected



Existing Kroger Store D-409

12731 South Saginaw Street

Grand Blanc, Michigan 48439

Woodgrain Linoleum Flooring and Adhesive

Vestibules, Break and locker Rooms, Produce, and Wine Area

No Asbestos Detected



Existing Kroger Store D-409

12731 South Saginaw Street

Grand Blanc, Michigan 48439

Adhesive on Plastic Wall Covering

Lower Walls of Vestibules, Office Mezzanine, and Store Floor

No Asbestos Detected



Existing Kroger Store D-409
12731 South Saginaw Street
Grand Blanc, Michigan 48439

Ceramic Wall Tile Grout

Restrooms and Food Prep Areas

No Asbestos Detected



Existing Kroger Store D-409

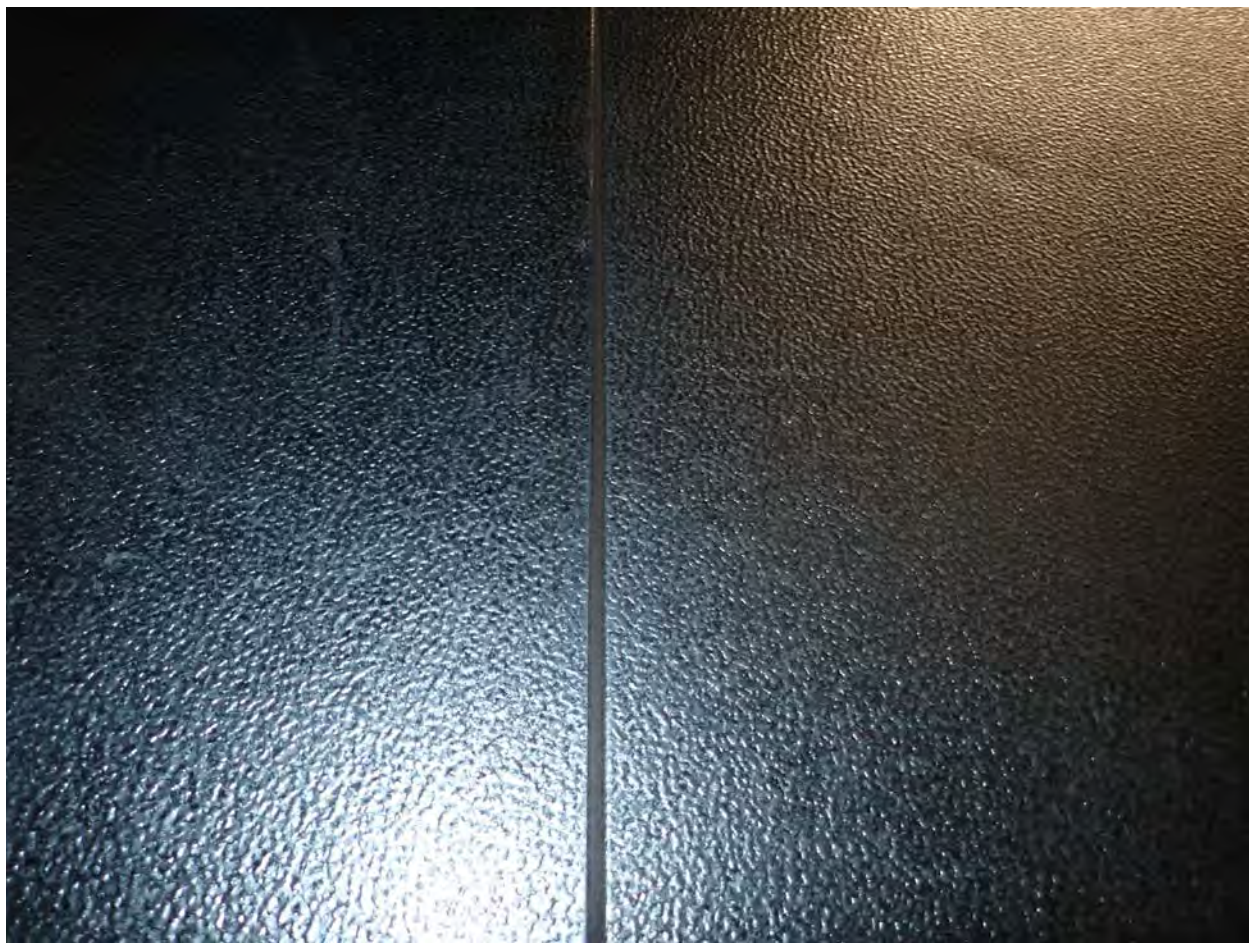
12731 South Saginaw Street

Grand Blanc, Michigan 48439

Seam Sealant on HVAC Ductwork

Warehouse

No Asbestos Detected

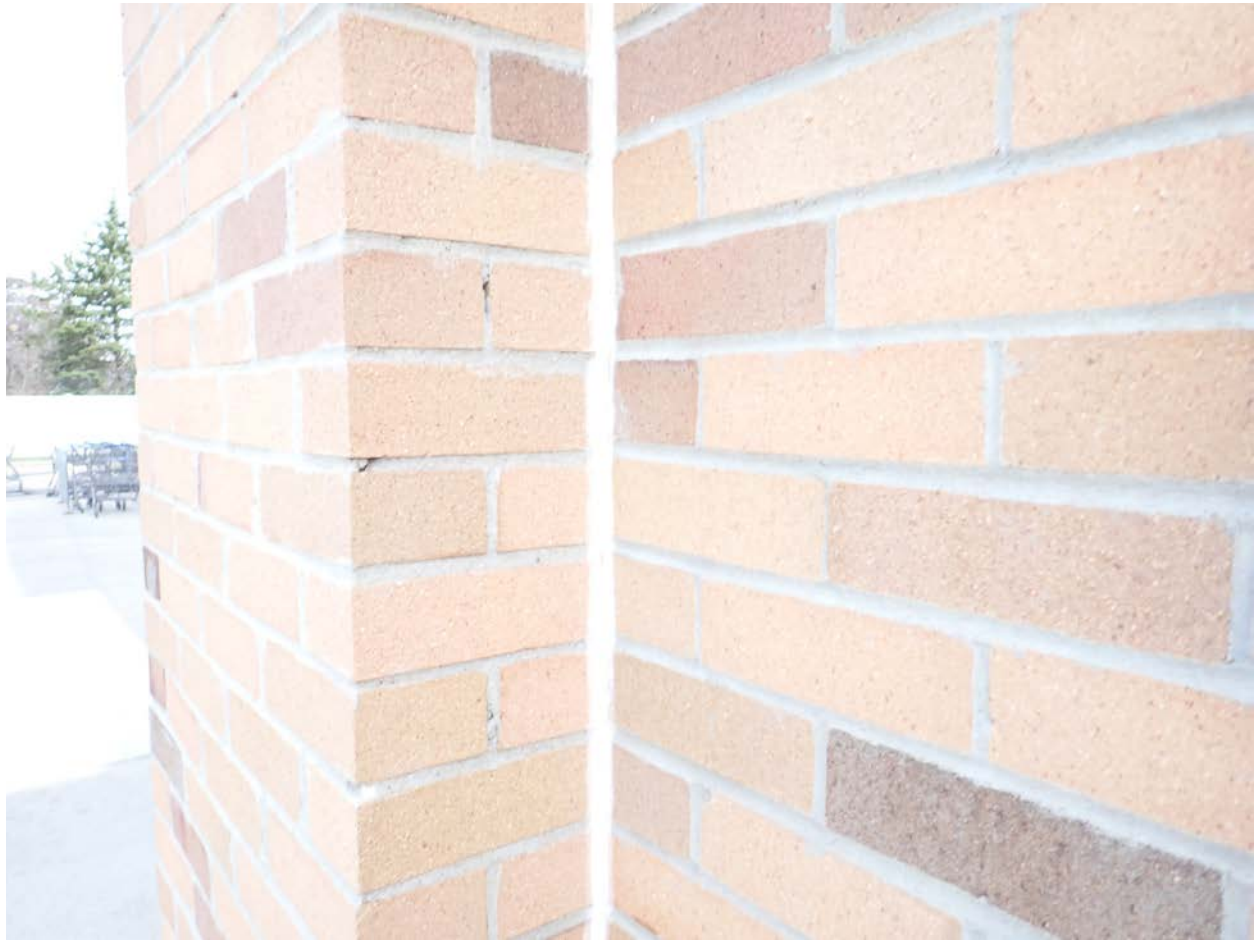


Existing Kroger Store D-409
12731 South Saginaw Street
Grand Blanc, Michigan 48439

Gasket at Cooler Walls

Metal Coolers / Freezers

No Asbestos Detected



Existing Kroger Store D-409

12731 South Saginaw Street

Grand Blanc, Michigan 48439

Brick Mortar and Expansion Joint

Exterior Fascia

No Asbestos Detected



Existing Kroger Store D-409

12731 South Saginaw Street

Grand Blanc, Michigan 48439

Concrete Block Mortar and Expansion Joint

Loading Dock and Warehouse Areas

No Asbestos Detected



Existing Kroger Store D-409
12731 South Saginaw Street
Grand Blanc, Michigan 48439
Bare Concrete Slab Flooring
Warehouse and Loading Dock
No Asbestos Detected



Existing Kroger Store D-409

12731 South Saginaw Street

Grand Blanc, Michigan 48439

Perimeter and Interior Drywall and Associated Joint Compound

Interior and Perimeter Walls

No Asbestos Detected



Existing Kroger Store D-409

12731 South Saginaw Street

Grand Blanc, Michigan 48439

Window/Door Frame Caulk and Glazing

Exterior – South and West Sides

No Asbestos Detected



Existing Kroger Store D-409
12731 South Saginaw Street
Grand Blanc, Michigan 48439

EFS

Exterior South and West Side Upper Walls

No Asbestos Detected



Existing Kroger Store D-409

12731 South Saginaw Street

Grand Blanc, Michigan 48439

Stainless Steel Sink Insulation

Break Room Sink

No Asbestos Detected



Existing Kroger Store D-409

12731 South Saginaw Street

Grand Blanc, Michigan 48439

Seam Sealant on Rubber Membrane Roof

Roof

No Asbestos Detected



Existing Kroger Store D-409

12731 South Saginaw Street

Grand Blanc, Michigan 48439

Asphalt Sealant on Roof Penetrations

Roof

No Asbestos Detected



Existing Kroger Store D-409

12731 South Saginaw Street

Grand Blanc, Michigan 48439

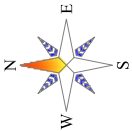
Roofing Felts under Rubber Membrane Roof

Roof

No Asbestos Detected

TAB 3

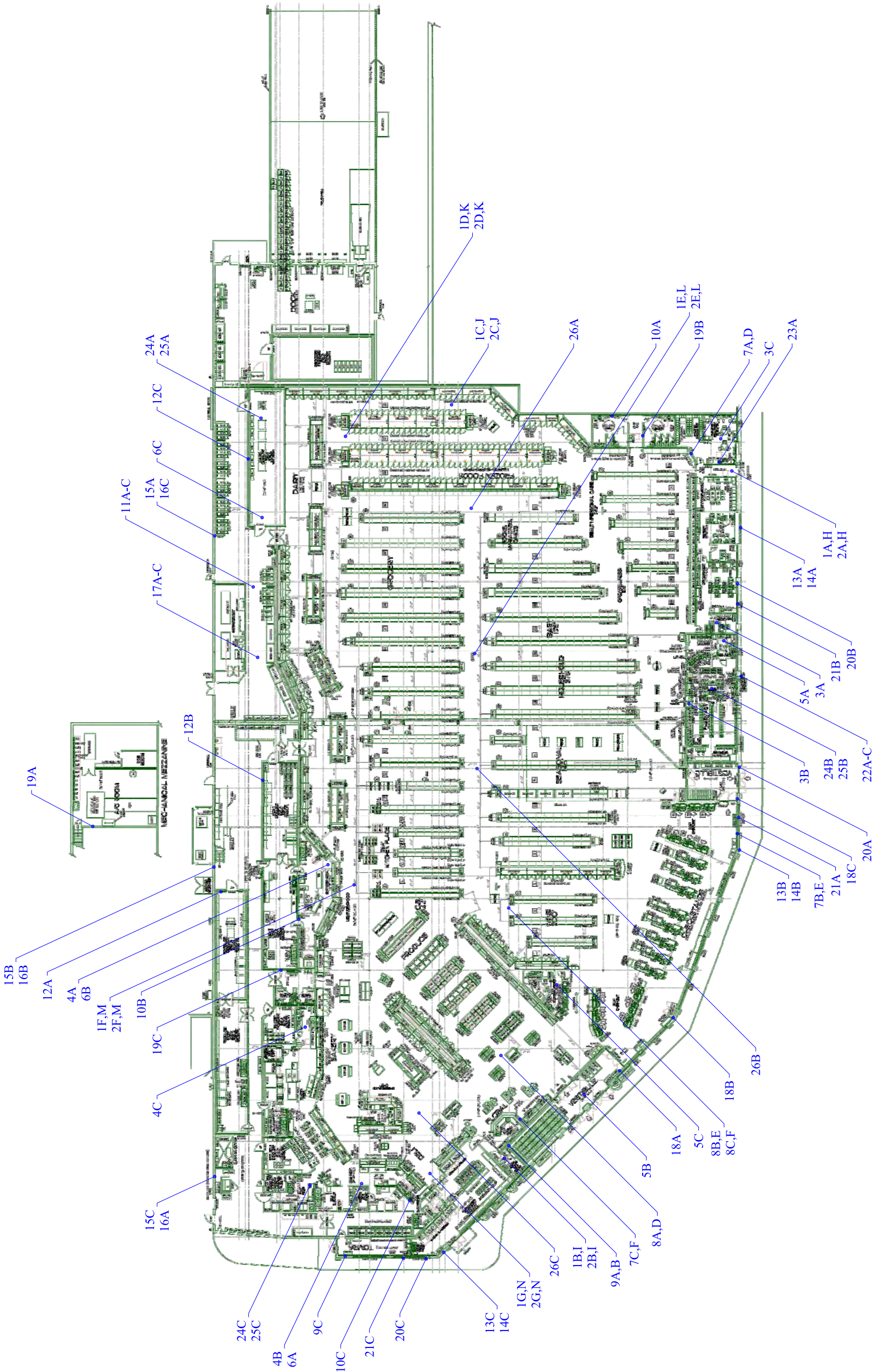
ASBESTOS BULK SAMPLE LOCATION DRAWING



Date:	April 2023
Scale:	None
Project Mgr.:	A.E.B.
Drawn By:	D.G.F.
Checked By:	A.E.B.

Micro Air, Inc.
6320 La Pas Trail
Indianapolis, Indiana 46268
(317) 293-1533

Existing Kroger Store D-409
12731 South Saginaw Street
Grand Blanc, Michigan 48439
Asbestos Bulk Sample Location Drawing
Drawing #: 20-19107-D SLD



TAB 4

ASBESTOS BULK SAMPLE REPORT/CHAIN OF CUSTODY



micro air inc.

6320 La Pas Trail, Indianapolis, IN 46268 * Phone: (317) 293-1533 * lab@microair.com * www.microair.com

April 24, 2023

Civil & Environmental Consultants
Deborah Blankenship
3000 Little Hills Expressway
Suite 102
St. Charles, MO 63301

Polarized Light Microscopy (PLM) Bulk Sample Results

Project Name:	Existing Kroger Store D-409	Location:	12731 S. Saginaw - Grand Blanc, MI
Project Number:	20-19107-D	Date Received:	April 19, 2023

Enclosed please find the results of samples analyzed by the Micro Air, Inc. laboratory.

Samples were analyzed by 40 CFR Part 763 Appendix E to Subpart E - Interim Method for the Determination of Asbestos in Bulk Insulation Samples using Polarized Light Microscopy (PLM) with Dispersion Staining. Where appropriate, analytical procedures outlined in the EPA Method/600/R-93/116, Method for the Determination of Asbestos in Bulk Building Materials (July 1993) may also be used during analysis. All samples may be heated to release fibrous material.

Samples are considered asbestos-containing material (ACM), as defined by the EPA, when asbestos is found in greater than 1% of the sample. Sample percentages are calculated using comparative visual estimation (CVES). Asbestos regulations and EPA methods state that distinct layers must be analyzed and reported separately. If composite analysis is requested and performed on multi-layered samples, the sample is considered ACM if any quantity of asbestos is found. This report should not be used to imply product or service endorsement by NVLAP, NIST, or any agency of the U.S. Government.

Disclaimer: PLM results of non-friable organic bound (NOB) materials, such as floor tiles and roofing materials, can be inconclusive due to analytical difficulties in standard bulk sample analysis techniques. If desired, results can be confirmed with transmission electron microscopy (TEM) to ensure that asbestos has not been missed during PLM analysis.

This report may not be reproduced, except in full, without written approval from Micro Air, Inc. These results only relate to the items tested and are only as accurate as the sampling information submitted by the customer (e.g. air volumes). Samples are received in good condition unless otherwise noted.

Please consult your Project Manager, Donald French, with any questions regarding these results.

Analyzed By:
Makayla Ohrberg

Authorized By:

Betsie L. McAfee
Technical Manager

Client: Civil & Environmental Consultants
 Report Date: 4/24/2023
 Lab Number: 167305

Project Number: 20-19107-D
 Project Name: Existing Kroger Store D-409

Polarized Light Microscopy (PLM) Bulk Sample Results

Location: 12731 S. Saginaw - Grand Blanc, MI

Sample ID	Client Sample ID	Date Collected	Date Analyzed	Sample Description	Asbestos Present?	Color	Homogeneous	Sample Composition	
								Asbestos	Non-Asbestos
001	1A	4/11/2023	4/19/2023	12" x 12" Tan Scale Pattern Floor Tile; Store Floor - SE Hall by Lunch Room	NO	T	YES	N/A	Binder 100%
002	1B	4/11/2023	4/19/2023	12" x 12" Tan Scale Pattern Floor Tile; Store Floor - Floral Storage	NO	T	YES	N/A	Cellulose <1% Binder 100%
003	1C	4/11/2023	4/19/2023	12" x 12" Tan Scale Pattern Floor Tile; Store Floor - East Edge	NO	T	YES	N/A	Cellulose <1% Binder 100%
004	1D	4/11/2023	4/19/2023	12" x 12" Tan Scale Pattern Floor Tile; Store Floor - N. End of Aisle 39	NO	T	YES	N/A	Cellulose <1% Binder 100%
005	1E	4/11/2023	4/19/2023	12" x 12" Tan Scale Pattern Floor Tile; Store Floor - Middle of Aisle 25	NO	T	YES	N/A	Binder 100%
006	1F	4/11/2023	4/19/2023	12" x 12" Tan Scale Pattern Floor Tile; Store Floor - N. Side by Meat & Fish	NO	T	YES	N/A	Binder 100%
007	1G	4/11/2023	4/19/2023	12" x 12" Tan Scale Pattern Floor Tile; Store Floor - W. Side by Sushi	NO	T	YES	N/A	Binder 100%

Client: Civil & Environmental Consultants
 Report Date: 4/24/2023
 Lab Number: 167305

Project Number: 20-19107-D
 Project Name: Existing Kroger Store D-409

Polarized Light Microscopy (PLM) Bulk Sample Results

Location: 12731 S. Saginaw - Grand Blanc, MI

Sample ID	Client Sample ID	Date Collected	Date Analyzed	Sample Description	Asbestos Present?	Color	Homogeneous	Sample Composition	
								Asbestos	Non-Asbestos
008	1H	4/11/2023	4/19/2023	12" x 12" Tan Scale Pattern Floor Tile Mastic; Store Floor - SE Hall by Lunch Room	NO	Y	YES	N/A	Cellulose <1% Binder 100%
009	1I	4/11/2023	4/19/2023	12" x 12" Tan Scale Pattern Floor Tile Mastic; Store Floor - Floral Storage	N/A	N/A	N/A	NOT ANALYZED	QUANTITY NON SUFFICIENT
010	1J	4/11/2023	4/19/2023	12" x 12" Tan Scale Pattern Floor Tile Mastic; Store Floor - East Edge	NO	G	YES	N/A	Cellulose <1% Binder 100%
011	1K	4/11/2023	4/19/2023	12" x 12" Tan Scale Pattern Floor Tile Mastic; Store Floor - N. End of Aisle 39	NO	BR	YES	N/A	Cellulose <1% Binder 100%
012	1L	4/11/2023	4/19/2023	12" x 12" Tan Scale Pattern Floor Tile Mastic; Store Floor - Middle of Aisle 25	N/A	N/A	N/A	NOT ANALYZED	QUANTITY NON SUFFICIENT
013	1M	4/11/2023	4/19/2023	12" x 12" Tan Scale Pattern Floor Tile Mastic; Store Floor - N. Side by Meat & Fish	N/A	N/A	N/A	NOT ANALYZED	QUANTITY NON SUFFICIENT
014	1N	4/11/2023	4/24/2023	12" x 12" Tan Scale Pattern Floor Tile Mastic; Store Floor - W. Side by Sushi	NO	T	YES	N/A	Cellulose <1% Binder 100%

Client: Civil & Environmental Consultants
 Report Date: 4/24/2023
 Lab Number: 167305

Project Number: 20-19107-D
 Project Name: Existing Kroger Store D-409

Polarized Light Microscopy (PLM) Bulk Sample Results

Location: 12731 S. Saginaw - Grand Blanc, MI

Sample ID	Client Sample ID	Date Collected	Date Analyzed	Sample Description	Asbestos Present?	Color	Homogeneous	Sample Composition	
								Asbestos	Non-Asbestos
015	2A	4/11/2023	4/24/2023	12" x 12" Cream Scale Pattern Floor Tile; Store Floor - SE Hall by Lunch Room	NO	T	YES	N/A	Cellulose <1% Binder 100%
016	2B	4/11/2023	4/24/2023	12" x 12" Cream Scale Pattern Floor Tile; Store Floor - Floral Storage	NO	T	YES	N/A	Cellulose <1% Binder 100%
017	2C	4/11/2023	4/24/2023	12" x 12" Cream Scale Pattern Floor Tile; Store Floor - East Edge	NO	T	YES	N/A	Binder 100%
018	2D	4/11/2023	4/24/2023	12" x 12" Cream Scale Pattern Floor Tile; Store Floor - N. End of Aisle 39	NO	T	YES	N/A	Binder 100%
019	2E	4/11/2023	4/24/2023	12" x 12" Cream Scale Pattern Floor Tile; Store Floor - Middle of Aisle 25	NO	T	YES	N/A	Binder 100%
020	2F	4/11/2023	4/24/2023	12" x 12" Cream Scale Pattern Floor Tile; Store Floor - N. Side by Meat & Fish	NO	T	YES	N/A	Binder 100%
021	2G	4/11/2023	4/24/2023	12" x 12" Cream Scale Pattern Floor Tile; Store Floor - W. Side by Sushi	NO	T	YES	N/A	Cellulose <1% Binder 100%

Client: Civil & Environmental Consultants
 Report Date: 4/24/2023
 Lab Number: 167305

Project Number: 20-19107-D
 Project Name: Existing Kroger Store D-409

Polarized Light Microscopy (PLM) Bulk Sample Results

Location: 12731 S. Saginaw - Grand Blanc, MI

Sample ID	Client Sample ID	Date Collected	Date Analyzed	Sample Description	Asbestos Present?	Color	Homogeneous	Sample Composition	
								Asbestos	Non-Asbestos
022	2H	4/11/2023	4/24/2023	12" x 12" Cream Scale Pattern Floor Tile Mastic; Store Floor - SE Hall by Lunch Room	NO	Y	YES	N/A	Binder 100%
023	2I	4/11/2023	4/24/2023	12" x 12" Cream Scale Pattern Floor Tile Mastic; Store Floor - Floral Storage	NO	Y	YES	N/A	Cellulose <1% Binder 100%
024	2J	4/11/2023	4/24/2023	12" x 12" Cream Scale Pattern Floor Tile Mastic; Store Floor - East Edge	NO	BR	YES	N/A	Cellulose <1% Binder 100%
025	2K	4/11/2023	4/24/2023	12" x 12" Cream Scale Pattern Floor Tile Mastic; Store Floor - N. End of Aisle 39	NO	BR	YES	N/A	Cellulose 2% Binder 98%
026	2L	4/11/2023	4/24/2023	12" x 12" Cream Scale Pattern Floor Tile Mastic; Store Floor - Middle of Aisle 25	NO	Y	YES	N/A	Cellulose 2% Binder 98%
027	2M	4/11/2023	4/24/2023	12" x 12" Cream Scale Pattern Floor Tile Mastic; Store Floor - N. Side by Meat & Fish	NO	Y	YES	N/A	Cellulose <1% Binder 100%
028	2N	4/11/2023	4/24/2023	12" x 12" Cream Scale Pattern Floor Tile Mastic; Store Floor - W. Side of Sushi	NO	Y	YES	N/A	Cellulose <1% Binder 100%

Client: Civil & Environmental Consultants
 Report Date: 4/24/2023
 Lab Number: 167305

Project Number: 20-19107-D
 Project Name: Existing Kroger Store D-409

Polarized Light Microscopy (PLM) Bulk Sample Results

Location: 12731 S. Saginaw - Grand Blanc, MI

Sample ID	Client Sample ID	Date Collected	Date Analyzed	Sample Description	Asbestos Present?	Color	Homogeneous	Sample Composition	
								Asbestos	Non-Asbestos
029	3A	4/11/2023	4/24/2023	2' x 4' Birdtrack Pattern Ceiling Tile; Manager's Office	NO	T - W	YES	N/A	Cellulose 92% Fiberglass 3% Binder 5%
030	3B	4/11/2023	4/24/2023	2' x 4' Birdtrack Pattern Ceiling Tile; Pharmacy	NO	T - W	YES	N/A	Cellulose 90% Fiberglass 3% Binder 7%
031	3C	4/11/2023	4/24/2023	2' x 4' Birdtrack Pattern Ceiling Tile; Lunch Room	NO	T - W	YES	N/A	Cellulose 92% Fiberglass 3% Binder 5%
032	4A	4/11/2023	4/24/2023	2' x 4' Drywall Pattern Ceiling Tile; Meat & Fish	NO	W	YES	N/A	Cellulose <1% Fiberglass <1% Binder 100%
033	4B	4/11/2023	4/24/2023	2' x 4' Drywall Pattern Ceiling Tile; Deli	NO	W	YES	N/A	Cellulose <1% Fiberglass <1% Binder 100%
034	4C	4/11/2023	4/24/2023	2' x 4' Drywall Pattern Ceiling Tile; Bakery	NO	W	YES	N/A	Cellulose <1% Fiberglass <1% Binder 100%
035	5A	4/11/2023	4/24/2023	Carpet Tile Mastic; Pharmacy Office	NO	G - T - GR	YES	N/A	Cellulose <1% Binder 100%

Client: Civil & Environmental Consultants
Report Date: 4/24/2023
Lab Number: 167305

Project Number: 20-19107-D
Project Name: Existing Kroger Store D-409

Polarized Light Microscopy (PLM) Bulk Sample Results

Location: 12731 S. Saginaw - Grand Blanc, MI

Sample ID	Client Sample ID	Date Collected	Date Analyzed	Sample Description	Asbestos Present?	Color	Homogeneous	Sample Composition	
								Asbestos	Non-Asbestos
036	5B	4/11/2023	4/24/2023	Carpet Tile Mastic; West Vestibule	NO	G - T	YES	N/A	Cellulose <1% Binder 100%
037	5C	4/11/2023	4/24/2023	Carpet Tile Mastic; Customer Services	NO	GR - G	YES	N/A	Cellulose <1% Binder 100%
038	6A	4/11/2023	4/24/2023	Poured Flooring; Deli	NO	BR	YES	N/A	Binder 100%
039	6B	4/11/2023	4/24/2023	Poured Flooring; Meat & Seafood	NO	BR	YES	N/A	Binder 100%
040	6C	4/11/2023	4/24/2023	Poured Flooring; Dairy Cooler	NO	G	YES	N/A	Binder 100%
041	7A	4/11/2023	4/24/2023	4" Brown Base Molding; Lunch Room	NO	BR	YES	N/A	Binder 100%
042	7B	4/11/2023	4/24/2023	4" Brown Base Molding; Store Floor by Check Lanes	NO	BR	YES	N/A	Binder 100%

Client: Civil & Environmental Consultants
 Report Date: 4/24/2023
 Lab Number: 167305

Project Number: 20-19107-D
 Project Name: Existing Kroger Store D-409

Polarized Light Microscopy (PLM) Bulk Sample Results

Location: 12731 S. Saginaw - Grand Blanc, MI

Sample ID	Client Sample ID	Date Collected	Date Analyzed	Sample Description	Asbestos Present?	Color	Homogeneous	Sample Composition	
								Asbestos	Non-Asbestos
043	7C	4/11/2023	4/24/2023	4" Brown Base Molding; Floral	NO	B	YES	N/A	Binder 100%
044	7D	4/11/2023	4/24/2023	4" Brown Base Molding Mastic; Lunch Room	NO	T	YES	N/A	Cellulose 2% Binder 98%
045	7E	4/11/2023	4/24/2023	4" Brown Base Molding Mastic; Store Floor by Check Lanes	NO	T	YES	N/A	Cellulose 2% Binder 98%
046	7F	4/11/2023	4/24/2023	4" Brown Base Molding Mastic; Floral	NO	T	YES	N/A	Cellulose 2% Binder 98%
047	8A	4/11/2023	4/24/2023	Woodgrain Linoleum Flooring; Produce	NO	BR - B	NO	N/A	Cellulose <1% Binder 100%
048	8B	4/11/2023	4/24/2023	Woodgrain Linoleum Flooring; N. Side of Wine	NO	BR - B	NO	N/A	Cellulose <1% Binder 100%
049	8C	4/11/2023	4/24/2023	Woodgrain Linoleum Flooring; N. Side of Wine	NO	BR - B	NO	N/A	Cellulose <1% Binder 100%

Client: Civil & Environmental Consultants
 Report Date: 4/24/2023
 Lab Number: 167305

Project Number: 20-19107-D
 Project Name: Existing Kroger Store D-409

Polarized Light Microscopy (PLM) Bulk Sample Results

Location: 12731 S. Saginaw - Grand Blanc, MI

Sample ID	Client Sample ID	Date Collected	Date Analyzed	Sample Description	Asbestos Present?	Color	Homogeneous	Sample Composition	
								Asbestos	Non-Asbestos
050	8D	4/11/2023	4/24/2023	Woodgrain Linoleum Flooring Mastic; Produce	NO	Y	YES	N/A	Cellulose <1% Binder 100%
051	8E	4/11/2023	4/24/2023	Woodgrain Linoleum Flooring Mastic; N. Side of Wine	N/A	N/A	N/A	NOT ANALYZED	QUANTITY NON SUFFICIENT
052	8F	4/11/2023	4/24/2023	Woodgrain Linoleum Flooring Mastic; N. Side of Wine	NO	W	YES	N/A	Cellulose <1% Binder 100%
053	9A	4/11/2023	4/24/2023	Plastic Wall Panel Adhesive; W. Vestibule	NO	Y	YES	N/A	Cellulose <1% Binder 100%
054	9B	4/11/2023	4/24/2023	Plastic Wall Panel Adhesive; W. Vestibule	NO	Y	YES	N/A	Cellulose <1% Binder 100%
055	9C	4/11/2023	4/24/2023	Plastic Wall Panel Adhesive; Recycling Center	NO	Y	YES	N/A	Cellulose <1% Binder 100%
056	10A	4/11/2023	4/24/2023	Ceramic Tile Grout; East Restroom	NO	T	YES	N/A	Binder 100%

Client: Civil & Environmental Consultants
 Report Date: 4/24/2023
 Lab Number: 167305

Project Number: 20-19107-D
 Project Name: Existing Kroger Store D-409

Polarized Light Microscopy (PLM) Bulk Sample Results

Location: 12731 S. Saginaw - Grand Blanc, MI

Sample ID	Client Sample ID	Date Collected	Date Analyzed	Sample Description	Asbestos Present?	Color	Homogeneous	Sample Composition	
								Asbestos	Non-Asbestos
057	10B	4/11/2023	4/24/2023	Ceramic Tile Grout; Meat Prep	NO	T	YES	N/A	Cellulose <1% Binder 100%
058	10C	4/11/2023	4/24/2023	Ceramic Tile Grout; Deli Prep	NO	T	YES	N/A	Binder 100%
059	11A	4/11/2023	4/24/2023	HVAC Duct Seam Caulk; Warehouse by E. Entry	NO	G	YES	N/A	Cellulose <1% Binder 100%
060	11B	4/11/2023	4/24/2023	HVAC Duct Seam Caulk; Warehouse by E. Entry	NO	G	YES	N/A	Binder 100%
061	11C	4/11/2023	4/24/2023	HVAC Duct Seam Caulk; Warehouse by E. Entry	NO	G	YES	N/A	Binder 100%
062	12A	4/11/2023	4/24/2023	Cooler/Freezer Panel Gasket; Produce Cooler	NO	G	YES	N/A	Cellulose <1% Binder 100%
063	12B	4/11/2023	4/24/2023	Cooler/Freezer Panel Gasket; Meat Freezer	NO	G	YES	N/A	Cellulose <1% Binder 100%

Client: Civil & Environmental Consultants
 Report Date: 4/24/2023
 Lab Number: 167305

Project Number: 20-19107-D
 Project Name: Existing Kroger Store D-409

Polarized Light Microscopy (PLM) Bulk Sample Results

Location: 12731 S. Saginaw - Grand Blanc, MI

Sample ID	Client Sample ID	Date Collected	Date Analyzed	Sample Description	Asbestos Present?	Color	Homogeneous	Sample Composition	
								Asbestos	Non-Asbestos
064	12C	4/11/2023	4/24/2023	Cooler/Freezer Panel Gasket; Dairy Cooler	NO	G	YES	N/A	Cellulose <1% Binder 100%
065	13A	4/11/2023	4/24/2023	Brick Mortar; Exterior - S. Side, East	NO	G	YES	N/A	Binder 100%
066	13B	4/11/2023	4/24/2023	Brick Mortar; Exterior - S. Side, Center	NO	G	YES	N/A	Binder 100%
067	13C	4/11/2023	4/24/2023	Brick Mortar; Exterior - S. Side, West	NO	G	YES	N/A	Binder 100%
068	14A	4/11/2023	4/24/2023	Brick Expansion Joint; Exterior - S. Side, East	NO	T	YES	N/A	Binder 100%
069	14B	4/11/2023	4/24/2023	Brick Expansion Joint; Exterior - S. Side, Center	NO	T	YES	N/A	Cellulose <1% Binder 100%
070	14C	4/11/2023	4/24/2023	Brick Expansion Joint; Exterior - S. Side, West	NO	T	YES	N/A	Cellulose <1% Binder 100%

Client: Civil & Environmental Consultants
 Report Date: 4/24/2023
 Lab Number: 167305

Project Number: 20-19107-D
 Project Name: Existing Kroger Store D-409

Polarized Light Microscopy (PLM) Bulk Sample Results

Location: 12731 S. Saginaw - Grand Blanc, MI

Sample ID	Client Sample ID	Date Collected	Date Analyzed	Sample Description	Asbestos Present?	Color	Homogeneous	Sample Composition	
								Asbestos	Non-Asbestos
071	15A	4/11/2023	4/24/2023	Concrete Block Mortar; Warehouse - E. Side	NO	G	YES	N/A	Binder 100%
072	15B	4/11/2023	4/24/2023	Concrete Block Mortar; Warehouse - Middle	NO	G	YES	N/A	Binder 100%
073	15C	4/11/2023	4/24/2023	Concrete Block Mortar; Warehouse - W. Side, Cleaning Station	NO	G	YES	N/A	Binder 100%
074	16A	4/11/2023	4/24/2023	Concrete Block Expansion Joint; Warehouse - W. Side	NO	T	YES	N/A	Cellulose <1% Binder 100%
075	16B	4/11/2023	4/24/2023	Concrete Block Expansion Joint; Warehouse -Middle by Stairs	NO	T	YES	N/A	Cellulose <1% Binder 100%
076	16C	4/11/2023	4/24/2023	Concrete Block Expansion Joint; Warehouse - E. Side	NO	T	YES	N/A	Binder 100%
077	17A	4/11/2023	4/24/2023	Bare Concrete Flooring; Warehouse	NO	G	YES	N/A	Binder 100%

Client: Civil & Environmental Consultants
 Report Date: 4/24/2023
 Lab Number: 167305

Project Number: 20-19107-D
 Project Name: Existing Kroger Store D-409

Polarized Light Microscopy (PLM) Bulk Sample Results

Location: 12731 S. Saginaw - Grand Blanc, MI

Sample ID	Client Sample ID	Date Collected	Date Analyzed	Sample Description	Asbestos Present?	Color	Homogeneous	Sample Composition	
								Asbestos	Non-Asbestos
078	17B	4/11/2023	4/24/2023	Bare Concrete Flooring; Warehouse	NO	G	YES	N/A	Binder 100%
079	17C	4/11/2023	4/24/2023	Bare Concrete Flooring; Warehouse	NO	G	YES	N/A	Binder 100%
080	18A	4/11/2023	4/24/2023	Perimeter Drywall & Assoc. Joint Compound; W. Vestibule	NO	W	NO	N/A	Cellulose 2% Fiberglass <1% Binder 98%
081	18B	4/11/2023	4/24/2023	Perimeter Drywall & Assoc. Joint Compound; S. Side of Check Lanes	NO	W	NO	N/A	Cellulose 3% Fiberglass <1% Binder 97%
082	18C	4/11/2023	4/24/2023	Perimeter Drywall & Assoc. Joint Compound; E. Vestibule	NO	W	NO	N/A	Cellulose <1% Fiberglass 2% Binder 98%
083	19A	4/11/2023	4/24/2023	Interior Drywall & Assoc. Joint Compound; Mechanical Mezzanine	NO	W	NO	N/A	Cellulose <1% Fiberglass <1% Binder 100%
084	19B	4/11/2023	4/24/2023	Interior Drywall & Assoc. Joint Compound; E. Restroom Hall	NO	W	NO	N/A	Cellulose 2% Fiberglass <1% Binder 98%

Client: Civil & Environmental Consultants
 Report Date: 4/24/2023
 Lab Number: 167305

Project Number: 20-19107-D
 Project Name: Existing Kroger Store D-409

Polarized Light Microscopy (PLM) Bulk Sample Results

Location: 12731 S. Saginaw - Grand Blanc, MI

Sample ID	Client Sample ID	Date Collected	Date Analyzed	Sample Description	Asbestos Present?	Color	Homogeneous	Sample Composition	
								Asbestos	Non-Asbestos
085	19C	4/11/2023	4/24/2023	Interior Drywall & Assoc. Joint Compound; N. Restroom Hall	NO	W	NO	N/A	Cellulose <1% Fiberglass <1% Binder 100%
086	20A	4/11/2023	4/24/2023	Window/Door Frame Caulk; Exterior - S. Side, Door	NO	G	YES	N/A	Cellulose <1% Binder 100%
087	20B	4/11/2023	4/24/2023	Window/Door Frame Caulk; Exterior - S. Side, Window	NO	G	YES	N/A	Cellulose <1% Binder 100%
088	20C	4/11/2023	4/24/2023	Window/Door Frame Caulk; Exterior - W. Side, Window	NO	G	YES	N/A	Cellulose <1% Binder 100%
089	21A	4/11/2023	4/24/2023	Window Glazing; Exterior - S. Side	NO	B	YES	N/A	Binder 100%
090	21B	4/11/2023	4/24/2023	Window Glazing; Exterior - S. Side	NO	B	YES	N/A	Binder 100%
091	21C	4/11/2023	4/24/2023	Window Glazing; Exterior - W. Side	NO	B	YES	N/A	Binder 100%

Client: Civil & Environmental Consultants
Report Date: 4/24/2023
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Project Number: 20-19107-D
Project Name: Existing Kroger Store D-409

Polarized Light Microscopy (PLM) Bulk Sample Results

Location: 12731 S. Saginaw - Grand Blanc, MI

Sample ID	Client Sample ID	Date Collected	Date Analyzed	Sample Description	Asbestos Present?	Color	Homogeneous	Sample Composition	
								Asbestos	Non-Asbestos
092	22A	4/11/2023	4/24/2023	EFS; Exterior - S. Side	NO	G - W	YES	N/A	Fiberglass 15% Binder 85%
093	22B	4/11/2023	4/24/2023	EFS; Exterior - S. Side	NO	G - W	YES	N/A	Fiberglass 15% Binder 85%
094	22C	4/11/2023	4/24/2023	EFS; Exterior - S. Side	NO	G - W	YES	N/A	Fiberglass 15% Binder 85%
095	23A	4/11/2023	4/24/2023	Stainless Steel Sink Insulation; Lunch Room	NO	G	YES	N/A	Cellulose <1% Binder 100%
096	24A	4/11/2023	4/24/2023	Seam Sealant on Rubber Membrane Roof; Roof - NE Corner	NO	B	YES	N/A	Binder 100%
097	24B	4/11/2023	4/24/2023	Seam Sealant on Rubber Membrane Roof; Roof - S. Side	NO	B	YES	N/A	Binder 100%
098	24C	4/11/2023	4/24/2023	Seam Sealant on Rubber Membrane Roof; Roof - W. Side	NO	B	YES	N/A	Binder 100%

Client: Civil & Environmental Consultants
 Report Date: 4/24/2023
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Project Number: 20-19107-D
 Project Name: Existing Kroger Store D-409

Polarized Light Microscopy (PLM) Bulk Sample Results

Location: 12731 S. Saginaw - Grand Blanc, MI

Sample ID	Client Sample ID	Date Collected	Date Analyzed	Sample Description	Asbestos Present?	Color	Homogeneous	Sample Composition	
								Asbestos	Non-Asbestos
099	25A	4/11/2023	4/24/2023	Asphalt Sealant on Roof Penetrations; Roof - NE Corner	NO	B	YES	N/A	Cellulose <1% Binder 100%
100	25B	4/11/2023	4/24/2023	Asphalt Sealant on Roof Penetrations; Roof - S. Side	NO	B	YES	N/A	Cellulose <1% Binder 100%
101	25C	4/11/2023	4/24/2023	Asphalt Sealant on Roof Penetrations; Roof - W. Side	NO	B	YES	N/A	Cellulose <1% Binder 100%
102	26A	4/11/2023	4/24/2023	Roofing Felts under Rubber Membrane Roof; Roof - E. Side	NO	BR - Y	YES	N/A	Cellulose 100%
103	26B	4/11/2023	4/24/2023	Roofing Felts under Rubber Membrane Roof; Roof - Center	NO	BR - Y	YES	N/A	Cellulose 100%
104	26C	4/11/2023	4/24/2023	Roofing Felts under Rubber Membrane Roof; Roof - W. Side	NO	BR - Y	YES	N/A	Cellulose 100%

Color: B-Black, BL-Blue, BR-Brown, CL-Clear, GL-Gold, G-Gray, GR-Green, O-Orange, P-Pink, PR-Purple, R-Red, S-Silver, T-Tan, W-White, Y-Yellow

Betsie L. McAfee has reviewed this final report and has taken overall technical responsibility for the data.

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WEB SITE: www.microair.com

167305

DAILY BULK SAMPLE LOG

TECHNICIAN Donald G French DATE 4-11-23 JOB # 20-19107-D

LOCATION Kroger Store D-409, Grand Blanc, MI PAGE 1 OF 6

SAMPLE NUMBER	SAMPLE LOCATION	MATERIAL CONDITION	PHOTO NUMBER	SAMPLE DESCRIPTION
-001 1 A	Store Floor - SE Hall by Lunch Room			12" x 12" Floor Tile
-002 B	" " - Floral Storage			Tan Scale Pattern
-003 C	" " - East Edge			
-004 D	" " - N End of Aisle 39			
-005 E	" " - Middle of Aisle 25			
-006 F	" " - N Side by Meat & Fish			
-007 G	" " - W side by Sushi			
-008 1 H	Store Floor - SE Hall by Lunch Room			Mastic on Above
-009 I	" " - Floral Storage			
-010 J	" " - East Edge			
-011 K	" " - N End of Aisle 39			
-012 L	" " - Middle of Aisle 25			
-013 M	" " - N Side by Meat & Fish			
-014 N	" " - W side by Sushi			
-015 2 A	Store Floor - SE Hall by Lunch Room			12" x 12" Floor Tile
-016 B	" " - Floral Storage			Cream Scale Pattern
-017 C	" " - East Edge			
-018 D	" " - N End of Aisle 39			
-019 E	" " - Middle of Aisle 25			
-020 F	" " - N Side by Meat & Fish			
-021 G	" " - W side by Sushi			

White - Office

Yellow - Laboratory

CHAIN OF CUSTODY CHRONICLE:

COLLECTED BY:

CUSTODY TRANSFERRED TO:

RECEIVED IN LABORATORY BY:

NAME

DATE

NAME

DATE

NAME

DATE

Donald G French 4-11-23

BL McAfee 4-19-23

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DAILY BULK SAMPLE LOG

TECHNICIAN Donald G French DATE 4-11-23 JOB # 20-19107-D

LOCATION Kroger Store D-409 PAGE 2 OF 6

SAMPLE NUMBER	SAMPLE LOCATION	MATERIAL CONDITION	PHOTO NUMBER	SAMPLE DESCRIPTION
022 2 H	Store Floor - SE Hall by Lunch Room			Mastic on Above
023 I	" " - Floral Storage			
024 J	" " - East Edge			
025 K	" " - NE End of Aisle	39		
026 L	" " - Middle of Aisle	25		
027 M	" " - N side by Meat & Fish			
028 N	" " - W side by Sushi			
029 3 A	Managers Office			2'x4' Ceiling Tile
030 B	Pharmacy			Gridlock Pattern
031 C	Lunch Room			
032 4 A	Meat & Fish			2'x4' Ceiling Tile
033 B	Deli			Drywall Pattern
034 C	Bakery			
035 5 A	Pharmacy Office			Carpet Tile
036 B	West Vestibule			Mastic
037 C	Customer Service			
038 6 A	Deli			Poured Flooring
039 B	Meat & Seafood			
040 C	Dairy Cooler			

White - Office

Yellow - Laboratory

CHAIN OF CUSTODY CHRONICLE:

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NAME

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DAILY BULK SAMPLE LOG

TECHNICIAN Donald G French

DATE 4-11-23

JOB # 20-19107-D

LOCATION Kroger Store D-409

PAGE 3 OF 6

SAMPLE NUMBER	SAMPLE LOCATION	MATERIAL CONDITION	PHOTO NUMBER	SAMPLE DESCRIPTION
-041 7 A	Lunch Room			4" Brown
-042 B	Store Floor by Clerk Lanes			Base Molding
-043 C	" " by Floral			↓
-044 D	↓			Mastic on Above
-045 E				↓
-046 F	↓			↓
-047 8 A	Produce			Woodgrain
-048 B	North side of Wine			Linoleum Flooring
-049 C				↓
-050 D	↓			Mastic on Above
-051 E				↓
-052 F	↓			↓
-053 9 A	W Vestibule			Plastic Wall
-054 B	" "			Panel Adhesive
-055 C	Recycling Center			↓
-056 10 A	East Restroom			Ceramic Tile
-057 B	Meat Prep			Grout
-058 C	Deli Prep			↓
-059 11 A	Warehouse by E Entry			HVAC Duct
-060 B	" " " "			Seam Caulk
-061 C	" " " "			↓

White - Office

Yellow - Laboratory

CHAIN OF CUSTODY CHRONICLE:

COLLECTED BY:

CUSTODY TRANSFERRED TO:

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NAME

DATE

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DATE

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DAILY BULK SAMPLE LOG

TECHNICIAN Donald G French DATE 4-11-23 JOB # 20-19107-D

LOCATION Kroger Store D-409 PAGE 4 OF 6

SAMPLE NUMBER	SAMPLE LOCATION	MATERIAL CONDITION	PHOTO NUMBER	SAMPLE DESCRIPTION
062 12A	Produce Cooler			Cooler/Freezer
063 B	Meat Freezer			Panel Gasket
064 C	Dairy Cooler			↓
065 13A	Exterior - S side - East			Brick Mortar
066 B	" - " " - Center			↓
067 C	" - " " - West			↓
068 14A	Exterior - S side - East			Brick Expansion
069 B	" - " " - Center			Joint
070 C	" - " " - West			↓
071 15A	Warehouse - E side			Concrete Block
072 B	" - middle			Mortar
073 C	" - W side Cleaning Station			↓
074 16A	Warehouse - West side			Concrete Block
075 B	" - middle by stairs			Expansion Joint
076 C	" - East side			↓
077 17A	Warehouse			Bare Concrete
078 B	"			Flooring
079 C	"			↓

White - Office

Yellow - Laboratory

CHAIN OF CUSTODY CHRONICLE:

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CUSTODY TRANSFERRED TO:

RECEIVED IN LABORATORY BY:

NAME

DATE

NAME

DATE

NAME

DATE

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DAILY BULK SAMPLE LOG

TECHNICIAN Donald G French DATE 4-11-23 JOB # 20-19107-1

LOCATION Kroger Store D-409 PAGE 5 OF 6

SAMPLE NUMBER	SAMPLE LOCATION	MATERIAL CONDITION	PHOTO NUMBER	SAMPLE DESCRIPTION
080 18A	West Vestibule			Perimeter
081 B	South side of Check Lanes			Drywall & Associated
082 C	East Vestibule			Joint Compound
083 19A	Mechanical Mezzanine			Interior
084 B	East Restroom Hall			Drywall & Associated
085 C	North " "			Joint Compound
086 20A	Exterior - S side Door			Window/Door
087 B	" - S side Window			Frame Caulk
088 C	" - W side Window			↓
089 21A	Exterior - S side			Window Glazing
090 B	" - S side			↓
091 C	" - W side			↓
092 22A	Exterior - S side			EFS
093 B	" - " "			↓
094 C	" - " "			↓
095 23A	Lunch Room			Sink Stainless Steel
				Sink Insulation

White - Office

Yellow - Laboratory

CHAIN OF CUSTODY CHRONICLE:

COLLECTED BY:

CUSTODY TRANSFERRED TO:

RECEIVED IN LABORATORY BY:

NAME

DATE

NAME

DATE

NAME

DATE


TAB 5

CERTIFICATIONS

State of Michigan
Department of Labor and Economic Opportunity
Michigan Occupational Safety & Health Administration - Asbestos Program


 **Asbestos Inspector**

Donald G. French
6320 LaPas Trail
Indianapolis, IN 46268



Accreditation Number
A11834

Expiration Date
02/18/2024

 **DOB: 07/16/1960**

This individual has satisfactorily met or exceeded the requirements of Michigan Public Act 440 of 1988, as amended, to be accredited as an Asbestos Inspector.

Accreditation card is not valid if altered

163359

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 101221-0

Micro Air, Inc.
Indianapolis, IN

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

Asbestos Fiber Analysis

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

2023-04-01 through 2024-03-31

Effective Dates




For the National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

Micro Air, Inc.
6320 La Pas Trail
Indianapolis, IN 46268-4104
Ms. Betsie L. McAfee
Phone: 317-293-1533 Fax: 317-290-3569
Email: bmcafee@microair.com
<http://www.microair.com>

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 101221-0

Bulk Asbestos Analysis

<u>Code</u>	<u>Description</u>
18/A01	EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of 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



For the National Voluntary Laboratory Accreditation Program



ASBESTOS SURVEY REPORT

**Kroger Store D-409 Proposed Expansion
12731 South Saginaw Road
Grand Blanc, Michigan**

Prepared by:



AMEC Environment & Infrastructure, Inc.

15933 Clayton Road, Suite 215
Ballwin, MO 63011
636.386.3800
636.386.3804 (fax)

AMEC Project No. 242413130

November 8, 2013



November 8, 2013

Mr. Mark Millerwise
Construction Manager
The Kroger Co.
Midwest Region-Michigan Division
40393 Grand River
Novi, Michigan 48375

RE: **Asbestos Survey Report**
Kroger Store D-409 Proposed Expansion
12731 South Saginaw Road
Grand Blanc, MI
Project No. 242413130

Dear Mr. Millerwise:

AMEC Environment & Infrastructure, Inc. (AMEC) is pleased to present this Asbestos Survey Report for the above-referenced properties (subject property). The Asbestos Survey was conducted in accordance with AMEC's proposal dated August 12, 2013 and authorized by Kroger Purchase Order DO824059 dated August 29, 2013. Due to site access delays, AMEC conducted the site reconnaissance on September 20, 23, and October 4, 2013.

AMEC appreciates the opportunity to serve The Kroger Co. on this project. Please call us if we can be of any further assistance.

Sincerely,
AMEC Environment & Infrastructure, Inc.

A handwritten signature in blue ink, appearing to read "DS" or "Saigh".

Douglas R. Saigh
Certified Asbestos Inspector

A handwritten signature in blue ink, appearing to read "Deborah J. Blankenship".

Deborah J. Blankenship, PG, CPG
Senior Geologist

A handwritten signature in blue ink, appearing to read "Kevin S. Arnold".

Kevin S. Arnold
Senior Environmental Scientist

cc: Keith Oliver, The Kroger Co.
Brett Smollen, The Kroger Co.
Breana Roth, The Kroger Co.

AMEC Environment & Infrastructure, Inc.

15933 Clayton Road, Suite 215, Ballwin, MO 63011 • Phone: 636.200.5121 • Fax: 636.386.3804
P:\KROGER\Michigan\Kroger D-409, Grand Blanc MI\AHS\FINAL D-409 AHS RPT\FINAL Kroger D409 Asbestos Report.docx



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- Figure 2: Sample Location Plan – Kroger Store D-409 Exterior
- Figure 3: Sample Location Plan – Suites 801 and 802
- Figure 4: Sample Location Plan – Suites 803 and 804
- Figure 5: Sample Location Plan – Suites 805 and 806
- Figure 6: Sample Location Plan – Suite 807

- APPENDIX A: Photographic Summary
- APPENDIX B: Asbestos Sample Summary
- APPENDIX C: Laboratory Analytical Report
- APPENDIX D: Certifications

EXECUTIVE SUMMARY

AMEC conducted an asbestos survey of the Kroger Store D-409 Proposed Expansion project located at 12731 South Saginaw Road in Grand Blanc, Michigan. The survey was conducted by a State of Michigan-licensed building inspector on September 20 and 23, and October 4, 2013. AMEC understands that this asbestos survey was requested due to planned expansion of Kroger Store D-409. Details are not included or fully developed in this section, and the report must be read in its entirety for a comprehensive understanding of this survey.

The subject property consists of Kroger Store D-409, seven south adjoining tenant suites (Suite Nos. 801 through 807), and asphalt and concrete parking areas and drives. Two hundred and six (206) bulk samples of suspect ACMs were collected during the inspection and submitted to an accredited laboratory for analysis by polarized light microscopy (PLM). Asbestos was not identified in the samples collected and analyzed.

Should suspect materials other than those which were identified during this survey be uncovered during the demolition process, those materials should be assumed asbestos-containing until sampling and analysis can confirm or deny asbestos content.

1.0 INTRODUCTION

AMEC Environment & Infrastructure, Inc. (AMEC) conducted an asbestos survey for the Kroger Store D-409 Proposed Expansion project located at 12731 South Saginaw Road in Grand Blanc, Genesee County, Michigan. The survey was conducted in general accordance with our proposal dated August 12, 2013 and “The Kroger Co., Environmental Site Assessment Specification, v. September 2012” (Kroger Scope of Work). The asbestos survey was authorized by Kroger Purchase Order DO824059, dated August 29, 2013. AMEC understands that this asbestos survey was requested due to the planned expansion of the current Kroger Store D-409.

1.2 Reliance

This report has been prepared for the exclusive use and reliance of The Kroger Co. and its subsidiaries and affiliates and its authorized representatives (Users), who may solely rely upon the conclusions presented herein. Reliance on this asbestos survey report by the Users and all authorized parties will be subject to the terms, conditions and limitations stated in the Master Service Agreement (MSA) No. 3268 signed by AMEC and the Kroger Co. General Offices (G.O.) on June 12, 2008.

2.0 SUBJECT PROPERTY DESCRIPTION

The subject property is located within the Grand Mall Shopping Center. The subject property consists of Kroger Store D-409, seven south adjoining tenant suites, and asphalt and concrete parking areas and drives. The subject property consists of the following tenant suites:

- Suite A1 – Kroger Store D-409
- Suite 801 – GNC
- Suite 802 – Devary Chiropractic
- Suite 803 – Vacant
- Suite 804 – In the Rough Jewelers
- Suite 805 – Le Grand Bistro
- Suite 806 - \$2.99 Cleaners
- Suite 807 – The UPS Store

The Kroger Store was constructed in 1988 and consists of approximately 67,000 square feet (SF). The seven tenant suites were constructed in approximately 1988 and encompass approximately 9,654 SF. The buildings are constructed on concrete slab foundations, concrete block and brick exterior walls supporting metal lattice roof joists, corrugated roof decking, and a membrane roofing system.

Interior finishes consists of wallboard and concrete block walls, acoustical ceiling tiles, carpeting, vinyl and ceramic tile, and concrete floors. The buildings are heated and cooled by forced-air systems located on the roofs. Photographs of the subject property and suspect asbestos-containing materials (ACMs) are contained in Appendix A.

3.0 FIELD ACTIVITIES

The survey was conducted by State of Michigan-certified asbestos inspector, Mr. Douglas Saigh of AMEC. Due to site access delays, the survey was conducted on September 20 and 23, and October 4, 2013. AMEC was escorted through the seven expansion tenant suites by Mr. Brian Lake of the Grand Mall Maintenance Department. The survey was conducted in general accordance with the sample collection protocols established in EPA regulation 40 CFR 763, AHERA. A copy of Mr. Saigh's asbestos inspector certification is contained in Appendix D. A summary of the survey activities is provided in the following subsections.

3.1 Visual Assessment

Survey activities began with a visual inspection of interior and exterior areas of each tenant space of the building to identify, document the location, condition and approximate quantities of suspect ACM. Suspect ACMs were grouped into homogeneous areas. A homogeneous area consists of building materials that appear similar throughout in terms of color, texture and consideration of date of installation or application. Building materials identified as concrete, glass, wood, masonry, metal, rubber or silicone are not considered suspect ACM and, therefore, were not sampled. Also, if information was available to indicate a material did not contain asbestos (i.e., product label), the material was not sampled.

The interior inspection was limited to accessible areas. The exterior assessment included exterior walls, doors, windows, and roofs of the subject property. Destructive sampling (e.g., breaking into wall voids) was not conducted.

AMEC did not observe additional flooring layers unless mentioned in this report; however, as AMEC could not assess beneath all floor covering in all areas, there may be isolated areas of additional suspect material present beneath existing flooring. Although reasonable effort was made to survey accessible suspect materials, additional suspect but un-sampled materials could be located in walls, in voids or in other concealed areas (e.g., locked doors, inaccessible attics).

3.2 Bulk Sample Collection

Based on the findings of the visual inspection, bulk samples of suspect ACM were collected in general accordance with AHERA sample collection protocols. Random samples were collected for each suspect homogeneous material identified. Samples were placed in sealable containers, labeled with unique sample numbers, using an indelible marker.

Two hundred and six (206) bulk samples representing 68 homogeneous areas (HAs) of suspect ACMs were collected during the inspection. Some bulk samples collected included multiple layers (e.g., floor tile and mastic). Due to safety issues, electrical and mechanical components were not sampled as part of this survey.

Asbestos Sample Maps depicting approximate interior and exterior sample locations are presented as Figure 1 through Figure 6. A Sample Summary containing sample numbers, material description, and sample locations is contained in Appendix B.

3.3 Sample Analysis

Bulk samples were submitted under chain of custody to QuanTEM Laboratories (QuanTEM) in Oklahoma City, Oklahoma, for analysis by polarized light microscopy (PLM) with dispersion staining techniques per EPA's Method for the Determination of Asbestos in Bulk Building Materials (600/R-93-116). The percentage of asbestos, where applicable, was established by microscopic visual estimation. QuanTEM is an accredited National Voluntary Laboratory Accreditation Program (NVLAP Accreditation No. 101959-0) laboratory. The laboratory analytical report is contained in Appendix C.

3.4 Building Plans or Prior Reports

Kroger did not provide prior asbestos survey reports or an Operation and Maintenance Program for the subject property for review. Further, no as-built plans, construction plans, or material schedules were available for review.

4.0 REGULATORY OVERVIEW

The State of Michigan Department of Environmental Quality (MDEQ), Air Division NESHAP Program, enforces the Asbestos NESAHP. The Asbestos NESHAP (40 CFR Part 61, Subpart M) regulates asbestos fiber emissions and asbestos waste disposal practices. It also requires the identification and classification according to friability of existing ACM prior to demolition or renovation activity.

The NESHAP regulation classifies ACM as either regulated asbestos-containing material (RACM), Category I non-friable ACM, or Category II non-friable ACM. RACM includes friable ACM, along with Category I non-friable ACM that has become friable or will be or has been subjected to sanding, grinding, cutting or abrading, and Category II non-friable ACM that has a high probability of becoming friable in the course of renovation or demolition activity. Friable ACM is a material containing more than 1% asbestos that, when dry, may be crumbled, pulverized or reduced to powder by hand pressure. Category I non-friable ACM are exclusively asbestos-containing packings, gaskets, resilient floor coverings, resilient floor covering mastics and asphalt roofing products that contain more than 1% asbestos. Category II non-friable ACM are all other non-friable materials other than Category I non-friable ACM that contain more than 1% asbestos.

Friable ACM along with Category I and Category II non-friable ACM which is in poor condition and has become friable or which will be subjected to drilling, sanding, grinding, cutting or abrading and could be crushed or pulverized during anticipated renovation or renovation activities are considered RACM. RACM must be removed prior to renovation or demolition activities which will disturb the materials.

The Occupational Safety and Health Administration (OSHA) asbestos standard for construction (29 CFR 1926.1101) regulates workplace exposure to asbestos. The OSHA standard requires that employee exposures to airborne asbestos fibers be maintained below 0.1 fiber per cubic centimeter of air (0.1 f/cc) as an eight (8) hour-time weighted average (TWA) and not exceed 1.0 fibers per cubic centimeter of air

(1.0 f/cc) over a 30 minute time period, the excursion limit. The TWA and excursion limit together are known as the OSHA permissible exposure limits or PELs. The OSHA standard classifies construction and maintenance activities which could disturb ACM, and specifies work practices and precautions which employers must follow when engaging in each class of regulated work.

In the State of Michigan, the owner or operator must provide the MDEQ NESHAP Program and the State of Michigan Department of Licensing and Regulatory Affairs (LARA) with written notification at least 10 working days prior to the commencement of any renovation activity which will include the disturbance of at least 160 square feet or 260 linear feet or 35 cubic feet of RACM or prior to the commencement of demolition. Removal of RACM must be conducted by a LARA licensed asbestos abatement contractor.

AMEC recommends that for all ACMs, regardless of quantity, removal be completed by an LARA-licensed asbestos abatement contractor. The owner or operator must provide the MDEQ and LARA with written notification at least 10 working days prior to the commencement of asbestos abatement activities that will disturb RACM in amounts greater than or equal to 160 square feet, 260 linear feet or 35 cubic feet. If remodeling/renovation efforts include repair, removal or replacement of “load bearing” structures, this is considered demolition and a 10-day notification to the local municipal agency may be required.

5.0 FINDINGS, RECOMMENDATIONS AND COST ESTIMATES

5.1 Findings and Recommendations

AMEC conducted an asbestos survey of the Kroger Store D-409 Proposed Expansion project located at 12731 South Saginaw Road in Grand Blanc, Genesee County, Michigan. The subject property consists of Kroger Store D-409, seven adjacent tenant suites (Suite Nos. 801 through 807), and asphalt and concrete paved parking areas. Two hundred and six (206) bulk samples of suspect ACMs were collected during the inspection and submitted to an accredited laboratory for analysis by polarized light microscopy (PLM). Asbestos was not identified in the samples collected and analyzed.

It should be noted that suspect materials, other than those identified during the September 20 and 23, 2013 and October 4, 2013, survey may exist within the building. Should suspect materials other than those which were identified during this survey be uncovered during the demolition process, those

materials should be assumed asbestos-containing until sampling and analysis can confirm or deny asbestos content.

6.0 GENERAL COMMENTS

This asbestos survey was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the same locale. The results, findings, conclusions and recommendations expressed in this report are based on conditions observed during our survey of the building. The information contained in this report is relevant to the date on which this survey was performed, and should not be relied upon to represent conditions at a later date. This report has been prepared on behalf of and exclusively for use by the Kroger Company for specific application to their project as discussed. *This report is not a bidding document. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary.* AMEC does not warrant the work of regulatory agencies, laboratories or other third parties supplying information which may have been used in the preparation of this report. No warranty, express or implied is made.

FIGURES

Figure 1: Sample Location Plan – Kroger Store D-409 Interior

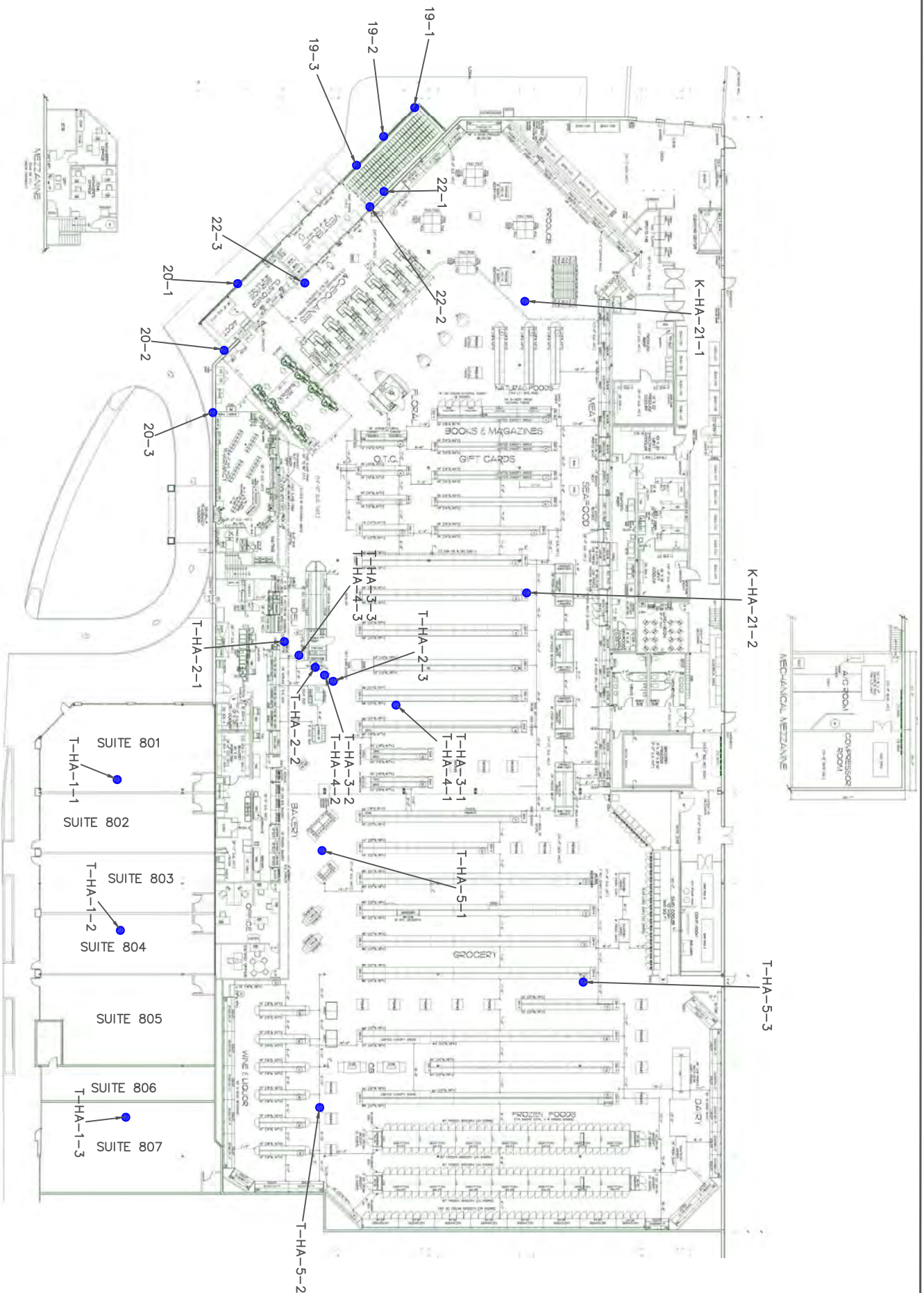
Figure 2: Sample Location Plan – Kroger Store D-409 Exterior

Figure 3: Sample Location Plan – Suites 801 and 802

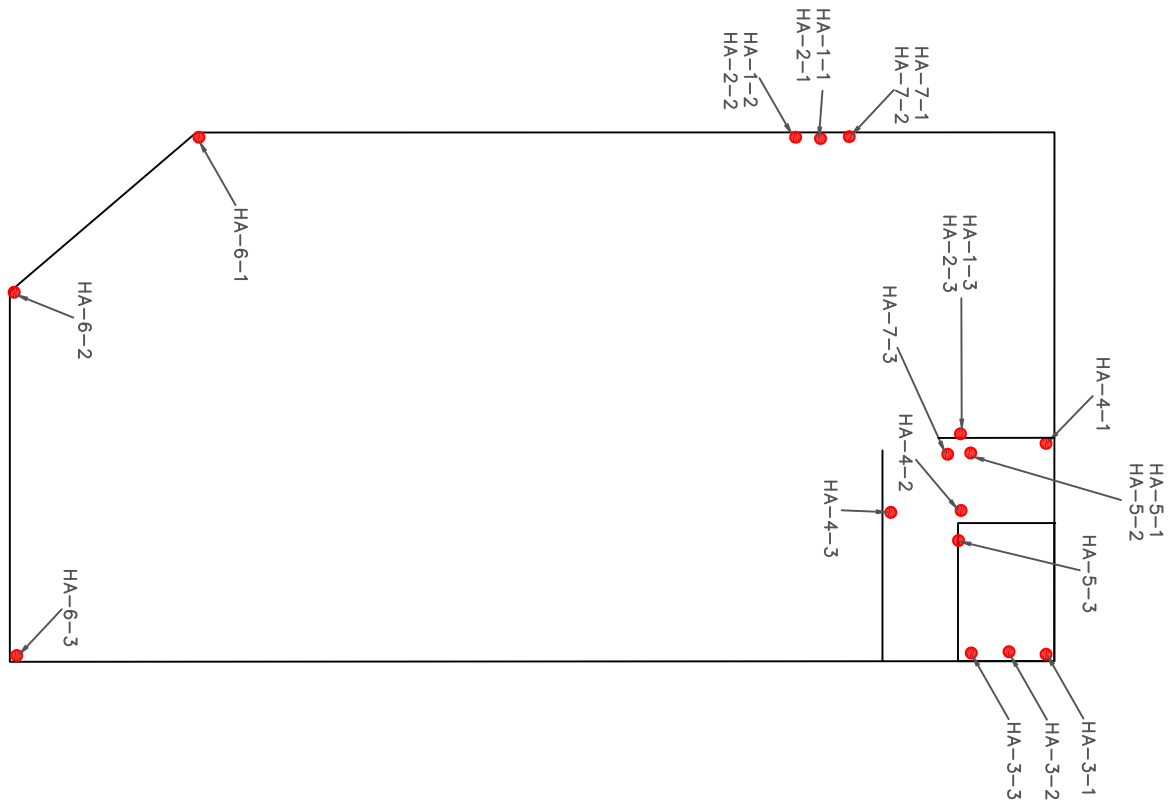
Figure 4: Sample Location Plan – Suites 803 and 804

Figure 5: Sample Location Plan – Suites 805 and 806

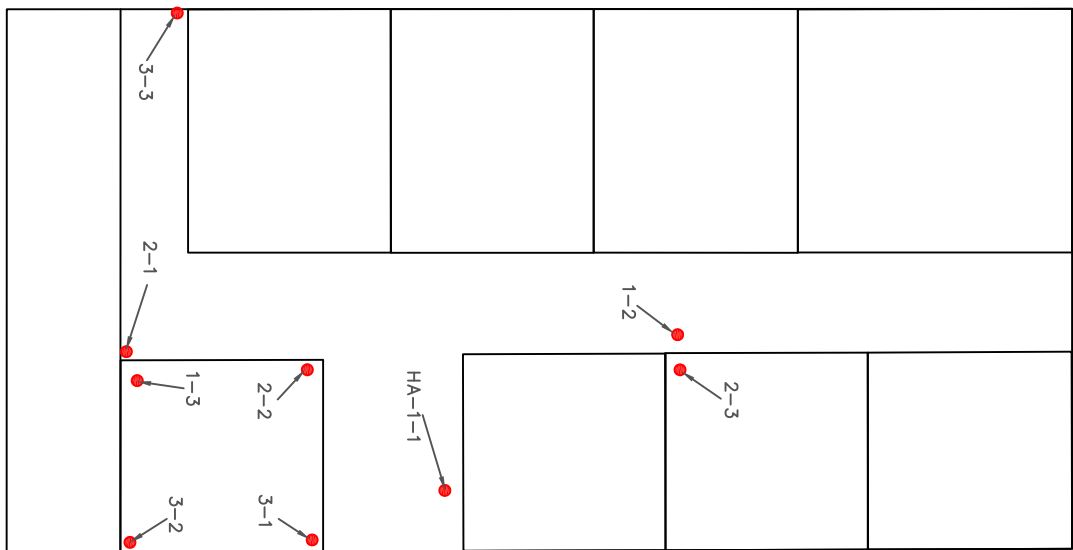
Figure 6: Sample Location Plan – Suite 807



ASBESTOS SAMPLE MAP				FIGURE 2	
KROGER STORE D-409 EXTERIOR				APPROX. SCALE:	
THE KROGER CO.				NOT TO	
KROGER STORE D-409 PROP. EXPANSION				SCALE	
12731 S. SAGINAW STREET					
GRAND BLANC, MICHIGAN					
REFERENCE	DRAWN BY:	DATE DRAWN:	PROJECT NO.		
SHEET XF1	E. SCHATZ	11/4/13	242413130		



SUITE 801



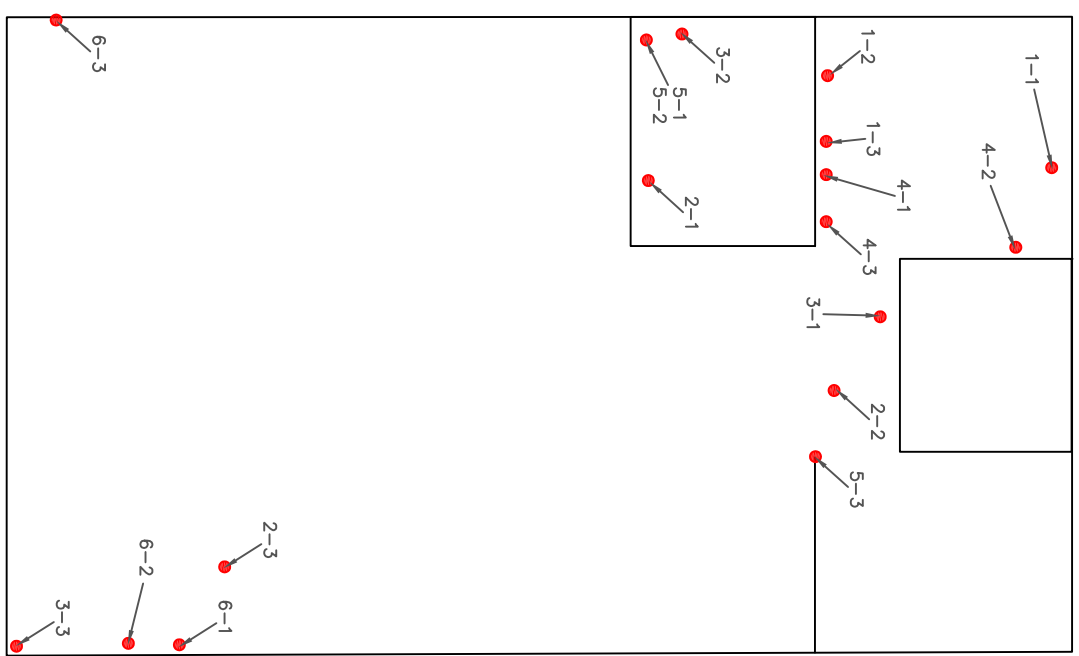
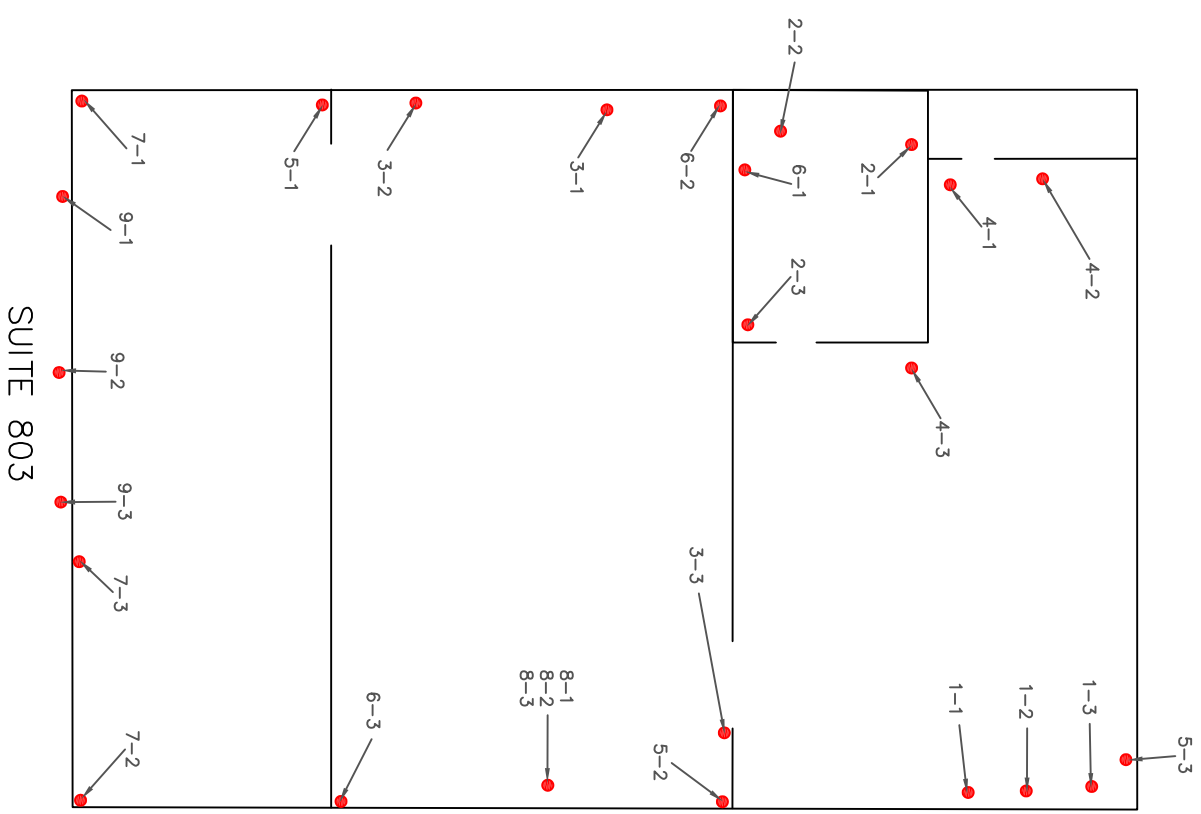
SUITE 802




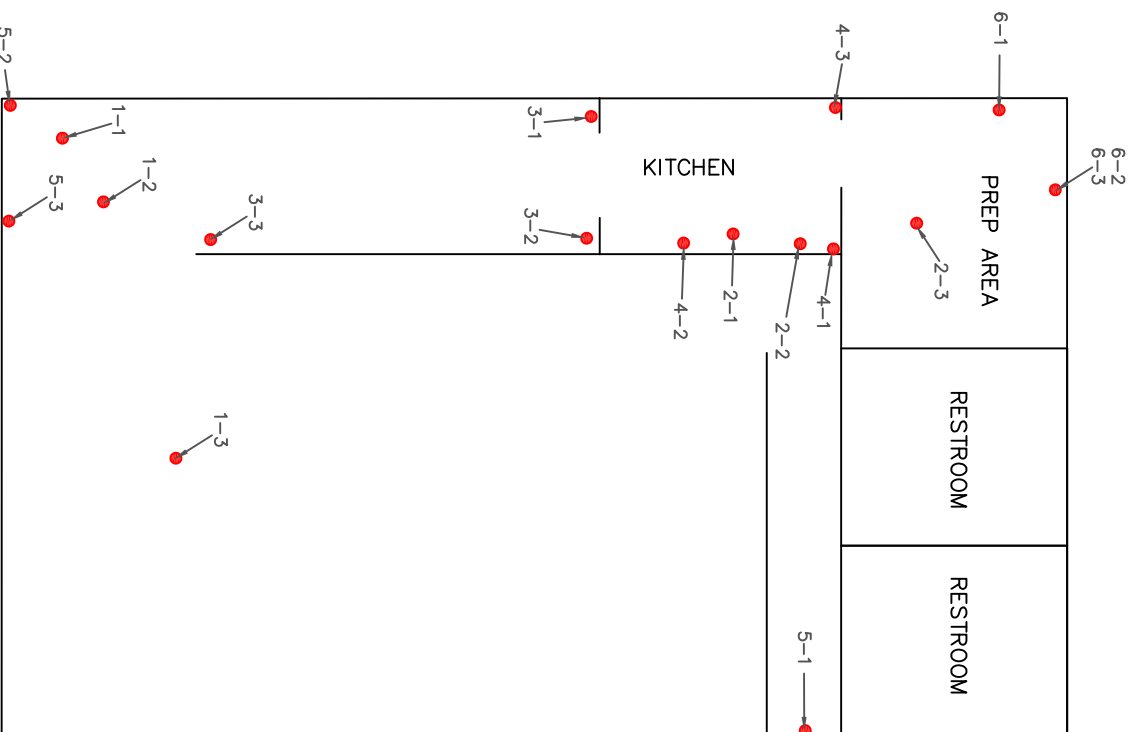
ASBESTOS SAMPLE MAP				FIGURE 3	
SUITES 801 & 802				APPROX. SCALE:	
THE KROGER CO.				NOT TO	
KROGER STORE D-409 PROP. EXPANSION				SCALE	
12731 S. SAGINAW STREET					
GRAND BLANC, MICHIGAN					
DRAWN BY:	DATE DRAWN:	PROJECT NO.			
E. SCHATZ	11/4/13	242413130			



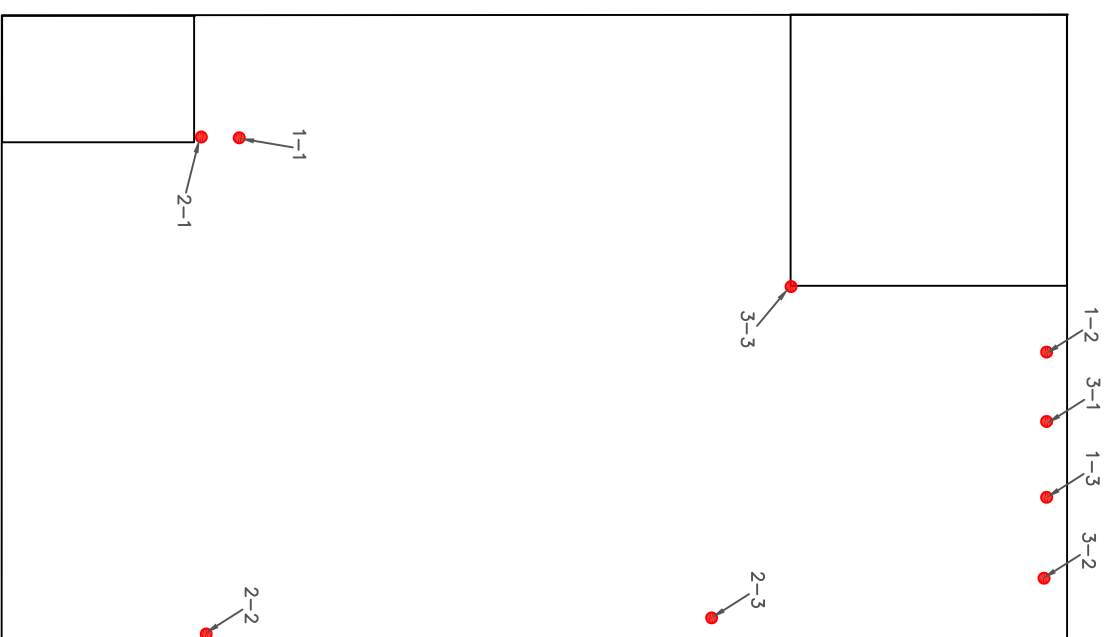
ENVIRONMENT &
INFRASTRUCTURE
15933 CLAYTON ROAD
SUITE 215
BALWIN, MO 63011



ASBESTOS SAMPLE MAP SUITES 803 & 804				FIGURE 4	
THE KROGER CO. KROGER STORE D-409 PROP. EXPANSION 12731 S. SAGINAW STREET GRAND BLANC, MICHIGAN				APPROX. SCALE: NOT TO SCALE	
DRAWN BY:	DATE DRAWN:	PROJECT NO.			
E. SCHATZ	11/4/13	242413130			
 ENVIRONMENT & INFRASTRUCTURE 15933 CLAYTON ROAD SUITE 215 BALWIN, MO 63011					



SUITE 805



SUITE 806



ASBESTOS SAMPLE MAP				FIGURE 4	
SUITES 805 & 806				APPROX. SCALE:	
THE KROGER CO.				NOT TO	
KROGER STORE D-409 PROP. EXPANSION				SCALE	
12731 S. SAGINAW STREET					
GRAND BLANC, MICHIGAN					
DRAWN BY:	DATE DRAWN:	PROJECT NO.			
E. SCHATZ	11/4/13	242413130			



ENVIRONMENT &
 INFRASTRUCTURE
 15933 CLAYTON ROAD
 SUITE 215
 BALWIN, MO 63011

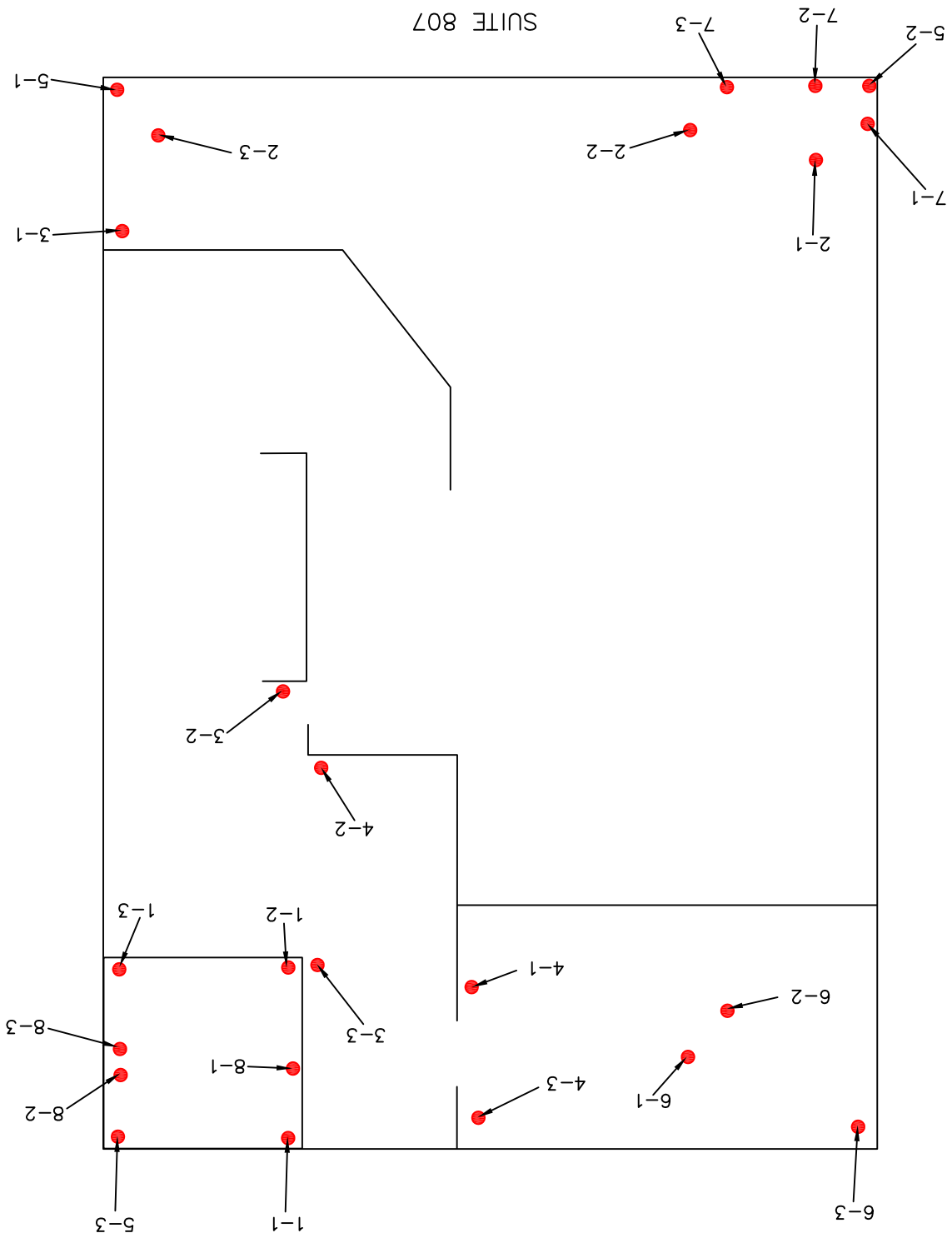
	DRWN BY: E. SCHATZ	DATE DRAWN: 11/5/13	PROJECT NO. 242413130
	THE KROGER CO. KROGER STORE D-409 PROP. EXPANSION 12731 SOUTH SAGINAW ROAD GRAND BLANC, MICHIGAN		

FIGURE 6	APPROX. SCALE: NOT TO SCALE
----------	--------------------------------

ENVIRONMENT &
 INFRASTRUCTURE
 15933 CLAYTON ROAD
 SUITE 215
 BALLWIN, MO 63011



SUITE 807





APPENDIX A

Photographs

**Photographic Documentation
Kroger Store D-409 Proposed Expansion
Grand Blanc, Michigan
Project No. 242413130**

Photo: 1

Description:

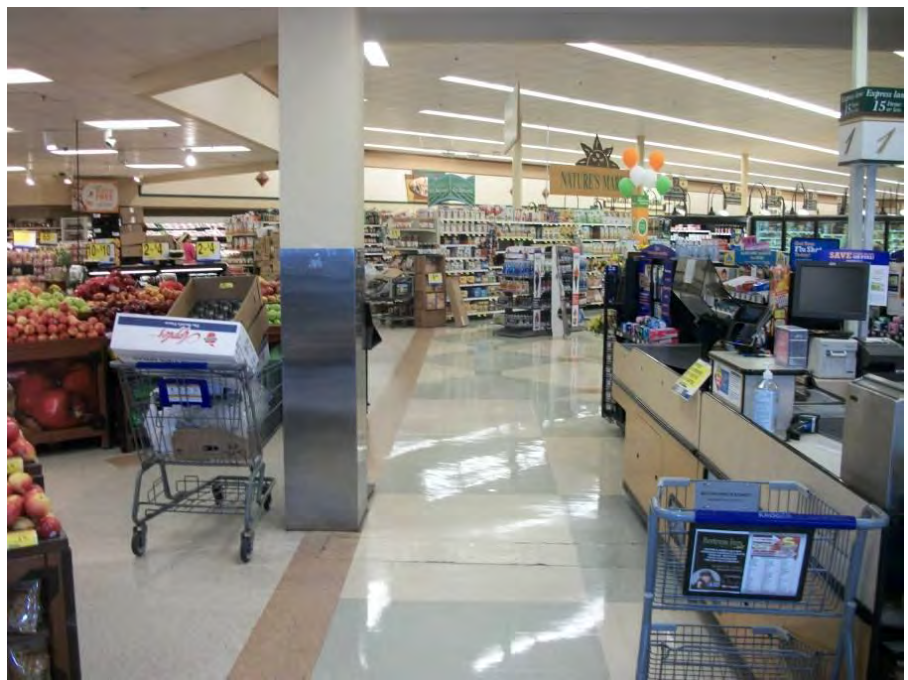
View of Kroger Store D-409 from south.



Photo: 2

Description:

View of retail area of Kroger Store.



**Photographic Documentation
Kroger Store D-409 Proposed Expansion
Grand Blanc, Michigan
Project No. 242413130**

Photo: 3

Description:

View of K-HA-1.



Photo: 4

Description:

View of K-HA-2.



**Photographic Documentation
Kroger Store D-409 Proposed Expansion
Grand Blanc, Michigan
Project No. 242413130**

Photo: 5

Description:

View of K-HA-3.



Photo: 6

Description:

View of K-HA-4.



**Photographic Documentation
Kroger Store D-409 Proposed Expansion
Grand Blanc, Michigan
Project No. 242413130**

Photo: 7

Description:

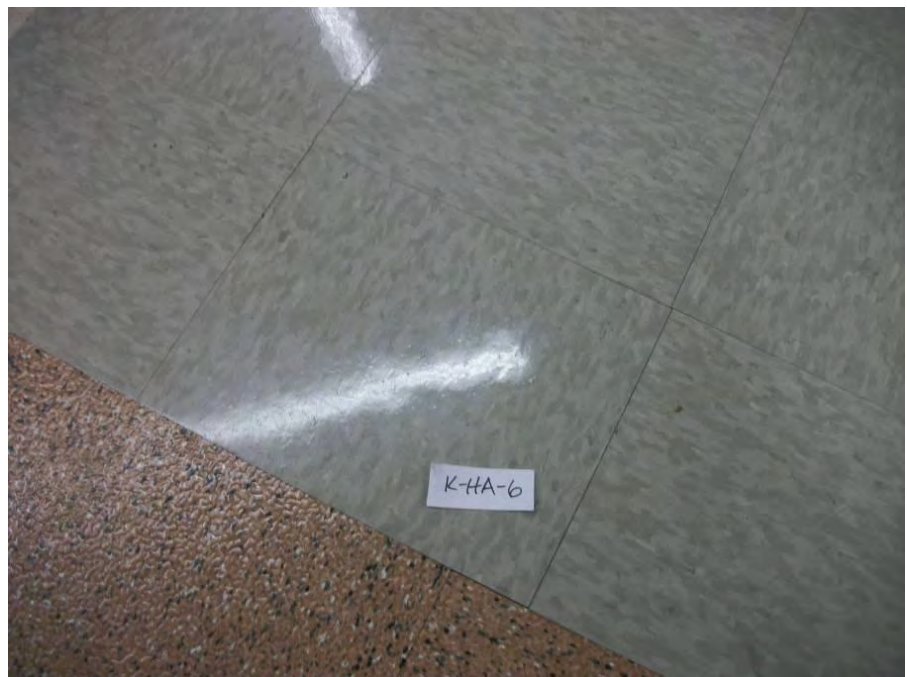
View of K-HA-5.



Photo: 8

Description:

View of K-HA-6.



**Photographic Documentation
Kroger Store D-409 Proposed Expansion
Grand Blanc, Michigan
Project No. 242413130**

Photo: 9

Description:

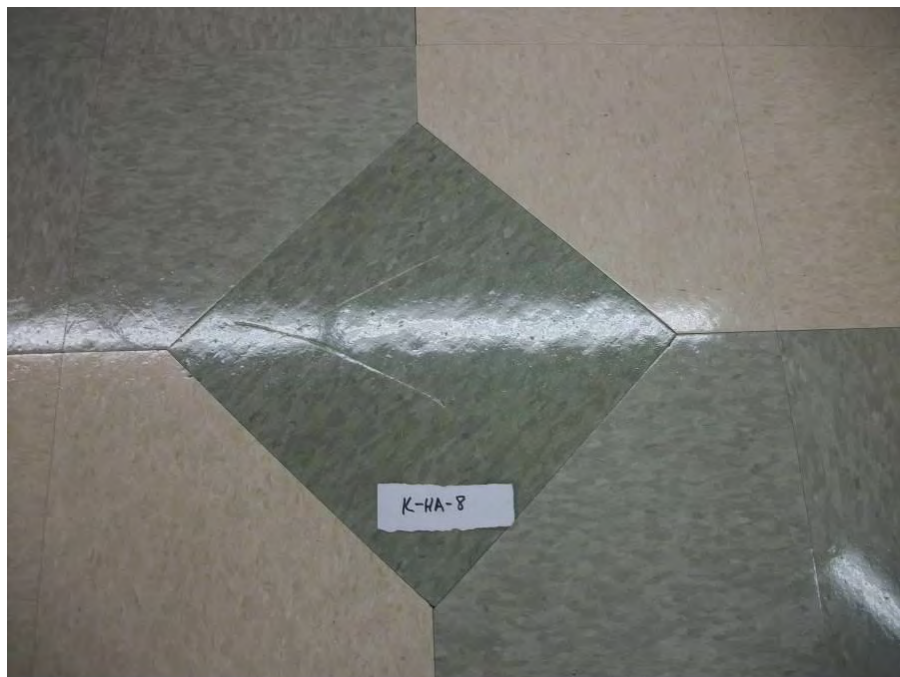
View of K-HA-7.



Photo: 10

Description:

View of K-HA-8.



**Photographic Documentation
Kroger Store D-409 Proposed Expansion
Grand Blanc, Michigan
Project No. 242413130**



**Photographic Documentation
Kroger Store D-409 Proposed Expansion
Grand Blanc, Michigan
Project No. 242413130**

Photo: 13

View of K-HA-11.

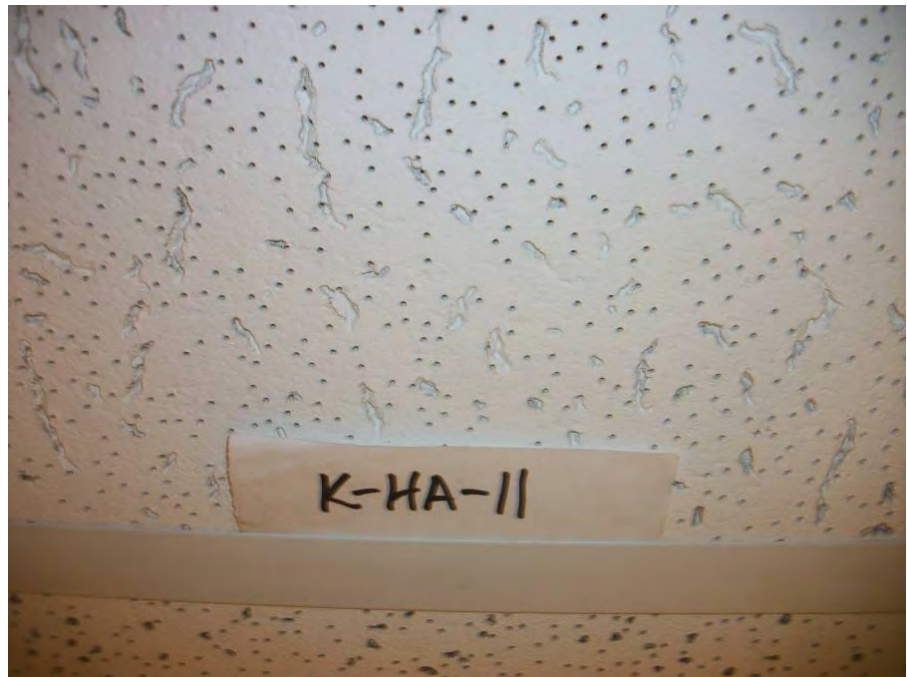
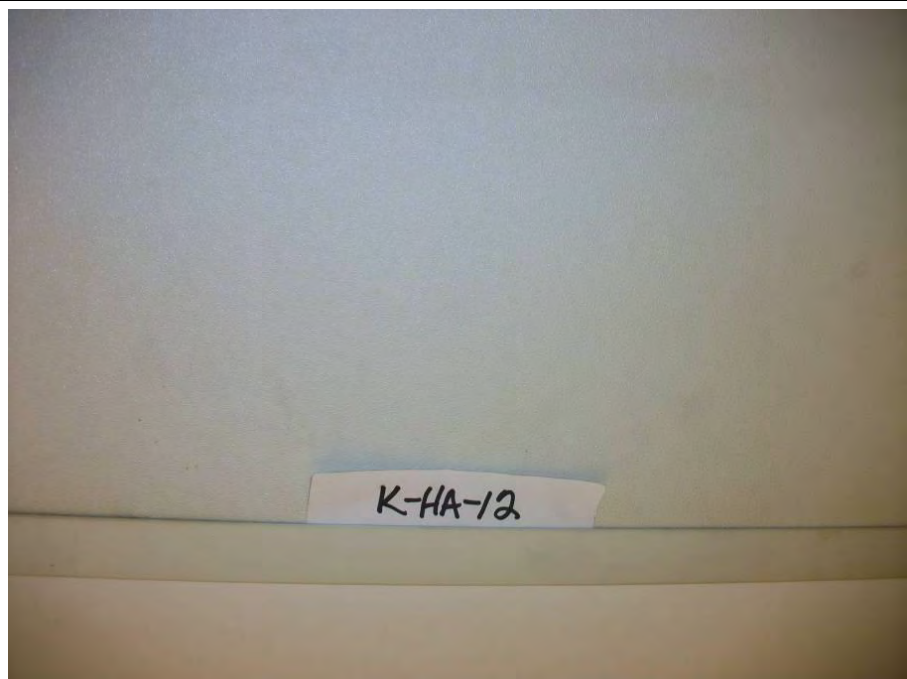


Photo: 14

Description:

View of K-HA-12.



**Photographic Documentation
Kroger Store D-409 Proposed Expansion
Grand Blanc, Michigan
Project No. 242413130**

Photo: 15

Description:

View of K-HA-13

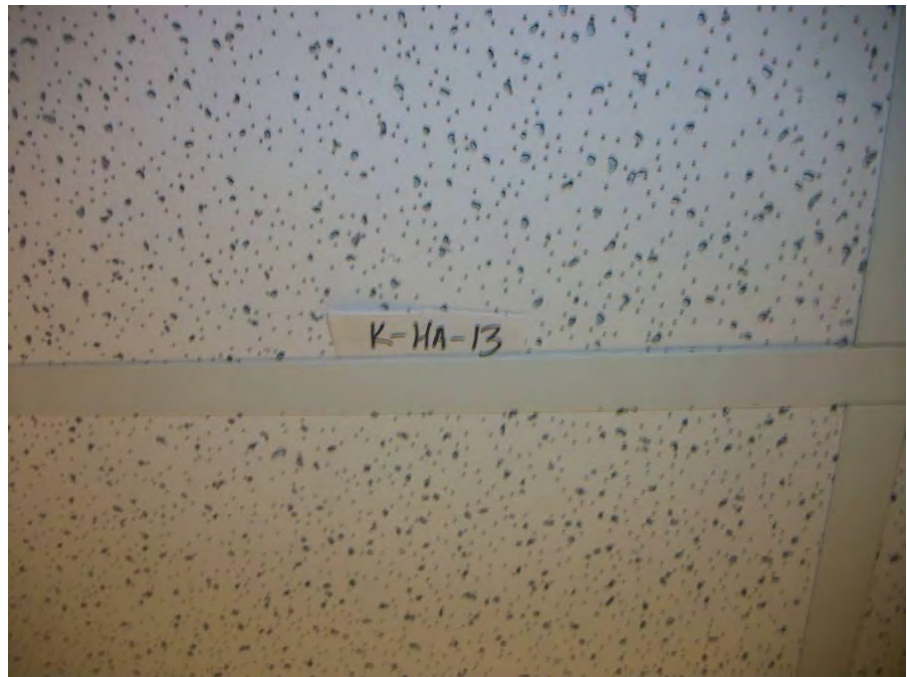


Photo: 16

Description:

View of K-HA-14.



**Photographic Documentation
Kroger Store D-409 Proposed Expansion
Grand Blanc, Michigan
Project No. 242413130**

Photo: 17

Description:

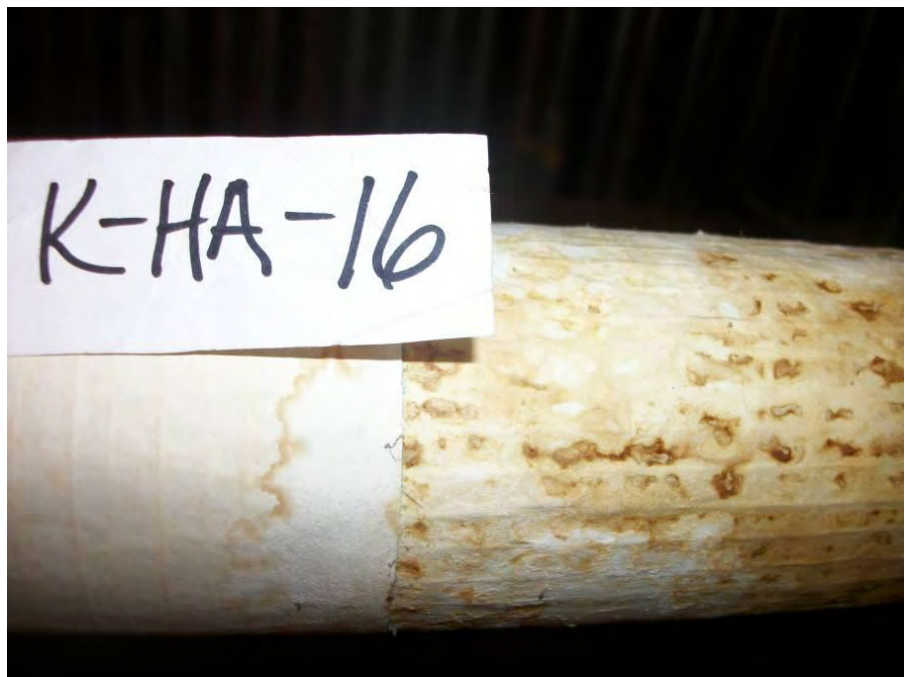
View of K-HA-15.



Photo: 18

Description:

View of K-HA-16.



**Photographic Documentation
Kroger Store D-409 Proposed Expansion
Grand Blanc, Michigan
Project No. 242413130**

Photo: 19

Description:

View of K-HA-17.

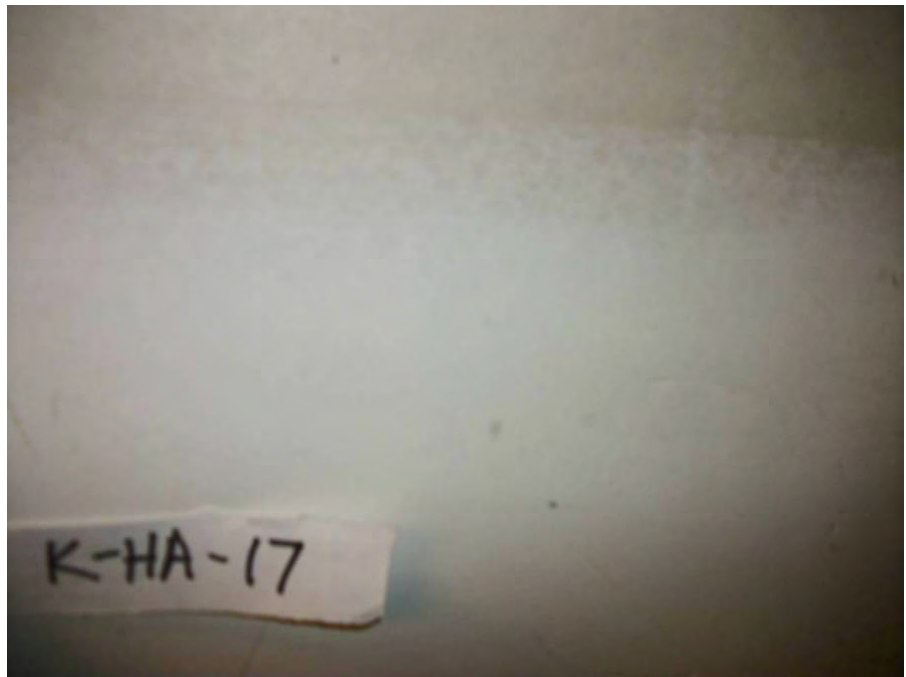


Photo: 20

Description:

View of K-HA-18.



**Photographic Documentation
Kroger Store D-409 Proposed Expansion
Grand Blanc, Michigan
Project No. 242413130**

Photo: 21

Description:

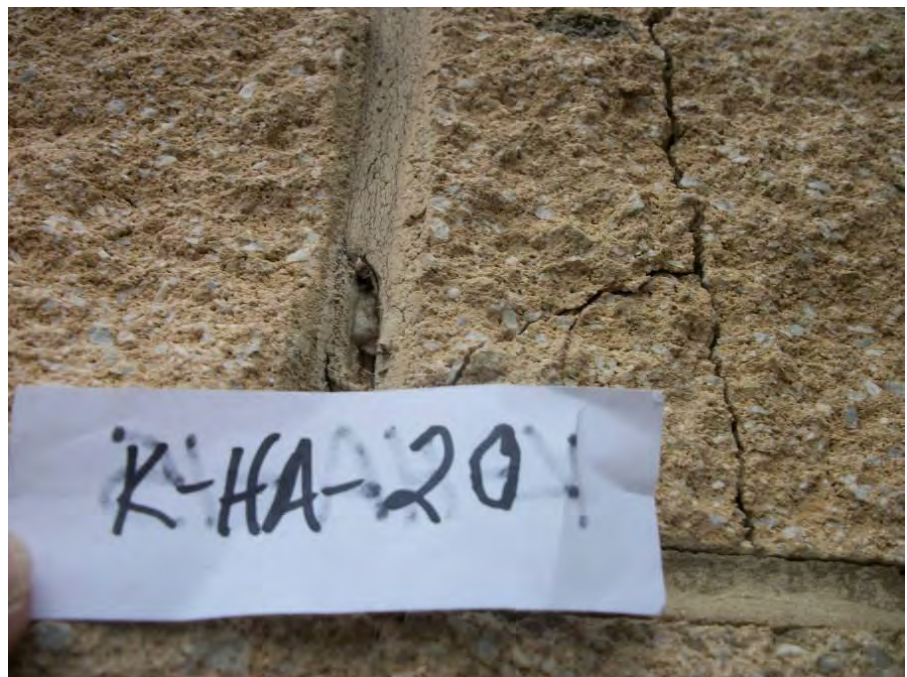
View of K-HA-19.



Photo: 22

Description:

View of K-HA-20.



**Photographic Documentation
Kroger Store D-409 Proposed Expansion
Grand Blanc, Michigan
Project No. 242413130**

Photo: 23

Description:

View of K-HA-21.



Photo: 24

Description:

View of K-HA-22.



**Photographic Documentation
Kroger Store D-409 Proposed Expansion
Grand Blanc, Michigan
Project No. 242413130**

Photo: 25

Description:

View Tenant Suite No.
801-GNC from south.



Photo: 26

Description:

View of interior of Suite
No. 801.



**Photographic Documentation
Kroger Store D-409 Proposed Expansion
Grand Blanc, Michigan
Project No. 242413130**

Photo: 27

Description:

View of 745-HA-1.

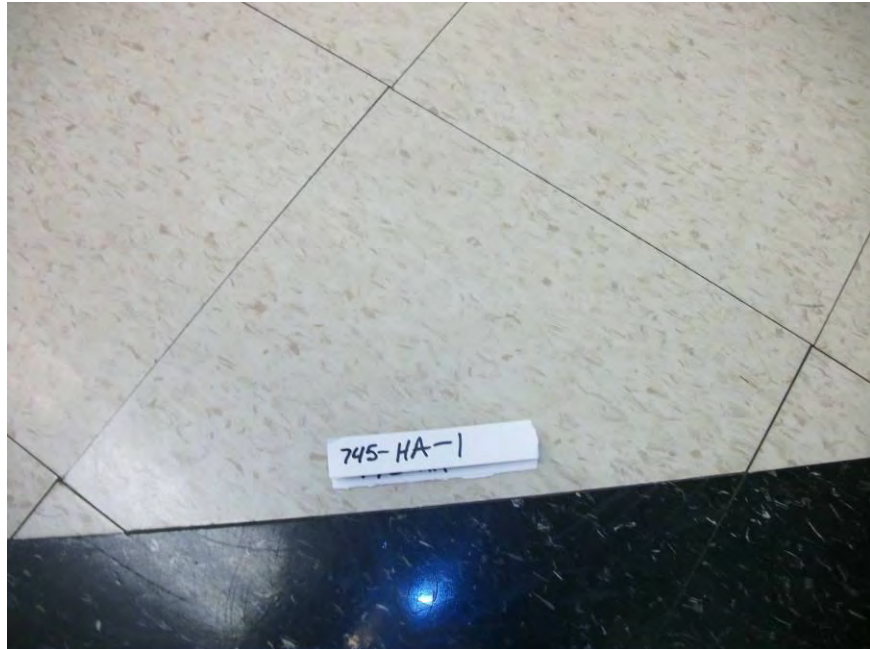


Photo: 28

Description:

View of 745-HA-2.



**Photographic Documentation
Kroger Store D-409 Proposed Expansion
Grand Blanc, Michigan
Project No. 242413130**

Photo: 29

Description:

View of 745-HA-3.

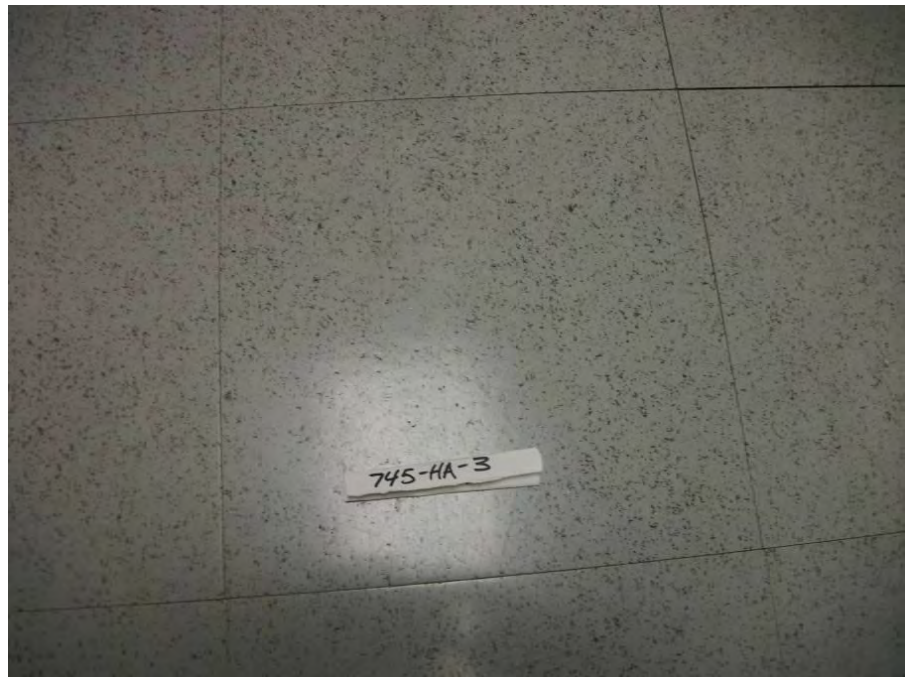
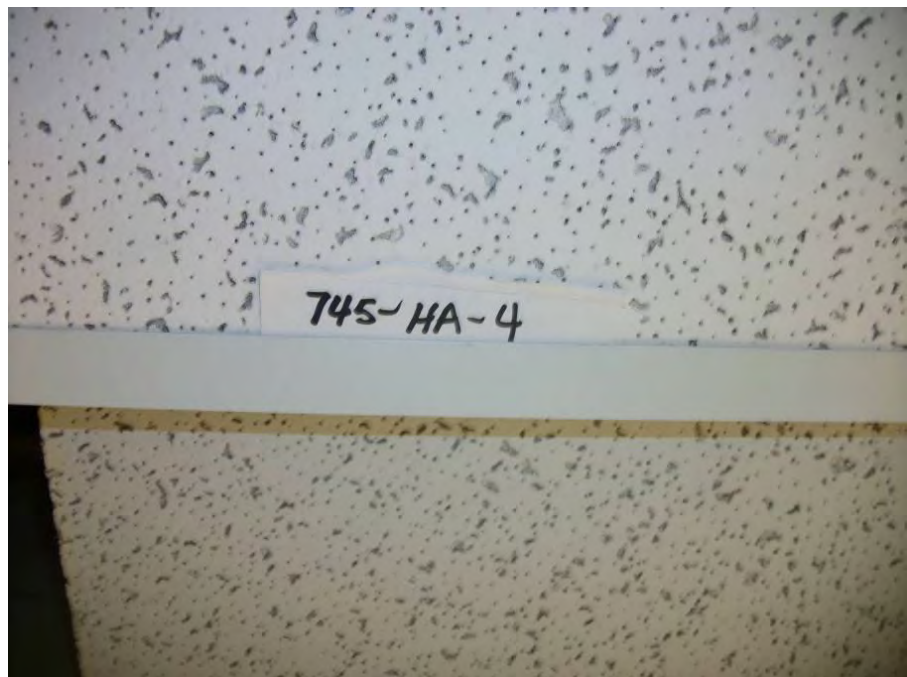


Photo: 30

Description:

View of 745-HA-4.



**Photographic Documentation
Kroger Store D-409 Proposed Expansion
Grand Blanc, Michigan
Project No. 242413130**

Photo: 31

Description:

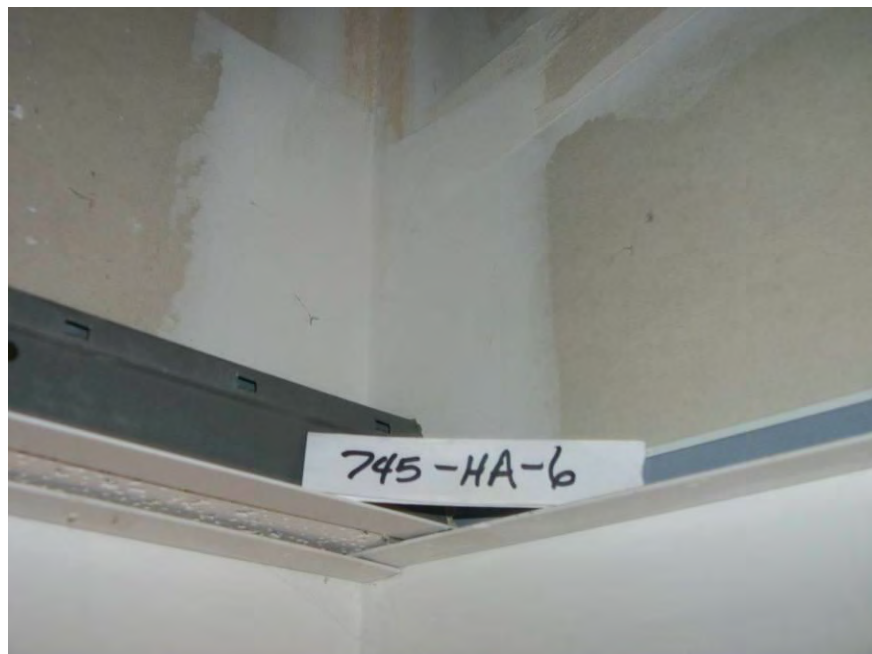
View of 745-HA-5.



Photo: 32

Description:

View of 745-HA-6.



**Photographic Documentation
Kroger Store D-409 Proposed Expansion
Grand Blanc, Michigan
Project No. 242413130**

Photo: 33

Description:

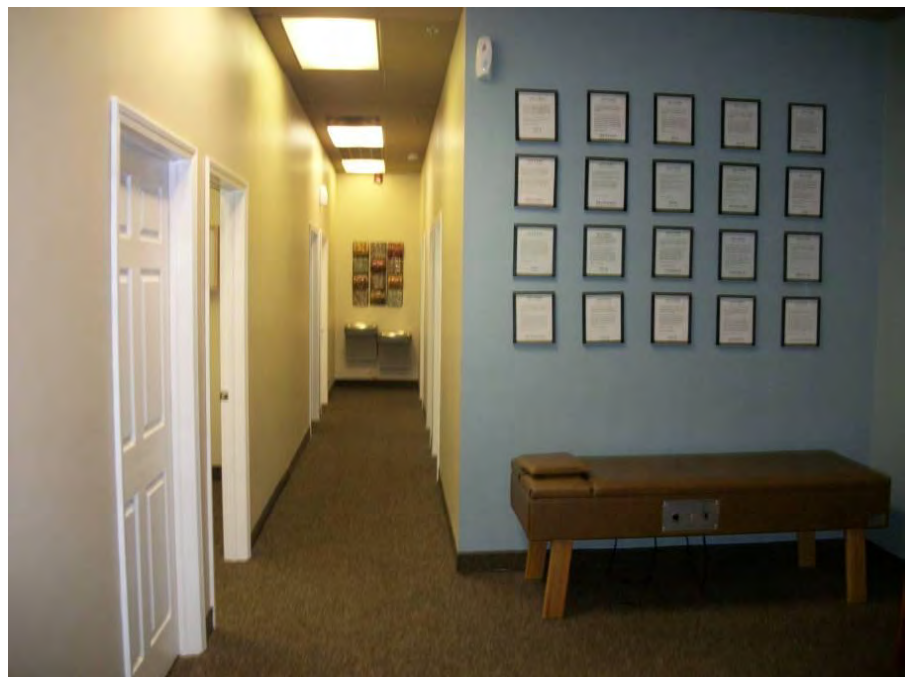
View of 745-HA-7.



Photo: 34

Description:

View of interior of Suite
No. 802 – Devary
Chiropractic.



**Photographic Documentation
Kroger Store D-409 Proposed Expansion
Grand Blanc, Michigan
Project No. 242413130**

Photo: 36

Description:

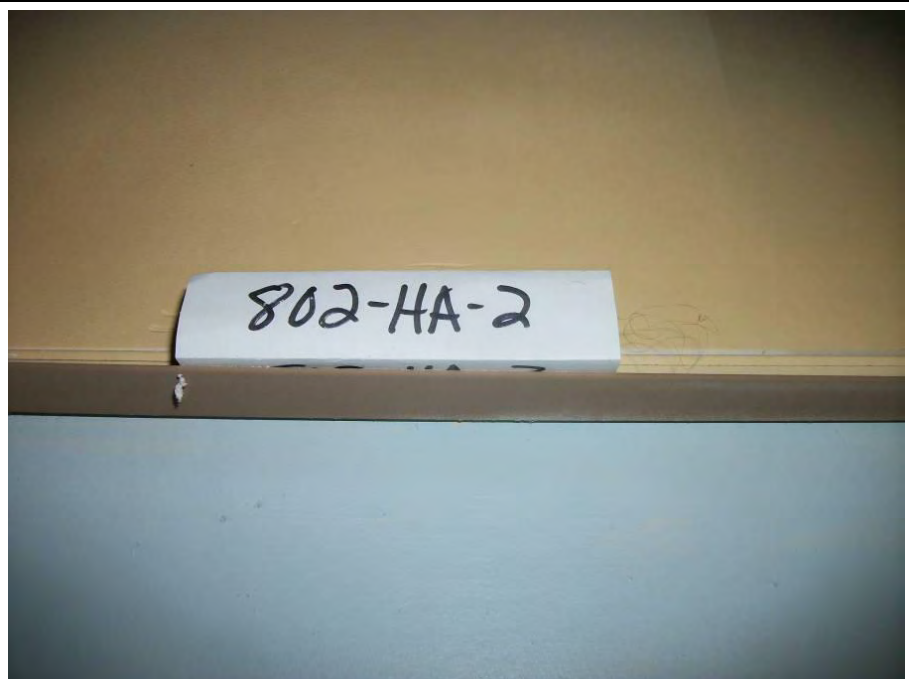
View of 802-HA-1.



Photo: 36

Description:

View of 802-HA-2.



**Photographic Documentation
Kroger Store D-409 Proposed Expansion
Grand Blanc, Michigan
Project No. 242413130**

Photo: 37

Description:

View of 802-HA-3.

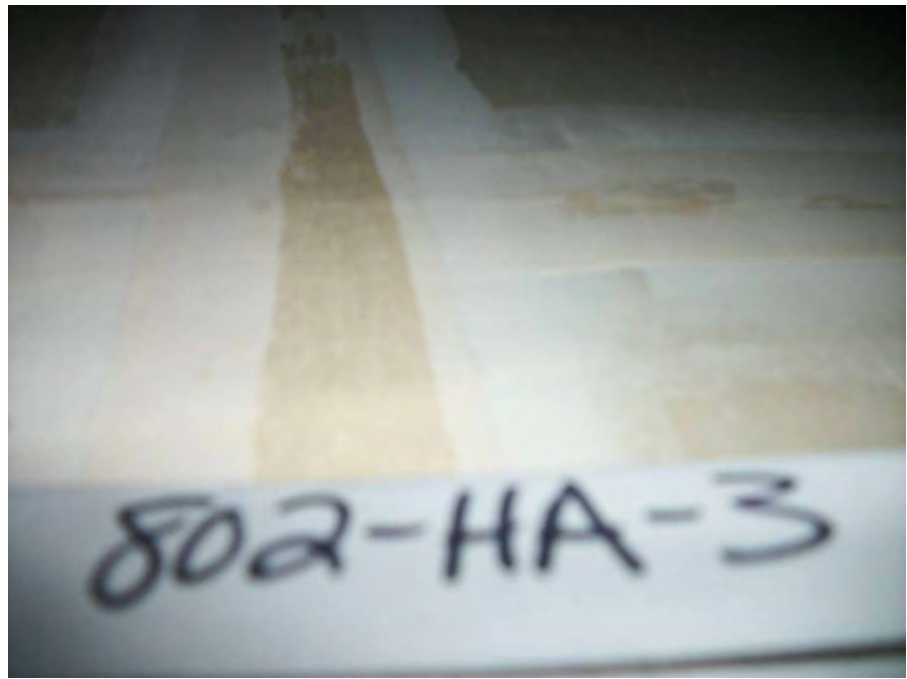


Photo: 38

Description:

View of vacant Tenant
Suite No. 803 from
south.



**Photographic Documentation
Kroger Store D-409 Proposed Expansion
Grand Blanc, Michigan
Project No. 242413130**

Photo: 39

Description:

View of interior of
Tenant Suite No. 803.



Photo: 40

Description:

View of 803-HA-1.



**Photographic Documentation
Kroger Store D-409 Proposed Expansion
Grand Blanc, Michigan
Project No. 242413130**

Photo: 41

Description:

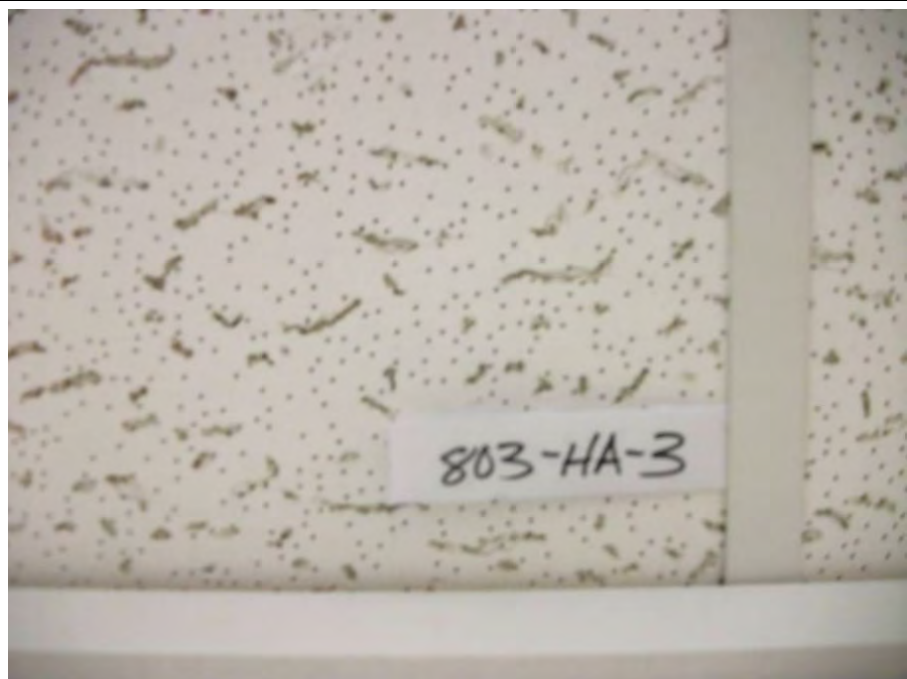
View of 803-HA-2.



Photo: 42

Description:

View of K-HA-22.



**Photographic Documentation
Kroger Store D-409 Proposed Expansion
Grand Blanc, Michigan
Project No. 242413130**

Photo: 43

Description:

View of 803-HA-4.

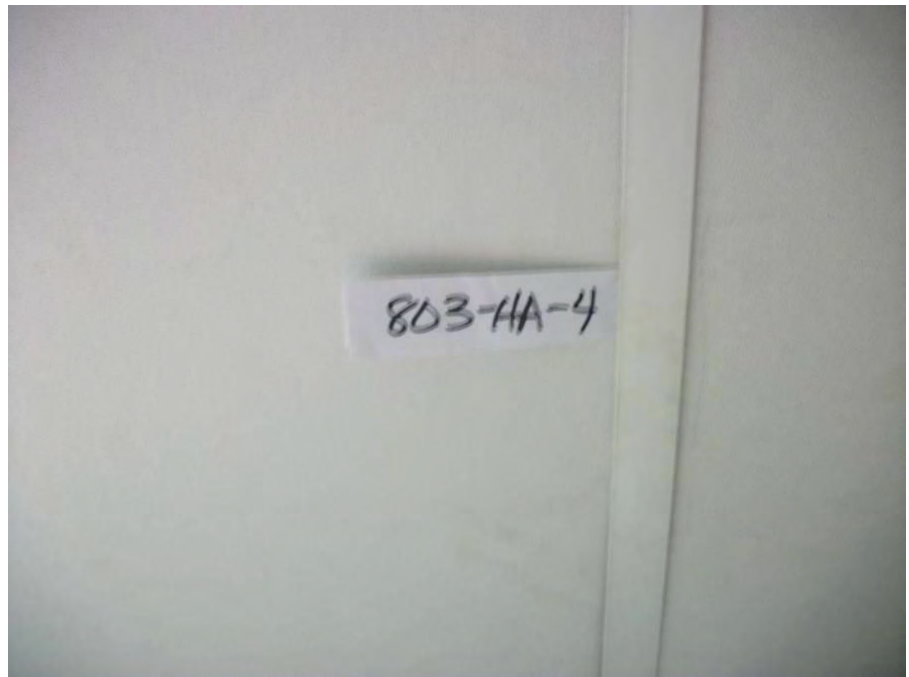


Photo: 44

Description:

View of 803-HA-5.



**Photographic Documentation
Kroger Store D-409 Proposed Expansion
Grand Blanc, Michigan
Project No. 242413130**

Photo: 45

Description:

View of 803-HA-6.

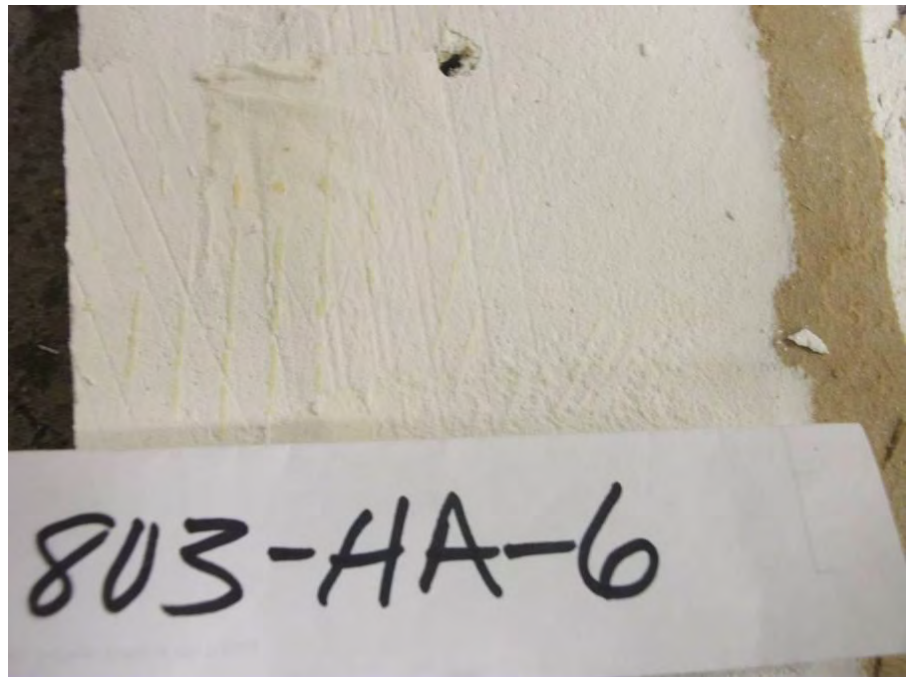
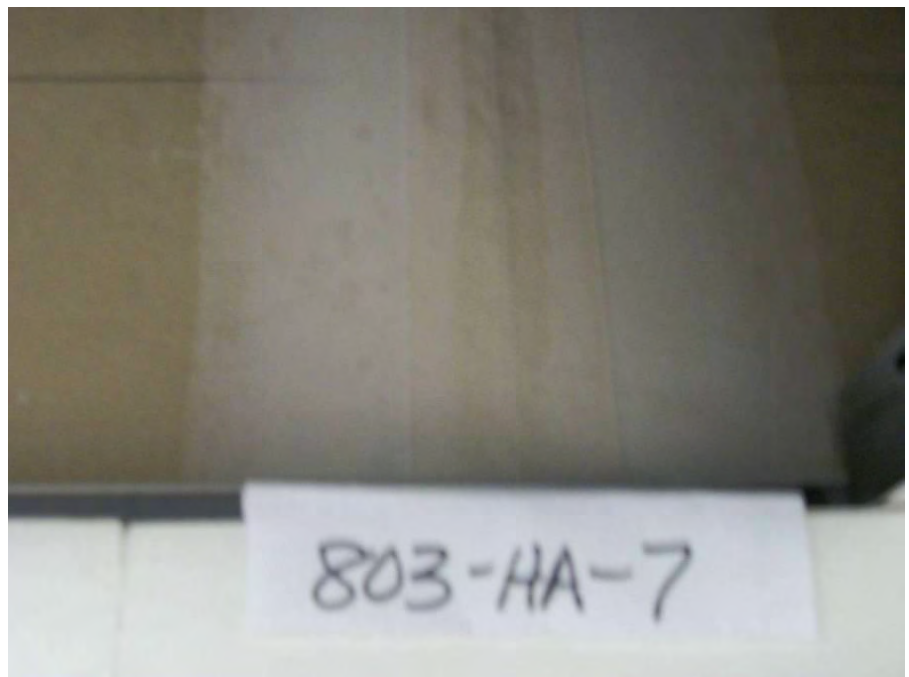


Photo: 46

Description:

View of 803-HA-7.



**Photographic Documentation
Kroger Store D-409 Proposed Expansion
Grand Blanc, Michigan
Project No. 242413130**

Photo: 47

Description:

View of 803-HA-8.



Photo: 48

Description:

View of 803-HA-9.



**Photographic Documentation
Kroger Store D-409 Proposed Expansion
Grand Blanc, Michigan
Project No. 242413130**

Photo: 49

Description:

View Tenant Suite No.
804 – In the Rough
Jewelers from south.



Photo: 50

Description:

View of interior of Suite
No 804.



**Photographic Documentation
Kroger Store D-409 Proposed Expansion
Grand Blanc, Michigan
Project No. 242413130**

Photo: 51

Description:

View of 804-HA-1.



Photo: 52

Description:

View of 804-HA-2.



**Photographic Documentation
Kroger Store D-409 Proposed Expansion
Grand Blanc, Michigan
Project No. 242413130**

Photo: 53

Description:

View of 804-HA-3.



Photo: 54

Description:

View of 804-HA-4.



**Photographic Documentation
Kroger Store D-409 Proposed Expansion
Grand Blanc, Michigan
Project No. 242413130**

Photo: 55

Description:

View of 804-HA-5.

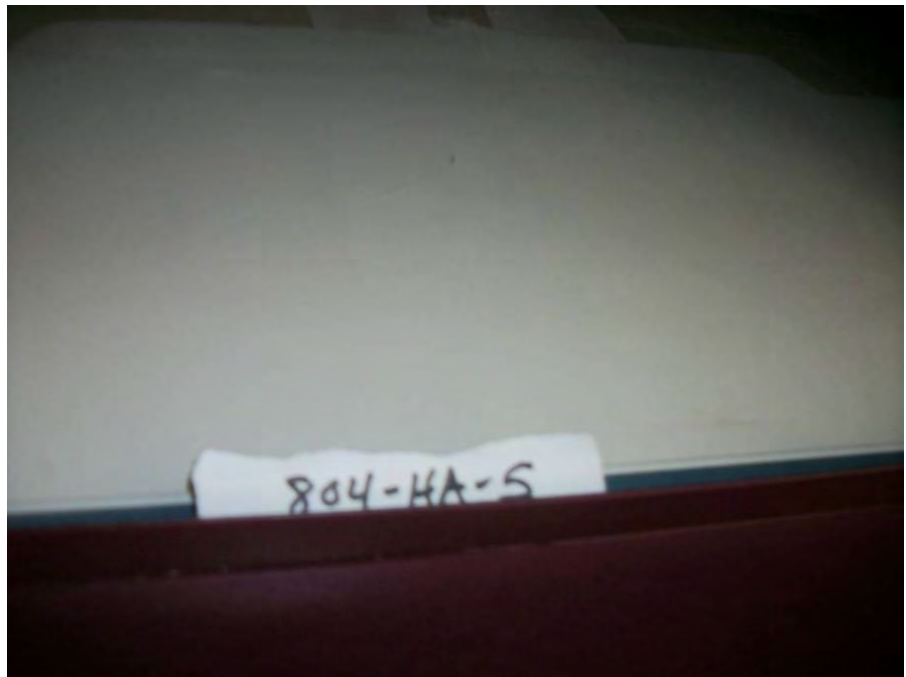


Photo: 56

Description:

View of 804-HA-6.



**Photographic Documentation
Kroger Store D-409 Proposed Expansion
Grand Blanc, Michigan
Project No. 242413130**

Photo: 57

Description:

View Tenant Suite No.
805 - Le Grand Bistro
from south.



Photo: 58

Description:

View of interior of Suite
No. 805.



**Photographic Documentation
Kroger Store D-409 Proposed Expansion
Grand Blanc, Michigan
Project No. 242413130**

Photo: 59

Description:

View of 805-HA-1.

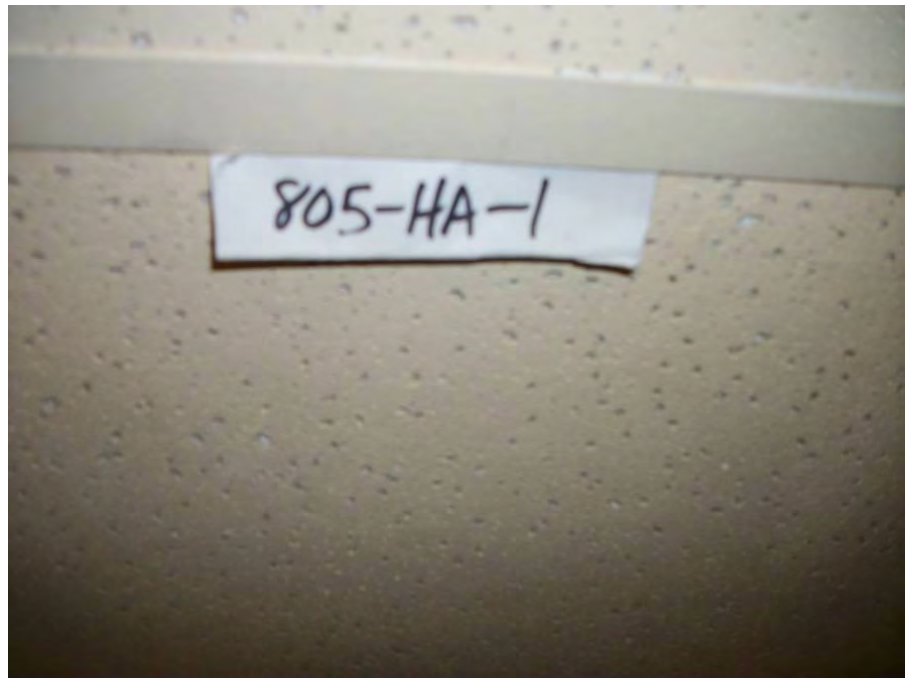
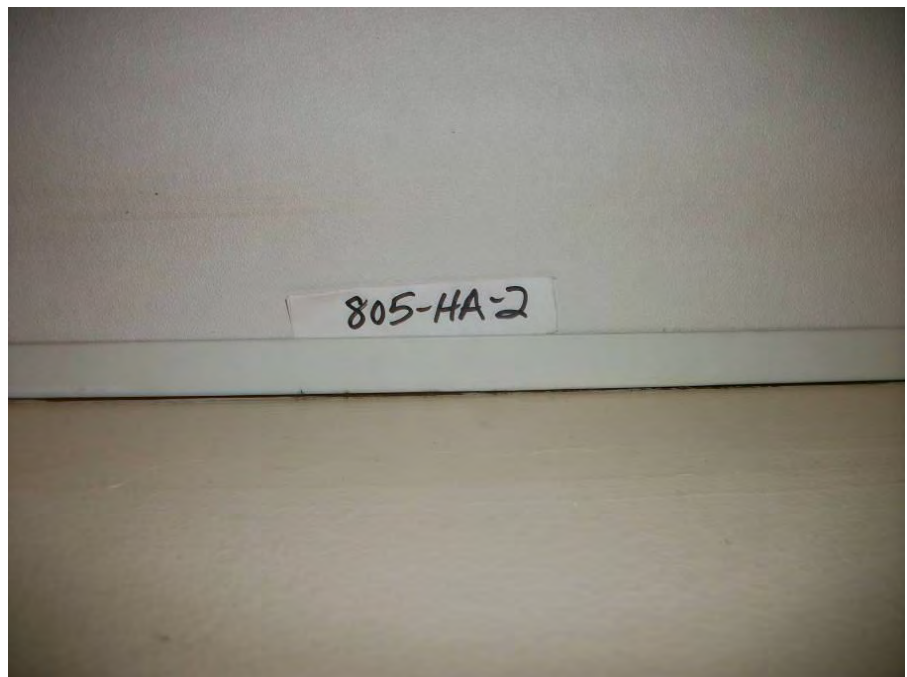


Photo: 60

Description:

View of 805-HA-2.



**Photographic Documentation
Kroger Store D-409 Proposed Expansion
Grand Blanc, Michigan
Project No. 242413130**

Photo: 61

Description:

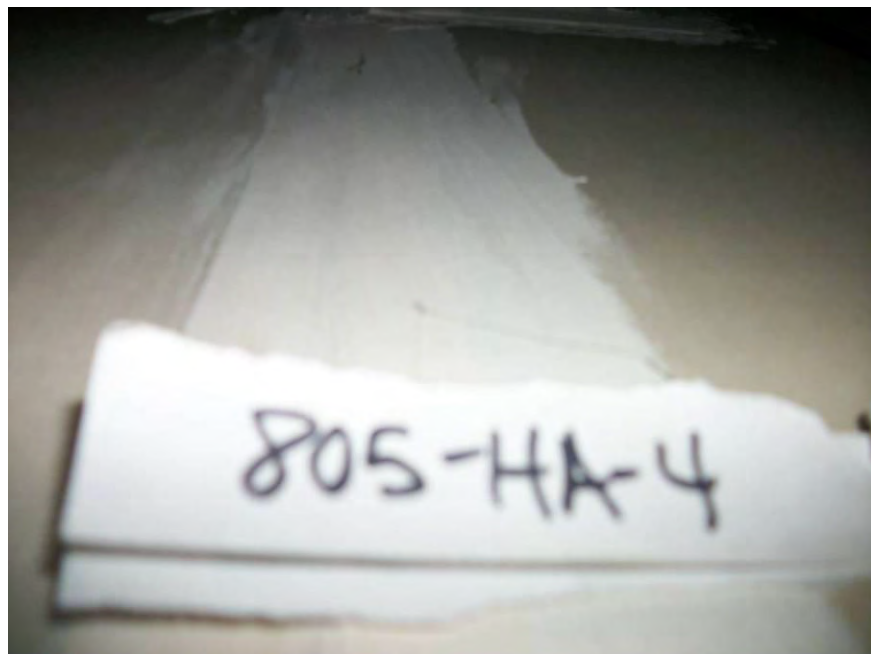
View of 805-HA-3.



Photo: 62

Description:

View of 805-HA-4.



**Photographic Documentation
Kroger Store D-409 Proposed Expansion
Grand Blanc, Michigan
Project No. 242413130**

Photo: 63

Description:

View of 805-HA-5.

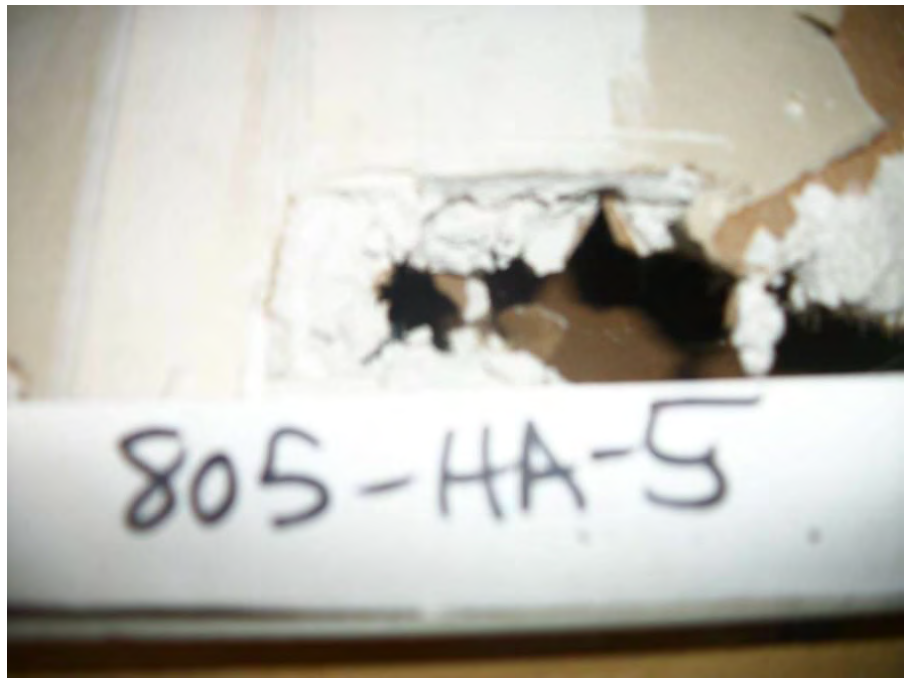


Photo: 64

Description:

View of 805-HA-6.



**Photographic Documentation
Kroger Store D-409 Proposed Expansion
Grand Blanc, Michigan
Project No. 242413130**

Photo: 65

Description:

View Tenant Suite No. 806 - \$2.99 Cleaners from south.



Photo: 66

Description:

View of interior of Tenant Suite No. 806.



**Photographic Documentation
Kroger Store D-409 Proposed Expansion
Grand Blanc, Michigan
Project No. 242413130**

Photo: 67

Description:

View of 806-HA-1.

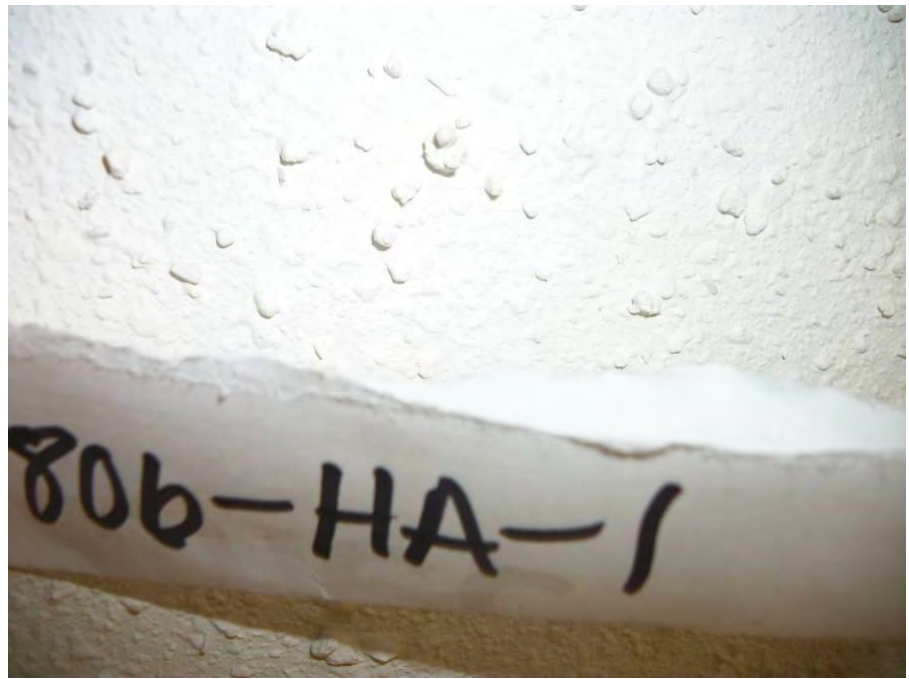
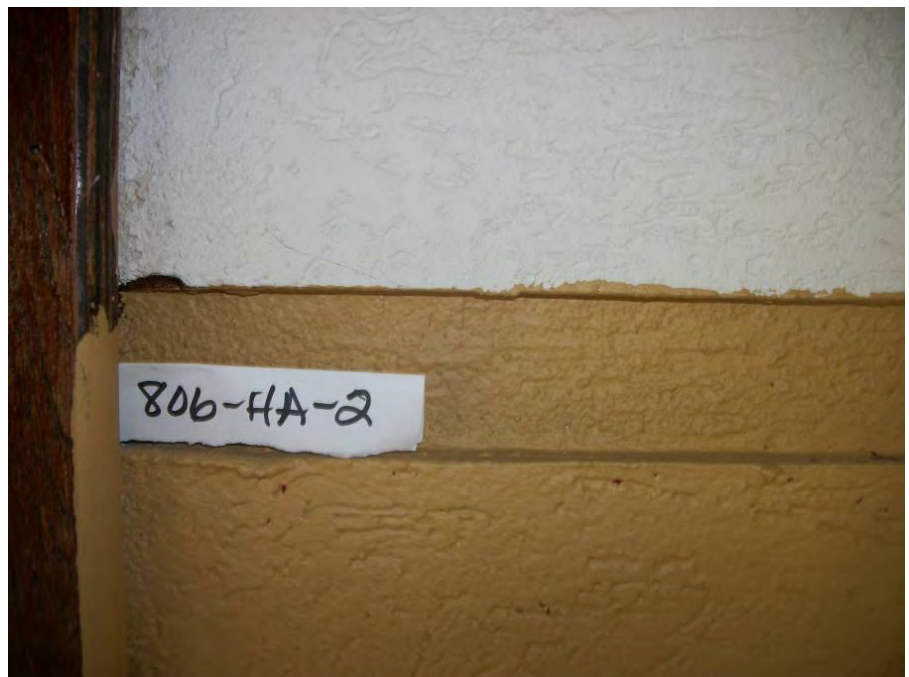


Photo: 68

Description:

View of 806-HA-2.



**Photographic Documentation
Kroger Store D-409 Proposed Expansion
Grand Blanc, Michigan
Project No. 242413130**

Photo: 69

Description:

View of 806-HA-3.



Photo: 70

Description:

View of Tenant Suite
No. 807 – The UPS
Store from south.



**Photographic Documentation
Kroger Store D-409 Proposed Expansion
Grand Blanc, Michigan
Project No. 242413130**

Photo: 71

Description:

View of interior of
Tenant Suite No. 807.



Photo: 72

Description:

View of 807-HA-1.



**Photographic Documentation
Kroger Store D-409 Proposed Expansion
Grand Blanc, Michigan
Project No. 242413130**

Photo: 73

Description:

View of 807-HA-2.



Photo: 74

Description:

View of 807-HA-3.



**Photographic Documentation
Kroger Store D-409 Proposed Expansion
Grand Blanc, Michigan
Project No. 242413130**

Photo: 75

Description:

View of 807-HA-4.

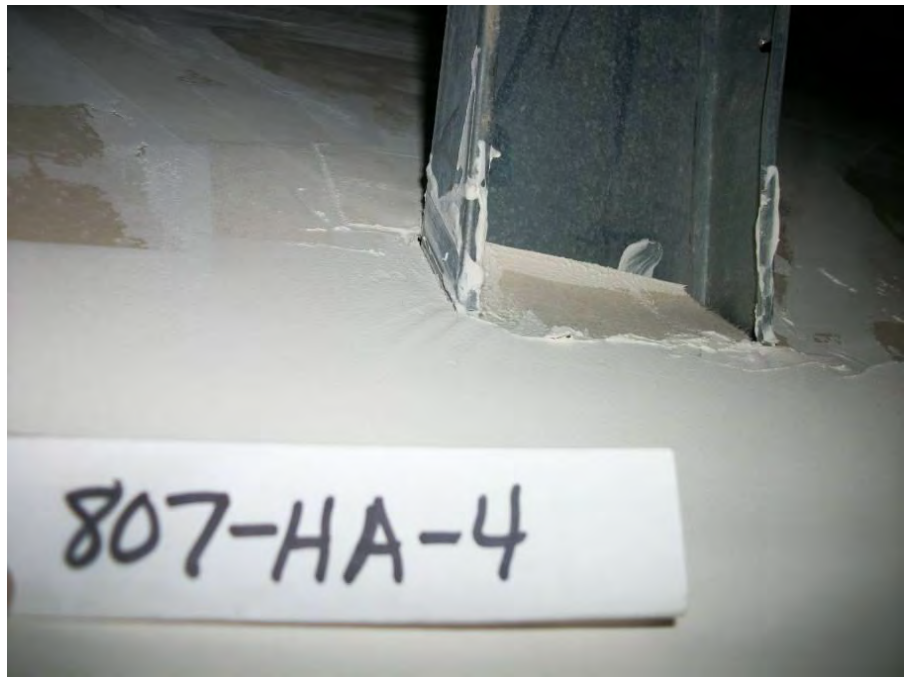


Photo: 76

Description:

View of 807-HA-5.



**Photographic Documentation
Kroger Store D-409 Proposed Expansion
Grand Blanc, Michigan
Project No. 242413130**

Photo: 77

Description:

View of 807-HA-6.

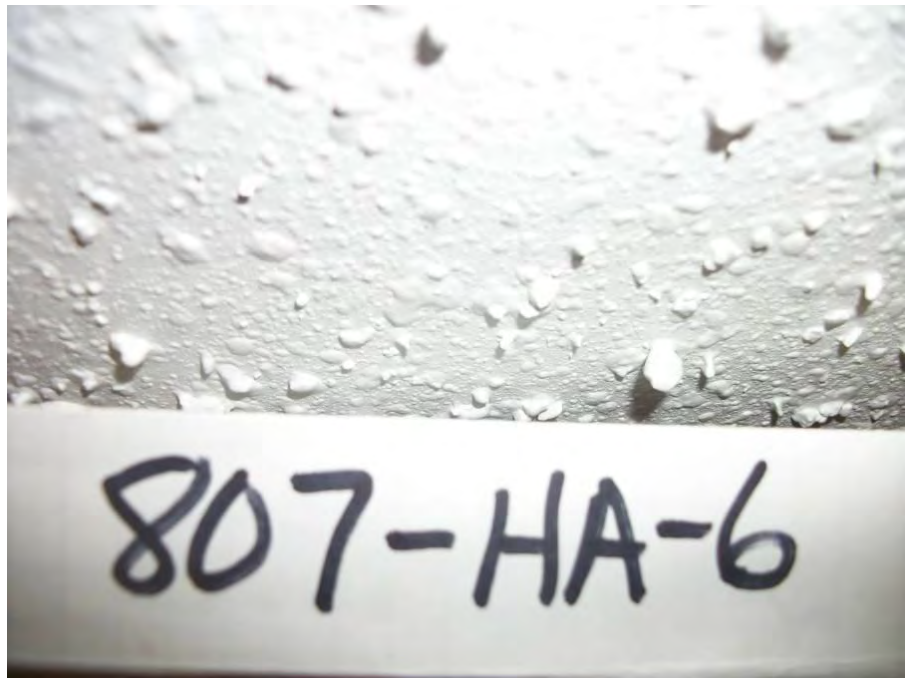


Photo: 78

Description:

View of 807-HA-7.



**Photographic Documentation
Kroger Store D-409 Proposed Expansion
Grand Blanc, Michigan
Project No. 242413130**

Photo: 79

Description:

View of 807-HA-8.



Photo: 80

Description:

View of T-HA-1.



**Photographic Documentation
Kroger Store D-409 Proposed Expansion
Grand Blanc, Michigan
Project No. 242413130**

Photo: 81

Description:

View of T-HA-2, T-HA-3, and T-HA-4.

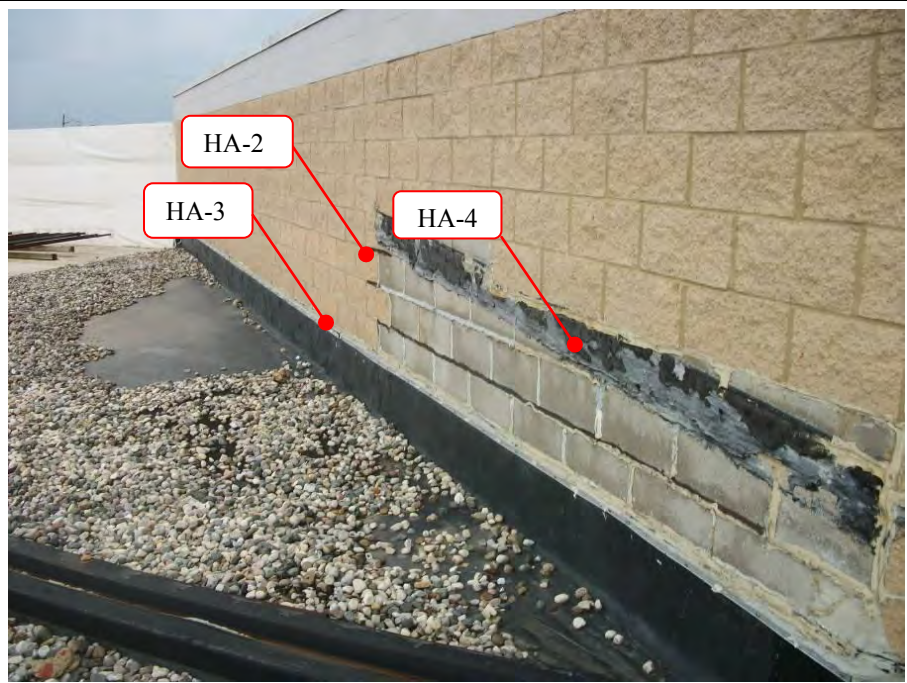


Photo: 82

Description:

View of T-HA-5.



APPENDIX B
Asbestos Sample Summary



ASBESTOS SAMPLE SUMMARY Kroger Store D-409 Proposed Expansion 12731 South Saginaw Road Grand Blanc, Michigan AMEC Project No. 242413130			
HA	Sample No.	Description	Sample Location
Kroger Store D-409			
1	K-HA-1-1	12"x12" Tan with Multi-Flecks Floor Tile and Mastic	Retail (Produce)
	K-HA-1-2		Retail (Produce)
	K-HA-1-3		Retail (Produce)
2	K-HA-2-1	12"x12" Gray with Multi-Flecks Floor Tile and Mastic	Retail (Produce)
	K-HA-2-2		Retail (Produce)
	K-HA-2-3		Retail (Produce)
3	K-HA-3-1	12"x12" Black with Multi-Flecks Floor Tile and Mastic	Retail (Produce)
	K-HA-3-2		Retail (Produce)
	K-HA-3-3		Retail (Produce)
4	K-HA-4-1	12"x12" Brown with Multi-Flecks Floor Tile and Mastic	Retail (Produce)
	K-HA-4-2		Retail (Produce)
	K-HA-4-3		Retail (Produce)
5	K-HA-5-1	12"x12" Tan with Flecks Floor Tile and Mastic	Retail (Seafood)
	K-HA-5-2		Retail (Dairy)
	K-HA-5-3		Retail Near Office
6	K-HA-6-1	12"x12" Light Green with Flecks Floor Tile and Mastic	Retail (Seafood)
	K-HA-6-2		Retail (Dairy)
	K-HA-6-3		Retail Near Office
7	K-HA-7-1	12"x12" Brown with Flecks Floor Tile and Mastic	Retail (Checkout)
	K-HA-7-2		Retail (Deli)
	K-HA-7-3		Retail (Frozen)
8	K-HA-8-1	12"x12" Dark Green with Flecks Floor Tile and Mastic	Retail (Checkout)
	K-HA-8-2		Retail (Deli)
	K-HA-8-3		Retail (Frozen)
9	K-HA-9-1	12"x12" White with Flecks Floor Tile and Mastic	Mezzanine Office
	K-HA-9-2		Mezzanine Office
	K-HA-9-3		Mezzanine Office
10	K-HA-10-1	2'x2' White with Small Crevices Ceiling Tile	Cart Vestibule
	K-HA-10-2		Employee Break Room
	K-HA-10-3		Office (2 nd Floor)
11	K-HA-11-1	2'x2' White with Medium Ceiling Tile	Bottle Return Area
	K-HA-11-2		Cart Vestibule
	K-HA-11-3		Cart Vestibule
12	K-HA-12-1	2'x4' White Smooth Ceiling Tile (drywall)	Deli Area
	K-HA-12-2		Bakery Area
	K-HA-12-3		Bakery Area
13	K-HA-13-1	2'x4' White with Small Crevices Ceiling Tile	Pharmacy
	K-HA-13-2		Pharmacy
	K-HA-13-3		Pharmacy
14	K-HA-14-1	Gray Vinyl Baseboard and Mastic	Retail (Produce)
	K-HA-14-2		Retail (Dairy)
	K-HA-14-3		Retail (Cooler)



ASBESTOS SAMPLE SUMMARY Kroger Store D-409 Proposed Expansion 12731 South Saginaw Road Grand Blanc, Michigan AMEC Project No. 242413130			
HA	Sample No.	Description	Sample Location
15	K-HA-15-1	Dark Brown Vinyl Baseboard and Mastic	Employee Breakroom
	K-HA-15-2		Employee Breakroom
	K-HA-15-3		Employee Breakroom
16	K-HA-16-1	Thermal System Insulation Tape	Above Public Restrooms
	K-HA-16-2		Above Hallway Public Restrooms
	K-HA-16-3		Above Hallway Public Restrooms
17	K-HA-17-1	Drywall/Joint Compound (interior)	Office (2 nd Floor)
	K-HA-17-2		Backroom
	K-HA-17-3		Hallway Public Restrooms
18	K-HA-18-1	Drywall/Joint Compound (perimeter)	Cart Vestibule
	K-HA-18-2		Cart Vestibule
	K-HA-18-3		Cart Vestibule
19	K-HA-19-1	Exterior Window Caulk	Cart Vestibule Exterior Wall
	K-HA-19-2		Cart Vestibule Exterior Wall
	K-HA-19-3		Cart Vestibule Exterior Wall
20	K-HA-20-1	Exterior Expansion Joint Caulk	West Exterior Wall
	K-HA-20-2		West Exterior Wall
	K-HA-20-3		West Exterior Wall
21	K-HA-21-1	Roofing System (EPDM)	North Upper Roof
	K-HA-21-2		South Upper Roof
22	K-HA-22-1	Exterior Finish Insulating System (EFIS)	Roof Above Cart Vestibule
	K-HA-22-2		Roof Above Cart Vestibule
	K-HA-22-3		Roof Above Cart Vestibule

GNC - Tenant Suite No. 801

23	745-HA-1-1	12"x12" White with Flecks Floor Tile and Mastic	Retail Area
	745-HA-1-2		Retail Area
	745-HA-1-3		Retail Area
24	745-HA-2-1	12"x12" Black with Flecks Floor Tile and Mastic	Retail Area
	745-HA-2-2		Retail Area
	745-HA-2-3		Retail Area
25	745-HA-3-1	12"x12" Blue with Dots Floor Tile and Mastic	Restroom
	745-HA-3-2		Restroom
	745-HA-3-3		Restroom
26	745-HA-4-1	2'x4' White with Small Cavities Ceiling Tile	Backroom
	745-HA-4-2		Backroom
	745-HA-4-3		Retail Area
27	745-HA-5-1	Drywall/Joint Compound (interior)	Backroom
	745-HA-5-2		Backroom
	745-HA-5-3		Retail Area
28	745-HA-6-1	Drywall/Joint Compound (perimeter)	Retail Area
	745-HA-6-2		Retail Area
	745-HA-6-3		Retail Area



ASBESTOS SAMPLE SUMMARY
Kroger Store D-409 Proposed Expansion
12731 South Saginaw Road
Grand Blanc, Michigan
AMEC Project No. 242413130

HA	Sample No.	Description	Sample Location
29	745-HA-7-1	Black Vinyl Baseboard and Mastic	Backroom
	745-HA-7-2		Retail Area
	745-HA-7-3		Retail Area

Devary Chiropractic - Tenant Suite No. 802

30	802-HA-1-1	2'x4' White with Small Crevices Ceiling Tile	Main Hallway
	802-HA-1-2		Main Hallway
	802-HA-1-3		Client Room
31	802-HA-2-1	Drywall/Joint Compound (interior)	Client Room
	802-HA-2-2		Client Room
	802-HA-2-3		Client Room
32	802-HA-3-1	Drywall/Joint Compound (perimeter)	Utility Closet
	802-HA-3-2		Utility Closet
	802-HA-3-3		Utility Closet

Vacant - Tenant Suite No. 803

33	803-HA-1-1	Vinyl Floor Covering and Mastic	Back Area
	803-HA-1-2		Restroom
	803-HA-1-3		Restroom
34	803-HA-2-1	2'x4' White with Small Crevices Ceiling Tile	Office
	803-HA-2-2		Office
	803-HA-2-3		Office
35	803-HA-3-1	2'x4' White with Large Crevices Ceiling Tile	Behind Counter Area
	803-HA-3-2		Behind Counter Area
	803-HA-3-3		Behind Counter Area
36	803-HA-4-1	2'x4' White Smooth Ceiling Tile (drywall)	Back Area
	803-HA-4-2		Back Area
	803-HA-4-3		Back Area
37	803-HA-5-1	Dark Blue Vinyl Baseboard and Mastic	Main Entry
	803-HA-5-2		Behind Counter Area
	803-HA-5-3		Back Area
38	803-HA-6-1	Drywall/Joint Compound (interior)	Main Entry
	803-HA-6-2		Behind Counter Area
	803-HA-6-3		Behind Counter Area
39	803-HA-7-1	Drywall/Joint Compound (perimeter)	Main Entry
	803-HA-7-2		Main Entry
	803-HA-7-3		Main Entry
40	803-HA-8-1	Drywall (repairs)	Behind Counter Area
	803-HA-8-2		Behind Counter Area
	803-HA-8-3		Behind Counter Area
41	803-HA-9-1	Exterior Window Caulk	East Exterior Wall
	803-HA-9-2		East Exterior Wall
	803-HA-9-3		East Exterior Wall



ASBESTOS SAMPLE SUMMARY Kroger Store D-409 Proposed Expansion 12731 South Saginaw Road Grand Blanc, Michigan AMEC Project No. 242413130			
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HA	Sample No.	Description	Sample Location
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In the Rough Jewelers - Tenant Suite No. 804

42	804-HA-1-1	12"x12" Blue with Dots Floor Tile and Mastic	Restroom
	804-HA-1-2		Restroom
	804-HA-1-3		Restroom
43	804-HA-2-1	2'x4' White with Large Crevices Ceiling Tile	Restroom
	804-HA-2-2		Retail Area
	804-HA-2-3		Retail Area
44	804-HA-3-1	Red Vinyl Baseboard and Mastic	Retail Area
	804-HA-3-2		Office
	804-HA-3-3		Retail Area
45	804-HA-4-1	Gray Vinyl Baseboard and Mastic	Restroom
	804-HA-4-2		Restroom
	804-HA-4-3		Restroom
46	804-HA-5-1	Drywall/Joint Compound (interior)	Office
	804-HA-5-2		Office
	804-HA-5-3		Retail Area
47	804-HA-6-1	Drywall/Joint Compound (perimeter)	Retail Area
	804-HA-6-2		Retail Area
	804-HA-6-3		Retail Area

La Grand Bistro - Tenant Suite No. 805

48	805-HA-1-1	2'x4' White with Small Crevices Ceiling Tile	Main Entry
	805-HA-1-2		Dining Area
	805-HA-1-3		Dining Area
49	805-HA-2-1	2'x4' Black Smooth Ceiling Tile (drywall)	Kitchen Area
	805-HA-2-2		Kitchen Area
	805-HA-2-3		Kitchen Area
50	805-HA-3-1	Black Vinyl Baseboard and Mastic	Kitchen Area
	805-HA-3-2		Kitchen Area
	805-HA-3-3		Dining Area
51	805-HA-4-1	Drywall/Joint Compound (interior)	Kitchen Area
	805-HA-4-2		Kitchen Area
	805-HA-4-3		Kitchen Area
52	805-HA-5-1	Drywall/Joint Compound (perimeter)	Dining Area
	805-HA-5-2		Main Entry
	805-HA-5-3		Main Entry
53	805-HA-6-1	White Vinyl Baseboard and Mastic	Preparation Area
	805-HA-6-2		Preparation Area
	805-HA-6-3		Preparation Area

\$2.99 Cleaners - Tenant Suite No. 806

54	806-HA-1-1	Ceiling Finish Coat (rough)	Main Entry
	806-HA-1-2		Backroom
	806-HA-1-3		Backroom



ASBESTOS SAMPLE SUMMARY Kroger Store D-409 Proposed Expansion 12731 South Saginaw Road Grand Blanc, Michigan AMEC Project No. 242413130			
HA	Sample No.	Description	Sample Location
55	806-HA-2-1	Wall Finish Coat (smooth)	Main Entry
	806-HA-2-2		Main Entry
	806-HA-2-3		Backroom
56	806-HA-3-1	Drywall/Joint Compound (interior)	Backroom
	806-HA-3-2		Backroom
	806-HA-3-3		Storage Room

The UPS Store - Tenant Suite No. 807

57	807-HA-1-1	12"x12" Blue with Dots Floor Tile and Mastic	Retail Area
	807-HA-1-2		Retail Area
	807-HA-1-3		Retail Area
58	807-HA-2-1	2'x4' White with Small Crevices Ceiling Tile	Retail Area
	807-HA-2-2		Retail Area
	807-HA-2-3		Retail Area
59	807-HA-3-1	Blue Vinyl Baseboard and Mastic	Restroom
	807-HA-3-2		Restroom
	807-HA-3-3		Restroom
60	807-HA-4-1	Drywall/Joint Compound (interior)	Backroom
	807-HA-4-2		Backroom
	807-HA-4-3		Retail Area
61	807-HA-5-1	Drywall/Joint Compound (perimeter)	Retail Area
	807-HA-5-2		Retail Area
	807-HA-5-3		Back Room
62	807-HA-6-1	Ceiling Finish Coat (rough)	Back Room
	807-HA-6-2		Back Room
	807-HA-6-3		Back Room
63	807-HA-7-1	Ceiling Finish Coat (smooth)	Retail Area
	807-HA-7-2		Retail Area
	807-HA-7-3		Retail Area

Shared Roof Samples

64	T-HA-1-1	Roofing System (Dura-Last)	Suite 801
	T-HA-1-2		Suite 804
	T-HA-1-3		Suite 807
65	T-HA-2-1	Gray Roof Caulk	Kroger Store, South Center
	T-HA-2-2		Kroger Store, South Center
	T-HA-2-3		Kroger Store, South Center
66	T-HA-3-1	White Roof Caulk	Kroger Store, South Center
	T-HA-3-2		Kroger Store, South Center
	T-HA-3-3		Kroger Store, South Center
67	T-HA-4-1	Black Roof Caulk	Kroger Store, South Center
	T-HA-4-2		Kroger Store, South Center
	T-HA-4-3		Kroger Store, South Center



ASBESTOS SAMPLE SUMMARY
Kroger Store D-409 Proposed Expansion
12731 South Saginaw Road
Grand Blanc, Michigan
AMEC Project No. 242413130

HA	Sample No.	Description	Sample Location
68	T-HA-5-1	Roofing System (EPDM)	Kroger Store, South Center
	T-HA-5-2		Kroger Store, North Center
	T-HA-5-3		Kroger Store East Center



APPENDIX C
Laboratory Reports



2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

AMEC NOVI, MI
Doug Saigh
46850 Magellan Drive Ste 190
Novi, Michigan 48377

Re: Quantem ID 228100

Quantem appreciates the opportunity to provide analytical testing services to you. Attached are your reports and other supporting documentation for the above referenced project.

Thank you for making Quantem your lab of choice. If you have any question concerning this or other reports please feel free to contact us at 800-822-1650.

We continually work to improve our service. Help us out by providing feed back on your experience at www.QuanTEM.com. Click on Service Survey and fill out the form. We look forward to hearing from you.

Respectfully,
Quantem Laboratories, LLC.





2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Polarized Light Microscopy Asbestos Analysis Report

Quantem Lab No.	228100	Client:	AMEC NOVI, MI
Account Number:	B894		Doug Saigh
Date Received:	10/15/2013		46850 Magellan Drive Ste 190
Received By:	Joanna Mueller		Novi, Michigan 48377
Date Analyzed:	10/17/2013	Project:	Kroger D-409
Analyzed By:	Gayle Ooten	Project Location:	Grand Blanc, MI
Methodology:	EPA/600/R-93/116	Project Number:	242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
001	K-HA-1-1	Layered	Tan Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
001a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
002	K-HA-1-2	Layered	Tan Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
002a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
003	K-HA-1-3	Layered	Tan Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
003a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
004	K-HA-2-1	Layered	Gray Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3

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Polarized Light Microscopy Asbestos Analysis Report

Quantem Lab No. 228100

Account Number: B894

Date Received: 10/15/2013

Received By: Joanna Mueller

Date Analyzed: 10/17/2013

Analyzed By: Gayle Ooten

Methodology: EPA/600/R-93/116

Client: AMEC NOVI, MI

Doug Saigh

46850 Magellan Drive Ste 190

Novi, Michigan 48377

Project: Kroger D-409

Project Location: Grand Blanc, MI

Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
004a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
005	K-HA-2-2	Layered	Gray Floor Tile	Asbestos Not Present	NA	Vinyl CaCO ₃
005a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
006	K-HA-2-3	Layered	Gray Floor Tile	Asbestos Not Present	NA	Vinyl CaCO ₃
006a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
007	K-HA-3-1	Layered	Black Floor Tile	Asbestos Not Present	NA	Vinyl CaCO ₃
007a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue

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Client: AMEC NOVI, MI

Doug Saigh

46850 Magellan Drive Ste 190

Novi, Michigan 48377

Project: Kroger D-409

Project Location: Grand Blanc, MI

Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
008	K-HA-3-2	Layered	Black Floor Tile	Asbestos Not Present	NA	Vinyl CaCO ₃
008a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
009	K-HA-3-3	Layered	Black Floor Tile	Asbestos Not Present	NA	Vinyl CaCO ₃
009a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
010	K-HA-4-1	Layered	Brown Floor Tile	Asbestos Not Present	NA	Vinyl CaCO ₃
010a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
011	K-HA-4-2	Layered	Brown Floor Tile	Asbestos Not Present	NA	Vinyl CaCO ₃

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Methodology: EPA/600/R-93/116

Client: AMEC NOVI, MI

Doug Saigh

46850 Magellan Drive Ste 190

Novi, Michigan 48377

Project: Kroger D-409

Project Location: Grand Blanc, MI

Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
011a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
012	K-HA-4-3	Layered	Brown Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
012a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
013	K-HA-5-1	Layered	Beige Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
013a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
014	K-HA-5-2	Layered	Beige Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
014a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue

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Methodology: EPA/600/R-93/116

Client: AMEC NOVI, MI

Doug Saigh

46850 Magellan Drive Ste 190

Novi, Michigan 48377

Project: Kroger D-409

Project Location: Grand Blanc, MI

Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
015	K-HA-5-3	Layered	Beige Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
016	K-HA-6-1	Layered	Gray Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
016a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
017	K-HA-6-2	Layered	Gray Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
017a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
018	K-HA-6-3	Layered	Gray Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
018a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue

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Polarized Light Microscopy Asbestos Analysis Report

Quantem Lab No. 228100	Client: AMEC NOVI, MI
Account Number: B894	Doug Saigh
Date Received: 10/15/2013	46850 Magellan Drive Ste 190
Received By: Joanna Mueller	Novi, Michigan 48377
Date Analyzed: 10/17/2013	Project: Kroger D-409
Analyzed By: Gayle Ooten	Project Location: Grand Blanc, MI
Methodology: EPA/600/R-93/116	Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
019	K-HA-7-1	Layered	Brown Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
019a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
020	K-HA-7-2	Layered	Brown Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
020a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
021	K-HA-7-3	Layered	Brown Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
021a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
022	K-HA-8-1	Layered	Gray Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3

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Methodology: EPA/600/R-93/116

Client: AMEC NOVI, MI

Doug Saigh

46850 Magellan Drive Ste 190

Novi, Michigan 48377

Project: Kroger D-409

Project Location: Grand Blanc, MI

Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
022a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
023	K-HA-8-2	Layered	Gray Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
023a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
024	K-HA-8-3	Layered	Gray Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
024a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
025	K-HA-9-1	Layered	Beige Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
025a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue

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Received By: Joanna Mueller

Date Analyzed: 10/17/2013

Analyzed By: Gayle Ooten

Methodology: EPA/600/R-93/116

Client: AMEC NOVI, MI

Doug Saigh

46850 Magellan Drive Ste 190

Novi, Michigan 48377

Project: Kroger D-409

Project Location: Grand Blanc, MI

Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
026	K-HA-9-2	Layered	Beige Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
026a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
027	K-HA-9-3	Layered	Gray Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
027a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
028	K-HA-10-1	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 30 Glass Fiber 30	Paint Perlite
029	K-HA-10-2	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 30 Glass Fiber 30	Paint Perlite
030	K-HA-10-3	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 30 Glass Fiber 30	Paint Perlite

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Methodology: EPA/600/R-93/116

Client: AMEC NOVI, MI

Doug Saigh

46850 Magellan Drive Ste 190

Novi, Michigan 48377

Project: Kroger D-409

Project Location: Grand Blanc, MI

Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
031	K-HA-11-1	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 30 Glass Fiber 30	Paint Perlite
032	K-HA-11-2	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 30 Glass Fiber 30	Paint Perlite
033	K-HA-11-3	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 30 Glass Fiber 30	Paint Perlite
034	K-HA-12-1	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 25	Gypsum Vinyl
035	K-HA-12-2	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 25	Gypsum Vinyl
036	K-HA-12-3	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 25	Gypsum Vinyl
037	K-HA-13-1	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 30 Glass Fiber 30	Paint Perlite

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Polarized Light Microscopy Asbestos Analysis Report

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Account Number: B894	Doug Saigh
Date Received: 10/15/2013	46850 Magellan Drive Ste 190
Received By: Joanna Mueller	Novi, Michigan 48377
Date Analyzed: 10/17/2013	Project: Kroger D-409
Analyzed By: Gayle Ooten	Project Location: Grand Blanc, MI
Methodology: EPA/600/R-93/116	Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
038	K-HA-13-2	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 30 Glass Fiber 30	Paint Perlite
039	K-HA-13-3	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 30 Glass Fiber 30	Paint Perlite
040	K-HA-14-1	Layered	Gray Cove Base	Asbestos Not Present	NA	CaCO3 Binder
040a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
041	K-HA-14-2	Layered	Gray Cove Base	Asbestos Not Present	NA	CaCO3 Binder
041a		Layered	Yellow Cove Base Mastic	Asbestos Not Present	NA	Glue
042	K-HA-14-3	Layered	Gray Cove Base	Asbestos Not Present	NA	CaCO3 Binder

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Methodology: EPA/600/R-93/116

Client: AMEC NOVI, MI

Doug Saigh

46850 Magellan Drive Ste 190

Novi, Michigan 48377

Project: Kroger D-409

Project Location: Grand Blanc, MI

Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
042a		Layered	Yellow Cove Base Mastic	Asbestos Not Present	NA	Glue
043	K-HA-15-1	Layered	Brown Cove Base	Asbestos Not Present	NA	CaCO3 Binder
043a		Layered	Cream Cove Base Mastic	Asbestos Not Present	NA	Glue
044	K-HA-15-2	Layered	Brown Cove Base	Asbestos Not Present	NA	CaCO3 Binder
044a		Layered	Cream Cove Base Mastic	Asbestos Not Present	NA	Glue
045	K-HA-15-3	Layered	Brown Cove Base	Asbestos Not Present	NA	CaCO3 Binder
045a		Layered	Yellow Cove Base Mastic	Asbestos Not Present	NA	Glue

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Polarized Light Microscopy Asbestos Analysis Report

Quantem Lab No.	228100	Client:	AMEC NOVI, MI
Account Number:	B894		Doug Saigh
Date Received:	10/15/2013		46850 Magellan Drive Ste 190
Received By:	Joanna Mueller		Novi, Michigan 48377
Date Analyzed:	10/17/2013	Project:	Kroger D-409
Analyzed By:	Gayle Ooten	Project Location:	Grand Blanc, MI
Methodology:	EPA/600/R-93/116	Project Number:	242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
046	K-HA-16-1	Layered	White Pipe Wrap	Asbestos Not Present	Cellulose 60	Foil
046a		Layered	Yellow Insulation	Asbestos Not Present	Glass Fiber 99	Binder
047	K-HA-16-2	Homogeneous	White Pipe Wrap	Asbestos Not Present	Cellulose 60	Foil
048	K-HA-16-3	Homogeneous	White Pipe Wrap	Asbestos Not Present	Cellulose 60	Foil
049	K-HA-17-1	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3
049a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum
050	K-HA-17-2	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3

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Methodology: EPA/600/R-93/116

Client: AMEC NOVI, MI

Doug Saigh

46850 Magellan Drive Ste 190

Novi, Michigan 48377

Project: Kroger D-409

Project Location: Grand Blanc, MI

Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
050a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum
051	K-HA-17-3	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3
051a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum
052	K-HA-18-1	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3
052a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum
053	K-HA-18-2	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3
053a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum

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Doug Saigh

46850 Magellan Drive Ste 190

Novi, Michigan 48377

Project: Kroger D-409

Project Location: Grand Blanc, MI

Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
054	K-HA-18-3	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3
054a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum
055	K-HA-19-1	Homogeneous	Gray Caulk	Asbestos Not Present	NA	Silicone Binder
056	K-HA-19-2	Homogeneous	Gray Caulk	Asbestos Not Present	NA	Silicone Binder
057	K-HA-19-3	Homogeneous	Gray Caulk	Asbestos Not Present	NA	Silicone Binder
058	K-HA-20-1	Homogeneous	Tan Caulk	Asbestos Not Present	NA	Silicone Binder
059	K-HA-20-2	Homogeneous	Tan Caulk	Asbestos Not Present	NA	Silicone Binder

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Client: AMEC NOVI, MI

Doug Saigh

46850 Magellan Drive Ste 190

Novi, Michigan 48377

Project: Kroger D-409

Project Location: Grand Blanc, MI

Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
060	K-HA-20-3	Homogeneous	Tan Caulk	Asbestos Not Present	NA	Silicone Binder
061	K-HA-21-1	Layered	Black Roofing	Asbestos Not Present	NA	Rubber
061a		Layered	Black Roofing	Asbestos Not Present	Cellulose 85	Binder
061b		Layered	Yellow Foam	Asbestos Not Present	NA	Foam
062	K-HA-21-2	Layered	Black Roofing	Asbestos Not Present	NA	Rubber
062a		Layered	Black Roofing	Asbestos Not Present	Cellulose 85	Binder
062b		Layered	Yellow Foam	Asbestos Not Present	NA	Foam

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Doug Saigh

46850 Magellan Drive Ste 190

Novi, Michigan 48377

Project: Kroger D-409

Project Location: Grand Blanc, MI

Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
063	K-HA-22-1	Homogeneous	Gray Stucco	Asbestos Not Present	NA	Quartz CaCO ₃
064	K-HA-22-2	Homogeneous	Gray Stucco	Asbestos Not Present	NA	Quartz CaCO ₃
065	K-HA-22-3	Homogeneous	Gray Stucco	Asbestos Not Present	NA	Quartz CaCO ₃
066	745-HA-1-1	Homogeneous	Beige Floor Tile	Asbestos Not Present	NA	Vinyl CaCO ₃
067	745-HA-1-2	Layered	Beige Floor Tile	Asbestos Not Present	NA	Vinyl CaCO ₃
067a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
068	745-HA-1-3	Layered	Beige Floor Tile	Asbestos Not Present	NA	Vinyl CaCO ₃

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Polarized Light Microscopy Asbestos Analysis Report

Quantem Lab No. 228100

Account Number: B894

Date Received: 10/15/2013

Received By: Joanna Mueller

Date Analyzed: 10/17/2013

Analyzed By: Gayle Ooten

Methodology: EPA/600/R-93/116

Client: AMEC NOVI, MI

Doug Saigh

46850 Magellan Drive Ste 190

Novi, Michigan 48377

Project: Kroger D-409

Project Location: Grand Blanc, MI

Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
068a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
069	745-HA-2-1	Layered	Black Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
069a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
070	745-HA-2-2	Layered	Black Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
070a		Layered	Black Mastic	Asbestos Not Present	NA	Glue
071	745-HA-2-3	Layered	Black Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
071a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue

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Methodology: EPA/600/R-93/116

Client: AMEC NOVI, MI

Doug Saigh

46850 Magellan Drive Ste 190

Novi, Michigan 48377

Project: Kroger D-409

Project Location: Grand Blanc, MI

Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
072	745-HA-3-1	Layered	Gray Floor Tile	Asbestos Not Present	NA	Vinyl CaCO ₃
072a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
073	745-HA-3-2	Homogeneous	Gray Floor Tile	Asbestos Not Present	NA	Vinyl CaCO ₃
074	745-HA-3-3	Layered	Gray Floor Tile	Asbestos Not Present	NA	Vinyl CaCO ₃
074a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
075	745-HA-4-1	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 30 Glass Fiber 30	Paint Perlite
076	745-HA-4-2	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 30 Glass Fiber 30	Paint Perlite

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Methodology: EPA/600/R-93/116

Client: AMEC NOVI, MI

Doug Saigh

46850 Magellan Drive Ste 190

Novi, Michigan 48377

Project: Kroger D-409

Project Location: Grand Blanc, MI

Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
077	745-HA-4-3	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 30 Glass Fiber 30	Paint Perlite
078	745-HA-5-1	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3
078a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum
079	745-HA-5-2	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3
079a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum
080	745-HA-5-3	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3
080a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum

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Methodology: EPA/600/R-93/116

Client: AMEC NOVI, MI

Doug Saigh

46850 Magellan Drive Ste 190

Novi, Michigan 48377

Project: Kroger D-409

Project Location: Grand Blanc, MI

Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
081	745-HA-6-1	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO ₃
081a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum
082	745-HA-6-2	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO ₃
082a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum
083	745-HA-6-3	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO ₃
083a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum
084	745-HA-7-1	Layered	Black Cove Base	Asbestos Not Present	NA	CaCO ₃ Binder

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Methodology: EPA/600/R-93/116

Client: AMEC NOVI, MI

Doug Saigh

46850 Magellan Drive Ste 190

Novi, Michigan 48377

Project: Kroger D-409

Project Location: Grand Blanc, MI

Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
084a		Layered	Yellow Cove Base Mastic	Asbestos Not Present	NA	Glue
085	745-HA-7-2	Layered	Black Cove Base	Asbestos Not Present	NA	CaCO3 Binder
085a		Layered	Yellow Cove Base Mastic	Asbestos Not Present	NA	Glue
086	745-HA-7-3	Layered	Black Cove Base	Asbestos Not Present	NA	CaCO3 Binder
086a		Layered	Yellow Cove Base Mastic	Asbestos Not Present	NA	Glue
087	802-HA-1-1	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 30 Glass Fiber 30	Paint Perlite
088	802-HA-1-2	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 30 Glass Fiber 30	Paint Perlite

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Date Analyzed: 10/17/2013

Analyzed By: Gayle Ooten

Methodology: EPA/600/R-93/116

Client: AMEC NOVI, MI

Doug Saigh

46850 Magellan Drive Ste 190

Novi, Michigan 48377

Project: Kroger D-409

Project Location: Grand Blanc, MI

Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
089	802-HA-1-3	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 30 Glass Fiber 30	Paint Perlite
090	802-HA-2-1	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3
090a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum
091	802-HA-2-2	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3
091a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum
092	802-HA-2-3	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3
092a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum

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Date Analyzed: 10/17/2013

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Methodology: EPA/600/R-93/116

Client: AMEC NOVI, MI

Doug Saigh

46850 Magellan Drive Ste 190

Novi, Michigan 48377

Project: Kroger D-409

Project Location: Grand Blanc, MI

Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
093	802-HA-3-1	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3
093a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum
094	802-HA-3-2	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3
094a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum
095	802-HA-3-3	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3
095a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum
096	803-HA-1-1	Layered	Brown Flooring	Asbestos Not Present	NA	Vinyl

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Polarized Light Microscopy Asbestos Analysis Report

Quantem Lab No. 228100	Client: AMEC NOVI, MI
Account Number: B894	Doug Saigh
Date Received: 10/15/2013	46850 Magellan Drive Ste 190
Received By: Joanna Mueller	Novi, Michigan 48377
Date Analyzed: 10/17/2013	Project: Kroger D-409
Analyzed By: Gayle Ooten	Project Location: Grand Blanc, MI
Methodology: EPA/600/R-93/116	Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
096a		Layered	Pink Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
096b		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
097	803-HA-1-2	Layered	Brown Flooring	Asbestos Not Present	NA	Vinyl
097a		Layered	Pink Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
097b		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
098	803-HA-1-3	Layered	Brown Flooring	Asbestos Not Present	NA	Vinyl CaCO3
098a		Layered	Pink Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3

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Date Analyzed: 10/17/2013

Analyzed By: Gayle Ooten

Methodology: EPA/600/R-93/116

Client: AMEC NOVI, MI

Doug Saigh

46850 Magellan Drive Ste 190

Novi, Michigan 48377

Project: Kroger D-409

Project Location: Grand Blanc, MI

Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
099	803-HA-2-1	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 30 Glass Fiber 30	Paint Perlite
100	803-HA-2-2	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 30 Glass Fiber 30	Paint Perlite
101	803-HA-2-3	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 30 Glass Fiber 30	Paint Perlite
102	803-HA-3-1	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 30 Glass Fiber 30	Paint Perlite
103	803-HA-3-2	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 30 Glass Fiber 30	Paint Perlite
104	803-HA-3-3	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 30 Glass Fiber 30	Paint Perlite
105	803-HA-4-1	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 25	Gypsum Vinyl

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Analyzed By: Gayle Ooten

Methodology: EPA/600/R-93/116

Client: AMEC NOVI, MI

Doug Saigh

46850 Magellan Drive Ste 190

Novi, Michigan 48377

Project: Kroger D-409

Project Location: Grand Blanc, MI

Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
106	803-HA-4-2	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 25	Gypsum Vinyl
107	803-HA-4-3	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 25	Gypsum Vinyl
108	803-HA-5-1	Layered	Black Cove Base	Asbestos Not Present	NA	CaCO3 Binder
108a		Layered	Cream Cove Base Mastic	Asbestos Not Present	NA	Glue
109	803-HA-5-2	Layered	Black Cove Base	Asbestos Not Present	NA	CaCO3 Binder
109a		Layered	Cream Cove Base Mastic	Asbestos Not Present	NA	Glue
110	803-HA-5-3	Layered	Black Cove Base	Asbestos Not Present	NA	CaCO3 Binder

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Polarized Light Microscopy Asbestos Analysis Report

Quantem Lab No.	228100	Client:	AMEC NOVI, MI
Account Number:	B894		Doug Saigh
Date Received:	10/15/2013		46850 Magellan Drive Ste 190
Received By:	Joanna Mueller		Novi, Michigan 48377
Date Analyzed:	10/17/2013	Project:	Kroger D-409
Analyzed By:	Gayle Ooten	Project Location:	Grand Blanc, MI
Methodology:	EPA/600/R-93/116	Project Number:	242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
110a		Layered	Cream Cove Base Mastic	Asbestos Not Present	NA	Glue
111	803-HA-6-1	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3
111a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum
112	803-HA-6-2	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3
112a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum
113	803-HA-6-3	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3
113a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum

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Methodology: EPA/600/R-93/116

Client: AMEC NOVI, MI

Doug Saigh

46850 Magellan Drive Ste 190

Novi, Michigan 48377

Project: Kroger D-409

Project Location: Grand Blanc, MI

Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
114	803-HA-7-1	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3
114a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum
115	803-HA-7-2	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3
115a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum
116	803-HA-7-3	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3
116a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum
117	803-HA-8-1	Homogeneous	White Sheetrock	Asbestos Not Present	Cellulose 25	Gypsum

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Methodology: EPA/600/R-93/116

Client: AMEC NOVI, MI

Doug Saigh

46850 Magellan Drive Ste 190

Novi, Michigan 48377

Project: Kroger D-409

Project Location: Grand Blanc, MI

Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
118	803-HA-8-2	Homogeneous	White Sheetrock	Asbestos Not Present	Cellulose 25	Gypsum
119	803-HA-8-3	Homogeneous	White Sheetrock	Asbestos Not Present	Cellulose 25	Gypsum
120	803-HA-9-1	Homogeneous	Gray Caulk	Asbestos Not Present	NA	CaCO3 Binder
121	803-HA-9-2	Homogeneous	Gray Caulk	Asbestos Not Present	NA	CaCO3 Binder
122	803-HA-9-3	Homogeneous	Gray Caulk	Asbestos Not Present	NA	CaCO3 Binder
123	804-HA-1-1	Layered	Gray Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
123a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue

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Methodology: EPA/600/R-93/116

Client: AMEC NOVI, MI

Doug Saigh

46850 Magellan Drive Ste 190

Novi, Michigan 48377

Project: Kroger D-409

Project Location: Grand Blanc, MI

Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
123b		Layered	White Leveling Compound	Asbestos Not Present	NA	CaCO3
124	804-HA-1-2	Layered	Gray Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
124a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
124b		Layered	White Leveling Compound	Asbestos Not Present	NA	CaCO3
125	804-HA-1-3	Layered	Gray Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
125a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
125b		Layered	White Leveling Compound	Asbestos Not Present	NA	CaCO3

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Date Analyzed: 10/17/2013

Analyzed By: Gayle Ooten

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Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
126	804-HA-2-1	Homogeneous	Red Ceiling Tile	Asbestos Not Present	Cellulose 30 Glass Fiber 30	Paint Perlite
127	804-HA-2-2	Homogeneous	Red Ceiling Tile	Asbestos Not Present	Cellulose 30 Glass Fiber 30	Paint Perlite
128	804-HA-2-3	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 30 Glass Fiber 30	Paint Perlite
129	804-HA-3-1	Layered	Red Cove Base	Asbestos Not Present	NA	CaCO3 Binder
129a		Layered	Cream Cove Base Mastic	Asbestos Not Present	NA	Glue
130	804-HA-3-2	Layered	Red Cove Base	Asbestos Not Present	NA	CaCO3 Binder
130a		Layered	Cream Cove Base Mastic	Asbestos Not Present	NA	Glue

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2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Polarized Light Microscopy Asbestos Analysis Report

Quantem Lab No. 228100

Account Number: B894

Date Received: 10/15/2013

Received By: Joanna Mueller

Date Analyzed: 10/17/2013

Analyzed By: Gayle Ooten

Methodology: EPA/600/R-93/116

Client: AMEC NOVI, MI

Doug Saigh

46850 Magellan Drive Ste 190

Novi, Michigan 48377

Project: Kroger D-409

Project Location: Grand Blanc, MI

Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
131	804-HA-3-3	Layered	Red Cove Base	Asbestos Not Present	NA	CaCO3 Binder
131a		Layered	Cream Cove Base Mastic	Asbestos Not Present	NA	Glue
132	804-HA-4-1	Layered	Gray Cove Base	Asbestos Not Present	NA	CaCO3 Binder
132a		Layered	Yellow Cove Base Mastic	Asbestos Not Present	NA	Glue
132b		Layered	White Texture	Asbestos Not Present	NA	CaCO3
133	804-HA-4-2	Layered	Gray Cove Base	Asbestos Not Present	NA	CaCO3 Binder
133a		Layered	Yellow Cove Base Mastic	Asbestos Not Present	NA	Glue

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Methodology: EPA/600/R-93/116

Client: AMEC NOVI, MI

Doug Saigh

46850 Magellan Drive Ste 190

Novi, Michigan 48377

Project: Kroger D-409

Project Location: Grand Blanc, MI

Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
133b		Layered	White Texture	Asbestos Not Present	NA	CaCO3
134	804-HA-4-3	Layered	Gray Cove Base	Asbestos Not Present	NA	CaCO3 Binder
134a		Layered	Yellow Cove Base Mastic	Asbestos Not Present	NA	Glue
134b		Layered	White Texture	Asbestos Not Present	NA	CaCO3
135	804-HA-5-1	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3
135a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 25	Gypsum
136	804-HA-5-2	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3

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Client: AMEC NOVI, MI

Doug Saigh

46850 Magellan Drive Ste 190

Novi, Michigan 48377

Project: Kroger D-409

Project Location: Grand Blanc, MI

Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
136a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum
137	804-HA-5-3	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3
137a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum
138	804-HA-6-1	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3
138a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 25	Gypsum
139	804-HA-6-2	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3
139a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum

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Methodology: EPA/600/R-93/116

Client: AMEC NOVI, MI

Doug Saigh

46850 Magellan Drive Ste 190

Novi, Michigan 48377

Project: Kroger D-409

Project Location: Grand Blanc, MI

Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
140	804-HA-6-3	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3
140a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum
141	805-HA-1-1	Homogeneous	Cream Ceiling Tile	Asbestos Not Present	Cellulose 30 Glass Fiber 30	Paint Perlite
142	805-HA-1-2	Homogeneous	Cream Ceiling Tile	Asbestos Not Present	Cellulose 30 Glass Fiber 30	Paint Perlite
143	805-HA-1-3	Homogeneous	Cream Ceiling Tile	Asbestos Not Present	Cellulose 30 Glass Fiber 30	Paint Perlite
144	805-HA-2-1	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 20	Gypsum Vinyl
145	805-HA-2-2	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 20	Gypsum Vinyl

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Methodology: EPA/600/R-93/116

Client: AMEC NOVI, MI

Doug Saigh

46850 Magellan Drive Ste 190

Novi, Michigan 48377

Project: Kroger D-409

Project Location: Grand Blanc, MI

Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
146	805-HA-2-3	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 20	Gypsum Vinyl
147	805-HA-3-1	Layered	Brown Cove Base	Asbestos Not Present	NA	CaCO3 Binder
147a		Layered	Yellow Cove Base Mastic	Asbestos Not Present	NA	Glue
148	805-HA-3-2	Layered	Brown Cove Base	Asbestos Not Present	NA	CaCO3 Binder
148a		Layered	Yellow Cove Base Mastic	Asbestos Not Present	NA	Glue
149	805-HA-3-3	Layered	Brown Cove Base	Asbestos Not Present	NA	CaCO3 Binder
149a		Layered	Yellow Cove Base Mastic	Asbestos Not Present	NA	Glue

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Client: AMEC NOVI, MI

Doug Saigh

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Novi, Michigan 48377

Project: Kroger D-409

Project Location: Grand Blanc, MI

Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
150	805-HA-4-1	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3
150a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum
151	805-HA-5-2	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3
151a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum
152	805-HA-5-3	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3
152a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum
153	805-HA-6-1	Layered	Gray Cove Base	Asbestos Not Present	NA	CaCO3 Binder

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Novi, Michigan 48377

Project: Kroger D-409

Project Location: Grand Blanc, MI

Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
153a		Layered	Cream Cove Base Mastic	Asbestos Not Present	NA	Glue
154	805-HA-6-2	Layered	Gray Cove Base	Asbestos Not Present	NA	CaCO3 Binder
154a		Layered	Cream Cove Base Mastic	Asbestos Not Present	NA	Glue
155	805-HA-6-3	Layered	Gray Cove Base	Asbestos Not Present	NA	CaCO3 Binder
155a		Layered	Cream Cove Base Mastic	Asbestos Not Present	NA	Glue
156	806-HA-1-1	Homogeneous	White Ceiling Texture	Asbestos Not Present	NA	CaCO3 Paint
157	806-HA-1-2	Homogeneous	White Ceiling Texture	Asbestos Not Present	NA	CaCO3 Paint

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Novi, Michigan 48377

Project: Kroger D-409

Project Location: Grand Blanc, MI

Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
158	806-HA-1-3	Homogeneous	White Ceiling Texture	Asbestos Not Present	NA	CaCO3 Paint
159	806-HA-2-1	Homogeneous	White Wall Texture	Asbestos Not Present	NA	Quartz Paint
160	806-HA-2-2	Homogeneous	White Wall Texture	Asbestos Not Present	NA	Quartz Paint
161	806-HA-2-3	Homogeneous	White Wall Texture	Asbestos Not Present	NA	Quartz Paint
162	806-HA-3-1	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3
162a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum
163	806-HA-3-2	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3

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Novi, Michigan 48377

Project: Kroger D-409

Project Location: Grand Blanc, MI

Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
163a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum
164	806-HA-3-3	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3
164a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum
165	807-HA-1-1	Layered	Gray Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
165a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
166	807-HA-1-2	Layered	Gray Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
166a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue

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Novi, Michigan 48377

Project: Kroger D-409

Project Location: Grand Blanc, MI

Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
167	807-HA-1-3	Layered	Gray Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
167a		Layered	Yellow Mastic	Asbestos Not Present	NA	Glue
168	807-HA-2-1	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 30 Glass Fiber 30	Paint Perlite
169	807-HA-2-2	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 30 Glass Fiber 30	Paint Perlite
170	807-HA-2-3	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 30 Glass Fiber 30	Paint Perlite
171	807-HA-3-1	Layered	Blue Cove Base	Asbestos Not Present	NA	CaCO3 Binder
171a		Layered	Yellow Cove Base Mastic	Asbestos Not Present	NA	Glue

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Methodology: EPA/600/R-93/116

Client: AMEC NOVI, MI

Doug Saigh

46850 Magellan Drive Ste 190

Novi, Michigan 48377

Project: Kroger D-409

Project Location: Grand Blanc, MI

Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
172	807-HA-3-2	Layered	Blue Cove Base	Asbestos Not Present	NA	CaCO3 Binder
172a		Layered	Yellow Cove Base Mastic	Asbestos Not Present	NA	Glue
173	807-HA-3-3	Layered	Blue Cove Base	Asbestos Not Present	NA	CaCO3 Binder
173a		Layered	Yellow Cove Base Mastic	Asbestos Not Present	NA	Glue
174	807-HA-4-1	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3
174a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum
175	807-HA-4-2	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3

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Doug Saigh

46850 Magellan Drive Ste 190

Novi, Michigan 48377

Project: Kroger D-409

Project Location: Grand Blanc, MI

Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
175a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum
176	807-HA-4-3	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3
176a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum
177	807-HA-5-1	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3
177a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum
178	807-HA-5-2	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3
178a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum

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Doug Saigh

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Novi, Michigan 48377

Project: Kroger D-409

Project Location: Grand Blanc, MI

Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
179	807-HA-5-3	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO ₃
179a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum
180	807-HA-6-1	Homogeneous	White Ceiling Texture	Asbestos Not Present	NA	CaCO ₃ Paint
181	807-HA-6-2	Homogeneous	White Ceiling Texture	Asbestos Not Present	NA	CaCO ₃ Paint
182	807-HA-6-3	Homogeneous	White Ceiling Texture	Asbestos Not Present	NA	CaCO ₃ Paint
183	807-HA-7-1	Homogeneous	Gray Ceiling Texture	Asbestos Not Present	NA	Quartz CaCO ₃ Paint
184	807-HA-7-2	Homogeneous	White Ceiling Texture	Asbestos Not Present	NA	Quartz CaCO ₃ Paint

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Methodology: EPA/600/R-93/116

Client: AMEC NOVI, MI

Doug Saigh

46850 Magellan Drive Ste 190

Novi, Michigan 48377

Project: Kroger D-409

Project Location: Grand Blanc, MI

Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
185	807-HA-7-3	Homogeneous	Gray Ceiling Texture	Asbestos Not Present	NA	Quartz CaCO3 Paint
186	807-HA-8-1	Layered	Gray Cove Base	Asbestos Not Present	NA	CaCO3 Binder
186a		Layered	Yellow Cove Base Mastic	Asbestos Not Present	NA	Glue
187	807-HA-8-2	Layered	Gray Cove Base	Asbestos Not Present	NA	CaCO3 Binder
187a		Layered	Yellow Cove Base Mastic	Asbestos Not Present	NA	Glue
188	807-HA-8-3	Layered	Gray Cove Base	Asbestos Not Present	NA	CaCO3 Binder
188a		Layered	Yellow Cove Base Mastic	Asbestos Not Present	NA	Glue

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Polarized Light Microscopy Asbestos Analysis Report

Quantem Lab No.	228100	Client:	AMEC NOVI, MI
Account Number:	B894		Doug Saigh
Date Received:	10/15/2013		46850 Magellan Drive Ste 190
Received By:	Joanna Mueller		Novi, Michigan 48377
Date Analyzed:	10/17/2013	Project:	Kroger D-409
Analyzed By:	Gayle Ooten	Project Location:	Grand Blanc, MI
Methodology:	EPA/600/R-93/116	Project Number:	242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
189	T-HA-1-1	Layered	White Roofing	Asbestos Not Present	Synthetic 20	Vinyl
189a		Layered	Black Roofing	Asbestos Not Present	NA	Rubber
189b		Layered	Black Roofing	Asbestos Not Present	Cellulose 85	Binder
189c		Layered	Yellow Foam	Asbestos Not Present	NA	Foam
190	T-HA-1-2	Layered	White Roofing	Asbestos Not Present	Synthetic 20	Vinyl
190a		Layered	Black Roofing	Asbestos Not Present	NA	Rubber
190b		Layered	Brown Insulation	Asbestos Not Present	Cellulose 85	Perlite

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

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Polarized Light Microscopy Asbestos Analysis Report

Quantem Lab No. 228100

Account Number: B894

Date Received: 10/15/2013

Received By: Joanna Mueller

Date Analyzed: 10/17/2013

Analyzed By: Gayle Ooten

Methodology: EPA/600/R-93/116

Client: AMEC NOVI, MI

Doug Saigh

46850 Magellan Drive Ste 190

Novi, Michigan 48377

Project: Kroger D-409

Project Location: Grand Blanc, MI

Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
191	T-HA-1-3	Layered	White Roofing	Asbestos Not Present	Synthetic	20 Vinyl
191a		Layered	Black Roofing	Asbestos Not Present	NA	Rubber
191b		Layered	Brown Insulation	Asbestos Not Present	Cellulose	85 Perlite
192	T-HA-2-1	Homogeneous	Gray Caulk	Asbestos Not Present	Cellulose	3 CaCO3 Binder
193	T-HA-2-2	Homogeneous	Gray Caulk	Asbestos Not Present	Cellulose	2 CaCO3 Binder
194	T-HA-2-3	Homogeneous	Gray Caulk	Asbestos Not Present	Cellulose	2 CaCO3 Binder
195	T-HA-3-1	Homogeneous	Beige Caulk	Asbestos Not Present	NA	Silicone

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Polarized Light Microscopy Asbestos Analysis Report

Quantem Lab No. 228100

Account Number: B894

Date Received: 10/15/2013

Received By: Joanna Mueller

Date Analyzed: 10/17/2013

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Methodology: EPA/600/R-93/116

Client: AMEC NOVI, MI

Doug Saigh

46850 Magellan Drive Ste 190

Novi, Michigan 48377

Project: Kroger D-409

Project Location: Grand Blanc, MI

Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
196	T-HA-3-2	Homogeneous	Beige Caulk	Asbestos Not Present	NA	Silicone
197	T-HA-3-3	Homogeneous	Beige Caulk	Asbestos Not Present	NA	Silicone
198	T-HA-4-1	Homogeneous	Black Caulk	Asbestos Not Present	NA	Silicone
199	T-HA-4-2	Homogeneous	Black Caulk	Asbestos Not Present	NA	Silicone
200	T-HA-4-3	Homogeneous	Black Caulk	Asbestos Not Present	NA	Silicone
201	T-HA-5-1	Layered	Black Roofing	Asbestos Not Present	NA	Rubber
201a		Layered	Black Tar	Asbestos Not Present	NA	Tar

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Polarized Light Microscopy Asbestos Analysis Report

Quantem Lab No. 228100

Account Number: B894

Date Received: 10/15/2013

Received By: Joanna Mueller

Date Analyzed: 10/17/2013

Analyzed By: Gayle Ooten

Methodology: EPA/600/R-93/116

Client: AMEC NOVI, MI

Doug Saigh

46850 Magellan Drive Ste 190

Novi, Michigan 48377

Project: Kroger D-409

Project Location: Grand Blanc, MI

Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
201b		Layered	Black Roofing	Asbestos Not Present	Cellulose 85	Binder
201c		Layered	Yellow Foam	Asbestos Not Present	NA	Foam
202	T-HA-5-2	Layered	Black Roofing	Asbestos Not Present	NA	Rubber
202a		Layered	Black Tar	Asbestos Not Present	NA	Tar
202b		Layered	Black Roofing	Asbestos Not Present	Cellulose 85	Binder
202c		Layered	Yellow Foam	Asbestos Not Present	NA	Foam
203	T-HA-5-3	Layered	Black Roofing	Asbestos Not Present	NA	Rubber

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Polarized Light Microscopy Asbestos Analysis Report

Quantem Lab No.	228100	Client:	AMEC NOVI, MI
Account Number:	B894		Doug Saigh
Date Received:	10/15/2013		46850 Magellan Drive Ste 190
Received By:	Joanna Mueller		Novi, Michigan 48377
Date Analyzed:	10/17/2013	Project:	Kroger D-409
Analyzed By:	Gayle Ooten	Project Location:	Grand Blanc, MI
Methodology:	EPA/600/R-93/116	Project Number:	242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
203a		Layered	Brown Insulation	Asbestos Not Present	Cellulose 85	Perlite
204	805-HA-4-2	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3
204a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum
205	805-HA-4-3	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3
205a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum
206	805-HA-5-1	Layered	White Joint Compound	Asbestos Not Present	NA	CaCO3
206a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

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Polarized Light Microscopy Asbestos Analysis Report

Quantem Lab No. 228100

Account Number: B894

Date Received: 10/15/2013

Received By: Joanna Mueller

Date Analyzed: 10/17/2013

Analyzed By: Gayle Ooten

Methodology: EPA/600/R-93/116

Client: AMEC NOVI, MI

Doug Saigh

46850 Magellan Drive Ste 190

Novi, Michigan 48377

Project: Kroger D-409

Project Location: Grand Blanc, MI

Project Number: 242413130

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
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A handwritten signature in black ink, appearing to read 'Gayle Ooten', is written over a horizontal line.

Gayle Ooten, Analyst

10/18/2013

Date of Report

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

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Contact Information				Project Information			
Company: AMEC		Phone: (248) 313-3691		Project Name: Kroger D-409		Report Results (one box)	
Contact: Douglas Saigh		Cell Phone: (586) 382-0850		Project Location: Grand Blanc, MI		<input type="checkbox"/> QuantEM Website	
Account #: C012602426		E-mail: doug.saigh@amec.com		Project ID: 242413130		<input checked="" type="checkbox"/> Other email	
Sampled By: Douglas Saigh		Date: 9/30, 9/23, 10/4/13		RECEIVED BY: Mueller		DATE & TIME: 10/15/13 9:50	
Signature: [Signature]		Signature: [Signature]		Signature: [Signature]		Signature: [Signature]	
REQUESTED SERVICES (Please check the appropriate boxes)							
PLM		PLM		TEM		TEM	
<input checked="" type="checkbox"/> Bulk Analysis (EPA 600/R-93/116)		<input type="checkbox"/> Vermiculite Attic Insulation (EPA 600/R-04/004)		<input type="checkbox"/> Air- AHERA		<input type="checkbox"/> Bulk- Presence / Absence EPA600/R-93/116	
<input type="checkbox"/> 400 Point Count		<input type="checkbox"/> Other		<input type="checkbox"/> Air- NIOSH 7402		<input type="checkbox"/> Bulk- Quantitative (weight%)- Chatfield	
<input type="checkbox"/> 1000 Point Count				<input type="checkbox"/> Air- ISO 10312		<input type="checkbox"/> Dust- Presence / Absence	
<input type="checkbox"/> Gravimetric Preparation		PCM		<input type="checkbox"/> Drinking Water- EPA 100.2		<input type="checkbox"/> Dust- Quantitative (fibers/sq.cm)- ASTM D5755	
<input type="checkbox"/> Particle ID		NIOSH 7400		<input type="checkbox"/> Waste Water- EPA 600/4-83-043		<input type="checkbox"/> Other	
No.		Sample ID (10 Characters Max)		Description		Volume / Area (as applicable)	
1		K-HA-1-1		12x12 FT TAN w/ multi-flocks & mastic		Test each HA under test until positive	
2		K-HA-1-2				Hold samples between 1% - 10% result	
3		K-HA-1-3					
4		K-HA-2-1		12x12 FT Gray w/ multi-flocks & mastic			
5		K-HA-2-2					
6		K-HA-2-3					
7		K-HA-3-1		12x12 FT Black w/ multi-flocks & mastic			
8		K-HA-3-2					
9		K-HA-3-3					
10		K-HA-4-1		12x12 Brown w/ multi-flocks & mastic			



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Lab No. <u>228100</u>
Accept <input checked="" type="checkbox"/> Reject <input type="checkbox"/>

Project Information				Project Name: Kroger D-409		Project Location: Grand Blanc, MI	
No.	Sample ID (10 Characters Max)	<input checked="" type="checkbox"/> To Be Analyzed	Color	Description	Volume / Area (as applicable)	Comments / Notes	
11	K-HA-4-2	<input checked="" type="checkbox"/>		SAME AS K-HA-4-1			
12	K-HA-4-3	<input checked="" type="checkbox"/>		↓			
13	K-HA-5-1	<input checked="" type="checkbox"/>		1/2 FT. TAN w/ flecks & matrix			
14	K-HA-5-2	<input checked="" type="checkbox"/>		↓			
15	K-HA-5-3	<input checked="" type="checkbox"/>		↓			
16	K-HA-6-1	<input checked="" type="checkbox"/>		1/2 FT. G. Green w/ flecks & matrix			
17	K-HA-6-2	<input checked="" type="checkbox"/>		↓			
18	K-HA-6-3	<input checked="" type="checkbox"/>		↓			
19	K-HA-7-1	<input checked="" type="checkbox"/>		1/2 FT. Brown w/ flecks & matrix			
20	K-HA-7-2	<input checked="" type="checkbox"/>		↓			
21	K-HA-7-3	<input checked="" type="checkbox"/>		↓			
22	K-HA-8-1	<input checked="" type="checkbox"/>		1/2 FT. Dk Green w/ flecks & matrix			
23	K-HA-8-2	<input checked="" type="checkbox"/>		↓			
24	K-HA-8-3	<input checked="" type="checkbox"/>		↓			
25	K-HA-9-1	<input checked="" type="checkbox"/>		1/2 FT. White w/ flecks & matrix			
26	K-HA-9-2	<input checked="" type="checkbox"/>		↓			
27	K-HA-9-3	<input checked="" type="checkbox"/>		↓			
28	K-HA-10-1	<input checked="" type="checkbox"/>		1/2 C.T. White w/ small granules			
29	K-HA-10-2	<input checked="" type="checkbox"/>		↓			
30	K-HA-10-3	<input checked="" type="checkbox"/>		↓			



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Lab No. <u>228100</u>
Accept <input checked="" type="checkbox"/> Reject <input type="checkbox"/>

Project Information				Project Name: Kroger D-409		Project Location: Grand Blanc, MI	
Company: AMEC							
No.	Sample ID (10 Characters Max)	<input checked="" type="checkbox"/> To Be Analyzed	Color	Description	Volume / Area (as applicable)	Comments / Notes	
31	K-HA-11-1	<input checked="" type="checkbox"/>		2x4 C.T. White w/ med. crevices			
32	K-HA-11-2	<input checked="" type="checkbox"/>					
33	K-HA-11-3	<input checked="" type="checkbox"/>					
34	K-HA-12-1	<input checked="" type="checkbox"/>		2x4 C.T. White Smooth (drywall)			
35	K-HA-12-2	<input checked="" type="checkbox"/>					
36	K-HA-12-3	<input checked="" type="checkbox"/>					
37	K-HA-13-1	<input checked="" type="checkbox"/>		2x4 C.T. White w/ SM. crevices			
38	K-HA-13-2	<input checked="" type="checkbox"/>					
39	K-HA-13-3	<input checked="" type="checkbox"/>					
40	K-HA-14-1	<input checked="" type="checkbox"/>		Gray Vinyl Baseboard & Mosaic			
41	K-HA-14-2	<input checked="" type="checkbox"/>					
42	K-HA-14-3	<input checked="" type="checkbox"/>					
43	K-HA-15-1	<input checked="" type="checkbox"/>		Dark Brown Vinyl Baseboard & Mosaic			
44	K-HA-15-2	<input checked="" type="checkbox"/>					
45	K-HA-15-3	<input checked="" type="checkbox"/>					
46	K-HA-16-1	<input checked="" type="checkbox"/>		TS1 TAPE			
47	K-HA-16-2	<input checked="" type="checkbox"/>					
48	K-HA-16-3	<input checked="" type="checkbox"/>					
49	K-HA-17-1	<input checked="" type="checkbox"/>		Drywall Joint Compound (interior)			
50	K-HA-17-2	<input checked="" type="checkbox"/>					



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Lab No. 228100
Accept <input checked="" type="checkbox"/> Reject <input type="checkbox"/>

Project Information		Project Name: Kroger D-409	Project Location: Grand Blanc, MI			
No.	Sample ID (10 Characters Max)	To Be Analyzed	Color	Description	Volume / Area (as applicable)	Comments / Notes
51	K-HA-17-3	<input checked="" type="checkbox"/>		SAME AS K-HA-17-1		
52	K-HA-18-1	<input checked="" type="checkbox"/>		Drywall/Joint Compound (perimeter)		
53	K-HA-18-2	<input checked="" type="checkbox"/>				
54	K-HA-18-3	<input checked="" type="checkbox"/>				
55	K-HA-19-1	<input checked="" type="checkbox"/>		Exterior Window Caulk		
56	K-HA-19-2	<input checked="" type="checkbox"/>				
57	K-HA-19-3	<input checked="" type="checkbox"/>				
58	K-HA-20-1	<input checked="" type="checkbox"/>		Exterior Expansion Joint Caulk		
59	K-HA-20-2	<input checked="" type="checkbox"/>				
60	K-HA-20-3	<input checked="" type="checkbox"/>				
61	K-HA-21-1	<input checked="" type="checkbox"/>		Roofing System (EPDM) Upper		
62	K-HA-22-2	<input checked="" type="checkbox"/>				
63	K-HA-22-1	<input checked="" type="checkbox"/>		EFS on Kroger		
64	K-HA-22-2	<input checked="" type="checkbox"/>				
65	K-HA-22-3	<input checked="" type="checkbox"/>				
66	745-HA-1-1	<input checked="" type="checkbox"/>		12x12 E.T. White w/ Mastic		
67	745-HA-1-2	<input checked="" type="checkbox"/>				
68	745-HA-1-3	<input checked="" type="checkbox"/>				
69	745-HA-2-1	<input checked="" type="checkbox"/>		12x12 E.T. Black w/ Flecks & Mastic		
70	745-HA-2-2	<input checked="" type="checkbox"/>				



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Lab No. <u>228100</u>
Accept <u> </u> Reject <u> </u>

Project Information				Project Name: Kroger D-409		Project Location: Grand Blanc, MI	
Company: AMEC							
No.	Sample ID (10 Characters Max)	<input checked="" type="checkbox"/> To Be Analyzed	Color	Description	Volume / Area (as applicable)	Comments / Notes	
71	745-HA-2-3	<input checked="" type="checkbox"/>		SAME AS 745-HA-2-1			
72	745-HA-3-1	<input checked="" type="checkbox"/>		12x12 F.T. Blue w/ Dots & Mastic			
73	745-HA-3-2	<input checked="" type="checkbox"/>					
74	745-HA-4-1	<input checked="" type="checkbox"/>					
75	745-HA-4-2	<input checked="" type="checkbox"/>		2x4 CT White w/ sm. crevices			
76	745-HA-4-3	<input checked="" type="checkbox"/>					
77	745-HA-4-4	<input checked="" type="checkbox"/>					
78	745-HA-5-1	<input checked="" type="checkbox"/>		Drywall / Joint Compound (interior)			
79	745-HA-5-2	<input checked="" type="checkbox"/>					
80	745-HA-5-3	<input checked="" type="checkbox"/>					
81	745-HA-6-1	<input checked="" type="checkbox"/>		Drywall / Joint Compound (exterminator)			
82	745-HA-6-2	<input checked="" type="checkbox"/>					
83	745-HA-6-3	<input checked="" type="checkbox"/>					
84	745-HA-7-1	<input checked="" type="checkbox"/>		Black Vinyl Baseboard & Mastic			
85	745-HA-7-2	<input checked="" type="checkbox"/>					
86	745-HA-7-3	<input checked="" type="checkbox"/>					
87	802-HA-1-1	<input checked="" type="checkbox"/>		2x4 CT White w/ sm. crevices			
88	802-HA-1-2	<input checked="" type="checkbox"/>					
89	802-HA-1-3	<input checked="" type="checkbox"/>					
90	802-HA-2-1	<input checked="" type="checkbox"/>		Drywall / Joint Compound (interior)			



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Lab No. 228700
Accept Reject

Project Information				Project Name: Kroger D-409		Project Location: Grand Blanc, MI	
Company: AMEC							
No.	Sample ID (10 Characters Max)	<input checked="" type="checkbox"/> To Be Analyzed	Color	Description	Volume / Area (as applicable)	Comments / Notes	
91	802-HA-2-2	<input checked="" type="checkbox"/>		SAME AS 802-HA-2-1			
92	802-HA-2-3	<input checked="" type="checkbox"/>					
93	802-HA-3-1	<input checked="" type="checkbox"/>		Drywall Joint Compound (perimeter)			
94	802-HA-3-2	<input checked="" type="checkbox"/>					
95	802-HA-3-3	<input checked="" type="checkbox"/>					
96	803-HA-1-1	<input checked="" type="checkbox"/>		Floor Covering & Floor Tile w/ Mastic		3 layers - Floor Covering	
97	803-HA-1-2	<input checked="" type="checkbox"/>				Floor Tile	
98	803-HA-1-3	<input checked="" type="checkbox"/>				Floor Tile Mastic	
99	803-HA-2-1	<input checked="" type="checkbox"/>		2x4 CT. White w/ saw. screws			
100	803-HA-2-2	<input checked="" type="checkbox"/>					
101	803-HA-2-3	<input checked="" type="checkbox"/>					
102	803-HA-3-1	<input checked="" type="checkbox"/>		2x4 CT. White w/ med. screws			
103	803-HA-3-2	<input checked="" type="checkbox"/>					
104	803-HA-3-3	<input checked="" type="checkbox"/>					
105	803-HA-4-1	<input checked="" type="checkbox"/>		2x4 CT. White Smooth (drywall)			
106	803-HA-4-2	<input checked="" type="checkbox"/>					
107	803-HA-4-3	<input checked="" type="checkbox"/>					
108	803-HA-5-1	<input checked="" type="checkbox"/>		Dark Blue Vinyl Baseboard & Mastic			
109	803-HA-5-2	<input checked="" type="checkbox"/>					
110	803-HA-5-3	<input checked="" type="checkbox"/>					



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Lab No. 228100
Accept <input checked="" type="checkbox"/> Reject <input type="checkbox"/>

Project Information				Project Name: Kroger D-409	Project Location: Grand Blanc, MI	
Company: AMEC						
No.	Sample ID (10 Characters Max)	<input checked="" type="checkbox"/> To Be Analyzed	Color	Description	Volume / Area (as applicable)	Comments / Notes
111	803-HA-6-1	<input checked="" type="checkbox"/>		Drywall Joint Compound (Interior)		
112	803-HA-6-2	<input checked="" type="checkbox"/>				
113	803-HA-6-3	<input checked="" type="checkbox"/>				
114	803-HA-7-1	<input checked="" type="checkbox"/>		Drywall Joint Compound (perimeter)		
115	803-HA-7-2	<input checked="" type="checkbox"/>				
116	803-HA-7-3	<input checked="" type="checkbox"/>				
117	803-HA-8-1	<input checked="" type="checkbox"/>		Drywall Repair Area		
118	803-HA-8-2	<input checked="" type="checkbox"/>				
119	803-HA-8-3	<input checked="" type="checkbox"/>				
120	803-HA-9-1	<input checked="" type="checkbox"/>		Exterior Window/Door Caulk		
121	803-HA-9-2	<input checked="" type="checkbox"/>				
122	803-HA-9-3	<input checked="" type="checkbox"/>				
123	804-HA-1-1	<input checked="" type="checkbox"/>		1/8x1/2 F.T. Blue w/ Dots & Mastice		
124	804-HA-1-2	<input checked="" type="checkbox"/>				
125	804-HA-1-3	<input checked="" type="checkbox"/>				
126	804-HA-2-1	<input checked="" type="checkbox"/>		3x4 C.T. White w/ lg. crevices		
127	804-HA-2-2	<input checked="" type="checkbox"/>				
128	804-HA-2-3	<input checked="" type="checkbox"/>				
129	804-HA-3-1	<input checked="" type="checkbox"/>		Red Vinyl Baseboard & Mastice		
130	804-HA-3-2	<input checked="" type="checkbox"/>				



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(800) 822-1650 • (405) 755-7272 • Fax: (405) 755-2058

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For Lab Use Only
Lab No. 228100
Accept <input checked="" type="checkbox"/> Reject <input type="checkbox"/>

Project Information				Project Name: Kroger D-409	Project Location: Grand Blanc, MI	
Company: AMEC						
No.	Sample ID (10 Characters Max)	<input checked="" type="checkbox"/> To Be Analyzed	Color	Description	Volume / Area (as applicable)	Comments / Notes
131	804-HA-3-3	<input checked="" type="checkbox"/>		SAME AS 804-HA-3-1		
132	804-HA-4-1	<input checked="" type="checkbox"/>		Gray Vinyl Baseboard & Mastic		
133	804-HA-4-2	<input checked="" type="checkbox"/>		↓		
134	804-HA-4-3	<input checked="" type="checkbox"/>		Drywall / Joint Compound (interior)		
135	804-HA-5-1	<input checked="" type="checkbox"/>		↓		
136	804-HA-5-2	<input checked="" type="checkbox"/>		Drywall / Joint Compound (perimeter)		
137	804-HA-5-3	<input checked="" type="checkbox"/>		↓		
138	804-HA-6-1	<input checked="" type="checkbox"/>		Drywall / Joint Compound (perimeter)		
139	804-HA-6-2	<input checked="" type="checkbox"/>		↓		
140	804-HA-6-3	<input checked="" type="checkbox"/>		2x4 GT white w/ 3M crevices		
141	805-HA-1-1	<input checked="" type="checkbox"/>		↓		
142	805-HA-1-2	<input checked="" type="checkbox"/>		2x4 GT. White Smooth (drywall)		
143	805-HA-1-3	<input checked="" type="checkbox"/>		↓		
144	805-HA-2-1	<input checked="" type="checkbox"/>		2x4 GT. White Smooth (drywall)		
145	805-HA-2-2	<input checked="" type="checkbox"/>		↓		
146	805-HA-2-3	<input checked="" type="checkbox"/>		Black Vinyl Baseboard & Mastic		
147	805-HA-3-1	<input checked="" type="checkbox"/>		↓		
148	805-HA-3-2	<input checked="" type="checkbox"/>		Drywall / Joint Compound (interior)		
149	805-HA-3-3	<input checked="" type="checkbox"/>		↓		
150	805-HA-4-1	<input checked="" type="checkbox"/>		Drywall / Joint Compound (interior)		



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Lab No. 223100
Accept <input checked="" type="checkbox"/> Reject <input type="checkbox"/>

Project Information				Project Name: Kroger D-409	Project Location: Grand Blanc, MI	
Company: AMEC						
No.	Sample ID (10 Characters Max)	<input checked="" type="checkbox"/> To Be Analyzed	Color	Description	Volume / Area (as applicable)	Comments / Notes
151	805-HA-5-2	<input checked="" type="checkbox"/>		SAME AS 805-HA-5-1		
152	805-HA-5-3	<input checked="" type="checkbox"/>		White Vinyl Baseboard & Molding		
153	805-HA-6-1	<input checked="" type="checkbox"/>				
154	805-HA-6-2	<input checked="" type="checkbox"/>				
155	805-HA-6-3	<input checked="" type="checkbox"/>				
156	806-HA-1-1	<input checked="" type="checkbox"/>		Ceiling Finish Coating (rough)		
157	806-HA-1-2	<input checked="" type="checkbox"/>				
158	806-HA-1-3	<input checked="" type="checkbox"/>				
159	806-HA-2-1	<input checked="" type="checkbox"/>		Wall Finish Coating (Smooth)		
160	806-HA-2-2	<input checked="" type="checkbox"/>				
161	806-HA-2-3	<input checked="" type="checkbox"/>				
162	806-HA-3-1	<input checked="" type="checkbox"/>		Drywall/Joint Compound (interior)		
163	806-HA-3-2	<input checked="" type="checkbox"/>				
164	806-HA-3-3	<input checked="" type="checkbox"/>				
165	807-HA-1-1	<input checked="" type="checkbox"/>		12x12 FT. Blue w/ Dots & Mastic		
166	807-HA-1-2	<input checked="" type="checkbox"/>				
167	807-HA-1-3	<input checked="" type="checkbox"/>				
168	807-HA-2-1	<input checked="" type="checkbox"/>		8x4 CT. White w/ sm. crevices		
169	807-HA-2-2	<input checked="" type="checkbox"/>				
170	807-HA-2-3	<input checked="" type="checkbox"/>				



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Lab No. <u>22100</u>
Accept <u>[Signature]</u> Reject

Project Information				Project Location: Grand Blanc, MI		
Company: AMEC		Project Name: Kroger D-409				
No.	Sample ID (10 Characters Max)	<input checked="" type="checkbox"/> To Be Analyzed	Color	Description	Volume / Area (as applicable)	Comments / Notes
171	807-HA-3-1	<input checked="" type="checkbox"/>		Blue Vinyl Baseboard & Mastie		
172	807-HA-3-2	<input checked="" type="checkbox"/>		↓		
173	807-HA-3-3	<input checked="" type="checkbox"/>		↓ Drywall/Joint Compound (interior)		
174	807-HA-4-1	<input checked="" type="checkbox"/>		↓		
175	807-HA-4-2	<input checked="" type="checkbox"/>		↓		
176	807-HA-4-3	<input checked="" type="checkbox"/>		↓		
177	807-HA-5-1	<input checked="" type="checkbox"/>		↓ Drywall/Joint Compound (perimeter)		
178	807-HA-5-2	<input checked="" type="checkbox"/>		↓		
179	807-HA-5-3	<input checked="" type="checkbox"/>		↓		
180	807-HA-6-1	<input checked="" type="checkbox"/>		Ceiling Finish Coating (rough)		
181	807-HA-6-2	<input checked="" type="checkbox"/>		↓		
182	807-HA-6-3	<input checked="" type="checkbox"/>		↓		
183	807-HA-7-1	<input checked="" type="checkbox"/>		Ceiling Finish Coating (smooth)		
184	807-HA-7-2	<input checked="" type="checkbox"/>		↓		
185	807-HA-7-3	<input checked="" type="checkbox"/>		↓		
186	807-HA-8-1	<input checked="" type="checkbox"/>		Gray Vinyl Baseboard & Mastie		
187	807-HA-8-2	<input checked="" type="checkbox"/>		↓		
188	807-HA-8-3	<input checked="" type="checkbox"/>		↓		
189	T-HA-1-1	<input checked="" type="checkbox"/>		Roof System Terants (Purcelast)		north
190	T-HA-1-2	<input checked="" type="checkbox"/>		↓		middle



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Lab No. <u>268100</u>
Accept <u>[Signature]</u> Reject

Project Information				Project Name: Kroger D-409		Project Location: Grand Blanc, MI	
Company: AMEC							
No.	Sample ID (10 Characters Max)	<input checked="" type="checkbox"/> To Be Analyzed	Color	Description	Volume / Area (as applicable)	Comments / Notes	
191	T-HA-1-3	<input checked="" type="checkbox"/>		SAME AS T-HA-1-1		South	
192	T-HA-2-1	<input checked="" type="checkbox"/>		Roof Wall Caulk (gray)			
193	T-HA-2-2	<input checked="" type="checkbox"/>					
194	T-HA-2-3	<input checked="" type="checkbox"/>					
195	T-HA-3-1	<input checked="" type="checkbox"/>		Roof Wall Caulk (white)			
196	T-HA-3-2	<input checked="" type="checkbox"/>					
197	T-HA-3-3	<input checked="" type="checkbox"/>					
198	T-HA-4-1	<input checked="" type="checkbox"/>		Roof Wall Caulk (black)			
199	T-HA-4-2	<input checked="" type="checkbox"/>					
200	T-HA-4-3	<input checked="" type="checkbox"/>					
201	T-HA-5-1	<input checked="" type="checkbox"/>		Roof System (EPDM)		North middle	
202	T-HA-5-2	<input checked="" type="checkbox"/>				South middle	
203	T-HA-5-3	<input checked="" type="checkbox"/>				rear	
204	805-HA-4-2	<input type="checkbox"/>					
205	805-HA-4-3	<input type="checkbox"/>					
206	805-HA-5-1	<input type="checkbox"/>					
7		<input type="checkbox"/>					
8		<input type="checkbox"/>					
9		<input type="checkbox"/>					
0		<input type="checkbox"/>					



APPENDIX D

Certifications

Certificate Number: 144156 - 11288

ETC Training Services Group

38900 W. Huron River Drive
Romulus, MI 48174-1159
(734) 955-6600

PRESENTS

Douglas Saigh

SS#: --7420

with certification for having successfully completed the 4 hours which meets the requirements for

Asbestos Inspector Refresher Training Course

Complying with the requirements of MI Public Act 440 of 1988 as amended, OSHA 29 CFR 1926.1101 & 40 CFR Part 763 (ASHERA) as required under Title II of the Toxic Substance Control Act (TSCA)

Course Dates: February 1, 2013

Expiration Date February 1, 2014


Trainer



ETC President