



October 24, 2018

Mr. Greg Bachy  
Assistant Borough Manager  
Swissvale Borough  
7560 Roslyn Street  
Pittsburgh, PA 15218

Re: Asbestos Survey  
Multiple Storefront Addresses in Swissvale Borough  
Pittsburgh, Pennsylvania

Dear Mr. Bachy:

KU Resources, Inc. (KU Resources) is pleased to provide the Borough of Swissvale (the Borough) with the following letter regarding the asbestos-containing materials (ACM) at 15 vacant properties located in the Borough of Swissvale, Pennsylvania (otherwise known as the "Sites"). The Sites are vacant commercial and residential structures located throughout Swissvale Borough. The Sites were visited on September 18, 2018 and are summarized on the following table:

Address	Building Type
7405 Irvine	1-Story Commercial Structure
7407 Irvine	1-Story Commercial Structure
7409 Irvine	1-Story Commercial Structure
7411 Irvine	1-Story Commercial Structure
7415 Irvine	1-Story Commercial Structure

7415 Irvine was interconnected with 7413 Irvine and considered the same address for survey purposes. At the time of the survey, the commercial structures all were in good condition. The roof of the complex was not sampled to avoid creating any water leaks that would have caused damage to the building interior.

### Asbestos Assessment

The buildings, surrounding open areas, and visible materials were inspected for suspect ACM. Areas behind walls and above ceilings were accessed. All collected samples were analyzed by AGX, Inc. (AGX), headquartered in Wexford, Pennsylvania. AGX is accredited by the National Voluntary Laboratory Program. The samples were analyzed using Polarized Light Microscopy with dispersion staining. A collected sample was considered "positive" for asbestos if it contained greater than 1% asbestos. Materials that tested <10% under PLM were point counted for verification when possible.

The collection of suspect materials was performed under the direction of a United States Environmental Protection Agency (U.S. EPA) Region III-licensed building inspector (Gregory Sanchez #034982) using industry standard sampling protocols, and following the U.S. EPA's National Emission Standards for Hazardous Air Pollutants-recommended procedure 40 Code of Federal Regulations (CFR) 61, Subpart M. The analysis for the suspect materials was conducted using U.S. EPA Method 40 CFR Chapter I (1-1-87 Edition) protocols. Under current U.S. EPA regulations, materials containing more than 1% of asbestos are considered ACM and are, therefore, subject to a variety of local, state, and federal regulations.

Materials sampled included the following:

- Cove molding
- Floor Tile
- Floor Sheeting
- Drywall
- Wall Plaster
- Ceiling Plaster
- Ceiling Tile

Based on laboratory results, the following materials are considered ACM:

- 7405 Irvine
  - 12x12 gray vinyl floor tile – throughout store – 1,200 SF
  - 9x9 gray vinyl floor tile – utility closet – 6 SF
  - 9x9 red vinyl floor tile – utility closet - 6 SF
- 7407 Irvine
  - 12x12 gray vinyl floor tile – throughout store – 1,200 SF
  - 9x9 gray vinyl floor tile – utility closet – 6 SF
  - 9x9 red vinyl floor tile – utility closet – 6 SF
- 7409 Irvine
  - 9x9 gray and 9x9 black vinyl floor tile – furnace area and under carpet – 1,875 SF
- 7411 Irvine
  - 9x9 green vinyl floor tile – front closet and general area – 1,000 SF
  - Beige vinyl floor sheet - exam room – 100 SF
  - White vinyl floor sheet – bathroom – 100 SF
- 7415 Irvine
  - 12x12 white vinyl floor tile – main area – 3,100 SF
  - 9x9 brown and 9x9 gray vinyl floor tile - side room (7413 Irvine) – 1,200 SF

The attached table summarizes the samples collected and the analytical results.

### Summary

KU Resources performed an ACM Survey at various storefront addresses at a building in the Borough of Swissvale. ACM was identified in the structure at all of the addresses.

If you have any questions regarding this letter, please contact our office at your earliest convenience.

Respectfully submitted,



Gregory Sanchez  
Asbestos Building Inspector

GSS:cak

Attachments



**ATTACHMENT**



**Attachment A**  
**ACM Laboratory Results**



Table  
Bulk Sample Log

Sample ID	Material Location	Description	Color	Type	Asbestos Detected	Quantity
7405-CM-01	Throughout 7405 Irvine	4 inch cove molding	Black some places painted	Misc	none	NA
7405-CM-02						
7405-CM-03	7405 Irvine, Examination room	Cove molding	Tan	Misc	none	NA
7405-CM-04						
7405-CT-01	7405 Irvine, Building	2x4 ceiling tile	White	Misc	none	NA
7405-CT-02						
7405-FT-01	7405 and 7407 Irvine	12x12 floor tile	Gray	Misc	2-3% chrysotile in tile, 9-10% in mastic	2400 SF (1,200 SF in each address)
7405-FT-02						
7405-FT-03	Closet of 7405 and 7407	9x9 floor tile	Gray	Misc	5-6% chrysotile in tile	12SF (6 SF in each address)
7405-FT-04						
7405-FT-05	Closet of 7405 and 7407	9x9 floor tile	Red	Misc	6-7% chrysotile in tile	12SF (6 SF in each address)
7405-FT-06						
7405-DW-01	7405, whole building	Wall board	White	Misc	none	NA
7405-DW-02						
7405-PL-01	Walls and ceiling plaster throughout all addresses	plaster	Tan and white	Surface	none	NA
7405-PL-02						
7407-PL-03						
7407-PL-04						
7407-PL-05						
7409-PL-06						
7411-PL-07						
7415-PL-08						
7415-PL-09						
7405-FT-07						
7405-FT-08						
7407-DW-01	7407, wall	Dry wall	Tan	Misc	none	NA
7407-DW-02						
7407-FT-01	7407, entrance	Floor sheet	Brown glue	Misc	none	NA
7407-FT-02						
7409-FT-01	7409 Irvine, under all carpets	9x9	Black	Misc	5-6% chrysotile in tile	1875 SF combined both tiles
7409-FT-02						
7409-FT-03	7409 Irvine, under all carpets, furnace	9x9	Gray	Misc	7-8% chrysotile in tile	NA
7409-FT-04						
7409-FT-05	7409, bathroom	Vinyl sheeting	Tan	Misc	none	NA
7409-FT-06						
7409-DW-01	7409 Irvine	Wall	White	Misc	none	NA
7409-DW-02						
7411-CT-01	7411, ceiling	12x12 tile	White	Misc	none	NA
7411-CT-02						
7411-CM-01	7411, wall	Wall	Tan	Misc	none	NA
7411-CM-02						



Table  
Bulk Sample Log

Sample ID	Material Location	Description	Color	Type	Asbestos Detected	Quantity
7411-FT-01	741, front closet and general area	9x9	Green	Misc	7-8% chrysotile in tile	1000 SF
7411-FT-02		Diamond vinyl sheet	Beige	Misc	88 - 90% chrysotile in backing	100 SF
7411-FT-03	7411. exam room	Vinyl floor sheeting	White	Misc	7-8% chrysotile in tile	100 SF
7411-FT-04	7411, bathroom	Wall	Wallpaper	Misc	none	NA
7411-FT-05	7411, drywall					
7411-FT-06						
7411-DW-01						
7411-DW-02						
7415-FT-01	7415, main floor	12x12	White	Misc	2-3% chrysotile in gray tile, 9-10% in mastic	3,100 SF
7415-FT-02						
7415-FT-03	7415, side wall	9x9	Brown	Misc	6-7% chrysotile in tile	1,200 SF combined both tiles
7415-FT-04	7415, side room	9x9	Gray	Misc	6-7% chrysotile in tile	
7415-FT-05						
7415-FT-06	7415, bathroom	4 inch	Green	Misc	none	NA
7415-CM-01						
7415-CM-02						
7415-DW-01	7415, bathroom wall	Wall	White	Misc	none	NA
7415-DW-02						



## REPORT OF BULK SAMPLE ANALYSIS

Report To: KU Resources, Inc.  
22 South Linden Street  
Duquesne, PA 15110

Attention: Mr. Gregory Sanchez

Project: Swissvale Shops

Lab No: 1809129  
Customer Code: KUR  
Customer No: Verbal  
Sampled by: Customer  
Date Received: September 19, 2018  
Date Analyzed: September 21, 2018  
Date Reported: September 25, 2018

Sample I.D.	668722	668723	668724
Customer I.D. Sample Description:	7405-CM-01 Cove Molding and Mastic 7405 Irvine	7405-CM-02 Cove Molding and Mastic 7405 Irvine	7405-CM-03 Cove Molding and Mastics 7405 Irvine
Is It Homogeneous?	No	No	No
Does It Contain Layers?	Yes	Yes	Yes
Is the Sample Fibrous?	No	No	No
Sample Color:	Black/Yellow	Black/Yellow	Tan/Brown
Does the Sample Contain Asbestos Fibers?	No	No	No
Asbestos Type Present: (Type and Percent)	None in cove mold None in mastic	None in cove mold None in mastic	None in cove mold None in mastics
Total Percent Asbestos:	0%	0%	0%
Other Fibrous Materials (Type and Percent)	Cellulose <1%	Cellulose <1%	Cellulose <1%
Nonfibrous Constituents	Not Analyzed	Not Analyzed	Not Analyzed

Sample analyzed according to EPA Method EPA/600/R-93/116. Results are reported as estimates of percent area, subject to variability and are specific for material analyzed. Reports cannot be duplicated, except in full, without written consent of AGX, Inc. Reports may not be altered by customer. AGX, Inc. is Accredited by the National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program for selected test methods for analysis of bulk samples by Polarized Light Microscopy. NVLAP LAB CODE: 101578-0. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Results reported herein relate only to the samples tested and identified above. Polarized Light Microscopy may not be consistently reliable in the detection of asbestos in tightly organically bound materials. The EPA recommends that these samples, found to contain no asbestos by PLM, be re-analyzed by Quantitative Transmission Electron Microscopy. Estimation of uncertainty of measurement data for samples with >1.0% asbestos concentration can be provided upon request.

Reviewed and  
Approved By:   
AGX, Inc. Daniel Winkle  
Laboratory Manager

Analyzed By:   
AGX, Inc. Mark Porter  
Geologist

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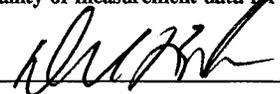
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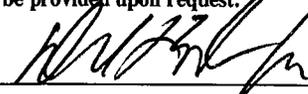
Sample I.D.	668725	668726	668727
Customer I.D. Sample Description:	7405-CM-04 Cove Molding and Mastics 7405 Irvine	7405-CT-01 Ceiling Tile 7405 Irvine	7405-CT-02 Ceiling Tile 7405 Irvine
Is It Homogeneous?	No	No	No
Does It Contain Layers?	Yes	Yes	Yes
Is the Sample Fibrous?	No	Yes	Yes
Sample Color:	Tan/Brown	Tan/White	Tan/White
Does the Sample Contain Asbestos Fibers?	No	No	No
Asbestos Type Present: (Type and Percent)	None in cove mold None in mastics	None	None
Total Percent Asbestos:	0%	0%	0%
Other Fibrous Materials (Type and Percent)	Cellulose <1%	Fibrous Glass 5% Cellulose 80%	Fibrous Glass 5% Cellulose 80%
Nonfibrous Constituents	Not Analyzed	Not Analyzed	Not Analyzed

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- Air Monitoring
- Testing Laboratory
- Project Management
- Surveys

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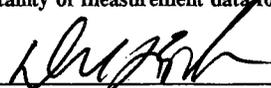
Sample I.D.	668728	668729	668730 **
Customer I.D. Sample Description:	7405-FT-01 Floor Tile and Mastics 7405 Irvine	7405-FT-02 Floor Tile and Mastics 7405 Irvine	7405-FT-03 Floor Tile and Mastic 7405 Irvine
Is It Homogeneous?	No	No	No
Does It Contain Layers?	Yes	Yes	Yes
Is the Sample Fibrous?	No	No	No
Sample Color:	Gray/Yl/Black	Gray/Yl/Black	Gray/Tan/Black
Does the Sample Contain Asbestos Fibers?	Yes	Yes	Yes
Asbestos Type Present: (Type and Percent)	<b>Chrysotile</b> 2-3% in tile 9-10% in bk mstc None in yl mstc	<b>Chrysotile</b> 2-3% in tile 9-10% in bk mstc None in yl mstc	<b>Chrysotile</b> 3.75% in tile None in mastic
Total Percent Asbestos:	4-5%	4-5%	3.75%
Other Fibrous Materials (Type and Percent)	Cellulose 1%	Cellulose 1%	Cellulose 0.5%
Nonfibrous Constituents	Not Analyzed	Not Analyzed	Not Analyzed

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\*\* Sample analyzed by point count method to obtain percentage per NESHAP.

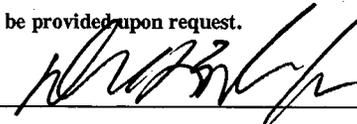
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Laboratory Manager

Analyzed By:



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Geologist

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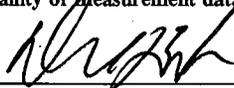
Sample I.D.	668731	668732 **	668733 *
Customer I.D. Sample Description:	7405-FT-04 Floor Tile and Mastic 7405 Irvine	7405-FT-05 Floor Tile and Mastic 7405 Irvine	7405-FT-06 Floor Tile and Mastic 7405 Irvine
Is It Homogeneous?	No	No	No
Does It Contain Layers?	Yes	Yes	Yes
Is the Sample Fibrous?	No	No	No
Sample Color:	Gray/Tan/Black	Bn/Tan/Red/Bk	Bn/Tan/Red/Black
Does the Sample Contain Asbestos Fibers?	Yes	Yes	Yes
Asbestos Type Present: (Type and Percent)	<b>Chrysotile</b> 5-6% in tile  None in mastic	<b>Chrysotile</b> 4.25% in tile  None in mastic	<b>Chrysotile</b> 6-7% in tile  None in mastic
Total Percent Asbestos:	5-6%	4.25%	6-7%
Other Fibrous Materials (Type and Percent)	Cellulose 1%	Cellulose 0.5%	Cellulose 1%
Nonfibrous Constituents	Not Analyzed	Not Analyzed	Not Analyzed

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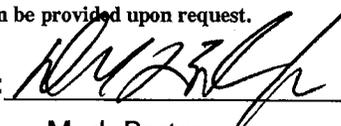
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Laboratory Manager

Analyzed By:



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Mark Porter  
Geologist

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Sample I.D.	668734	668735	668736
Customer I.D. Sample Description:	7405-DW-01 Drywall 7405 Irvine	7405-DW-02 Drywall 7405 Irvine	7405-PL-01 Plaster 7405 Irvine
Is It Homogeneous?	No	No	Yes
Does It Contain Layers?	Yes	Yes	No
Is the Sample Fibrous?	Yes	Yes	No
Sample Color:	White/Brown	White/Brown	Gray
Does the Sample Contain Asbestos Fibers?	No	No	No
Asbestos Type Present: (Type and Percent)	None	None	None
Total Percent Asbestos:	0%	0%	0%
Other Fibrous Materials (Type and Percent)	Cellulose 18%	Cellulose 18%	Cellulose 1%
Nonfibrous Constituents	Not Analyzed	Not Analyzed	Not Analyzed

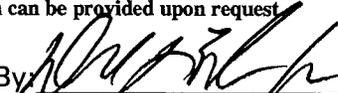
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Approved By:



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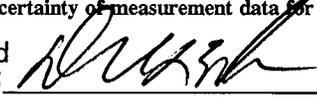
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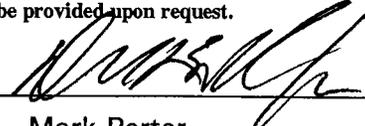
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Sample I.D.	668737	668738	668739
Customer I.D. Sample Description:	7405-PL-02 Plaster 7405 Irvine	7405-FT-07 Floor Sheet and Mastics 7405 Irvine	7405-FT-08 Floor Sheet and Mastics 7405 Irvine
Is It Homogeneous?	Yes	No	No
Does It Contain Layers?	No	Yes	Yes
Is the Sample Fibrous?	No	No	No
Sample Color:	Gray	White/Bl/Yl/Black	White/Bl/Yl/Black
Does the Sample Contain Asbestos Fibers?	No	No	No
Asbestos Type Present: (Type and Percent)	None	None in sheeting None in mastics	None in sheeting None in mastics
Total Percent Asbestos:	0%	0%	0%
Other Fibrous Materials (Type and Percent)	Cellulose 1%	Cellulose 1%	Cellulose 1%
Nonfibrous Constituents	Not Analyzed	Not Analyzed	Not Analyzed

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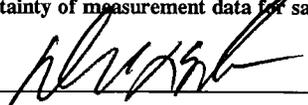
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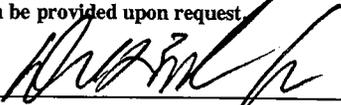
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Sample I.D.	668740	668741	668742
Customer I.D. Sample Description:	7407-DW-01 Drywall 7407 Irvine	7407-DW-02 Drywall 7407 Irvine	7407-PL-03 Plaster 7407 Irvine
Is It Homogeneous?	No	No	No
Does It Contain Layers?	Yes	Yes	Yes
Is the Sample Fibrous?	Yes	Yes	Yes
Sample Color:	White/Brown	White/Brown	Gray/White
Does the Sample Contain Asbestos Fibers?	No	No	No
Asbestos Type Present: (Type and Percent)	None	None	None
Total Percent Asbestos:	0%	0%	0%
Other Fibrous Materials (Type and Percent)	Cellulose 18%	Cellulose 18%	Cellulose 3%
Nonfibrous Constituents	Not Analyzed	Not Analyzed	Not Analyzed

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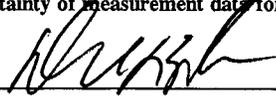
Attention: Mr. Gregory Sanchez

Project: Swissvale Shops

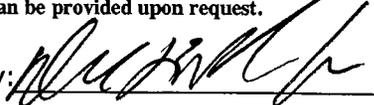
Lab No: 1809129  
Customer Code: KUR  
Customer No: Verbal  
Sampled by: Customer  
Date Received: September 19, 2018  
Date Analyzed: September 24, 2018  
Date Reported: September 25, 2018

Sample I.D.	668743	668744	668745
Customer I.D. Sample Description:	7407-PL-04 Plaster 7407 Irvine	7407-PL-05 Plaster 7407 Irvine	7407-FT-01 Floor Sheet and Mastics 7407 Irvine
Is It Homogeneous?	No	No	No
Does It Contain Layers?	Yes	Yes	Yes
Is the Sample Fibrous?	Yes	Yes	Yes
Sample Color:	Gray/White	Gray/White	Tan/White/Bn/Bk
Does the Sample Contain Asbestos Fibers?	No	No	No
Asbestos Type Present: (Type and Percent)	None	None	None in sheeting None in mastics
Total Percent Asbestos:	0%	0%	0%
Other Fibrous Materials (Type and Percent)	Cellulose 3%	Cellulose 3%	Fibrous Glass 7% Cellulose 25%
Nonfibrous Constituents	Not Analyzed	Not Analyzed	Not Analyzed

Sample analyzed according to EPA Method EPA/600/R-93/116. Results are reported as estimates of percent area, subject to variability and are specific for material analyzed. Reports cannot be duplicated, except in full, without written consent of AGX, Inc. Reports may not be altered by customer. AGX, Inc. is Accredited by the National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program for selected test methods for analysis of bulk samples by Polarized Light Microscopy. NVLAP LAB CODE: 101578-0. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Results reported herein relate only to the samples tested and identified above. Polarized Light Microscopy may not be consistently reliable in the detection of asbestos in tightly organically bound materials. The EPA recommends that these samples, found to contain no asbestos by PLM, be re-analyzed by Quantitative Transmission Electron Microscopy. Estimation of uncertainty of measurement data for samples with >1.0% asbestos concentration can be provided upon request.

Reviewed and Approved By: 

AGX, Inc. Daniel Winkle  
Laboratory Manager

Analyzed By: 

AGX, Inc. Mark Porter  
Geologist

# AGX, Inc.

- Air Monitoring
- Testing Laboratory
- Project Management
- Surveys

## REPORT OF BULK SAMPLE ANALYSIS

Report To: KU Resources, Inc.  
22 South Linden Street  
Duquesne, PA 15110

Attention: Mr. Gregory Sanchez

Project: Swissvale Shops

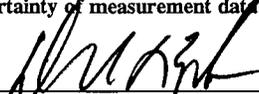
Lab No: 1809129  
Customer Code: KUR  
Customer No: Verbal  
Sampled by: Customer  
Date Received: September 19, 2018  
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Date Reported: September 25, 2018

Sample I.D.	668746	668747 **	668748 *
Customer I.D. Sample Description:	7407-FT-02 Floor Sheet and Mastics 7407 Irvine	7409-FT-01 Floor Tile and Mastic 7409 Irvine	7409-FT-02 Floor Tile and Mastic 7409 Irvine
Is It Homogeneous?	No	No	No
Does It Contain Layers?	Yes	Yes	Yes
Is the Sample Fibrous?	Yes	No	No
Sample Color:	Tan/Wt/Bn/Bk	Black	Black
Does the Sample Contain Asbestos Fibers?	No	Yes	Yes
Asbestos Type Present: (Type and Percent)	None in sheet None in mastics	Chrysotile 2.25% in tile None in mastic	Chrysotile 5-6% in tile None in mastic
Total Percent Asbestos:	0%	2.25%	5-6%
Other Fibrous Materials (Type and Percent)	Fibrous Glass 7% Cellulose 25%	Cellulose 0.75%	Cellulose 1%
Nonfibrous Constituents	Not Analyzed	Not Analyzed	Not Analyzed

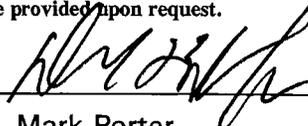
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\*\* Sample analyzed by point count method to obtain percentage per NESHAP.

Estimation of uncertainty of measurement data for samples with >1.0% asbestos concentration can be provided upon request.

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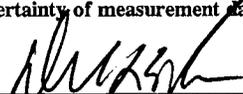
Sample I.D.	668749 **	668750 *	668751
Customer I.D. Sample Description:	7409-FT-03 Floor Tile and Mastic 7409 Irvine	7409-FT-04 Floor Tile and Mastic 7409 Irvine	7409-FT-05 Floor Sheet and Mastic 7409 Irvine
Is It Homogeneous?	No	No	No
Does It Contain Layers?	Yes	Yes	Yes
Is the Sample Fibrous?	Yes	Yes	No
Sample Color:	Gray/Black	Gray/Black	Gray/Tan/Bn/Clear
Does the Sample Contain Asbestos Fibers?	Yes	Yes	No
Asbestos Type Present: (Type and Percent)	<b>Chrysotile</b> 6.25% in tile  None in mastic	<b>Chrysotile</b> 7-8% in tile  None in mastic	None in sheet  None in mastic
Total Percent Asbestos:	6.25%	7-8%	0%
Other Fibrous Materials (Type and Percent)	Cellulose 0.75%	Cellulose 1%	Cellulose 1%
Nonfibrous Constituents	Not Analyzed	Not Analyzed	Not Analyzed

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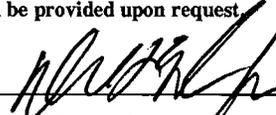
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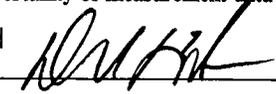
Attention: Mr. Gregory Sanchez

Project: Swissvale Shops

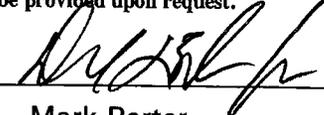
Lab No: 1809129  
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Sampled by: Customer  
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Sample I.D.	668752	668753	668754
Customer I.D. Sample Description:	7409-FT-06 Floor Sheet and Mastic 7409 Irvine	7409-DW-01 Drywall 7409 Irvine	7409-DW-02 Drywall 7409 Irvine
Is It Homogeneous?	No	No	No
Does It Contain Layers?	Yes	Yes	Yes
Is the Sample Fibrous?	No	Yes	Yes
Sample Color:	Gray/Tan/Bn/Clear	White/Brown	White/Brown
Does the Sample Contain Asbestos Fibers?	No	No	No
Asbestos Type Present: (Type and Percent)	None in sheet None in mastic	None	None
Total Percent Asbestos:	0%	0%	0%
Other Fibrous Materials (Type and Percent)	Cellulose 1%	Cellulose 12%	Cellulose 12%
Nonfibrous Constituents	Not Analyzed	Not Analyzed	Not Analyzed

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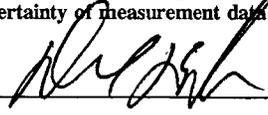
Attention: Mr. Gregory Sanchez

Project: Swissvale Shops

Lab No: 1809129  
Customer Code: KUR  
Customer No: Verbal  
Sampled by: Customer  
Date Received: September 19, 2018  
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Sample I.D.	668755	668756	668757
Customer I.D. Sample Description:	7409-PL-06 Plaster 7409 Irvine	7411-CT-01 Ceiling Tile 7411 Irvine	7411-CT-02 Ceiling Tile 7411 Irvine
Is It Homogeneous?	No	No	No
Does It Contain Layers?	Yes	Yes	Yes
Is the Sample Fibrous?	No	Yes	Yes
Sample Color:	Gray/White	Brown/White	Brown/White
Does the Sample Contain Asbestos Fibers?	No	No	No
Asbestos Type Present: (Type and Percent)	None	None	None
Total Percent Asbestos:	0%	0%	0%
Other Fibrous Materials (Type and Percent)	Cellulose 1%	Cellulose 97%	Cellulose 97%
Nonfibrous Constituents	Not Analyzed	Not Analyzed	Not Analyzed

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Customer No: Verbal  
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Sample I.D.	668758	668759	668760 **
Customer I.D. Sample Description:	7411-CM-01 Cove Molding and Mastic 7411 Irvine	7411-CM-02 Cove Molding and Mastic 7411 Irvine	7411-FT-01 Floor Tile and Mastic 7411 Irvine
Is It Homogeneous?	No	No	No
Does It Contain Layers?	Yes	Yes	Yes
Is the Sample Fibrous?	No	No	No
Sample Color:	Black/Brown	Black/Brown	Green/Tan/Black
Does the Sample Contain Asbestos Fibers?	No	No	Yes
Asbestos Type Present: (Type and Percent)	None in cove mold None in mastic	None in cove mold None in mastic	Chrysotile 6.5% in tile None in mastic
Total Percent Asbestos:	0%	0%	6.5%
Other Fibrous Materials (Type and Percent)	Cellulose <1%	Cellulose <1%	Cellulose 1.0%
Nonfibrous Constituents	Not Analyzed	Not Analyzed	Not Analyzed

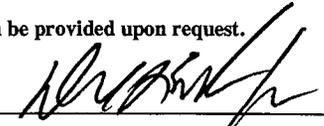
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\*\* Sample analyzed by point count method to obtain percentage per NESHAP.

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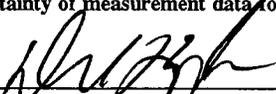
Project: Swissvale Shops

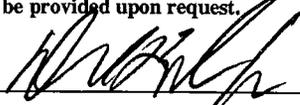
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Customer No: Verbal  
Sampled by: Customer  
Date Received: September 19, 2018  
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Sample I.D.	668761	* 668762	668763
Customer I.D. Sample Description:	7411-FT-02 Floor Tile and Mastic	7411-FT-03 Linoleum	7411-FT-04 Linoleum
Is It Homogeneous?	No	No	No
Does It Contain Layers?	Yes	Yes	Yes
Is the Sample Fibrous?	No	Yes	Yes
Sample Color:	Green/Tan/Black	Tan/White/Yl	Tan/White/Yellow
Does the Sample Contain Asbestos Fibers?	Yes	Yes	Yes
Asbestos Type Present: (Type and Percent)	Chrysotile 7-8% in tile  None in mastic	Chrysotile 88-90% in  backing	Chrysotile 88-90% in  backing
Total Percent Asbestos:	7-8%	44-45%	44-45%
Other Fibrous Materials (Type and Percent)	Cellulose <1%	Cellulose 6%	Cellulose 6%
Nonfibrous Constituents	Not Analyzed	Not Analyzed	Not Analyzed

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Estimation of uncertainty of measurement data for samples with >1.0% asbestos concentration can be provided upon request.

Reviewed and Approved By: 

Analyzed By: 

AGX, Inc. Daniel Winkle  
Laboratory Manager

AGX, Inc. Mark Porter  
Geologist

207 Pine Creek Road, Wexford, PA 15090-9228, (724) 934-4249, FAX (724) 934-5677

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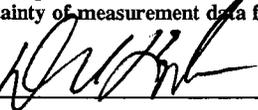
Sample I.D.	668764 **	668765 *	668766
Customer I.D. Sample Description:	7411-FT-05 Floor Tile and Mastic 7411 Irvine	7411-FT-06 Floor Tile and Mastic 7411 Irvine	7411-DW-01 Drywall 741 Irvine
Is It Homogeneous?	No	No	No
Does It Contain Layers?	Yes	Yes	Yes
Is the Sample Fibrous?	No	No	Yes
Sample Color:	Tan/Green/Black	Tan/Green/Black	White/Brown
Does the Sample Contain Asbestos Fibers?	Yes	Yes	No
Asbestos Type Present: (Type and Percent)	<b>Chrysotile</b> 3.5% in tile  None in mastic	<b>Chrysotile</b> 7-8% in tile  None in mastic	None
Total Percent Asbestos:	3.5%	7-8%	0%
Other Fibrous Materials (Type and Percent)	Cellulose 0.75%	Cellulose 1%	Cellulose 18%
Nonfibrous Constituents	Not Analyzed	Not Analyzed	Not Analyzed

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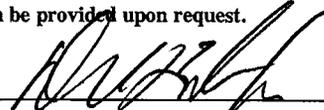
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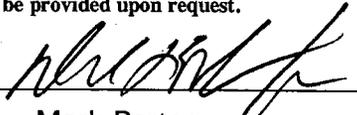
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Sample I.D.	668767	668768	668769
Customer I.D. Sample Description:	7411-DW-02 Drywall 7411 Irvine	7411-PL-07 Plaster 7411 Irvine	7415-FT-01 Floor Tile and Mastic 7415 Irvine 2 Layers
Is It Homogeneous?	No	No	No
Does It Contain Layers?	Yes	Yes	Yes
Is the Sample Fibrous?	Yes	No	No
Sample Color:	White/Brown	Gray/Green	Gray/Tan/Bn/Yl/Bk
Does the Sample Contain Asbestos Fibers?	No	No	Yes
Asbestos Type Present: (Type and Percent)	None	None	Chrysotile 2-3% gray tile 9-10% bk mastic None tn tle/yl ms
Total Percent Asbestos:	0%	0%	2-3%
Other Fibrous Materials (Type and Percent)	Cellulose 18%	Cellulose 1%	Cellulose 1%
Nonfibrous Constituents	Not Analyzed	Not Analyzed	Not Analyzed

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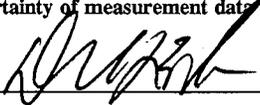
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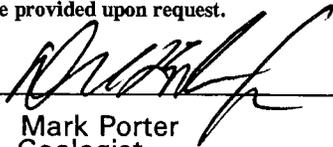
Sample I.D.	668770	668771	** 668772 *
Customer I.D. Sample Description:	7415-FT-02 Floor Tile and Mastic 7415 Irvine 2 Layers	7415-FT-03 Floor Tile and Mastic 745 Irvine	7415-FT-04 Floor Tile and Mastic 7415 Irvine
Is It Homogeneous?	No	No	No
Does It Contain Layers?	Yes	Yes	Yes
Is the Sample Fibrous?	No	No	No
Sample Color:	Gray/Tan/Bn/Yl/Bk	Bn/Tan/Black	Brown/Tan/Black
Does the Sample Contain Asbestos Fibers?	Yes	Yes	Yes
Asbestos Type Present: (Type and Percent)	<b>Chrysotile</b> 2-3% gray tile 9-10% bk mastic None tan tile/yl ms	<b>Chrysotile</b> 2.5% in tile None in mastic	<b>Chrysotile</b> 6-7% in tile None in mastic
Total Percent Asbestos:	2-3%	2.5%	6-7%
Other Fibrous Materials (Type and Percent)	Cellulose 1%	Cellulose 0.25%	Cellulose 1%
Nonfibrous Constituents	Not Analyzed	Not Analyzed	Not Analyzed

Sample analyzed according to EPA Method EPA/600/R-93/116. Results are reported as estimates of percent area, subject to variability and are specific for material analyzed. Reports cannot be duplicated, except in full, without written consent of AGX, Inc. Reports may not be altered by customer. AGX, Inc. is Accredited by the National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program for selected test methods for analysis of bulk samples by Polarized Light Microscopy. NVLAP LAB CODE: 101578-0. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Results reported herein relate only to the samples tested and identified above. Polarized Light Microscopy may not be consistently reliable in the detection of asbestos in tightly organically bound materials. The EPA recommends that these samples, found to contain no asbestos by PLM, be re-analyzed by Quantitative Transmission Electron Microscopy.

\*\* Sample analyzed by point count method to obtain percentage per NESHAP.

Estimation of uncertainty of measurement data for samples with >1.0% asbestos concentration can be provided upon request.

Reviewed and  
Approved By:   
AGX, Inc. Daniel Winkle  
Laboratory Manager

Analyzed By:   
AGX, Inc. Mark Porter  
Geologist

# AGX, Inc.

- Air Monitoring
- Testing Laboratory
- Project Management
- Surveys

## REPORT OF BULK SAMPLE ANALYSIS

Report To: KU Resources, Inc.  
22 South Linden Street  
Duquesne, PA 15110

Attention: Mr. Gregory Sanchez

Project: Swissvale Shops

Lab No: 1809129  
Customer Code: KUR  
Customer No: Verbal  
Sampled by: Customer  
Date Received: September 19, 2018  
Date Analyzed: September 24, 2018  
Date Reported: September 25, 2018

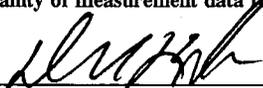
Sample I.D.	668773	** 668774	668775
Customer I.D. Sample Description:	7415-FT-05 Floor Tile and Mastic 7415 Irvine	7415-FT-06 Floor Tile and Mastic 7415 Irvine	7415-CM-01 Cove Molding and Mastics 7415 Irvine
Is It Homogeneous?	No	No	No
Does It Contain Layers?	Yes	Yes	Yes
Is the Sample Fibrous?	No	No	No
Sample Color:	Tan/Brown/Black	Tan/Brown/Black	Black/Tan/Brown
Does the Sample Contain Asbestos Fibers?	Yes	Yes	No
Asbestos Type Present: (Type and Percent)	Chrysotile 3.25% in tile  None in mastic	Chrysotile 6-7% in tile  None in mastic	None in cove  mold  None in mastics
Total Percent Asbestos:	3.25%	6-7%	0%
Other Fibrous Materials (Type and Percent)	Cellulose 0.25%	Cellulose 1%	Cellulose <1%
Nonfibrous Constituents	Not Analyzed	Not Analyzed	Not Analyzed

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\*\* Sample analyzed by point count method to obtain percentage per NESHAP.

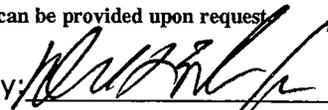
Estimation of uncertainty of measurement data for samples with >1.0% asbestos concentration can be provided upon request.

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Approved By:



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Laboratory Manager

Analyzed By:



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Geologist

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Attention: Mr. Gregory Sanchez

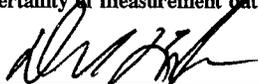
Project: Swissvale Shops

Lab No: 1809129  
Customer Code: KUR  
Customer No: Verbal  
Sampled by: Customer  
Date Received: September 19, 2018  
Date Analyzed: September 24, 2018  
Date Reported: September 25, 2018

Sample I.D.	668776	668777	668778
Customer I.D. Sample Description:	7415-CM-02 Cove Molding and Mastics 7415 Irvine	7415-DW-01 Drywall 7415 Irvine	7415-DW-02 Drywall 7415 Irvine
Is It Homogeneous?	No	No	No
Does It Contain Layers?	Yes	Yes	Yes
Is the Sample Fibrous?	No	No	Yes
Sample Color:	Black/Tan/Brown	Tan	Tan/White/Brown
Does the Sample Contain Asbestos Fibers?	No	No	No
Asbestos Type Present: (Type and Percent)	None in cove mold None in mastics	None	None
Total Percent Asbestos:	0%	0%	0%
Other Fibrous Materials (Type and Percent)	Cellulose <1%	Cellulose 1%	Cellulose 5%
Nonfibrous Constituents	Not Analyzed	Not Analyzed	Not Analyzed

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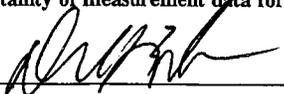
Attention: Mr. Gregory Sanchez

Project: Swissvale Shops

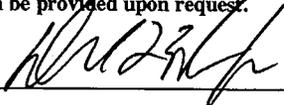
Lab No: 1809129  
Customer Code: KUR  
Customer No: Verbal  
Sampled by: Customer  
Date Received: September 19, 2018  
Date Analyzed: September 24, 2018  
Date Reported: September 25, 2018

Sample I.D.	668779	668780	
Customer I.D. Sample Description:	7415-PL-08 Plaster 7415 Irvine	7415-PL-09 Plaster 7415 Irvine	
Is It Homogeneous?	No	No	
Does It Contain Layers?	Yes	Yes	
Is the Sample Fibrous?	Yes	Yes	
Sample Color:	Tan/White/Brown	Tan/White/Brown	
Does the Sample Contain Asbestos Fibers?	No	No	
Asbestos Type Present: (Type and Percent)	None	None	
Total Percent Asbestos:	0%	0%	
Other Fibrous Materials (Type and Percent)	Cellulose 5%	Cellulose 5%	
Nonfibrous Constituents	Not Analyzed	Not Analyzed	

Sample analyzed according to EPA Method EPA/600/R-93/116. Results are reported as estimates of percent area, subject to variability and are specific for material analyzed. Reports cannot be duplicated, except in full, without written consent of AGX, Inc. Reports may not be altered by customer. AGX, Inc. is Accredited by the National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program for selected test methods for analysis of bulk samples by Polarized Light Microscopy. NVLAP LAB CODE: 101578-0. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Results reported herein relate only to the samples tested and identified above. Polarized Light Microscopy may not be consistently reliable in the detection of asbestos in tightly organically bound materials. The EPA recommends that these samples, found to contain no asbestos by PLM, be re-analyzed by Quantitative Transmission Electron Microscopy. Estimation of uncertainty of measurement data for samples with >1.0% asbestos concentration can be provided upon request.

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