



ARCHITECTURE  
INTERIOR DESIGN  
PLANNING

White River Apartments  
Diaz, AR

August 6, 2016

### **Addendum #2**

Contract Documents for the above referenced project are hereby amended by the following items. These items shall have full force and effect and shall take precedence over the original contract documents as provided herein. All items not changed by the addendum shall remain in effect. Contractors may download the referenced revised documents from the Dropbox link set up for this project.

1. Specification Appendix B – Asbestos Report and Abatement Protocol attached.
2. Specification Appendix D – Radon Report attached.
3. Specification Appendix F – Mold and Roach Feces Protocol attached.
4. Specification Sections 031100, 032000, 033000, 051200, 053100, 055000 and 061000 Revisions attached.
5. Specification Section 099100 Clarification – Refer to Part 2.1 for approved manufacturers.
6. Specification Section 099656 Epoxy Flooring – Duraguard 120 has been discontinued. Provide and install Sikafloor 216 per manufacturer's instructions. Color selected by Owner.
7. Refer to Sheet SD-1 – Note that there are three (3) large rocks within each of the center islands of the two parking lots. These six (6) rocks shall be removed and disposed of by GC.
8. Refer to Sheet SD-2 Detail 8 – Replace with 8/SD-2 attached.
9. Refer to Sheets A1.0, A1.1, A1.2, A1.3, A1.4 "General Note" – Clarification – The Property was constructed in 1981, after the 1978 ban on Lead Based Paint therefore LBP is not suspected to be present.
10. Refer to Sheets A1.0, A1.1 Typical Units Note 21 – Change to read as follows:  
Remove all carpet, seamless vinyl and/or peel and stick vinyl flooring down to existing subfloor, concrete or VCT w/ asbestos mastic to remain. Remove wall base. Prep floors and install new vinyl plank flooring through-out entire apartment (See Specification Section 096513-3.2). Provide and install new vinyl wall base. Patch and repair walls, apply orange peel texture and paint. Patch and repair ceiling (re-texture as required) and paint.
11. Refer to Sheets A1.0, A1.1 Typical Units Note 22 – Change to read as follows:  
Remove all seamless vinyl and/or peel and stick vinyl flooring down to existing subfloor, concrete or VCT w/ asbestos mastic to remain. Remove wall base. Prep floors, install ¼ cement board underlayment and install new porcelain tile flooring. Provide and install new vinyl wall base. Patch and repair walls to smooth finish and paint. Patch and repair ceiling to smooth finish and paint.
12. Refer to Sheets A1.2, A1.3, A1.4 Accessible Units Note 21 – Change to read as follows:  
Remove all flooring layers and abate asbestos containing materials per protocol. Prep concrete floors and install new vinyl plank flooring through-out entire apartment (See Specification Section 096513-3.2). Provide and install new vinyl wall base. Patch and repair walls, apply orange peel texture and paint. Patch and repair ceiling (re-texture as required) and paint.
13. Refer to Sheets A1.2, A1.3, A1.4 Accessible Units Note 22 – Change to read as follows:  
Remove all flooring layers and abate asbestos containing materials per protocol. Prep concrete floors and install new porcelain tile flooring. Provide and install new vinyl wall base. Patch and repair walls to smooth finish and paint. Patch and repair ceiling to smooth finish and paint.
14. Refer to Sheet A1.5 – Provide and install recessed Medicine Cabinet (ASI #8340) on the perpendicular wall adjacent to all lavatories.

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15. Refer to Sheet A1.7 Details 12 and 13 – Where 2x2 dropped ceiling wood members span greater than 4ft provide and install 1" wide, 20 gauge galvanized steel strapping secured to floor/roof structure above and to 2x2 member with #6 wood screws such that the maximum span of the 2x2 member is 4ft.
16. Refer to Sheets A3.0 and A3.1 – Change downspout size to 3x4.
17. Refer to Sheet A4.0 Elevation 1/A4.0 – Omit reference to CT Wall backsplash.

End of Addendum #2

**APPENDIX 'B'**

**ACM ABATEMENT PROTOCOL**



August 2, 2016

**ASBESTOS ABATEMENT PROTOCOL  
WHITE RIVER APARTMENTS  
2900 MARION DRIVE  
DIAZ, ARKANSAS**

Planned renovation of White River Apartments located at 2900 Marion Drive, Diaz, Arkansas can potentially disturb asbestos-containing building materials (ACMs). An asbestos inspection by Impact Environmental, (June 13-14, 2016) identified confirmed asbestos-containing materials (ACMs) in the form of thin beige vinyl floor tile, thin red vinyl floor tile, thin brown vinyl floor tile, and thin beige-brown vinyl floor tile in the bottom layer of kitchens, kitchen closets, utility rooms, utility closets, and restrooms of the apartment buildings, according to data provided in the report. The ACMs are Category 1, non-friable. The exception is building 8, which was remodeled after a fire; the report states that no ACMs were identified in building 8.

During renovations, contractors will potentially be in contact with or be in areas with asbestos-containing materials (ACMs). Because ACMs have been identified in these areas, each worker in the area is required by OSHA to have at least a two-hour asbestos information and awareness training. Because of contact and potential disturbance of ACMs, the workers must receive and be competent in Class III and Class IV asbestos work in order to be in compliance with OSHA Construction Standard and Housekeeping Work under the General Industry Standard. After this training, each will be allowed to conduct their scope of work providing that the following protocols for Class III and Class IV work in the area of ACMs.

**SCOPE OF WORK SEQUENCE**

- **Asbestos-containing materials will be abated and area clearance confirmed by post-abatement air monitoring**
- **After clearance, renovation can be conducted in these areas.**

**ASBESTOS ABATEMENT PROTOCOL**

Because the abatement of asbestos-containing materials (ACMs) will impact greater than 160 ft<sup>2</sup>, a 10-day notification is required to be filed with the Arkansas Department of Environmental Quality.

**Only ADEQ-accredited asbestos abatement workers and abatement companies can conduct this abatement work on the ACMs – no other contractors can conduct this work without proper training and accreditation as asbestos abatement workers. OSHA regulations require air purifying respirators when working with materials that have a trace (<1%) asbestos or with ACMs (>1%).**

**ALL NON-AUTHORIZED PERSONNEL WILL BE VACATED PRIOR TO ANY WORK TO BE CONDUCTED IN THESE RESPECTIVE WORK AREAS.**

**SUMMARY**



The ACM abatement work is OSHA Class I and Class II work. The ACM vinyl tile is reported to be in good condition. Where the ACM vinyl tile will be disturbed by renovation, ACMs will be abated by gross removal.

The total square footage for confirmed asbestos tile is not provided in the report by Impact Environmental. All areas and square footages of those areas to be abated must be confirmed by the contractors bidding on the asbestos abatement.

The abatement contractor is required to have at least one copy of the required documents on site during the abatement (ADEQ Regulation 21.701).

Where ACMs will be abated, OSHA standards require air purifying respirators and appropriate personal protective equipment (PPE) be used in these areas.

Air clearance monitoring must be conducted after ACM abatement in each regulated containment area. Negative exposure assessments may be used to evaluate potential exposure in areas of minor ACM disturbance, as provided below in this document. If the negative exposure assessments are successful, the same working condition methods (e.g., wet methods) will be used during similar renovation activities without having to use asbestos abatement contractors or containment space.

#### **ABATEMENT BY GROSS REMOVAL**

The following methods will be used for the asbestos abatement:

- Isolate each work area in the units (e.g., kitchens, utility rooms, restrooms) from the adjacent areas using temporary plastic containment barriers. Six-mil poly sheeting containment systems will be erected to separate the abatement work areas (i.e., regulated area) from the non-abatement areas. Negative air systems with HEPA filters will be used inside the containment area(s) and make-up air provided. Construction of the containment systems shall meet the ADEQ, EPA, and OSHA standards, including egress and ingress and decontamination areas, if necessary.
- Non-abatement persons in the regulated areas must be vacated prior to any abatement work to be conducted in those respective regulated areas.
- Mark the entry ways with warning tape and OSHA Asbestos Health Hazard signage to prevent accidental entry to the area until abatement work areas have been cleared for reoccupation (i.e., meet the EPA/ADEQ clearance criteria of 0.01 fibers/cm<sup>3</sup>).
- Compliance procedures for air emissions control according to ADEQ Regulation No. 21 *et. seq.* for ACMs (negative air pressure with HEPA filters during all abatement operations) until air clearance is successful.
- Abatement work will only be conducted by asbestos abatement contractors trained and approved to conduct Class I and Class II asbestos work according to OSHA/TOSHA regulations.
- Turn off HVAC systems and seal HVAC vents with double poly sheeting (OSHA required).
- Abatement workers will don appropriate disposable protective clothing and half-face or full-face air purifying respirators prior to entering the work areas as required by OSHA.
- Water and liquid soap mixture (i.e., amended water) will be sprayed on the ACMs prior to any disturbance of vinyl flooring. The ACMs must be wet to the touch. If the ACMs still



create potential airborne dust, additional amended water spray will be applied to keep the materials wet and minimize airborne fibers: wet scraping and other state of the art techniques.

- Removed ACMs will be placed in double 6 mil poly bags or plastic sheeting, wetted with amended water, goose necked and taped with duct tape, and staged within the containment work area. At the end of a work shift or when work is completed in one area within the containment, ACM wastes will be transported to a poly-lined trailer, poly-lined dumpster, or enclosed truck for staging on the property for later off-site disposal. **ALL BAGS MUST BE LABELED “ASBESTOS WASTE (EPA/ADEQ regulation)**. In addition, the trailer or dumpster must be labeled as “ASBESTOS WASTE”. The trailer or dumpster will be located in an isolated area away from high foot-traffic areas in order minimize potential exposure. The trailer or dumpster will be isolated by caution tape or other tape to restrict access. If bagged wastes are placed in an enclosed truck or van, the vehicle must be locked.
- After ACM abatement, each containment or regulated work areas will be HEPA vacuumed and wet wiped using an application of amended water and other state of the art techniques to minimize asbestos fiber release. Used disposable protective clothing will be disposed in double 6 mil poly bags and goose neck taped, sealed and labeled as “ASBESTOS WASTE”.
- After abatement of an area, a third party ADEQ-accredited AHERA building inspector will inspect the cleaned area prior to the poly containment being removed.
- Air clearance monitoring will be conducted by a third party ADEQ-accredited air monitoring technician after ACM abatement is completed in a containment work area. The poly containment system can be removed only after air clearance monitoring shows that the work areas meet the EPA/ADEQ clearance criteria (<0.01 f/cc).
- ACM wastes must be disposed in a ADEQ-approved landfill accepting asbestos wastes, using asbestos waste manifests, and have a certificate of disposal for each load of asbestos wastes.
- **The abatement contractor will prepare a report of abatement procedures, waste manifests, waste disposal certificates, medical records, and personnel training records/accreditations (i.e., close-out report).**

## NEGATIVE EXPOSURE ASSESSMENTS

Negative exposure assessments can be conducted for select minor renovation/abatement activities in individual units and in common areas (e.g., anchors, floor penetrations). During the negative exposure assessments for individual units, workers performing the activities will wear appropriate respiratory protection and personal protective clothing. The area of the work will be isolated with six-mil poly sheeting (i.e., regulated containment area) and furniture/appliances/countertops covered with poly sheeting, as necessary. Negative air systems with HEPA filters will be used inside the containment area(s) using make-up air. A third party will conduct the personnel air monitoring for the workers and area air monitoring. Abatement and ACM handling disturbance activities in the units could include: floor penetrations of ACM flooring. Wet methods will be used to minimize dust exposure and drilled materials will be collected in containers with surfactant or shaving cream. If the negative exposure assessments are successful (i.e., within OSHA Permissible Exposure Limit (PEL) and Excursion Limit (EL), the same working condition methods (e.g., wet methods) shall be used during these renovation activities without the need of using asbestos abatement contractor.



For common areas, negative exposure assessments may be conducted for drilling holes into flooring. All residents in the common area will be evacuated prior to ACM disturbance. The impacted common area will be isolated with poly sheeting and appropriate warning signs posted and poly sheeting on the floors. Negative air systems with HEPA filters will be used inside the containment area(s) using make-up air. A third party will conduct the personnel air monitoring for the workers and area air monitoring. Abatement and ACM handling disturbance activities in the units will include: drilling small holes through ACM flooring/mastic. If the negative exposure assessments are successful, the same working condition methods (e.g., wet methods) shall be used during these renovation activities without the need of using asbestos abatement contractor.

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### **ABATEMENT CONTRACTOR DOCUMENTATION**

The following information must be provided to the owner within **35 days** after asbestos waste disposal (EPA/ADEQ requirement).

- **Asbestos abatement firm accreditation and individual worker/supervisor certification and ADEQ accreditation.**
- **Individual medical exam certificates for wearing personal respiratory protection equipment and successful respirator fit test.**
- **Completed and signed 10-day notification to ADEQ.**
- **Asbestos abatement methods and disposal methods used.**
- **Completed site inspection and clean up form for each work area (plus photo documentation - preferred).**
- **Waste chain of custody and disposal manifests.**

### **PROHIBITIONS**

The following work practices and engineering controls shall not be used for work related to asbestos or for work which disturbs ACM or Presumed ACM, regardless of measured levels of asbestos exposure or the results of initial exposure assessments:

- **Compressed air:** Compressed air used to remove asbestos, dust or materials containing asbestos, unless the compressed air is used in conjunction with an enclosed ventilation system designed to capture the dust cloud created by the compressed air.
- **Dry sweeping:** Dry sweeping, shoveling or other dry clean-up of dust and debris containing ACM and Presumed ACM.
- **Repairing or removing damaged textured wall surfacing.**

# **ASBESTOS INSPECTION REPORT**

**White River Apartments  
*located at*  
2900 Marion Drive  
Diaz, Arkansas 72112**



**Report date:  
June 22, 2016  
Revised July 27, 2016**

**Prepared for:  
Dominion Due Diligence  
4121 Cox Road, Suite 200  
Glen Allen, Virginia 23060**

**Project # 160531-458**



**IMPACT  
ENVIRONMENTAL, INC.**



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## APPENDICES

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- C Asbestos Licenses



## 1.0 EXECUTIVE SUMMARY

Impact Environmental, Inc. was retained by Dominion Due Diligence to perform an inspection for asbestos-containing materials (ACM) in the White River Apartments located at 2900 Marion Drive in Diaz, Arkansas. Philip Zabel of Impact Environmental, Inc. performed the asbestos inspection on June 13 and 14, 2016.

The inspection of the facility identified numerous suspect ACMs. Samples were collected and analyzed to determine the asbestos content. Asbestos was identified in the bottom layer flooring materials in several of the buildings. The asbestos flooring included red floor tile, thin beige floor tile, thin brown floor tile and thin beige-brown floor tile. The inspection did not include roof sampling. Therefore, the roofing materials should be assumed to contain asbestos until sampled.

Thin beige floor tile was identified and sampled in all apartment buildings except building 8. Building 8 was remodeled following a fire. Some of the thin beige floor tile was negative for asbestos by PLM analysis. Based on the positive results of similar floor tile, the negative floor tile should be analyzed by transmission electron microscopy (TEM) or assumed to contain asbestos.

The thin beige floor tile was identified as the bottom layer of floor tile in the kitchen, kitchen closet, utility room, utility closet and restrooms. Many of the apartments units had three to four layers of floor tile.

All of the ACMs were found to be in good condition at the time of the inspection. It is recommended that ACMs in good condition be maintained in place with an O&M Plan. Damaged ACMs or ACMs that will be disturbed should be removed or repaired according to state and federal regulations.



## 2.0 INTRODUCTION

Impact Environmental, Inc. was retained by Dominion Due Diligence to perform an inspection for asbestos-containing materials (ACM) in the White River Apartments building located at 2900 Marion Drive in Diaz, Arkansas. The inspection was performed according to the Arkansas Department of Environmental Quality (ADEQ) and the EPA National Emissions Standards for Hazardous Air Pollutants (NESHAP) requirements. However, the inspection did not include roof sampling.

Philip Zabel of Impact Environmental, Inc. performed the asbestos inspection on June 13 and 14, 2016. Mr. Zabel is an ADEQ certified asbestos inspector (#010876). Impact Environmental, Inc. is an ADEQ licensed asbestos consultant (#000423).

## 3.0 BUILDING DESCRIPTION

The White River Apartments consist of eight two-story apartment buildings which total approximately 57,768 square feet and 64 units. The property also includes a one-story shop/laundry building. The apartments are wood frame construction with a slab-on-grade foundation and pitched shingle roofs. The exterior of the buildings are finished with a combination of vinyl siding over painted wood siding and brick veneer with aluminum windows. The interior of the buildings are finished with floor tile, linoleum, carpet, and gypsum board walls. The attic of the buildings generally were not accessible at the time of the inspection due to obstructions of the access portal or excessive insulation or wiring over the portal opening. The buildings were originally constructed in 1981.

## 4.0 PURPOSE OF STUDY

The purpose of the inspection was to identify suspect ACMs, collect bulk samples of the suspect materials for laboratory analysis, identify the location and condition of the ACMs and provide response action recommendations, if needed.

## 5.0 METHODOLOGY

Inspection procedures were followed in accordance to the US EPA Asbestos Hazard and Emergency Response Act (AHERA) or 40 CFR Part 763. Suspect materials were categorized as surfacing, thermal system insulation and miscellaneous. Homogeneous areas were identified and sampled according to AHERA sampling protocol. Homogeneous materials are those building materials that, by visual and manual inspection, are similar in texture, color, composition and use in the building, and are deemed to be the same material.

The condition of each suspect material was assessed in the field by the inspector. The condition of the materials were classified as *good*, *damaged* and *significantly damaged*.



Federal and state regulatory agencies define an ACM as any material that contains greater than 1% asbestos. The percentage of asbestos and the determination if a material contains asbestos can only be determined by laboratory analysis.

Asbestos samples were sent to AmeriSci Richmond in Midlothian, Virginia. AmeriSci participates in the National Institute for Standards and Testing (NIST) National Voluntary Laboratory Accreditation Program proficiency testing program (NVLAP #200784-0) as well as inter- and intra-laboratory exchange programs. Samples were analyzed via Polarized Light Microscopy (PLM) by EPA method 600/R/R-93/116. All percentages reported for composition are based on visual estimation or gravimetric determinations. Please refer to the Appendix for copies of the laboratory reports.

## 6.0 FINDINGS

The ADEQ regulates certain types and quantities of ACMs. These regulated ACMs (RACM) include friable materials and some non-friable materials. An asbestos design by an ADEQ licensed designer is required on projects involving the disturbance of more than three square feet of RACM. This design identifies the regulatory compliance requirements based on the project's individual characteristics.

### 6.1 Friable Asbestos-Containing Materials

Friable ACM is identified as any material containing more than one percent asbestos that when dry, can be crumbled, pulverized, or reduced to powder by hand pressure. Friable ACMs must be removed prior to any demolition or renovation activities which may disturb them.

*No friable ACM was identified in the facility.*

### 6.2 Non-friable Asbestos-Containing Materials

Non-friable ACMs are divided into two categories.

**Category I non-friable ACMs** are defined as asbestos-containing resilient floor covering, roofing products, packings and gasket materials. Category I non-friable ACMs in good condition can be left in buildings being demolished. If these materials are in poor condition or if they will be subjected to breaking, sanding, grinding, cutting, or abrading they are considered RACM and must be removed prior to demolition or renovation by a licensed asbestos abatement contractor. Note that flooring adhesive is considered to be a non-friable category II material by the ADEQ. To avoid confusion, if present, the adhesive is listed with its associated floor tile.



Seven non-friable category I ACMs were identified in the buildings.

Sample Number	Type	Description	* Location	Condition
1-05-01	M	Red Floor Tile and Brown Adhesive	Building 1 - Unit 101 (Bottom Layer)	Good
1-12-01 1-12-02	M	Thin Beige Floor Tile and Yellow Adhesive	Building 1 - Unit 106, 107 (Bottom Layer)	Good
2-09-01	M	Thin Beige Floor Tile and Brown Adhesive	Building 2 - Unit 207 (Bottom Layer)	Good
2-11-01	M	12x12 Thin Brown Floor Tile and Yellow Adhesive	Building 2 - Unit 208 (Bottom Layer)	Good
3-03-01 3-03-02	M	Thin Beige Floor Tile and Brown Adhesive	Building 3 - Unit 301, 302, 304, 307 (Bottom Layer)	Good
3-10-01 3-10-02	M	12x12 Beige-Brown Floor Tile and Brown Adhesive	Building 3 - Unit 306	Good
6-04-01 6-04-02	M	Thin Beige Floor Tile and Yellow Adhesive	Building 6 - Unit 602, 604 (Bottom Layer)	Good

Material Type: M – Miscellaneous, S – Surfacing, TSI – Thermal System Insulation

\* The flooring materials were verified to be located in the listed units. However, underlying layers of flooring were not verified in every room or every unit of the building. It should be assumed that the bottom layer of flooring contains asbestos in the kitchen, kitchen closet, utility room, utility closet and restrooms of each unit.

**Category II non-friable ACMs** are defined as all other non-friable ACMs (excluding category I non-friable ACMs). Category II non-friable ACMs that have a high probability of becoming or have become friable by the forces expected to act on them in the course of demolition or renovation operations are considered RACM and must be removed by a licensed asbestos abatement contractor.

No non-friable category II ACM was identified in the facility.

### 6.3 Non-Asbestos Containing Materials

The following table is a summary of those materials which were sampled but did not contain asbestos in quantities greater than 1%.

#### Shop/Laundry Building

Sample Number	Type	Material Description	Material Location
SH-01-01 SH-01-02	M	Insulation Backing	Shop Walls and Ceiling
L-01-01 L-01-02 L-01-03	S	Texture Paint	Laundry Room Walls



Sample Number	Type	Material Description	Material Location
L-02-01 L-02-02	M	Gypsum Wallboard and Joint Compound	Laundry Room Walls
L-03-01 L-03-02	M	Ceramic Tile Grout	Laundry Room Floor

Building 1

Sample Number	Type	Material Description	Material Location
1-01-01 1-01-02 1-01-03 1-01-04 1-01-05 1-01-06 1-01-07	S	Texture Ceiling	Throughout Building
1-02-01 1-02-02	M	12x12 Light Gray Floor Tile and Yellow Adhesive	Unit 101, 105, 106, 107
1-03-01 1-03-02	M	12x12 White Floor Tile and Yellow Adhesive	Unit 103
1-04-01 1-04-02	M	12x12 White Floor Tile Peel and Stick	Unit 101, 103, 107, 108
1-06-01 1-06-02	M	Gypsum Wallboard and Joint Compound	Throughout Building
1-07-01	M	Ceramic Tile Pattern Linoleum	Unit 102
1-08-01	M	Gray Floor Tile Peel and Stick	Unit 102
1-09-01 1-09-02	M	12x12 Light Brown Floor Tile and Brown Adhesive	Unit 102, 103, 104
1-10-01	M	12x12 Red Floor Tile Peel and Stick	Unit 104
1-11-01	M	Yellow Linoleum	Unit 107 (2 <sup>nd</sup> Layer)

Building 2

Sample Number	Type	Material Description	Material Location
2-01-01 2-01-02 2-01-03 2-01-04 2-01-05 2-01-06 2-01-07	S	Texture Ceiling	Throughout Building
2-02-01 2-02-02	M	Gypsum Wallboard and Joint Compound	Throughout Building
2-03-01 2-03-02	M	12x12 White Floor Tile and Yellow Adhesive	Unit 204, 206, 207
2-04-01 2-04-02	M	12x12 White Floor Tile Peel and Stick	Unit 201, 208



Sample Number	Type	Material Description	Material Location
2-05-01 2-05-02	M	White Floor Tile and Brown Adhesive	Unit 201, 206
2-06-01 2-06-02	M	12x12 Red Floor Tile Peel and Stick	Unit 207, 208
2-07-01	M	12x12 Gray Floor Tile and Brown Adhesive	Unit 207
2-08-01	M	12x12 Faux Wood Floor Tile Peel and Stick	Unit 207
2-10-01 2-10-02	M	12x12 Cream Slate Floor Tile Peel and Stick	Unit 208

Building 3

Sample Number	Type	Material Description	Material Location
3-01-01 3-01-02 3-01-03 3-01-04 3-01-05 3-01-06 3-01-07	S	Texture Ceiling	Throughout Building
3-02-01 3-02-02	M	12x12 White Floor Tile Peel and Stick	Unit 302, 303, 304
3-04-01 3-04-02	M	12x12 Green Floor Tile Peel and Stick	Unit 301
3-05-01 3-05-02	M	Off-White Linoleum	Unit 301 (2 <sup>nd</sup> Layer)
3-06-01	M	12x12 Brown Floor Tile Peel and Stick	Unit 301
3-07-01	M	12x12 Gray Floor Tile Peel and Stick	Unit 301
3-08-01 3-08-02	M	Gypsum Wallboard and Joint Compound	Throughout Building
3-09-01 3-09-02	M	12x12 Light Brown Floor Tile and Brown Adhesive	Unit 303, 304, 305, 307, 308

Building 4

Sample Number	Type	Material Description	Material Location
4-01-01 4-01-02 4-01-03 4-01-04 4-01-05 4-01-06 4-01-07	S	Texture Ceiling	Throughout Building
4-02-01	M	12x12 Light Gray Floor Tile and	Unit 404



Sample Number	Type	Material Description	Material Location
		Brown Adhesive	
4-03-01 4-03-02	M	White Floor Tile and Brown Adhesive	Unit 401, 402, 403, 404
4-04-01 4-04-02	M	Thin Beige Floor Tile and Yellow Adhesive	Unit 403, 404 (Bottom Layer)
4-05-01	M	12x12 Dark Gray Floor Tile and Yellow Adhesive	Unit 403
4-06-01 4-06-02	M	12x12 Light Brown Floor Tile and Yellow Adhesive	Unit 401, 405, 406, 407, 408
4-07-01 4-07-02	M	Gypsum Wallboard and Joint Compound	Throughout Building
4-08-01	M	Ceramic Tile Pattern Linoleum	Unit 407
4-09-01	M	12x12 White Floor Tile Peel and Stick	Unit 407

Building 5

Sample Number	Type	Material Description	Material Location
5-01-01 5-01-02 5-01-03 5-01-04 5-01-05 5-01-06 5-01-07	S	Texture Ceiling	Throughout Building
5-02-01 5-02-02	M	12x12 Brown Floor Tile and Yellow Adhesive	Unit 501, 503
5-03-01 5-03-02	M	Thin Beige Floor Tile and Yellow Adhesive	Unit 503, 504 (Bottom Layer)
5-04-01 5-04-02	M	Gypsum Wallboard and Joint Compound	Throughout Building
5-05-01 5-05-02	M	12x12 Light Brown Floor Tile and Brown Adhesive	Unit 504, 505, 506
5-06-01	M	White Floor Tile Peel and Stick	Unit 504
5-07-01	M	White Floor Tile and Brown Adhesive	Unit 504
5-08-01	M	12x12 Faux Wood Floor Tile Peel and Stick	Unit 504
5-09-01 5-09-02	M	12x12 White Floor Tile Peel and Stick	Unit 501, 502, 505
5-10-01	M	Light Brown Linoleum	Unit 502
5-11-01	M	Off-White Floor Tile and Brown Adhesive	Unit 502
5-12-01	M	12x12 Red Floor Tile Peel and Stick	Unit 502
5-13-01	M	12x12 Gray Floor Tile and Yellow Adhesive	Unit 507





Sample Number	Type	Material Description	Material Location
5-14-01 5-14-02	M	Light Brown Ceramic Tile Pattern Linoleum	Unit 507, 508
5-15-01	M	Yellow Linoleum	Unit 508 (3 <sup>rd</sup> Layer)

Building 6

Sample Number	Type	Material Description	Material Location
6-01-01 6-01-02 6-01-03 6-01-04 6-01-05 6-01-06 6-01-07	S	Texture Ceiling	Throughout Building
6-02-01	M	12x12 Faux Wood Floor Tile Peel and Stick	Unit 604
6-03-01 6-03-02	M	White Floor Tile and Yellow Adhesive	Unit 604, 605
6-05-01	M	Gray Ceramic Tile Pattern Linoleum	Unit 604
6-06-01	M	12x12 Gray Floor Tile with Black Backing and Yellow Adhesive	Unit 603
6-07-01 6-07-02	M	12x12 Light Brown Floor Tile and Brown Adhesive	Unit 603, 605, 607, 608
6-08-01 6-08-02	M	12x12 White Floor Tile Peel and Stick	Unit 602, 603, 605
6-09-01 6-09-02	M	12x12 White Floor Tile and Brown Adhesive	Unit 602, 606, 607, 608
6-10-01	M	12x12 Slate Floor Tile Peel and Stick	Unit 602
6-11-01 6-11-02	M	Gypsum Wallboard and Joint Compound	Throughout Building

Building 7

Sample Number	Type	Material Description	Material Location
7-01-01 7-01-02 7-01-03 7-01-04 7-01-05 7-01-06 7-01-07	S	Texture Ceiling	Throughout Building
7-02-01 7-02-02	M	Tile Pattern Linoleum	Unit 703, 706
7-03-01	M	Gray Linoleum	Unit 703
7-04-01	M	Green Linoleum	Unit 703



Sample Number	Type	Material Description	Material Location
7-05-01 7-05-02	M	Yellow Linoleum	Unit 703, 706
7-06-01 7-06-02	M	Gypsum Wallboard and Joint Compound	Throughout Building
7-07-01	M	Tan 18x18 Floor Tile Peel and Stick	Unit 703
7-08-01 7-08-02	M	White Floor Tile Peel and Stick	Unit 704, 708
7-09-01 7-09-02	M	Beige Floor Tile and Yellow Adhesive	Unit 704, 708
7-10-01	M	Thin Beige Floor Tile and Yellow Adhesive	Unit 704 (Bottom Layer)
7-11-01 7-11-02	M	12x12 Tan Floor Tile Peel and Stick	Unit 704, 706
7-12-01 7-12-02	M	Pink Floor Tile and Adhesive	Unit 704, 706
7-13-01 7-13-02	M	Off-White Floor Tile with Black Backing and Yellow Adhesive	Unit 702, 704
7-14-01	M	Thin Off-White Floor Tile and Black Adhesive	Unit 702
7-15-01	M	Off-White Floor Tile and Brown Adhesive	Unit 707

Building 8

Sample Number	Type	Material Description	Material Location
8-01-01 8-01-02 8-01-03 8-01-04 8-01-05 8-01-06 8-01-07	S	Texture Ceiling	Throughout Building
8-02-01 8-02-02 8-02-03 8-02-04 8-02-05 8-02-06 8-02-07	S	Texture Painted Walls	Throughout Building
8-03-01 8-03-02	M	Gypsum Wallboard and Joint Compound	Throughout Building
8-04-01 8-04-02	M	12x12 White Floor Tile and Brown Adhesive	Unit 802, 803, 804, 806
8-05-01 8-05-02	M	12x12 Light Brown Floor Tile and Brown Adhesive	Unit 801, 802, 803, 804, 805, 806, 807, 808
8-06-01	M	White Floor Tile and Brown Adhesive	Unit 801



Sample Number	Type	Material Description	Material Location
8-07-01	M	12x12 Gray Floor Tile and Brown Adhesive	Unit 806

Material Type: M – Miscellaneous, S – Surfacing, TSI – Thermal System Insulation

## 7.0 RECOMMENDATIONS

The inspection of the facility identified numerous suspect ACMs. Samples were collected and analyzed to determine the asbestos content. Asbestos was identified in the bottom layer flooring materials in several of the buildings. The inspection did not include roof sampling. Therefore, the roofing materials should be assumed to contain asbestos until sampled.

Thin beige floor tile was identified and sampled in all apartment buildings except building 8. Building 8 was remodeled following a fire. Some of the thin beige floor tile was negative for asbestos by PLM analysis. Based on the positive results of similar floor tile, the negative floor tile should be analyzed by transmission electron microscopy (TEM) or assumed to contain asbestos.

The thin beige floor tile was identified as the bottom layer of floor tile in the kitchen, kitchen closet, utility room, utility closet and restrooms. Many of the apartments units had three to four layers of floor tile.

All of the ACMs were found to be in good condition at the time of the inspection. It is recommended that ACMs in good condition be maintained in place with an O&M Plan. Damaged ACMs or ACMs that will be disturbed should be removed or repaired according to state and federal regulations.

According to the Arkansas Department of Environmental Quality (ADEQ) Regulation 21, a notice of intent must be submitted to the ADEQ ten days prior to demolition of a facility or facility component regardless of whether ACM was identified.

ACMs are commonly found in inaccessible building spaces (i.e., crawl spaces, between walls, under floors, behind other building materials, etc.) Impact Environmental, Inc. recommends a copy of the asbestos inspection be given to the general contractor responsible for any building renovation. The general contractor should be asked to exercise caution when uncovering primarily inaccessible spaces to prevent disturbance of or damage to unidentified ACMs. If a suspect material is uncovered, the contractor should stop work and notify the building owner's representative of the locations of the suspect material. The building owner's representative should then contact Impact Environmental to sample the suspect material.



## 8.0 LIMITATIONS

Laboratory analysis was performed by AmeriSci Richmond in Midlothian, Virginia. AmeriSci Richmond is solely responsible for all analytical results contained in or referred to in this report.

Impact Environmental, Inc. performed this service in a manner consistent with the level of care and expertise exercised by members of the asbestos consulting profession. Impact Environmental, Inc. does not imply or guarantee that every material on the property, or in the property building, which may potentially have asbestos as a component has been identified and/or sampled. The inspection is intended to identify accessible materials most likely to contain asbestos in quantities subject to regulation.

All conclusions regarding this project represent the professional opinions of the Impact Environmental, Inc. personnel involved and the results of this report should not be considered a legal interpretation of existing environmental regulations. Impact Environmental, Inc. assumes no responsibility or liability for errors in data utilized from sources outside of Impact Environmental, Inc. or developments resulting from situations outside the scope of this project.

This Report was Prepared by:



---

Philip Zabel, P.G.  
President



## **APPENDICES**

## **A. BUILDING LOCATION PLAN**



Impact Environmental, Inc.  
PO Box 1130  
Conway, Arkansas 72033  
Ph: 501-428-2100 Project #: 160531-458

## Building Location Plan



NOT TO SCALE

White River Apartments  
2900 Marion Drive  
Diaz, Arkansas 72112

## **B. LABORATORY ANALYSIS REPORTS**





Please Reply To:

**AmeriSci Richmond**  
13635 GENITO ROAD  
MIDLOTHIAN, VIRGINIA 23112  
TEL: (804) 763-1200 • FAX: (804) 763-1800

**FACSIMILE TELECOPY TRANSMISSION**

**To:** Kim Dingleline  
Dominion Due Diligence Group  
**Fax #:**  
**Email:** k.dingleline@d3g.biz, hazmat@d3g.biz

**From:** Jean L. Mayes  
**AmeriSci Job #:** 116061823  
**Subject:** PLM 3 day Results  
**Client Project:** White River Apartments -  
#2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Buildin

**Date:** Sunday, June 19, 2016  
**Time:** 15:54:44  
**Comments:**

**Number of Pages:** 9  
(including cover sheet)

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## PLM Bulk Asbestos Report

Dominion Due Diligence Group  
 Attn: Kim Dingleline  
 4121 Cox Road  
 Suite 200  
 Glen Allen, VA 23060

Date Received 06/16/16

Date Examined 06/19/16

AmeriSci Job # 116061823

P.O. #

Page 1 of 7

RE: White River Apartments - #2016-1014; 2900 Marion Drive,  
 Diaz, Arkansas; Building 1

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
1-01-01 Location: Texture Ceiling; Throughout Building  Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %	116061823-01	No	NAD (by CVES) by Jean L. Mayes on 06/19/16
1-01-02 Location: Texture Ceiling; Throughout Building  Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Synthetic fibers 3 %, Non-fibrous 97 %	116061823-02	No	NAD (by CVES) by Jean L. Mayes on 06/19/16
1-01-03 Location: Texture Ceiling; Throughout Building  Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %	116061823-03	No	NAD (by CVES) by Jean L. Mayes on 06/19/16
1-01-04 Location: Texture Ceiling; Throughout Building  Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %	116061823-04	No	NAD (by CVES) by Jean L. Mayes on 06/19/16
1-01-05 Location: Texture Ceiling; Throughout Building  Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %	116061823-05	No	NAD (by CVES) by Jean L. Mayes on 06/19/16

Client Name: Dominion Due Diligence Group

**PLM Bulk Asbestos Report**White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 1

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
1-01-06 Location: Texture Ceiling; Throughout Building	116061823-06	No	NAD (by CVES) by Jean L. Mayes on 06/19/16
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
1-01-07 Location: Texture Ceiling; Throughout Building	116061823-07	No	NAD (by CVES) by Jean L. Mayes on 06/19/16
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
1-02-01 Location: 12x12 Light Gray Floor Tile And Yellow Adhesive; Unit 101, 105, 106, 107	116061823-08L1	No	NAD (by CVES) by Jean L. Mayes on 06/19/16
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Floor Tile Asbestos Types: Other Material: Non-fibrous 100 %			
1-02-01 Location: 12x12 Light Gray Floor Tile And Yellow Adhesive; Unit 101, 105, 106, 107	116061823-08L2	No	NAD (by CVES) by Jean L. Mayes on 06/19/16
Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Mastic Asbestos Types: Other Material: Cellulose 2 %, Non-fibrous 98 %			
1-02-02 Location: 12x12 Light Gray Floor Tile And Yellow Adhesive; Unit 101, 105, 106, 107	116061823-09L1	No	NAD (by CVES) by Jean L. Mayes on 06/19/16
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Floor Tile Asbestos Types: Other Material: Non-fibrous 100 %			
1-02-02 Location: 12x12 Light Gray Floor Tile And Yellow Adhesive; Unit 101, 105, 106, 107	116061823-09L2	No	NAD (by CVES) by Jean L. Mayes on 06/19/16
Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Mastic Asbestos Types: Other Material: Cellulose 2 %, Non-fibrous 98 %			

Client Name: Dominion Due Diligence Group

**PLM Bulk Asbestos Report**White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 1

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
1-03-01	116061823-10L1	No	NAD
Location: 12x12 White Floor Tile And Yellow Adhesive; Unit 103			(by CVES) by Jean L. Mayes on 06/19/16
Analyst Description: White, Heterogeneous, Non-Fibrous, Floor Tile			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
1-03-01	116061823-10L2	No	NAD
Location: 12x12 White Floor Tile And Yellow Adhesive; Unit 103			(by CVES) by Jean L. Mayes on 06/19/16
Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Mastic			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
1-03-02	116061823-11L1	No	NAD
Location: 12x12 White Floor Tile And Yellow Adhesive; Unit 103			(by CVES) by Jean L. Mayes on 06/19/16
Analyst Description: White, Heterogeneous, Non-Fibrous, Floor Tile			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
1-03-02	116061823-11L2	No	NAD
Location: 12x12 White Floor Tile And Yellow Adhesive; Unit 103			(by CVES) by Jean L. Mayes on 06/19/16
Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Mastic			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
1-04-01	116061823-12	No	NAD
Location: 12x12 White Floor Tile Peel And Stick ; Unit 101, 103, 107, 108			(by CVES) by Jean L. Mayes on 06/19/16
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
1-04-02	116061823-13	No	NAD
Location: 12x12 White Floor Tile Peel And Stick ; Unit 101, 103, 107, 108			(by CVES) by Jean L. Mayes on 06/19/16
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 100 %			

Client Name: Dominion Due Diligence Group

**PLM Bulk Asbestos Report**White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 1

<b>Client No. / HGA</b>	<b>Lab No.</b>	<b>Asbestos Present</b>	<b>Total % Asbestos</b>
1-05-01	116061823-14L1	<b>Yes</b>	2 %
Location: Red Floor Tile And Brown Adhesive; Unit 101 (Bottom Layer)			(by CVES) by Jean L. Mayes on 06/19/16
Analyst Description: Red, Heterogeneous, Non-Fibrous, Floor Tile			
Asbestos Types: Chrysotile 2.0 %			
Other Material: Non-fibrous 98 %			
1-05-01	116061823-14L2		NA
Location: Red Floor Tile And Brown Adhesive; Unit 101 (Bottom Layer)			
Analyst Description: Mastic			
Asbestos Types:			
Other Material:			
Comment: Quantity Insufficient For Analysis			
1-06-01	116061823-15.1	<b>No</b>	NAD
Location: *Gypsum Wallboard And Joint Compound; Throughout Building			(by CVES) by Jean L. Mayes on 06/19/16
Analyst Description: White/Brown, Heterogeneous, Non-Fibrous, Wall Board			
Asbestos Types:			
Other Material: Cellulose 10 %, Non-fibrous 90 %			
1-06-01	116061823-15.2	<b>No</b>	NAD
Location: *Gypsum Wallboard And Joint Compound; Throughout Building			(by CVES) by Jean L. Mayes on 06/19/16
Analyst Description: White, Heterogeneous, Non-Fibrous, Joint Compound			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
1-06-02	116061823-16.1	<b>No</b>	NAD
Location: *Gypsum Wallboard And Joint Compound; Throughout Building			(by CVES) by Jean L. Mayes on 06/19/16
Analyst Description: White/Brown, Heterogeneous, Non-Fibrous, Wall Board			
Asbestos Types:			
Other Material: Cellulose 10 %, Non-fibrous 90 %			

Client Name: Dominion Due Diligence Group

**PLM Bulk Asbestos Report**White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 1

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
1-06-02	116061823-16.2	No	NAD
Location: *Gypsum Wallboard And Joint Compound; Throughout Building			(by CVES) by Jean L. Mayes on 06/19/16
Analyst Description: White, Heterogeneous, Non-Fibrous, Joint Compound			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
1-07-01	116061823-17	No	NAD
Location: Ceramic Tile Pattern Linoleum; Unit 102			(by CVES) by Jean L. Mayes on 06/19/16
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
1-08-01	116061823-18	No	NAD
Location: Gray Floor Tile Peel And Stick; Unit 102			(by CVES) by Jean L. Mayes on 06/19/16
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Synthetic fibers 5 %, Non-fibrous 95 %			
1-09-01	116061823-19L1	No	NAD
Location: 12x12 Light Brown Floor Tile And Brown Adhesive; Unit 102, 103, 104			(by CVES) by Jean L. Mayes on 06/19/16
Analyst Description: Brown, Heterogeneous, Non-Fibrous, Floor Tile			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
1-09-01	116061823-19L2	No	NAD
Location: 12x12 Light Brown Floor Tile And Brown Adhesive; Unit 102, 103, 104			(by CVES) by Jean L. Mayes on 06/19/16
Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Mastic			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
1-09-02	116061823-20L1	No	NAD
Location: 12x12 Light Brown Floor Tile And Brown Adhesive; Unit 102, 103, 104			(by CVES) by Jean L. Mayes on 06/19/16
Analyst Description: Brown, Heterogeneous, Non-Fibrous, Floor Tile			
Asbestos Types:			
Other Material: Non-fibrous 100 %			

Client Name: Dominion Due Diligence Group

# PLM Bulk Asbestos Report

White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 1

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
1-09-02	116061823-20L2	No	NAD
Location: 12x12 Light Brown Floor Tile And Brown Adhesive; Unit 102, 103, 104			(by CVES) by Jean L. Mayes on 06/19/16
Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Mastic			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
1-10-01	116061823-21	No	NAD
Location: 12x12 Red Floor Tile Peel And Stick; Unit 104			(by CVES) by Jean L. Mayes on 06/19/16
Analyst Description: Brown, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
1-11-01	116061823-22	No	NAD
Location: Yellow Linoleum; Unit 107 (2nd Layer)			(by CVES) by Jean L. Mayes on 06/19/16
Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose 25 %, Non-fibrous 75 %			
1-12-01	116061823-23L1	No	NAD
Location: Thin Beige Floor Tile And Yellow Adhesive; Unit 106, 107 (Bottom Layer)			(by CVES) by Jean L. Mayes on 06/19/16
Analyst Description: Beige, Heterogeneous, Non-Fibrous, Floor Tile			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
1-12-01	116061823-23L2		NA
Location: Thin Beige Floor Tile And Yellow Adhesive; Unit 106, 107 (Bottom Layer)			
Analyst Description: Mastic			
Asbestos Types:			
Other Material:			
Comment: Quantity Insufficient For Analysis			

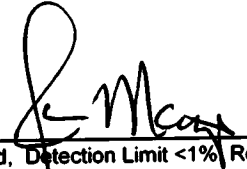

Client Name: Dominion Due Diligence Group

## PLM Bulk Asbestos Report

White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 1

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
1-12-02  Location: Thin Beige Floor Tile And Yellow Adhesive; Unit 106, 107 (Bottom Layer)  Analyst Description: Beige, Heterogeneous, Non-Fibrous, Floor Tile Asbestos Types: Chrysotile 2.0 % Other Material: Non-fibrous 98 %	116061823-24L1	Yes	2 %  (by CVES) by Jean L. Mayes on 06/19/16
1-12-02  Location: Thin Beige Floor Tile And Yellow Adhesive; Unit 106, 107 (Bottom Layer)  Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Mastic Asbestos Types: Other Material: Non-fibrous 100 %	116061823-24L2	No	NAD  (by CVES) by Jean L. Mayes on 06/19/16

**Reporting Notes:**

Analyzed by: Jean L. Mayes  Date 6/19/16  
 \*NAD = no asbestos detected, Detection Limit <1% Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; "Present" or NVA = "No Visible Asbestos" are observations made during a qualitative analysis; NA = not analyzed; NA/PS = not analyzed / positive stop; PLM Bulk Asbestos Analysis by EPA 600/R-93/116 per 40 CFR 763 (NVLAP Lab Code 101904-0) and ELAP PLM Analysis Protocol 198.1 for New York friable samples which includes quantitation of any vermiculite observed (198.6 for NOB samples) or EPA 400 pt ct by EPA 600/M4-82-020 (NYSDOH ELAP Lab # 10984); CA ELAP Lab # 2508; Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested.  
 Reviewed By: 



**Asbestos Inspection Chain of Custody**

**116061823**

<b>Project</b>	White River Apartments – #2016-1014	<b>Date</b>	6-14-16
<b>Address</b>	2900 Marion Drive, Diaz, Arkansas	<b>TAT</b>	3-day
<b>Client</b>	Dominion Due Diligence Group (804) 358-2020 4121 Cox Road, Suite 200, Glen Allen, Virginia 23060	<b>Method</b>	PLM

**Building 1**

<b>Sample Number</b>	<b>Type</b>	<b>Material Description</b>	<b>Material Location</b>
1-01-01 1-01-02 1-01-03 1-01-04 1-01-05 1-01-06 1-01-07	S	Texture Ceiling	Throughout Building
1-02-01 1-02-02	M	12x12 Light Gray Floor Tile and Yellow Adhesive	Unit 101, 105, 106, 107
1-03-01 1-03-02	M	12x12 White Floor Tile and Yellow Adhesive	Unit 103
1-04-01 1-04-02	M	12x12 White Floor Tile Peel and Stick	Unit 101, 103, 107, 108
1-05-01	M	Red Floor Tile and Brown Adhesive	Unit 101 (Bottom Layer)
1-06-01 1-06-02	M	* Gypsum Wallboard and Joint Compound	Throughout Building
1-07-01	M	Ceramic Tile Pattern Linoleum	Unit 102
1-08-01	M	Gray Floor Tile Peel and Stick	Unit 102
1-09-01 1-09-02	M	12x12 Light Brown Floor Tile and Brown Adhesive	Unit 102, 103, 104
1-10-01	M	12x12 Red Floor Tile Peel and Stick	Unit 104
1-11-01	M	Yellow Linoleum	Unit 107 (2 <sup>nd</sup> Layer)
1-12-01 1-12-02	M	Thin Beige Floor Tile and Yellow Adhesive	Unit 106, 107 (Bottom Layer)

\* Composite analysis of wallboard and joint compound requested if joint compound contains asbestos.

Material Type: M – Miscellaneous, S – Surfacing, TSI – Thermal System Insulation

**RECEIVED**

**JUN 16 2016**

By *[Signature]*

Submitted by: Philip Zabel Date: 6-15-16 Signature: *[Signature]*

Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Signature: \_\_\_\_\_



Please Reply To:

**AmeriSci Richmond**

13635 GENITO ROAD  
MIDLOTHIAN, VIRGINIA 23112  
TEL: (804) 763-1200 • FAX: (804) 763-1800

**FACSIMILE TELECOPY TRANSMISSION**

**To:** Kim Dingledine  
Dominion Due Diligence Group  
**Fax #:**  
**Email:** k.dingledine@d3g.biz,hazmat@d3g.biz

**From:** David W. Ralbovsky  
**AmeriSci Job #:** 116061824  
**Subject:** PLM 3 day Results  
**Client Project:** White River Apartments -  
#2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Buildin

**Date:** Monday, June 20, 2016  
**Time:** 14:58:38

**Number of Pages:** 8  
(including cover sheet)

**Comments:**

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MIDLOTHIAN, VIRGINIA 23112  
TEL: (804) 763-1200 • FAX: (804) 763-1800

## PLM Bulk Asbestos Report

Dominion Due Diligence Group  
Attn: Kim Dingledine  
4121 Cox Road  
Suite 200  
Glen Allen, VA 23060

**Date Received** 06/16/16    **AmeriSci Job #** 116061824  
**Date Examined** 06/19/16    **P.O. #**  
**Page** 1 of 6  
**RE: White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 2**

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2-01-01 Location: Texture Ceiling; Throughout Building  Analyst Description: Beige, Heterogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %	116061824-01	No	NAD (by CVES) by David W. Ralbovsky on 06/19/16
2-01-02 Location: Texture Ceiling; Throughout Building  Analyst Description: Beige, Heterogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %	116061824-02	No	NAD (by CVES) by David W. Ralbovsky on 06/20/16
2-01-03 Location: Texture Ceiling; Throughout Building  Analyst Description: Beige, Heterogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %	116061824-03	No	NAD (by CVES) by David W. Ralbovsky on 06/20/16
2-01-04 Location: Texture Ceiling; Throughout Building  Analyst Description: Beige, Heterogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %	116061824-04	No	NAD (by CVES) by David W. Ralbovsky on 06/20/16
2-01-05 Location: Texture Ceiling; Throughout Building  Analyst Description: Beige, Heterogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %	116061824-05	No	NAD (by CVES) by David W. Ralbovsky on 06/20/16

See Reporting notes on last page

Client Name: Dominion Due Diligence Group

**PLM Bulk Asbestos Report**White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 2

<b>Client No. / HGA</b>	<b>Lab No.</b>	<b>Asbestos Present</b>	<b>Total % Asbestos</b>
2-01-06 <b>Location:</b> Texture Ceiling; Throughout Building	116061824-06	<b>No</b>	<b>NAD</b> (by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Beige, Heterogeneous, Non-Fibrous, Bulk Material			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Cellulose Trace, Non-fibrous 100 %			
2-01-07 <b>Location:</b> Texture Ceiling; Throughout Building	116061824-07	<b>No</b>	<b>NAD</b> (by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Beige, Heterogeneous, Non-Fibrous, Bulk Material			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
2-02-01 <b>Location:</b> *Gypsum Wallboard And Joint Compound; Throughout Building	116061824-08.1	<b>No</b>	<b>NAD</b> (by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Brown/White, Heterogeneous, Fibrous, Wall Board			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Cellulose 5 %, Non-fibrous 95 %			
2-02-01 <b>Location:</b> *Gypsum Wallboard And Joint Compound; Throughout Building	116061824-08.2	<b>No</b>	<b>NAD</b> (by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Joint Compound			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
2-02-02 <b>Location:</b> *Gypsum Wallboard And Joint Compound; Throughout Building	116061824-09.1	<b>No</b>	<b>NAD</b> (by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Brown/White, Heterogeneous, Fibrous, Wall Board			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Cellulose 5 %, Non-fibrous 95 %			
2-02-02 <b>Location:</b> *Gypsum Wallboard And Joint Compound; Throughout Building	116061824-09.2	<b>No</b>	<b>NAD</b> (by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Joint Compound			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			

Client Name: Dominion Due Diligence Group

**PLM Bulk Asbestos Report**White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 2

<b>Client No. / HGA</b>	<b>Lab No.</b>	<b>Asbestos Present</b>	<b>Total % Asbestos</b>
2-03-01	116061824-10L1	<b>No</b>	<b>NAD</b>
<b>Location:</b> 12x12 White Floor Tile And Yellow Adhesive; Unit 204, 206, 207			(by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Floor Tile			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
2-03-01	116061824-10L2	<b>No</b>	<b>NAD</b>
<b>Location:</b> 12x12 White Floor Tile And Yellow Adhesive; Unit 204, 206, 207			(by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Yellow, Heterogeneous, Non-Fibrous, Adhesive			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Cellulose Trace, Non-fibrous 100 %			
2-03-02	116061824-11L1	<b>No</b>	<b>NAD</b>
<b>Location:</b> 12x12 White Floor Tile And Yellow Adhesive; Unit 204, 206, 207			(by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Floor Tile			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
2-03-02	116061824-11L2	<b>No</b>	<b>NAD</b>
<b>Location:</b> 12x12 White Floor Tile And Yellow Adhesive; Unit 204, 206, 207			(by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Yellow, Heterogeneous, Non-Fibrous, Adhesive			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
2-04-01	116061824-12	<b>No</b>	<b>NAD</b>
<b>Location:</b> 12x12 White Floor Tile Peel And Stick; Unit 201, 208			(by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Stick-on Tile			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
2-04-02	116061824-13	<b>No</b>	<b>NAD</b>
<b>Location:</b> 12x12 White Floor Tile Peel And Stick; Unit 201, 208			(by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Stick-on Tile			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			

See Reporting notes on last page

Client Name: Dominion Due Diligence Group

**PLM Bulk Asbestos Report**White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 2

<b>Client No. / HGA</b>	<b>Lab No.</b>	<b>Asbestos Present</b>	<b>Total % Asbestos</b>
2-05-01	116061824-14L1	<b>No</b>	<b>NAD</b>
<b>Location:</b> White Floor Tile And Brown Adhesive; Unit 201, 206			(by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Floor Tile			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
2-05-01	116061824-14L2	<b>No</b>	<b>NAD</b>
<b>Location:</b> White Floor Tile And Brown Adhesive; Unit 201, 206			(by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Tan/Yellow, Heterogeneous, Non-Fibrous, Adhesive			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Cellulose Trace, Non-fibrous 100 %			
2-05-02	116061824-15L1	<b>No</b>	<b>NAD</b>
<b>Location:</b> White Floor Tile And Brown Adhesive; Unit 201, 206			(by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Floor Tile			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
2-05-02	116061824-15L2	<b>No</b>	<b>NAD</b>
<b>Location:</b> White Floor Tile And Brown Adhesive; Unit 201, 206			(by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Tan/Yellow, Heterogeneous, Non-Fibrous, Adhesive			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Cellulose Trace, Non-fibrous 100 %			
2-06-01	116061824-16	<b>No</b>	<b>NAD</b>
<b>Location:</b> 12x12 Red Floor Tile Peel And Stick; Unit 207, 208			(by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Reddish-Brown, Heterogeneous, Non-Fibrous, Stick-on Tile			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
2-06-02	116061824-17	<b>No</b>	<b>NAD</b>
<b>Location:</b> 12x12 Red Floor Tile Peel And Stick; Unit 207, 208			(by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Reddish-Brown, Heterogeneous, Non-Fibrous, Stick-on Tile			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			

See Reporting notes on last page

Client Name: Dominion Due Diligence Group

**PLM Bulk Asbestos Report**White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 2

<b>Client No. / HGA</b>	<b>Lab No.</b>	<b>Asbestos Present</b>	<b>Total % Asbestos</b>
2-07-01 <b>Location:</b> 12x12 Gray Floor Tile And Brown Adhesive; Unit 207	116061824-18	<b>No</b>	<b>NAD</b> (by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Gray/White/Black, Heterogeneous, Non-Fibrous, Bulk Material			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
<b>Comment:</b> No adhesive.			
2-08-01 <b>Location:</b> 12x12 Faux Wood Floor Tile Peel And Stick; Unit 207	116061824-19	<b>No</b>	<b>NAD</b> (by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Lt. Brown, Heterogeneous, Non-Fibrous, Stick-on Tile			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
2-09-01 <b>Location:</b> Thin Beige Floor Tile And Brown Adhesive; Unit 207 (Bottom Layer)	116061824-20L1	<b>Yes</b>	<b>2 %</b> (by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Beige, Heterogeneous, Non-Fibrous, Floor Tile			
<b>Asbestos Types:</b> Chrysotile 2.0 %			
<b>Other Material:</b> Non-fibrous 98 %			
2-09-01 <b>Location:</b> Thin Beige Floor Tile And Brown Adhesive; Unit 207 (Bottom Layer)	116061824-20L2	<b>No</b>	<b>NAD</b> (by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Tan/Yellow, Heterogeneous, Non-Fibrous, Adhesive			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
2-10-01 <b>Location:</b> 12x12 Cream Slate Floor Tile Peel And Stick; Unit 208	116061824-21	<b>No</b>	<b>NAD</b> (by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Cream, Heterogeneous, Non-Fibrous, Stick-on Tile			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Synthetic fibers 2 %, Non-fibrous 98 %			

Client Name: Dominion Due Diligence Group

**PLM Bulk Asbestos Report**White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 2

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2-10-02	116061824-22	No	NAD
Location: 12x12 Cream Slate Floor Tile Peel And Stick; Unit 208			(by CVES) by David W. Ralbovsky on 06/20/16
Analyst Description: Cream, Heterogeneous, Non-Fibrous, Stick-on Tile			
Asbestos Types:			
Other Material: Synthetic fibers 2 %, Non-fibrous 98 %			
2-11-01	116061824-23	Yes	2 %
Location: 12x12 Thin Brown Floor Tile And Yellow Adhesive; Unit 208			(by CVES) by David W. Ralbovsky on 06/20/16
Analyst Description: Lt. Brown, Heterogeneous, Non-Fibrous, Floor Tile			
Asbestos Types: Chrysotile 2.0 %			
Other Material: Non-fibrous 98 %			
Comment: Insufficient adhesive for analysis.			

**Reporting Notes:**

Analyzed by: David W. Ralbovsky David W. Ralbovsky Date 6/20/16  
 \*NAD = no asbestos detected, Detection Limit <1%, Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; "Present" or NVA = "No Visible Asbestos" are observations made during a qualitative analysis; NA = not analyzed; NA/PS = not analyzed / positive stop; PLM Bulk Asbestos Analysis by EPA 600/R-93/116 per 40 CFR 763 (NVLAP Lab Code 101904-0) and ELAP PLM Analysis Protocol 198.1 for New York friable samples which includes quantitation of any vermiculite observed (198.6 for NOB samples) or EPA 400 pt ct by EPA 600/M4-82-020 (NYSDOH ELAP Lab # 10984); CA ELAP Lab # 2508; Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested.

Reviewed By: David W. Ralbovsky



**Asbestos Inspection Chain of Custody**

**116061824**

<b>Project</b>	White River Apartments – #2016-1014	<b>Date</b>	6-14-16
<b>Address</b>	2900 Marion Drive, Diaz, Arkansas	<b>TAT</b>	3-day
<b>Client</b>	Dominion Due Diligence Group (804) 358-2020 4121 Cox Road, Suite 200, Glen Allen, Virginia 23060	<b>Method</b>	PLM

**Building 2**

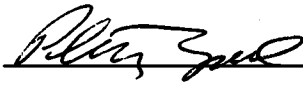

Sample Number	Type	Material Description	Material Location
2-01-01 2-01-02 2-01-03 2-01-04 2-01-05 2-01-06 2-01-07	S	Texture Ceiling	Throughout Building
2-02-01 2-02-02	M	* Gypsum Wallboard and Joint Compound	Throughout Building
2-03-01 2-03-02	M	12x12 White Floor Tile and Yellow Adhesive	Unit 204, 206, 207
2-04-01 2-04-02	M	12x12 White Floor Tile Peel and Stick	Unit 201, 208
2-05-01 2-05-02	M	White Floor Tile and Brown Adhesive	Unit 201, 206
2-06-01 2-06-02	M	12x12 Red Floor Tile Peel and Stick	Unit 207, 208
2-07-01	M	12x12 Gray Floor Tile and Brown Adhesive	Unit 207
2-08-01	M	12x12 Faux Wood Floor Tile Peel and Stick	Unit 207
2-09-01	M	Thin Beige Floor Tile and Brown Adhesive	Unit 207 (Bottom Layer)
2-10-01 2-10-02	M	12x12 Cream Slate Floor Tile Peel and Stick	Unit 208
2-11-01	M	12x12 Thin Brown Floor Tile and Yellow Adhesive	Unit 208

\* Composite analysis of wallboard and joint compound requested if joint compound contains asbestos.

Material Type: M – Miscellaneous, S – Surfacing, TSI – Thermal System Insulation

**RECEIVED**

**JUN 16 2016**

Submitted by: Philip Zabel Date: 6-15-16 Signature:  By: 

Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Signature: \_\_\_\_\_



Please Reply To:

**AmeriSci Richmond**

13635 GENITO ROAD  
MIDLOTHIAN, VIRGINIA 23112  
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**FACSIMILE TELECOPY TRANSMISSION**

**To:** Kim Dingledine  
Dominion Due Diligence Group  
**Fax #:**  
**Email:** k.dingledine@d3g.biz,hazmat@d3g.biz

**From:** David W. Ralbovsky  
**AmeriSci Job #:** 116061825  
**Subject:** PLM 3 day Results  
**Client Project:** White River Apartments -  
#2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Buildin

**Date:** Monday, June 20, 2016

**Time:** 11:29:25

**Comments:**

**Number of Pages:** 8  
(including cover sheet)

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**AmeriSci Richmond**13635 GENITO ROAD  
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TEL: (804) 763-1200 • FAX: (804) 763-1800**PLM Bulk Asbestos Report**Dominion Due Diligence Group  
Attn: Kim Dingledine  
4121 Cox Road  
Suite 200  
Glen Allen, VA 23060**Date Received** 06/16/16    **AmeriSci Job #** 116061825  
**Date Examined** 06/20/16    **P.O. #**  
**Page** 1 of 6  
**RE:** White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 3

<b>Client No. / HGA</b>	<b>Lab No.</b>	<b>Asbestos Present</b>	<b>Total % Asbestos</b>
3-01-01 <b>Location:</b> Texture Ceiling; Throughout Building  <b>Analyst Description:</b> Beige, Heterogeneous, Non-Fibrous, Bulk Material <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 98 %, Perlite 2 %	116061825-01	No	NAD (by CVES) by David W. Ralbovsky on 06/20/16
3-01-02 <b>Location:</b> Texture Ceiling; Throughout Building  <b>Analyst Description:</b> Beige, Heterogeneous, Non-Fibrous, Bulk Material <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 98 %, Perlite 2 %	116061825-02	No	NAD (by CVES) by David W. Ralbovsky on 06/20/16
3-01-03 <b>Location:</b> Texture Ceiling; Throughout Building  <b>Analyst Description:</b> Beige, Heterogeneous, Non-Fibrous, Bulk Material <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 98 %, Perlite 2 %	116061825-03	No	NAD (by CVES) by David W. Ralbovsky on 06/20/16
3-01-04 <b>Location:</b> Texture Ceiling; Throughout Building  <b>Analyst Description:</b> Beige, Heterogeneous, Non-Fibrous, Bulk Material <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 98 %, Perlite 2 %	116061825-04	No	NAD (by CVES) by David W. Ralbovsky on 06/20/16
3-01-05 <b>Location:</b> Texture Ceiling; Throughout Building  <b>Analyst Description:</b> Beige, Heterogeneous, Non-Fibrous, Bulk Material <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 98 %, Perlite 2 %	116061825-05	No	NAD (by CVES) by David W. Ralbovsky on 06/20/16

Client Name: Dominion Due Diligence Group

**PLM Bulk Asbestos Report**White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 3

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
3-01-06 Location: Texture Ceiling; Throughout Building	116061825-06	No	NAD (by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Beige, Heterogeneous, Non-Fibrous, Bulk Material <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 98 %, Perlite 2 %			
3-01-07 Location: Texture Ceiling; Throughout Building	116061825-07	No	NAD (by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Beige, Heterogeneous, Non-Fibrous, Bulk Material <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %			
3-02-01 Location: 12x12 White Floor Tile Peel And Stick; Unit 302, 303, 304	116061825-08	No	NAD (by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Stick-on Tile <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %			
3-02-02 Location: 12x12 White Floor Tile Peel And Stick; Unit 302, 303, 304	116061825-09	No	NAD (by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Stick-on Tile <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %			
3-03-01 Location: Thin Beige Floor Tile And Brown Adhesive; Unit 301, 302, 304, 307	116061825-10L1	Yes	2 % (by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Beige, Heterogeneous, Non-Fibrous, Floor Tile <b>Asbestos Types:</b> Chrysotile 2.0 % <b>Other Material:</b> Non-fibrous 98 %			
3-03-01 Location: Thin Beige Floor Tile And Brown Adhesive; Unit 301, 302, 304, 307	116061825-10L2	No	NAD (by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Brown, Heterogeneous, Non-Fibrous, Adhesive <b>Asbestos Types:</b> <b>Other Material:</b> Cellulose Trace, Non-fibrous 100 %			

Client Name: Dominion Due Diligence Group

**PLM Bulk Asbestos Report**White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 3

<b>Client No. / HGA</b>	<b>Lab No.</b>	<b>Asbestos Present</b>	<b>Total % Asbestos</b>
3-03-02	116061825-11L1	<b>Yes</b>	2 %
<b>Location:</b> Thin Beige Floor Tile And Brown Adhesive; Unit 301, 302, 304, 307			(by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Beige, Heterogeneous, Non-Fibrous, Floor Tile			
<b>Asbestos Types:</b> Chrysotile 2.0 %			
<b>Other Material:</b> Non-fibrous 98 %			
3-03-02	116061825-11L2	<b>No</b>	NAD
<b>Location:</b> Thin Beige Floor Tile And Brown Adhesive; Unit 301, 302, 304, 307			(by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Tan/Yellow, Heterogeneous, Non-Fibrous, Adhesive			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Cellulose Trace, Non-fibrous 100 %			
3-04-01	116061825-12	<b>No</b>	NAD
<b>Location:</b> 12x12 Green Floor Tile Peel And Stick; Unit 301			(by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Green, Heterogeneous, Non-Fibrous, Stick-on Tile			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Cellulose Trace, Synthetic fibers Trace, Non-fibrous 100 %			
3-04-02	116061825-13L1	<b>No</b>	NAD
<b>Location:</b> 12x12 Green Floor Tile Peel And Stick; Unit 301			(by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Green, Heterogeneous, Non-Fibrous, Self-Stick Floor Tile			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
3-04-02	116061825-13L2	<b>No</b>	NAD
<b>Location:</b> 12x12 Green Floor Tile Peel And Stick; Unit 301			(by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Brown, Heterogeneous, Non-Fibrous, Mastic			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Cellulose Trace, Non-fibrous 100 %			
3-05-01	116061825-14L1	<b>No</b>	NAD
<b>Location:</b> Off-White Linoleum; Unit 301 (2nd Layer)			(by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Off White, Heterogeneous, Fibrous, Linoleum			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Cellulose 22 %, Fibrous glass 3 %, Non-fibrous 75 %			

Client Name: Dominion Due Diligence Group

**PLM Bulk Asbestos Report**White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 3

<b>Client No. / HGA</b>	<b>Lab No.</b>	<b>Asbestos Present</b>	<b>Total % Asbestos</b>
3-05-01 <b>Location:</b> Off-White Linoleum; Unit 301 (2nd Layer)	116061825-14L2	<b>No</b>	<b>NAD</b> (by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Lt. Grey, Heterogeneous, Non-Fibrous, Floor Tile <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %			
3-05-02 <b>Location:</b> Off-White Linoleum; Unit 301 (2nd Layer)	116061825-15L1	<b>No</b>	<b>NAD</b> (by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Off White, Heterogeneous, Fibrous, Linoleum <b>Asbestos Types:</b> <b>Other Material:</b> Cellulose 22 %, Fibrous glass 3 %, Non-fibrous 75 %			
3-05-02 <b>Location:</b> Off-White Linoleum; Unit 301 (2nd Layer)	116061825-15L2	<b>No</b>	<b>NAD</b> (by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Lt. Grey, Heterogeneous, Non-Fibrous, Floor Tile <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %			
3-06-01 <b>Location:</b> 12x12 Brown Floor Tile Peel And Stick; Unit 301	116061825-16	<b>No</b>	<b>NAD</b> (by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Brown, Heterogeneous, Non-Fibrous, Self-Stick Floor Tile <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %			
3-07-01 <b>Location:</b> 12x12 Gray Floor Tile Peel And Stick; Unit 301	116061825-17	<b>No</b>	<b>NAD</b> (by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Grey, Heterogeneous, Non-Fibrous, Stick-on Tile <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %			
3-08-01 <b>Location:</b> *Gypsum Wallboard And Joint Compound; Throughout Building	116061825-18.1	<b>No</b>	<b>NAD</b> (by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Brown/White, Heterogeneous, Fibrous, Wall Board <b>Asbestos Types:</b> <b>Other Material:</b> Cellulose 5 %, Non-fibrous 95 %			

Client Name: Dominion Due Diligence Group

**PLM Bulk Asbestos Report**White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 3

<b>Client No. / HGA</b>	<b>Lab No.</b>	<b>Asbestos Present</b>	<b>Total % Asbestos</b>
3-08-01	116061825-18.2	<b>No</b>	<b>NAD</b>
<b>Location:</b> *Gypsum Wallboard And Joint Compound; Throughout Building			(by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Joint Compound			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
3-08-02	116061825-19.1	<b>No</b>	<b>NAD</b>
<b>Location:</b> *Gypsum Wallboard And Joint Compound; Throughout Building			(by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Brown/White, Heterogeneous, Fibrous, Wall Board			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Cellulose 5 %, Fibrous glass Trace, Non-fibrous 95 %			
3-08-02	116061825-19.2	<b>No</b>	<b>NAD</b>
<b>Location:</b> *Gypsum Wallboard And Joint Compound; Throughout Building			(by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Joint Compound			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
3-09-01	116061825-20L1	<b>No</b>	<b>NAD</b>
<b>Location:</b> 12x12 Light Brown Floor Tile And Brown Adhesive; Unit 303, 304, 305, 307, 308			(by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Off White, Heterogeneous, Fibrous, Floor Tile			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
3-09-01	116061825-20L2	<b>No</b>	<b>NAD</b>
<b>Location:</b> 12x12 Light Brown Floor Tile And Brown Adhesive; Unit 303, 304, 305, 307, 308			(by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Tan/Yellow, Heterogeneous, Non-Fibrous, Adhesive			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Cellulose Trace, Synthetic fibers Trace, Non-fibrous 100 %			
3-09-02	116061825-21L1	<b>No</b>	<b>NAD</b>
<b>Location:</b> 12x12 Light Brown Floor Tile And Brown Adhesive; Unit 303, 304, 305, 307, 308			(by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Lt. Brown, Heterogeneous, Non-Fibrous, Floor Tile			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			

See Reporting notes on last page

Client Name: Dominion Due Diligence Group

# PLM Bulk Asbestos Report

White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 3

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
3-09-02	116061825-21L2	No	NAD
Location: 12x12 Light Brown Floor Tile And Brown Adhesive; Unit 303, 304, 305, 307, 308 Analyst Description: Brown, Heterogeneous, Non-Fibrous, Adhesive Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			(by CVES) by David W. Ralbovsky on 06/20/16
3-10-01	116061825-22L1	Yes	2 %
Location: 12x12 Beige-Brown Floor Tile And Brown Adhesive; Unit 306 Analyst Description: Beige/Brown, Heterogeneous, Non-Fibrous, Floor Tile Asbestos Types: Chrysotile 2.0 % Other Material: Non-fibrous 98 %			(by CVES) by David W. Ralbovsky on 06/20/16
3-10-01	116061825-22L2	No	NAD
Location: 12x12 Beige-Brown Floor Tile And Brown Adhesive; Unit 306 Analyst Description: Brown, Heterogeneous, Non-Fibrous, Adhesive Asbestos Types: Other Material: Non-fibrous 100 %			(by CVES) by David W. Ralbovsky on 06/20/16
3-10-02	116061825-23L1	Yes	2 %
Location: 12x12 Beige-Brown Floor Tile And Brown Adhesive; Unit 306 Analyst Description: Beige/Brown, Heterogeneous, Non-Fibrous, Floor Tile Asbestos Types: Chrysotile 2.0 % Other Material: Non-fibrous 98 % Comment: No mastic.			(by CVES) by David W. Ralbovsky on 06/20/16

**Reporting Notes:**

Analyzed by: David W. Ralbovsky *David W. Ralbovsky* Date 6/20/16  
 \*NAD = no asbestos detected, Detection Limit <1%, Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; "Present" or NVA = "No Visible Asbestos" are observations made during a qualitative analysis; NA = not analyzed; NA/PS = not analyzed / positive stop; PLM Bulk Asbestos Analysis by EPA 600/R-93/116 per 40 CFR 763 (NVLAP Lab Code 101904-0) and ELAP PLM Analysis Protocol 198.1 for New York friable samples which includes quantitation of any vermiculite observed (198.6 for NOB samples) or EPA 400 pt ct by EPA 600/M4-82-020 (NYSDOH ELAP Lab # 10984); CA ELAP Lab # 2508; Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested.  
 Reviewed By: *David W. Ralbovsky*



**Asbestos Inspection Chain of Custody**

**116061825**

<b>Project</b>	White River Apartments – #2016-1014	<b>Date</b>	6-14-16
<b>Address</b>	2900 Marion Drive, Diaz, Arkansas	<b>TAT</b>	3-day
<b>Client</b>	Dominion Due Diligence Group (804) 358-2020 4121 Cox Road, Suite 200, Glen Allen, Virginia 23060	<b>Method</b>	PLM

**Building 3**

<b>Sample Number</b>	<b>Type</b>	<b>Material Description</b>	<b>Material Location</b>
3-01-01 3-01-02 3-01-03 3-01-04 3-01-05 3-01-06 3-01-07	S	Texture Ceiling	Throughout Building
3-02-01 3-02-02	M	12x12 White Floor Tile Peel and Stick	Unit 302, 303, 304
3-03-01 3-03-02	M	Thin Beige Floor Tile and Brown Adhesive	Unit 301, 302, 304, 307
3-04-01 3-04-02	M	12x12 Green Floor Tile Peel and Stick	Unit 301
3-05-01 3-05-02	M	Off-White Linoleum	Unit 301 (2 <sup>nd</sup> Layer)
3-06-01	M	12x12 Brown Floor Tile Peel and Stick	Unit 301
3-07-01	M	12x12 Gray Floor Tile Peel and Stick	Unit 301
3-08-01 3-08-02	M	* Gypsum Wallboard and Joint Compound	Throughout Building
3-09-01 3-09-02	M	12x12 Light Brown Floor Tile and Brown Adhesive	Unit 303, 304, 305, 307, 308
3-10-01 3-10-02	M	12x12 Beige-Brown Floor Tile and Brown Adhesive	Unit 306

\* Composite analysis of wallboard and joint compound requested if joint compound contains asbestos.

Material Type: M – Miscellaneous, S – Surfacing, TSI – Thermal System Insulation

**RECEIVED**

**JUN 16 2016**

By *AW*

Submitted by: Philip Zabel Date: 6-15-16 Signature: *Philip Zabel*

Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Signature: \_\_\_\_\_



Please Reply To:

**AmeriSci Richmond**

13635 GENITO ROAD  
MIDLOTHIAN, VIRGINIA 23112  
TEL: (804) 763-1200 • FAX: (804) 763-1800

**FACSIMILE TELECOPY TRANSMISSION**

**To:** Kim Dingledine  
Dominion Due Diligence Group  
**Fax #:**  
**Email:** k.dingledine@d3g.biz,hazmat@d3g.biz

**From:** David W. Ralbovsky  
**AmeriSci Job #:** 116061826  
**Subject:** PLM 3 day Results  
**Client Project:** White River Apartments -  
#2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Buildin

**Date:** Monday, June 20, 2016

**Time:** 07:45:07

**Comments:**

**Number of Pages:** 8  
(including cover sheet)

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## PLM Bulk Asbestos Report

Dominion Due Diligence Group  
Attn: Kim Dingledine  
4121 Cox Road  
Suite 200  
Glen Allen, VA 23060

**Date Received** 06/16/16    **AmeriSci Job #** 116061826  
**Date Examined** 06/20/16    **P.O. #**  
**Page** 1 of 6  
**RE: White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 4**

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
4-01-01 Location: Texture Ceiling; Throughout Building  Analyst Description: Beige, Heterogeneous, Fibrous, Asbestos Types: Other Material: Cellulose 7 %, Non-fibrous 93 %	116061826-01	No	NAD (by CVES) by David W. Ralbovsky on 06/20/16
4-01-02 Location: Texture Ceiling; Throughout Building  Analyst Description: Beige, Heterogeneous, Fibrous, Asbestos Types: Other Material: Cellulose 7 %, Non-fibrous 93 %	116061826-02	No	NAD (by CVES) by David W. Ralbovsky on 06/20/16
4-01-03 Location: Texture Ceiling; Throughout Building  Analyst Description: Beige, Heterogeneous, Fibrous, Asbestos Types: Other Material: Cellulose 7 %, Non-fibrous 93 %	116061826-03	No	NAD (by CVES) by David W. Ralbovsky on 06/20/16
4-01-04 Location: Texture Ceiling; Throughout Building  Analyst Description: Beige, Heterogeneous, Fibrous, Asbestos Types: Other Material: Cellulose 7 %, Non-fibrous 93 %	116061826-04	No	NAD (by CVES) by David W. Ralbovsky on 06/20/16
4-01-05 Location: Texture Ceiling; Throughout Building  Analyst Description: Beige, Heterogeneous, Non-Fibrous, Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 98 %, Perlite 2 %	116061826-05	No	NAD (by CVES) by David W. Ralbovsky on 06/20/16

See Reporting notes on last page

Client Name: Dominion Due Diligence Group

**PLM Bulk Asbestos Report**White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 4

<b>Client No. / HGA</b>	<b>Lab No.</b>	<b>Asbestos Present</b>	<b>Total % Asbestos</b>
4-01-06 <b>Location:</b> Texture Ceiling; Throughout Building	116061826-06	<b>No</b>	<b>NAD</b> (by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Beige, Heterogeneous, Non-Fibrous, <b>Asbestos Types:</b> <b>Other Material:</b> Cellulose Trace, Non-fibrous 98 %, Perlite 2 %			
4-01-07 <b>Location:</b> Texture Ceiling; Throughout Building	116061826-07	<b>No</b>	<b>NAD</b> (by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Beige, Heterogeneous, Non-Fibrous, <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 98 %, Perlite 2 %			
4-02-01 <b>Location:</b> 12x12 Light Gray Floor Tile And Brown Adhesive; Unit 404	116061826-08	<b>No</b>	<b>NAD</b> (by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Lt. Grey, Heterogeneous, Non-Fibrous, Floor Tile <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 % <b>Comment:</b> Insufficient adhesive for analysis.			
4-03-01 <b>Location:</b> White Floor Tile And Brown Adhesive; Unit 401, 402, 403, 404	116061826-09L1	<b>No</b>	<b>NAD</b> (by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Floor Tile <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %			
4-03-01 <b>Location:</b> White Floor Tile And Brown Adhesive; Unit 401, 402, 403, 404	116061826-09L2	<b>No</b>	<b>NAD</b> (by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Yellow, Heterogeneous, Non-Fibrous, Adhesive <b>Asbestos Types:</b> <b>Other Material:</b> Cellulose Trace, Synthetic fibers Trace, Non-fibrous 100 %			

Client Name: Dominion Due Diligence Group

**PLM Bulk Asbestos Report**White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 4

<b>Client No. / HGA</b>	<b>Lab No.</b>	<b>Asbestos Present</b>	<b>Total % Asbestos</b>
4-03-02	116061826-10L1	<b>No</b>	<b>NAD</b>
<b>Location:</b> White Floor Tile And Brown Adhesive; Unit 401, 402, 403, 404			(by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Floor Tile			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
4-03-02	116061826-10L2	<b>No</b>	<b>NAD</b>
<b>Location:</b> White Floor Tile And Brown Adhesive; Unit 401, 402, 403, 404			(by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Yellow, Heterogeneous, Non-Fibrous, Adhesive			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Animal hair Trace, Cellulose Trace, Non-fibrous 100 %			
4-04-01	116061826-11L1	<b>No</b>	<b>NAD</b>
<b>Location:</b> Thin Beige Floor Tile And Yellow Adhesive; Unit 403, 404 (Bottom Layer)			(by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Lt. Brown, Heterogeneous, Non-Fibrous, Floor Tile			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
4-04-01	116061826-11L2	<b>No</b>	<b>NAD</b>
<b>Location:</b> Thin Beige Floor Tile And Yellow Adhesive; Unit 403, 404 (Bottom Layer)			(by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Tan/Yellow, Heterogeneous, Non-Fibrous, Adhesive			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Animal hair Trace, Non-fibrous 100 %			
4-04-02	116061826-12L1	<b>No</b>	<b>NAD</b>
<b>Location:</b> Thin Beige Floor Tile And Yellow Adhesive; Unit 403, 404 (Bottom Layer)			(by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Lt. Brown, Heterogeneous, Non-Fibrous, Floor Tile			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
4-04-02	116061826-12L2	<b>No</b>	<b>NAD</b>
<b>Location:</b> Thin Beige Floor Tile And Yellow Adhesive; Unit 403, 404 (Bottom Layer)			(by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Tan/Yellow, Heterogeneous, Non-Fibrous, Adhesive			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Cellulose Trace, Non-fibrous 100 %			

Client Name: Dominion Due Diligence Group

**PLM Bulk Asbestos Report**White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 4

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
4-05-01	116061826-13L1	No	NAD
Location: 12x12 Dark Gray Floor Tile And Yellow Adhesive; Unit 403			(by CVES) by David W. Ralbovsky on 06/20/16
Analyst Description: Dark Gray, Heterogeneous, Non-Fibrous, Floor Tile			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
4-05-01	116061826-13L2	No	NAD
Location: 12x12 Dark Gray Floor Tile And Yellow Adhesive; Unit 403			(by CVES) by David W. Ralbovsky on 06/20/16
Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Adhesive			
Asbestos Types:			
Other Material: Cellulose Trace, Non-fibrous 100 %			
4-06-01	116061826-14L1	No	NAD
Location: 12x12 Light Brown Floor Tile And Yellow Adhesive; Unit 401, 405, 406, 407, 408			(by CVES) by David W. Ralbovsky on 06/20/16
Analyst Description: Off White/LtBrown, Heterogeneous, Non-Fibrous, Floor Tile			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
4-06-01	116061826-14L2	No	NAD
Location: 12x12 Light Brown Floor Tile And Yellow Adhesive; Unit 401, 405, 406, 407, 408			(by CVES) by David W. Ralbovsky on 06/20/16
Analyst Description: Pale Yellow, Heterogeneous, Non-Fibrous, Adhesive			
Asbestos Types:			
Other Material: Cellulose Trace, Non-fibrous 100 %			
4-06-02	116061826-15L1	No	NAD
Location: 12x12 Light Brown Floor Tile And Yellow Adhesive; Unit 401, 405, 406, 407, 408			(by CVES) by David W. Ralbovsky on 06/20/16
Analyst Description: Off White/LtBrown, Heterogeneous, Non-Fibrous, Floor Tile			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
4-06-02	116061826-15L2	No	NAD
Location: 12x12 Light Brown Floor Tile And Yellow Adhesive; Unit 401, 405, 406, 407, 408			(by CVES) by David W. Ralbovsky on 06/20/16
Analyst Description: Tan/Yellow, Heterogeneous, Non-Fibrous, Adhesive			
Asbestos Types:			
Other Material: Non-fibrous 100 %			

Client Name: Dominion Due Diligence Group

**PLM Bulk Asbestos Report**White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 4

<b>Client No. / HGA</b>	<b>Lab No.</b>	<b>Asbestos Present</b>	<b>Total % Asbestos</b>
4-07-01	116061826-16.1	<b>No</b>	<b>NAD</b>
Location: *Gypsum Wallboard And Joint Compound; Throughout Building			(by CVES) by David W. Ralbovsky on 06/20/16
Analyst Description: Brown/White, Heterogeneous, Fibrous, Wall Board			
Asbestos Types:			
Other Material: Fibrous glass Trace, Non-fibrous 100 %			
4-07-01	116061826-16.2	<b>No</b>	<b>NAD</b>
Location: *Gypsum Wallboard And Joint Compound; Throughout Building			(by CVES) by David W. Ralbovsky on 06/20/16
Analyst Description: White, Heterogeneous, Non-Fibrous, Joint Compound			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
4-07-02	116061826-17.1	<b>No</b>	<b>NAD</b>
Location: *Gypsum Wallboard And Joint Compound; Throughout Building			(by CVES) by David W. Ralbovsky on 06/20/16
Analyst Description: Brown/White, Heterogeneous, Fibrous, Wall Board			
Asbestos Types:			
Other Material: Cellulose 5 %, Fibrous glass Trace, Non-fibrous 95 %			
4-07-02	116061826-17.2	<b>No</b>	<b>NAD</b>
Location: *Gypsum Wallboard And Joint Compound; Throughout Building			(by CVES) by David W. Ralbovsky on 06/20/16
Analyst Description: White, Heterogeneous, Non-Fibrous, Joint Compound			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
4-08-01	116061826-18	<b>No</b>	<b>NAD</b>
Location: Ceramic Tile Pattern Linoleum; Unit 407			(by CVES) by David W. Ralbovsky on 06/20/16
Analyst Description: White, Heterogeneous, Non-Fibrous,			
Asbestos Types:			
Other Material: Fibrous glass 3 %, Non-fibrous 97 %			
4-09-01	116061826-19	<b>No</b>	<b>NAD</b>
Location: 12x12 White Floor Tile Peel And Stick; Unit 407			(by CVES) by David W. Ralbovsky on 06/20/16
Analyst Description: White, Heterogeneous, Non-Fibrous, Self-Stick Floor Tile			
Asbestos Types:			
Other Material: Non-fibrous 100 %			

See Reporting notes on last page

Client Name: Dominion Due Diligence Group

# PLM Bulk Asbestos Report

White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 4

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**Reporting Notes:**

Analyzed by: David W. Ralbovsky

Date 6/10/16

\*NAD = no asbestos detected, Detection Limit <1%, Reporting Limits: CVES = 1%, 400 Pt/Ct = 0.25%, 1000 Pt/Ct = 0.1%; "Present" or NVA = "No Visible Asbestos" are observations made during a qualitative analysis; NA = not analyzed; NA/PS = not analyzed / positive stop; PLM Bulk Asbestos Analysis by EPA 600/R-93/116 per 40 CFR 763 (NVLAP Lab Code 101904-0) and ELAP PLM Analysis Protocol 198.1 for New York friable samples which includes quantitation of any vermiculite observed (198.6 for NOB samples) or EPA 400 pt ct by EPA 600/M4-82-020 (NYSDOH ELAP Lab # 10984); CA ELAP Lab # 2508; Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested.

Reviewed By: David W. Ralbovsky



**Asbestos Inspection Chain of Custody**

**116061826**

<b>Project</b>	White River Apartments – #2016-1014	<b>Date</b>	6-14-16
<b>Address</b>	2900 Marion Drive, Diaz, Arkansas	<b>TAT</b>	3-day
<b>Client</b>	Dominion Due Diligence Group (804) 358-2020 4121 Cox Road, Suite 200, Glen Allen, Virginia 23060	<b>Method</b>	PLM

**Building 4**

Sample Number	Type	Material Description	Material Location
4-01-01 4-01-02 4-01-03 4-01-04 4-01-05 4-01-06 4-01-07	S	Texture Ceiling	Throughout Building
4-02-01	M	12x12 Light Gray Floor Tile and Brown Adhesive	Unit 404
4-03-01 4-03-02	M	White Floor Tile and Brown Adhesive	Unit 401, 402, 403, 404
4-04-01 4-04-02	M	Thin Beige Floor Tile and Yellow Adhesive	Unit 403, 404 (Bottom Layer)
4-05-01	M	12x12 Dark Gray Floor Tile and Yellow Adhesive	Unit 403
4-06-01 4-06-02	M	12x12 Light Brown Floor Tile and Yellow Adhesive	Unit 401, 405, 406, 407, 408
4-07-01 4-07-02	M	* Gypsum Wallboard and Joint Compound	Throughout Building
4-08-01	M	Ceramic Tile Pattern Linoleum	Unit 407
4-09-01	M	12x12 White Floor Tile Peel and Stick	Unit 407

\* Composite analysis of wallboard and joint compound requested if joint compound contains asbestos.

Material Type: M – Miscellaneous, S – Surfacing, TSI – Thermal System Insulation

RECEIVED

JUN 16 2016

By         *o*        

Submitted by: Philip Zabel Date: 6-15-16 Signature: *Philip Zabel*

Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Signature: \_\_\_\_\_

116061826

AmeriSci Job Tracking Sheet

Job Number: \_\_\_\_\_

Received By:     D    

Scheduled:     N    

Sample Counted By:     D    

Verified By:     D    

# of Samples:     19    

Labeled By:     D    

Client Common Name:     Dominion    

Analysis Type:     PLM    

TAT:     3day    

Delivery/Tracking#	
Hand	<input type="checkbox"/>
Fed Ex	<input checked="" type="checkbox"/>
Drop Box	<input type="checkbox"/>
UPS	<input type="checkbox"/>
Courier	<input type="checkbox"/>
DHL	<input type="checkbox"/>
US Mail	<input type="checkbox"/>
Other	<input type="checkbox"/>

Sample/COC Discrepancies:

Resolution:

Job Created:     D    

Samples Entered:     A / D    

Prep Tech(s): \_\_\_\_\_

QC Analyst: \_\_\_\_\_

Prep Data Entry: \_\_\_\_\_

QC Data Entry: \_\_\_\_\_

Filtered Date: \_\_\_\_\_ Time: \_\_\_\_\_

QC Reviewed According to SOP: \_\_\_\_\_

By: \_\_\_\_\_ Prior To Release

Analyst 1: \_\_\_\_\_

Reviewed By 1: \_\_\_\_\_

Analyst Data Entry: \_\_\_\_\_

Reviewed By 2: \_\_\_\_\_

Faxed By: \_\_\_\_\_ Emailed: \_\_\_\_\_

Report Amended By 1: \_\_\_\_\_ 2: \_\_\_\_\_

Analyst 2: \_\_\_\_\_

Invoice Printed By: \_\_\_\_\_

Analyst 2 Data Entry: \_\_\_\_\_

Invoice Reviewed By: \_\_\_\_\_

Faxed By 2: \_\_\_\_\_

Scanned By: \_\_\_\_\_

Verbal Given By 1: \_\_\_\_\_ 2 \_\_\_\_\_

Shipped By/Date: \_\_\_\_\_

On-Going Job Notes:



Please Reply To:

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MIDLOTHIAN, VIRGINIA 23112  
TEL: (804) 763-1200 • FAX: (804) 763-1800

**FACSIMILE TELECOPY TRANSMISSION**

**To:** Kim Dingleline  
Dominion Due Diligence Group  
**Fax #:**  
**Email:** k.dingleline@d3g.biz,hazmat@d3g.biz

**From:** J. Samuel Baird  
**AmeriSci Job #:** 116061827  
**Subject:** PLM 3 day Results  
**Client Project:** White River Apartments -  
#2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Buildin

**Date:** Monday, June 20, 2016  
**Time:** 12:12:27

**Number of Pages:** 9  
(including cover sheet)

**Comments:**

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## PLM Bulk Asbestos Report

Dominion Due Diligence Group  
Attn: Kim Dingleline  
4121 Cox Road  
Suite 200  
Glen Allen, VA 23060

**Date Received** 06/16/16  
**Date Examined** 06/20/16

**AmeriSci Job #** 116061827  
**P.O. #**  
**Page** 1 of 7

**RE:** White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 5

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
5-01-01 Location: Texture Ceiling; Throughout Building  <b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Textured Ceiling <b>Asbestos Types:</b> <b>Other Material:</b> Synthetic fibers 2 %, Non-fibrous 98 %	116061827-01	No	NAD (by CVES) by J. Samuel Baird on 06/20/16
5-01-02 Location: Texture Ceiling; Throughout Building  <b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Textured Ceiling <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %	116061827-02	No	NAD (by CVES) by J. Samuel Baird on 06/20/16
5-01-03 Location: Texture Ceiling; Throughout Building  <b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Textured Ceiling <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %	116061827-03	No	NAD (by CVES) by J. Samuel Baird on 06/20/16
5-01-04 Location: Texture Ceiling; Throughout Building  <b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Textured Ceiling <b>Asbestos Types:</b> <b>Other Material:</b> Synthetic fibers 2 %, Non-fibrous 98 %	116061827-04	No	NAD (by CVES) by J. Samuel Baird on 06/20/16
5-01-05 Location: Texture Ceiling; Throughout Building  <b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Textured Ceiling <b>Asbestos Types:</b> <b>Other Material:</b> Synthetic fibers 2 %, Non-fibrous 98 %	116061827-05	No	NAD (by CVES) by J. Samuel Baird on 06/20/16

Client Name: Dominion Due Diligence Group

**PLM Bulk Asbestos Report**White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 5

<b>Client No. / HGA</b>	<b>Lab No.</b>	<b>Asbestos Present</b>	<b>Total % Asbestos</b>
5-01-06 <b>Location:</b> Texture Ceiling; Throughout Building	116061827-06	<b>No</b>	<b>NAD</b> (by CVES) by J. Samuel Baird on 06/20/16
<b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Textured Ceiling <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %			
5-01-07 <b>Location:</b> Texture Ceiling; Throughout Building	116061827-07	<b>No</b>	<b>NAD</b> (by CVES) by J. Samuel Baird on 06/20/16
<b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Textured Ceiling <b>Asbestos Types:</b> <b>Other Material:</b> Synthetic fibers Trace, Non-fibrous 100 %			
5-02-01 <b>Location:</b> 12x12 Brown Floor Tile And Yellow Adhesive; Unit 501, 503	116061827-08L1	<b>No</b>	<b>NAD</b> (by CVES) by J. Samuel Baird on 06/20/16
<b>Analyst Description:</b> Brown, Heterogeneous, Non-Fibrous, Floor Tile <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %			
5-02-01 <b>Location:</b> 12x12 Brown Floor Tile And Yellow Adhesive; Unit 501, 503	116061827-08L2	<b>No</b>	<b>NAD</b> (by CVES) by J. Samuel Baird on 06/20/16
<b>Analyst Description:</b> Yellow, Heterogeneous, Non-Fibrous, Mastic <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %			
5-02-02 <b>Location:</b> 12x12 Brown Floor Tile And Yellow Adhesive; Unit 501, 503	116061827-09L1	<b>No</b>	<b>NAD</b> (by CVES) by J. Samuel Baird on 06/20/16
<b>Analyst Description:</b> Brown, Heterogeneous, Non-Fibrous, Floor Tile <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %			
5-02-02 <b>Location:</b> 12x12 Brown Floor Tile And Yellow Adhesive; Unit 501, 503	116061827-09L2	<b>No</b>	<b>NAD</b> (by CVES) by J. Samuel Baird on 06/20/16
<b>Analyst Description:</b> Yellow, Heterogeneous, Non-Fibrous, Mastic <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %			

Client Name: Dominion Due Diligence Group

**PLM Bulk Asbestos Report**White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 5

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
5-03-01	116061827-10L1	No	NAD
Location: Thin Beige Floor Tile And Yellow Adhesive; Unit 503, 504 (Bottom Layer)			(by CVES) by J. Samuel Baird on 06/20/16
Analyst Description: Beige, Heterogeneous, Non-Fibrous, Floor Tile			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
5-03-01	116061827-10L2	No	NAD
Location: Thin Beige Floor Tile And Yellow Adhesive; Unit 503, 504 (Bottom Layer)			(by CVES) by J. Samuel Baird on 06/20/16
Analyst Description: White, Heterogeneous, Non-Fibrous, Mastic			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
5-03-02	116061827-11L1	No	NAD
Location: Thin Beige Floor Tile And Yellow Adhesive; Unit 503, 504 (Bottom Layer)			(by CVES) by J. Samuel Baird on 06/20/16
Analyst Description: Beige, Heterogeneous, Non-Fibrous, Floor Tile			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
5-03-02	116061827-11L2	No	NAD
Location: Thin Beige Floor Tile And Yellow Adhesive; Unit 503, 504 (Bottom Layer)			(by CVES) by J. Samuel Baird on 06/20/16
Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Mastic			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
5-04-01	116061827-12.1	No	NAD
Location: *Gypsum Wallboard And Joint Compound; Throughout Building			(by CVES) by J. Samuel Baird on 06/20/16
Analyst Description: White, Heterogeneous, Non-Fibrous, Wall Board			
Asbestos Types:			
Other Material: Cellulose 5 %, Fibrous glass 2 %, Non-fibrous 93 %			
5-04-01	116061827-12.2	No	NAD
Location: *Gypsum Wallboard And Joint Compound; Throughout Building			(by CVES) by J. Samuel Baird on 06/20/16
Analyst Description: White, Heterogeneous, Non-Fibrous, Joint Compound			
Asbestos Types:			
Other Material: Non-fibrous 100 %			

Client Name: Dominion Due Diligence Group

**PLM Bulk Asbestos Report**White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 5

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
5-04-02	116061827-13.1	No	NAD
Location: *Gypsum Wallboard And Joint Compound; Throughout Building			(by CVES) by J. Samuel Baird on 06/20/16
Analyst Description: White, Heterogeneous, Non-Fibrous, Wall Board			
Asbestos Types:			
Other Material: Cellulose 5 %, Fibrous glass 2 %, Non-fibrous 93 %			
5-04-02	116061827-13.2	No	NAD
Location: *Gypsum Wallboard And Joint Compound; Throughout Building			(by CVES) by J. Samuel Baird on 06/20/16
Analyst Description: White, Heterogeneous, Non-Fibrous, Joint Compound			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
5-05-01	116061827-14L1	No	NAD
Location: 12x12 Light Brown Floor Tile And Brown Adhesive; Unit 504, 505, 506			(by CVES) by J. Samuel Baird on 06/20/16
Analyst Description: Lt. Brown, Heterogeneous, Non-Fibrous, Floor Tile			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
5-05-01	116061827-14L2	No	NAD
Location: 12x12 Light Brown Floor Tile And Brown Adhesive; Unit 504, 505, 506			(by CVES) by J. Samuel Baird on 06/20/16
Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Mastic			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
5-05-02	116061827-15L1	No	NAD
Location: 12x12 Light Brown Floor Tile And Brown Adhesive; Unit 504, 505, 506			(by CVES) by J. Samuel Baird on 06/20/16
Analyst Description: Tan, Heterogeneous, Non-Fibrous, Floor Tile			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
5-05-02	116061827-15L2	No	NAD
Location: 12x12 Light Brown Floor Tile And Brown Adhesive; Unit 504, 505, 506			(by CVES) by J. Samuel Baird on 06/20/16
Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Mastic			
Asbestos Types:			
Other Material: Non-fibrous 100 %			

Client Name: Dominion Due Diligence Group

**PLM Bulk Asbestos Report**White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 5

<b>Client No. / HGA</b>	<b>Lab No.</b>	<b>Asbestos Present</b>	<b>Total % Asbestos</b>
5-06-01 <b>Location:</b> White Floor Tile Peel And Stick; Unit 504	116061827-16	<b>No</b>	<b>NAD</b> (by CVES) by J. Samuel Baird on 06/20/16
<b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Floor Tile <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %			
5-07-01 <b>Location:</b> White Floor Tile And Brown Adhesive; Unit 504	116061827-17L1	<b>No</b>	<b>NAD</b> (by CVES) by J. Samuel Baird on 06/20/16
<b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Floor Tile <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %			
5-07-01 <b>Location:</b> White Floor Tile And Brown Adhesive; Unit 504	116061827-17L2	<b>No</b>	<b>NAD</b> (by CVES) by J. Samuel Baird on 06/20/16
<b>Analyst Description:</b> Yellow, Heterogeneous, Non-Fibrous, Mastic <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %			
5-08-01 <b>Location:</b> 12x12 Faux Wood Floor Tile Peel And Stick; Unit 504	116061827-18	<b>No</b>	<b>NAD</b> (by CVES) by J. Samuel Baird on 06/20/16
<b>Analyst Description:</b> Brown, Heterogeneous, Non-Fibrous, Floor Tile <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %			
5-09-01 <b>Location:</b> 12x12 White Floor Tile Peel And Stick; Unit 501, 502, 505	116061827-19	<b>No</b>	<b>NAD</b> (by CVES) by J. Samuel Baird on 06/20/16
<b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Floor Tile <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %			
5-09-02 <b>Location:</b> 12x12 White Floor Tile Peel And Stick; Unit 501, 502, 505	116061827-20	<b>No</b>	<b>NAD</b> (by CVES) by J. Samuel Baird on 06/20/16
<b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Floor Tile <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %			



Client Name: Dominion Due Diligence Group

**PLM Bulk Asbestos Report**White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 5

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
5-10-01 Location: Light Brown Linoleum; Unit 502  Analyst Description: Lt. Brown, Heterogeneous, Non-Fibrous, Linoleum Asbestos Types: Other Material: Fibrous glass 10 %, Non-fibrous 90 %	116061827-21	No	NAD (by CVES) by J. Samuel Baird on 06/20/16
5-11-01 Location: Off-White Floor Tile And Brown Adhesive; Unit 502  Analyst Description: Off White, Heterogeneous, Non-Fibrous, Floor Tile Asbestos Types: Other Material: Non-fibrous 100 %	116061827-22L1	No	NAD (by CVES) by J. Samuel Baird on 06/20/16
5-11-01 Location: Off-White Floor Tile And Brown Adhesive; Unit 502  Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Mastic Asbestos Types: Other Material: Non-fibrous 100 %	116061827-22L2	No	NAD (by CVES) by J. Samuel Baird on 06/20/16
5-12-01 Location: 12x12 Red Floor Tile Peel And Stick; Unit 502  Analyst Description: Red, Heterogeneous, Non-Fibrous, Floor Tile Asbestos Types: Other Material: Non-fibrous 100 %	116061827-23	No	NAD (by CVES) by J. Samuel Baird on 06/20/16
5-13-01 Location: 12x12 Gray Floor Tile And Yellow Adhesive; Unit 507  Analyst Description: Gray, Heterogeneous, Non-Fibrous, Floor Tile Asbestos Types: Other Material: Non-fibrous 100 %	116061827-24L1	No	NAD (by CVES) by J. Samuel Baird on 06/20/16
5-13-01 Location: 12x12 Gray Floor Tile And Yellow Adhesive; Unit 507  Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Mastic Asbestos Types: Other Material: Non-fibrous 100 %	116061827-24L2	No	NAD (by CVES) by J. Samuel Baird on 06/20/16

Client Name: Dominion Due Diligence Group

# PLM Bulk Asbestos Report

White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 5

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
5-14-01 <b>Location:</b> Light Brown Ceramic Tile Pattern Linoleum; Unit 507, 508	116061827-25	No	NAD (by CVES) by J. Samuel Baird on 06/20/16
<b>Analyst Description:</b> Lt. Brown, Heterogeneous, Non-Fibrous, Linoleum			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
5-14-02 <b>Location:</b> Light Brown Ceramic Tile Pattern Linoleum; Unit 507, 508	116061827-26	No	NAD (by CVES) by J. Samuel Baird on 06/20/16
<b>Analyst Description:</b> Lt. Brown, Heterogeneous, Non-Fibrous, Linoleum			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
5-15-01 <b>Location:</b> Yellow Linoleum; Unit 508 (3rd Layer)	116061827-27	No	NAD (by CVES) by J. Samuel Baird on 06/20/16
<b>Analyst Description:</b> Yellow, Heterogeneous, Non-Fibrous, Linoleum			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Cellulose 40 %, Fibrous glass 10 %, Non-fibrous 50 %			

**Reporting Notes:**

Analyzed by: J. Samuel Baird

Date

*JSB*  
6/20/16

\*NAD = no asbestos detected, Detection Limit <1%; Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; "Present" or NVA = "No Visible Asbestos" are observations made during a qualitative analysis; NA = not analyzed; NA/PS = not analyzed / positive stop; PLM Bulk Asbestos Analysis by EPA 600/R-93/116 per 40 CFR 763 (NVLAP Lab Code 101904-0) and ELAP PLM Analysis Protocol 198.1 for New York friable samples which includes quantitation of any vermiculite observed (198.6 for NOB samples) or EPA 400 pt ct by EPA 600/M4-82-020 (NYSDOH ELAP Lab # 10984); CA ELAP Lab # 2508; Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested.

Reviewed By:

*JSB*

116061827

**Asbestos Inspection Chain of Custody**

<b>Project</b>	White River Apartments – #2016-1014	<b>Date</b>	6-14-16
<b>Address</b>	2900 Marion Drive, Diaz, Arkansas	<b>TAT</b>	3-day
<b>Client</b>	Dominion Due Diligence Group (804) 358-2020 4121 Cox Road, Suite 200, Glen Allen, Virginia 23060	<b>Method</b>	PLM

Building 5

[Redacted Header]			
5-01-01 5-01-02 5-01-03 5-01-04 5-01-05 5-01-06 5-01-07	S	Texture Ceiling	Throughout Building
5-02-01 5-02-02	M	12x12 Brown Floor Tile and Yellow Adhesive	Unit 501, 503
5-03-01 5-03-02	M	Thin Beige Floor Tile and Yellow Adhesive	Unit 503, 504 (Bottom Layer)
5-04-01 5-04-02	M	* Gypsum Wallboard and Joint Compound	Throughout Building
5-05-01 5-05-02	M	12x12 Light Brown Floor Tile and Brown Adhesive	Unit 504, 505, 506
5-06-01	M	White Floor Tile Peel and Stick	Unit 504
5-07-01	M	White Floor Tile and Brown Adhesive	Unit 504
5-08-01	M	12x12 Faux Wood Floor Tile Peel and Stick	Unit 504
5-09-01 5-09-02	M	12x12 White Floor Tile Peel and Stick	Unit 501, 502, 505
5-10-01	M	Light Brown Linoleum	Unit 502
5-11-01	M	Off-White Floor Tile and Brown Adhesive	Unit 502
5-12-01	M	12x12 Red Floor Tile Peel and Stick	Unit 502
5-13-01	M	12x12 Gray Floor Tile and Yellow Adhesive	Unit 507
5-14-01 5-14-02	M	Light Brown Ceramic Tile Pattern Linoleum	Unit 507, 508
5-15-01	M	Yellow Linoleum	Unit 508 (3 <sup>rd</sup> Layer)

\* Composite analysis of wallboard and joint compound requested if joint compound contains asbestos.

Material Type: M – Miscellaneous, S – Surfacing, TSI – Thermal System Insulation

RECEIVED  
JUN 16 2016

Submitted by: Philip Zabel Date: 6-15-16 Signature: *Philip Zabel* By: D  
 Recieved by: \_\_\_\_\_ Date: \_\_\_\_\_ Signature: \_\_\_\_\_



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MIDLOTHIAN, VIRGINIA 23112  
TEL: (804) 763-1200 • FAX: (804) 763-1800

**FACSIMILE TELECOPY TRANSMISSION**

**To:** Kim Dingledine  
Dominion Due Diligence Group  
**Fax #:**  
**Email:** k.dingledine@d3g.biz,hazmat@d3g.biz

**From:** J. Samuel Baird  
**AmeriSci Job #:** 116061828  
**Subject:** PLM 3 day Results  
**Client Project:** White River Apartments -  
#2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Buildin

**Date:** Monday, June 20, 2016  
**Time:** 15:43:45  
**Comments:**

**Number of Pages:**   
(including cover sheet)

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## PLM Bulk Asbestos Report

Dominion Due Diligence Group  
Attn: Kim Dingledine  
4121 Cox Road  
Suite 200  
Glen Allen, VA 23060

**Date Received** 06/16/16    **AmeriSci Job #** 116061828  
**Date Examined** 06/20/16    **P.O. #**  
**Page** 1 of 7  
**RE:** White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 6

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
6-01-01 Location: Textured Ceiling; Throughout Building  Analyst Description: White, Heterogeneous, Non-Fibrous, Textured Ceiling Asbestos Types: Other Material: Non-fibrous 100 %	116061828-01	No	NAD (by CVES) by J. Samuel Baird on 06/20/16
6-01-02 Location: Textured Ceiling; Throughout Building  Analyst Description: White, Heterogeneous, Non-Fibrous, Textured Ceiling Asbestos Types: Other Material: Non-fibrous 100 %	116061828-02	No	NAD (by CVES) by J. Samuel Baird on 06/20/16
6-01-03 Location: Textured Ceiling; Throughout Building  Analyst Description: White, Heterogeneous, Non-Fibrous, Textured Ceiling Asbestos Types: Other Material: Non-fibrous 100 %	116061828-03	No	NAD (by CVES) by J. Samuel Baird on 06/20/16
6-01-04 Location: Textured Ceiling; Throughout Building  Analyst Description: White, Heterogeneous, Non-Fibrous, Textured Ceiling Asbestos Types: Other Material: Non-fibrous 100 %	116061828-04	No	NAD (by CVES) by J. Samuel Baird on 06/20/16
6-01-05 Location: Textured Ceiling; Throughout Building  Analyst Description: White, Heterogeneous, Non-Fibrous, Textured Ceiling Asbestos Types: Other Material: Non-fibrous 100 %	116061828-05	No	NAD (by CVES) by J. Samuel Baird on 06/20/16

Client Name: Dominion Due Diligence Group

**PLM Bulk Asbestos Report**White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 6

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
6-01-06 <b>Location:</b> Textured Ceiling; Throughout Building  <b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Textured Ceiling <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %	116061828-06	No	NAD (by CVES) by J. Samuel Baird on 06/20/16
6-01-07 <b>Location:</b> Textured Ceiling; Throughout Building  <b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Textured Ceiling <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %	116061828-07	No	NAD (by CVES) by J. Samuel Baird on 06/20/16
6-02-01 <b>Location:</b> 12x12 Faux Wood Floor Tile Peel And Stick; Unit 604  <b>Analyst Description:</b> Brown, Heterogeneous, Non-Fibrous, Floor Tile <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %	116061828-08	No	NAD (by CVES) by J. Samuel Baird on 06/20/16
6-03-01 <b>Location:</b> White Floor Tile And Yellow Adhesive; Unit 604, 605  <b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Floor Tile <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %	116061828-09L1	No	NAD (by CVES) by J. Samuel Baird on 06/20/16
6-03-01 <b>Location:</b> White Floor Tile And Yellow Adhesive; Unit 604, 605  <b>Analyst Description:</b> Yellow, Heterogeneous, Non-Fibrous, Mastic <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %	116061828-09L2	No	NAD (by CVES) by J. Samuel Baird on 06/20/16
6-03-02 <b>Location:</b> White Floor Tile And Yellow Adhesive; Unit 604, 605  <b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Floor Tile <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %	116061828-10L1	No	NAD (by CVES) by J. Samuel Baird on 06/20/16

Client Name: Dominion Due Diligence Group

**PLM Bulk Asbestos Report**White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 6

<b>Client No. / HGA</b>	<b>Lab No.</b>	<b>Asbestos Present</b>	<b>Total % Asbestos</b>
6-03-02	116061828-10L2	<b>No</b>	<b>NAD</b>
<b>Location:</b> White Floor Tile And Yellow Adhesive; Unit 604, 605			(by CVES) by J. Samuel Baird on 06/20/16
<b>Analyst Description:</b> Yellow, Heterogeneous, Non-Fibrous, Mastic			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
6-04-01	116061828-11L1	<b>Yes</b>	<b>2 %</b>
<b>Location:</b> Thin Beige Floor Tile And Yellow Adhesive; Unit 602, 604 (Bottom Layer)			(by CVES) by J. Samuel Baird on 06/20/16
<b>Analyst Description:</b> Beige, Heterogeneous, Non-Fibrous, Floor Tile			
<b>Asbestos Types:</b> Chrysotile 2.0 %			
<b>Other Material:</b> Non-fibrous 98 %			
6-04-01	116061828-11L2	<b>No</b>	<b>NAD</b>
<b>Location:</b> Thin Beige Floor Tile And Yellow Adhesive; Unit 602, 604 (Bottom Layer)			(by CVES) by J. Samuel Baird on 06/20/16
<b>Analyst Description:</b> Yellow, Heterogeneous, Non-Fibrous, Mastic			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
6-04-02	116061828-12L1	<b>No</b>	<b>NAD</b>
<b>Location:</b> Thin Beige Floor Tile And Yellow Adhesive; Unit 602, 604 (Bottom Layer)			(by CVES) by J. Samuel Baird on 06/20/16
<b>Analyst Description:</b> Beige, Heterogeneous, Non-Fibrous, Floor Tile			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
6-04-02	116061828-12L2	<b>No</b>	<b>NAD</b>
<b>Location:</b> Thin Beige Floor Tile And Yellow Adhesive; Unit 602, 604 (Bottom Layer)			(by CVES) by J. Samuel Baird on 06/20/16
<b>Analyst Description:</b> Yellow, Heterogeneous, Non-Fibrous, Mastic			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
6-05-01	116061828-13	<b>No</b>	<b>NAD</b>
<b>Location:</b> Gray Ceramic Tile Pattern Linoleum; Unit 604			(by CVES) by J. Samuel Baird on 06/20/16
<b>Analyst Description:</b> White/Gray, Heterogeneous, Non-Fibrous, Linoleum			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			

See Reporting notes on last page

Client Name: Dominion Due Diligence Group

**PLM Bulk Asbestos Report**White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 6

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
6-06-01	116061828-14L1	No	NAD
Location: 12x12 Gray Floor Tile With Black Backing And Yellow Adhesive; Unit 603			(by CVES) by J. Samuel Baird on 06/20/16
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Floor Tile			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
6-06-01	116061828-14L2	No	NAD
Location: 12x12 Gray Floor Tile With Black Backing And Yellow Adhesive; Unit 603			(by CVES) by J. Samuel Baird on 06/20/16
Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Mastic			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
6-07-01	116061828-15L1	No	NAD
Location: 12x12 Light Brown Floor Tile And Brown Adhesive; Unit 603, 605, 607, 608			(by CVES) by J. Samuel Baird on 06/20/16
Analyst Description: Lt. Brown, Heterogeneous, Non-Fibrous, Floor Tile			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
6-07-01	116061828-15L2	No	NAD
Location: 12x12 Light Brown Floor Tile And Brown Adhesive; Unit 603, 605, 607, 608			(by CVES) by J. Samuel Baird on 06/20/16
Analyst Description: Amber, Heterogeneous, Non-Fibrous, Mastic			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
6-07-02	116061828-16L1	No	NAD
Location: 12x12 Light Brown Floor Tile And Brown Adhesive; Unit 603, 605, 607, 608			(by CVES) by J. Samuel Baird on 06/20/16
Analyst Description: Lt. Brown, Heterogeneous, Non-Fibrous, Floor Tile			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
6-07-02	116061828-16L2	No	NAD
Location: 12x12 Light Brown Floor Tile And Brown Adhesive; Unit 603, 605, 607, 608			(by CVES) by J. Samuel Baird on 06/20/16
Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Mastic			
Asbestos Types:			
Other Material: Non-fibrous 100 %			

See Reporting notes on last page



Client Name: Dominion Due Diligence Group

**PLM Bulk Asbestos Report**White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 6

<b>Client No. / HGA</b>	<b>Lab No.</b>	<b>Asbestos Present</b>	<b>Total % Asbestos</b>
6-08-01	116061828-17	<b>No</b>	<b>NAD</b>
<b>Location:</b> 12x12 White Floor Tile Peel And Stick; Unit 602, 603, 605			(by CVES) by J. Samuel Baird on 06/20/16
<b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Floor Tile			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
6-08-02	116061828-18	<b>No</b>	<b>NAD</b>
<b>Location:</b> 12x12 White Floor Tile Peel And Stick; Unit 602, 603, 605			(by CVES) by J. Samuel Baird on 06/20/16
<b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Floor Tile			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
6-09-01	116061828-19	<b>No</b>	<b>NAD</b>
<b>Location:</b> 12x12 White Floor Tile And Brown Adhesive; Unit 602, 606, 607, 608			(by CVES) by J. Samuel Baird on 06/20/16
<b>Analyst Description:</b> White/Brown, Heterogeneous, Non-Fibrous, Floor Tile			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
<b>Comment:</b> insufficient mastic present for analysis			
6-09-02	116061828-20L1	<b>No</b>	<b>NAD</b>
<b>Location:</b> 12x12 White Floor Tile And Brown Adhesive; Unit 602, 606, 607, 608			(by CVES) by J. Samuel Baird on 06/20/16
<b>Analyst Description:</b> White/Brown, Heterogeneous, Non-Fibrous, Floor Tile			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
6-09-02	116061828-20L2	<b>No</b>	<b>NAD</b>
<b>Location:</b> 12x12 White Floor Tile And Brown Adhesive; Unit 602, 606, 607, 608			(by CVES) by J. Samuel Baird on 06/20/16
<b>Analyst Description:</b> Yellow, Heterogeneous, Non-Fibrous, Mastic			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			

Client Name: Dominion Due Diligence Group

**PLM Bulk Asbestos Report**White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 6

<b>Client No. / HGA</b>	<b>Lab No.</b>	<b>Asbestos Present</b>	<b>Total % Asbestos</b>
6-10-01 <b>Location:</b> 12x12 Slate Floor Tile Peel And Stick; Unit 602	116061828-21	<b>No</b>	<b>NAD</b> (by CVES) by J. Samuel Baird on 06/20/16
<b>Analyst Description:</b> Gray, Heterogeneous, Non-Fibrous, Floor Tile			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
6-11-01 <b>Location:</b> *Gypsum Wallboard And Joint Compound; Throughout Building	116061828-22.1	<b>No</b>	<b>NAD</b> (by CVES) by J. Samuel Baird on 06/20/16
<b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Wall Board			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Cellulose 5 %, Fibrous glass 2 %, Non-fibrous 93 %			
6-11-01 <b>Location:</b> *Gypsum Wallboard And Joint Compound; Throughout Building	116061828-22.2	<b>No</b>	<b>NAD</b> (by CVES) by J. Samuel Baird on 06/20/16
<b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Joint Compound			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
6-11-02 <b>Location:</b> *Gypsum Wallboard And Joint Compound; Throughout Building	116061828-23.1	<b>No</b>	<b>NAD</b> (by CVES) by J. Samuel Baird on 06/20/16
<b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Wall Board			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Cellulose 5 %, Fibrous glass 2 %, Non-fibrous 93 %			
6-11-02 <b>Location:</b> *Gypsum Wallboard And Joint Compound; Throughout Building	116061828-23.2	<b>No</b>	<b>NAD</b> (by CVES) by J. Samuel Baird on 06/20/16
<b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Joint Compound			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			

Client Name: Dominion Due Diligence Group

# PLM Bulk Asbestos Report

White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 6

**Reporting Notes:**

Analyzed by: J. Samuel Baird *J. Samuel Baird* Date 6/20/16

\*NAD = no asbestos detected, Detection Limit <1%, Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; "Present" or NVA = "No Visible Asbestos" are observations made during a qualitative analysis; NA = not analyzed; NA/PS = not analyzed / positive stop; PLM Bulk Asbestos Analysis by EPA 600/R-93/116 per 40 CFR 763 (NVLAP Lab Code 101904-0) and ELAP PLM Analysis Protocol 198.1 for New York friable samples which includes quantitation of any vermiculite observed (198.6 for NOB samples) or EPA 400 pt ct by EPA 600/M4-82-020 (NYSDOH ELAP Lab # 10984); CA ELAP Lab # 2508; Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested.

Reviewed By: *J. Samuel Baird*

116061828

**Asbestos Inspection Chain of Custody**

<b>Project</b>	White River Apartments – #2016-1014	<b>Date</b>	6-14-16
<b>Address</b>	2900 Marion Drive, Diaz, Arkansas	<b>TAT</b>	3-day
<b>Client</b>	Dominion Due Diligence Group (804) 358-2020 4121 Cox Road, Suite 200, Glen Allen, Virginia 23060	<b>Method</b>	PLM

**Building 6**

Sample Number	Type	Material Description	Material Location
6-01-01 6-01-02 6-01-03 6-01-04 6-01-05 6-01-06 6-01-07	S	Texture Ceiling	Throughout Building
6-02-01	M	12x12 Faux Wood Floor Tile Peel and Stick	Unit 604
6-03-01 6-03-02	M	White Floor Tile and Yellow Adhesive	Unit 604, 605
6-04-01 6-04-02	M	Thin Beige Floor Tile and Yellow Adhesive	Unit 602, 604 (Bottom Layer)
6-05-01	M	Gray Ceramic Tile Pattern Linoleum	Unit 604
6-06-01	M	12x12 Gray Floor Tile with Black Backing and Yellow Adhesive	Unit 603
6-07-01 6-07-02	M	12x12 Light Brown Floor Tile and Brown Adhesive	Unit 603, 605, 607, 608
6-08-01 6-08-02	M	12x12 White Floor Tile Peel and Stick	Unit 602, 603, 605
6-09-01 6-09-02	M	12x12 White Floor Tile and Brown Adhesive	Unit 602, 606, 607, 608
6-10-01	M	12x12 Slate Floor Tile Peel and Stick	Unit 602
6-11-01 6-11-02	M	* Gypsum Wallboard and Joint Compound	Throughout Building

\* Composite analysis of wallboard and joint compound requested if joint compound contains asbestos.

Material Type: M – Miscellaneous, S – Surfacing, TSI – Thermal System Insulation

RECEIVED

JUN 16 2016

Submitted by: Philip Zabel Date: 6-15-16 Signature: [Signature] By: [Signature]  
 Recieved by: \_\_\_\_\_ Date: \_\_\_\_\_ Signature: \_\_\_\_\_



Please Reply To:

**AmeriSci Richmond**  
13635 GENITO ROAD  
MIDLOTHIAN, VIRGINIA 23112  
TEL: (804) 763-1200 • FAX: (804) 763-1800

**FACSIMILE TELECOPY TRANSMISSION**

**To:** Kim Dingledine  
Dominion Due Diligence Group  
**Fax #:**  
**Email:** k.dingledine@d3g.biz, hazmat@d3g.biz

**From:** J. Samuel Baird  
**AmeriSci Job #:** 116061829  
**Subject:** PLM 3 day Results  
**Client Project:** White River Apartments -  
#2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Buildin

**Date:** Tuesday, June 21, 2016  
**Time:** 10:40:24

**Number of Pages:** 10  
(including cover sheet)

**Comments:**

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## PLM Bulk Asbestos Report

Dominion Due Diligence Group  
Attn: Kim Dingleline  
4121 Cox Road  
Suite 200  
Glen Allen, VA 23060

**Date Received** 06/16/16    **AmeriSci Job #** 116061829  
**Date Examined** 06/20/16    **P.O. #**  
**Page** 1 of 8  
**RE:** White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 7

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
7-01-01 Location: Texture Ceiling; Throughout Building  Analyst Description: White, Heterogeneous, Non-Fibrous, Textured Ceiling Asbestos Types: Other Material: Non-fibrous 100 %	116061829-01	No	NAD (by CVES) by J. Samuel Baird on 06/20/16
7-01-02 Location: Texture Ceiling; Throughout Building  Analyst Description: White, Heterogeneous, Non-Fibrous, Textured Ceiling Asbestos Types: Other Material: Non-fibrous 100 %	116061829-02	No	NAD (by CVES) by J. Samuel Baird on 06/20/16
7-01-03 Location: Texture Ceiling; Throughout Building  Analyst Description: White, Heterogeneous, Non-Fibrous, Textured Ceiling Asbestos Types: Other Material: Non-fibrous 100 %	116061829-03	No	NAD (by CVES) by J. Samuel Baird on 06/20/16
7-01-04 Location: Texture Ceiling; Throughout Building  Analyst Description: White, Heterogeneous, Non-Fibrous, Textured Ceiling Asbestos Types: Other Material: Non-fibrous 100 %	116061829-04	No	NAD (by CVES) by J. Samuel Baird on 06/20/16
7-01-05 Location: Texture Ceiling; Throughout Building  Analyst Description: White, Heterogeneous, Non-Fibrous, Textured Ceiling Asbestos Types: Other Material: Non-fibrous 100 %	116061829-05	No	NAD (by CVES) by J. Samuel Baird on 06/20/16

Client Name: Dominion Due Diligence Group

**PLM Bulk Asbestos Report**White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 7

<b>Client No. / HGA</b>	<b>Lab No.</b>	<b>Asbestos Present</b>	<b>Total % Asbestos</b>
7-01-06 <b>Location:</b> Texture Ceiling; Throughout Building	116061829-06	<b>No</b>	<b>NAD</b> (by CVES) by J. Samuel Baird on 06/20/16
<b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Textured Ceiling <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %			
7-01-07 <b>Location:</b> Texture Ceiling; Throughout Building	116061829-07	<b>No</b>	<b>NAD</b> (by CVES) by J. Samuel Baird on 06/20/16
<b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Textured Ceiling <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %			
7-02-01 <b>Location:</b> Tile Pattern Linoleum; Unit 703, 706	116061829-08	<b>No</b>	<b>NAD</b> (by CVES) by J. Samuel Baird on 06/20/16
<b>Analyst Description:</b> Gray, Heterogeneous, Non-Fibrous, Linoleum <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %			
7-02-02 <b>Location:</b> Tile Pattern Linoleum; Unit 703, 706	116061829-09	<b>No</b>	<b>NAD</b> (by CVES) by J. Samuel Baird on 06/20/16
<b>Analyst Description:</b> Gray, Heterogeneous, Non-Fibrous, Linoleum <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %			
7-03-01 <b>Location:</b> Gray Linoleum; Unit 703	116061829-10	<b>No</b>	<b>NAD</b> (by CVES) by J. Samuel Baird on 06/20/16
<b>Analyst Description:</b> Gray, Heterogeneous, Non-Fibrous, Linoleum <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %			
7-04-01 <b>Location:</b> Green Linoleum; Unit 703	116061829-11	<b>No</b>	<b>NAD</b> (by CVES) by J. Samuel Baird on 06/20/16
<b>Analyst Description:</b> Green, Heterogeneous, Non-Fibrous, Linoleum <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %			

See Reporting notes on last page

Client Name: Dominion Due Diligence Group

**PLM Bulk Asbestos Report**White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 7

<b>Client No. / HGA</b>	<b>Lab No.</b>	<b>Asbestos Present</b>	<b>Total % Asbestos</b>
7-05-01 Location: Yellow Linoleum; Unit 703, 706  Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Linoleum Asbestos Types: Other Material: Cellulose 60 %, Fibrous glass 10 %, Non-fibrous 30 %	116061829-12	No	NAD (by CVES) by J. Samuel Baird on 06/21/16
7-05-02 Location: Yellow Linoleum; Unit 703, 706  Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Linoleum Asbestos Types: Other Material: Non-fibrous 100 %	116061829-13	No	NAD (by CVES) by J. Samuel Baird on 06/21/16
7-06-01 Location: * Gypsum Wallboard And Joint Compound; Unit Throughout Building  Analyst Description: White, Heterogeneous, Non-Fibrous, Wall Board Asbestos Types: Other Material: Cellulose 5 %, Non-fibrous 95 %	116061829-14.1	No	NAD (by CVES) by J. Samuel Baird on 06/21/16
7-06-01 Location: * Gypsum Wallboard And Joint Compound; Unit Throughout Building  Analyst Description: White, Heterogeneous, Non-Fibrous, Joint Compound Asbestos Types: Other Material: Non-fibrous 100 %	116061829-14.2	No	NAD (by CVES) by J. Samuel Baird on 06/21/16
7-06-02 Location: * Gypsum Wallboard And Joint Compound; Unit Throughout Building  Analyst Description: White, Heterogeneous, Non-Fibrous, Wall Board Asbestos Types: Other Material: Cellulose 5 %, Non-fibrous 95 %	116061829-15.1	No	NAD (by CVES) by J. Samuel Baird on 06/21/16
7-06-02 Location: * Gypsum Wallboard And Joint Compound; Unit Throughout Building  Analyst Description: White, Heterogeneous, Non-Fibrous, Joint Compound Asbestos Types: Other Material: Non-fibrous 100 %	116061829-15.2	No	NAD (by CVES) by J. Samuel Baird on 06/21/16



Client Name: Dominion Due Diligence Group

**PLM Bulk Asbestos Report**White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 7

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
7-07-01 Location: Tan 18x18 Floor Tile Peel And Stick; Unit 703  Analyst Description: Tan, Heterogeneous, Non-Fibrous, Floor Tile Asbestos Types: Other Material: Non-fibrous 100 %	116061829-16	No	NAD (by CVES) by J. Samuel Baird on 06/21/16
7-08-01 Location: White Floor Tile Peel And Stick; Unit 704, 708  Analyst Description: White, Heterogeneous, Non-Fibrous, Floor Tile Asbestos Types: Other Material: Non-fibrous 100 %	116061829-17	No	NAD (by CVES) by J. Samuel Baird on 06/21/16
7-08-02 Location: White Floor Tile Peel And Stick; Unit 704, 708  Analyst Description: White, Heterogeneous, Non-Fibrous, Floor Tile Asbestos Types: Other Material: Non-fibrous 100 %	116061829-18	No	NAD (by CVES) by J. Samuel Baird on 06/21/16
7-09-01 Location: Beige Floor Tile And Yellow Adhesive; Unit 704, 708  Analyst Description: Beige, Heterogeneous, Non-Fibrous, Floor Tile Asbestos Types: Other Material: Non-fibrous 100 %	116061829-19L1	No	NAD (by CVES) by J. Samuel Baird on 06/21/16
7-09-01 Location: Beige Floor Tile And Yellow Adhesive; Unit 704, 708  Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Mastic Asbestos Types: Other Material: Non-fibrous 100 %	116061829-19L2	No	NAD (by CVES) by J. Samuel Baird on 06/21/16
7-09-02 Location: Beige Floor Tile And Yellow Adhesive; Unit 704, 708  Analyst Description: Beige, Heterogeneous, Non-Fibrous, Floor Tile Asbestos Types: Other Material: Non-fibrous 100 %	116061829-20L1	No	NAD (by CVES) by J. Samuel Baird on 06/21/16

Client Name: Dominion Due Diligence Group

**PLM Bulk Asbestos Report**White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 7

<b>Client No. / HGA</b>	<b>Lab No.</b>	<b>Asbestos Present</b>	<b>Total % Asbestos</b>
7-09-02	116061829-20L2	<b>No</b>	<b>NAD</b>
<b>Location:</b> Beige Floor Tile And Yellow Adhesive; Unit 704, 708			(by CVES) by J. Samuel Baird on 06/21/16
<b>Analyst Description:</b> Yellow, Heterogeneous, Non-Fibrous, Mastic			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
7-10-01	116061829-21L1	<b>No</b>	<b>NAD</b>
<b>Location:</b> Thin Beige Floor Tile And Yellow Adhesive; Unit 704 (Bottom Layer)			(by CVES) by J. Samuel Baird on 06/21/16
<b>Analyst Description:</b> Beige, Heterogeneous, Non-Fibrous, Floor Tile			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
7-10-01	116061829-21L2	<b>No</b>	<b>NAD</b>
<b>Location:</b> Thin Beige Floor Tile And Yellow Adhesive; Unit 704 (Bottom Layer)			(by CVES) by J. Samuel Baird on 06/21/16
<b>Analyst Description:</b> Yellow, Heterogeneous, Non-Fibrous, Mastic			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
7-11-01	116061829-22	<b>No</b>	<b>NAD</b>
<b>Location:</b> 12x12 Tan Floor Tile Peel And Stick; Unit 704, 706			(by CVES) by J. Samuel Baird on 06/21/16
<b>Analyst Description:</b> Tan, Heterogeneous, Non-Fibrous, Floor Tile			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
7-11-02	116061829-23	<b>No</b>	<b>NAD</b>
<b>Location:</b> 12x12 Tan Floor Tile Peel And Stick; Unit 704, 706			(by CVES) by J. Samuel Baird on 06/21/16
<b>Analyst Description:</b> Tan, Heterogeneous, Non-Fibrous, Floor Tile			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
7-12-01	116061829-24L1	<b>No</b>	<b>NAD</b>
<b>Location:</b> Pink Floor Tile And Adhesive; Unit 704, 706			(by CVES) by J. Samuel Baird on 06/21/16
<b>Analyst Description:</b> Gray, Heterogeneous, Non-Fibrous, Floor Tile			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			

See Reporting notes on last page

Client Name: Dominion Due Diligence Group

**PLM Bulk Asbestos Report**White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 7

<b>Client No. / HGA</b>	<b>Lab No.</b>	<b>Asbestos Present</b>	<b>Total % Asbestos</b>
7-12-01 <b>Location:</b> Pink Floor Tile And Adhesive; Unit 704, 706	116061829-24L2	<b>No</b>	<b>NAD</b> (by CVES) by J. Samuel Baird on 06/21/16
<b>Analyst Description:</b> Clear, Heterogeneous, Non-Fibrous, Mastic <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %			
7-12-02 <b>Location:</b> Pink Floor Tile And Adhesive; Unit 704, 706	116061829-25L1	<b>No</b>	<b>NAD</b> (by CVES) by J. Samuel Baird on 06/21/16
<b>Analyst Description:</b> Pink, Heterogeneous, Non-Fibrous, Floor Tile <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %			
7-12-02 <b>Location:</b> Pink Floor Tile And Adhesive; Unit 704, 706	116061829-25L2	<b>No</b>	<b>NAD</b> (by CVES) by J. Samuel Baird on 06/21/16
<b>Analyst Description:</b> Yellow, Heterogeneous, Non-Fibrous, Mastic <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %			
7-13-01 <b>Location:</b> Off-White Floor Tile With Black Back And Yellow Adhesive; Unit 702, 704	116061829-26L1	<b>No</b>	<b>NAD</b> (by CVES) by J. Samuel Baird on 06/21/16
<b>Analyst Description:</b> Off White, Heterogeneous, Non-Fibrous, Floor Tile <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %			
7-13-01 <b>Location:</b> Off-White Floor Tile With Black Back And Yellow Adhesive; Unit 702, 704	116061829-26L2	<b>No</b>	<b>NAD</b> (by CVES) by J. Samuel Baird on 06/21/16
<b>Analyst Description:</b> Transparent Yellow, Heterogeneous, Non-Fibrous, Mastic <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %			
7-13-02 <b>Location:</b> Off-White Floor Tile With Black Back And Yellow Adhesive; Unit 702, 704	116061829-27L1	<b>No</b>	<b>NAD</b> (by CVES) by J. Samuel Baird on 06/21/16
<b>Analyst Description:</b> Off White, Heterogeneous, Non-Fibrous, Floor Tile <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %			

See Reporting notes on last page

Client Name: Dominion Due Diligence Group

**PLM Bulk Asbestos Report**White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 7

<b>Client No. / HGA</b>	<b>Lab No.</b>	<b>Asbestos Present</b>	<b>Total % Asbestos</b>
7-13-02	116061829-27L2	<b>No</b>	<b>NAD</b>
<b>Location:</b> Off-White Floor Tile With Black Back And Yellow Adhesive; Unit 702, 704			(by CVES) by J. Samuel Baird on 06/21/16
<b>Analyst Description:</b> Transparent Yellow, Heterogeneous, Non-Fibrous, Mastic			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
7-14-01	116061829-28L1	<b>No</b>	<b>NAD</b>
<b>Location:</b> Thin Off-White Floor Tile And Black Adhesive; Unit 702			(by CVES) by J. Samuel Baird on 06/21/16
<b>Analyst Description:</b> Beige/White, Heterogeneous, Non-Fibrous, Floor Tile			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
7-14-01	116061829-28L2	<b>No</b>	<b>NAD</b>
<b>Location:</b> Thin Off-White Floor Tile And Black Adhesive; Unit 702			(by CVES) by J. Samuel Baird on 06/21/16
<b>Analyst Description:</b> Black, Heterogeneous, Non-Fibrous, Mastic			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
7-15-01	116061829-29L1	<b>No</b>	<b>NAD</b>
<b>Location:</b> Off-White Floor Tile And Brown Adhesive; Unit 707			(by CVES) by J. Samuel Baird on 06/21/16
<b>Analyst Description:</b> Beige/White, Heterogeneous, Non-Fibrous, Floor Tile			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
7-15-01	116061829-29L2	<b>No</b>	<b>NAD</b>
<b>Location:</b> Off-White Floor Tile And Brown Adhesive; Unit 707			(by CVES) by J. Samuel Baird on 06/21/16
<b>Analyst Description:</b> Tan, Heterogeneous, Non-Fibrous, Mastic			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			

Client Name: Dominion Due Diligence Group

# PLM Bulk Asbestos Report

White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 7

### Reporting Notes:

Analyzed by: J. Samuel Baird

Date

*6/21/16*

\*NAD = no asbestos detected, Detection Limit < 1%, Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; "Present" or NVA = "No Visible Asbestos" are observations made during a qualitative analysis; NA = not analyzed; NA/PS = not analyzed / positive stop; PLM Bulk Asbestos Analysis by EPA 600/R-93/116 per 40 CFR 763 (NVLAP Lab Code 101904-0) and ELAP PLM Analysis Protocol 198.1 for New York friable samples which includes quantitation of any vermiculite observed (198.6 for NOB samples) or EPA 400 pt ct by EPA 600/M4-82-020 (NYSDOH ELAP Lab # 10984); CA ELAP Lab # 2508; Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested.

Reviewed By: *JSB*

116061829

**Asbestos Inspection Chain of Custody**

<b>Project</b>	White River Apartments – #2016-1014	<b>Date</b>	6-14-16
<b>Address</b>	2900 Marion Drive, Diaz, Arkansas	<b>TAT</b>	3-day
<b>Client</b>	Dominion Due Diligence Group (804) 358-2020 4121 Cox Road, Suite 200, Glen Allen, Virginia 23060	<b>Method</b>	PLM

**Building 7**

Sample Number	Type	Material Description	Material Location
7-01-01 7-01-02 7-01-03 7-01-04 7-01-05 7-01-06 7-01-07	S	Texture Ceiling	Throughout Building
7-02-01 7-02-02	M	Tile Pattern Linoleum	Unit 703, 706
7-03-01	M	Gray Linoleum	Unit 703
7-04-01	M	Green Linoleum	Unit 703
7-05-01 7-05-02	M	Yellow Linoleum	Unit 703, 706
7-06-01 7-06-02	M	* Gypsum Wallboard and Joint Compound	Throughout Building
7-07-01	M	Tan 18x18 Floor Tile Peel and Stick	Unit 703
7-08-01 7-08-02	M	White Floor Tile Peel and Stick	Unit 704, 708
7-09-01 7-09-02	M	Beige Floor Tile and Yellow Adhesive	Unit 704, 708
7-10-01	M	Thin Beige Floor Tile and Yellow Adhesive	Unit 704 (Bottom Layer)
7-11-01 7-11-02	M	12x12 Tan Floor Tile Peel and Stick	Unit 704, 706
7-12-01 7-12-02	M	Pink Floor Tile and Adhesive	Unit 704, 706
7-13-01 7-13-02	M	Off-White Floor Tile with Black Backing and Yellow Adhesive	Unit 702, 704
7-14-01	M	Thin Off-White Floor Tile and Black Adhesive	Unit 702
7-15-01	M	Off-White Floor Tile and Brown Adhesive	Unit 707

\* Composite analysis of wallboard and joint compound requested if joint compound contains asbestos.

Material Type: M – Miscellaneous, S – Surfacing, TSI – Thermal System Insulation

RECEIVED

JUN 16 2016

By *[Signature]*

Submitted by: Philip Zabel Date: 6-15-16 Signature: *[Signature]*

Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Signature: \_\_\_\_\_



Please Reply To:

**AmeriSci Richmond**

13635 GENITO ROAD  
MIDLOTHIAN, VIRGINIA 23112  
TEL: (804) 763-1200 • FAX: (804) 763-1800

**FACSIMILE TELECOPY TRANSMISSION**

**To:** Kim Dingledine  
Dominion Due Diligence Group  
**Fax #:**  
**Email:** k.dingledine@d3g.biz,hazmat@d3g.biz

**From:** David W. Ralbovsky  
**AmeriSci Job #:** 116061830  
**Subject:** PLM 3 day Results  
**Client Project:** White River Apartments -  
#2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Buildin

**Date:** Monday, June 20, 2016

**Time:** 09:06:32

**Comments:**

**Number of Pages:** 8

(including cover sheet)

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**PLM Bulk Asbestos Report**

Dominion Due Diligence Group  
Attn: Kim Dingledine  
4121 Cox Road  
Suite 200  
Glen Allen, VA 23060

**Date Received** 06/16/16    **AmeriSci Job #** 116061830  
**Date Examined** 06/20/16    **P.O. #**  
**Page** 1 of 6  
**RE: White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 8**

<b>Client No. / HGA</b>	<b>Lab No.</b>	<b>Asbestos Present</b>	<b>Total % Asbestos</b>
8-01-01 <b>Location:</b> Texture Ceiling; Throughout Building  <b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Bulk Material <b>Asbestos Types:</b> <b>Other Material:</b> Cellulose Trace, Non-fibrous 100 %	116061830-01	<b>No</b>	<b>NAD</b> (by CVES) by David W. Ralbovsky on 06/20/16
8-01-02 <b>Location:</b> Texture Ceiling; Throughout Building  <b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Bulk Material <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %	116061830-02	<b>No</b>	<b>NAD</b> (by CVES) by David W. Ralbovsky on 06/20/16
8-01-03 <b>Location:</b> Texture Ceiling; Throughout Building  <b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Bulk Material <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %	116061830-03	<b>No</b>	<b>NAD</b> (by CVES) by David W. Ralbovsky on 06/20/16
8-01-04 <b>Location:</b> Texture Ceiling; Throughout Building  <b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Bulk Material <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %	116061830-04	<b>No</b>	<b>NAD</b> (by CVES) by David W. Ralbovsky on 06/20/16
8-01-05 <b>Location:</b> Texture Ceiling; Throughout Building  <b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Bulk Material <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %	116061830-05	<b>No</b>	<b>NAD</b> (by CVES) by David W. Ralbovsky on 06/20/16



Client Name: Dominion Due Diligence Group

**PLM Bulk Asbestos Report**White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 8

<b>Client No. / HGA</b>	<b>Lab No.</b>	<b>Asbestos Present</b>	<b>Total % Asbestos</b>
8-01-06 <b>Location:</b> Texture Ceiling; Throughout Building  <b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Bulk Material <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %	116061830-06	<b>No</b>	<b>NAD</b> (by CVES) by David W. Ralbovsky on 06/20/16
8-01-07 <b>Location:</b> Texture Ceiling; Throughout Building  <b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Bulk Material <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %	116061830-07	<b>No</b>	<b>NAD</b> (by CVES) by David W. Ralbovsky on 06/20/16
8-02-01 <b>Location:</b> Texture Painted Walls; Throughout Building  <b>Analyst Description:</b> Beige, Heterogeneous, Fibrous, Bulk Material <b>Asbestos Types:</b> <b>Other Material:</b> Cellulose 5 %, Non-fibrous 95 %	116061830-08	<b>No</b>	<b>NAD</b> (by CVES) by David W. Ralbovsky on 06/20/16
8-02-02 <b>Location:</b> Texture Painted Walls; Throughout Building  <b>Analyst Description:</b> Beige, Heterogeneous, Non-Fibrous, Bulk Material <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %	116061830-09	<b>No</b>	<b>NAD</b> (by CVES) by David W. Ralbovsky on 06/20/16
8-02-03 <b>Location:</b> Texture Painted Walls; Throughout Building  <b>Analyst Description:</b> Beige, Heterogeneous, Non-Fibrous, Bulk Material <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %	116061830-10	<b>No</b>	<b>NAD</b> (by CVES) by David W. Ralbovsky on 06/20/16
8-02-04 <b>Location:</b> Texture Painted Walls; Throughout Building  <b>Analyst Description:</b> Beige, Heterogeneous, Non-Fibrous, Bulk Material <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %	116061830-11	<b>No</b>	<b>NAD</b> (by CVES) by David W. Ralbovsky on 06/20/16

Client Name: Dominion Due Diligence Group

**PLM Bulk Asbestos Report**White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 8

<b>Client No. / HGA</b>	<b>Lab No.</b>	<b>Asbestos Present</b>	<b>Total % Asbestos</b>
8-02-05	116061830-12	<b>No</b>	<b>NAD</b>
<b>Location:</b> Texture Painted Walls; Throughout Building			(by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Beige, Heterogeneous, Non-Fibrous, Bulk Material			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
8-02-06	116061830-13	<b>No</b>	<b>NAD</b>
<b>Location:</b> Texture Painted Walls; Throughout Building			(by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Beige, Heterogeneous, Non-Fibrous, Bulk Material			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
8-02-07	116061830-14	<b>No</b>	<b>NAD</b>
<b>Location:</b> Texture Painted Walls; Throughout Building			(by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Beige, Heterogeneous, Non-Fibrous, Bulk Material			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
8-03-01	116061830-15.1	<b>No</b>	<b>NAD</b>
<b>Location:</b> * Gypsum Wallboard And Joint Compound; Throughout Building			(by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Brown/White, Heterogeneous, Fibrous, Wall Board			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Cellulose 5 %, Fibrous glass Trace, Non-fibrous 95 %			
8-03-01	116061830-15.2	<b>No</b>	<b>NAD</b>
<b>Location:</b> * Gypsum Wallboard And Joint Compound; Throughout Building			(by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Joint Compound			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
8-03-02	116061830-16.1	<b>No</b>	<b>NAD</b>
<b>Location:</b> * Gypsum Wallboard And Joint Compound; Throughout Building			(by CVES) by David W. Ralbovsky on 06/20/16
<b>Analyst Description:</b> Brown/Pink, Heterogeneous, Fibrous, Wall Board			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Cellulose 5 %, Non-fibrous 95 %			

Client Name: Dominion Due Diligence Group

**PLM Bulk Asbestos Report**White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 8

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
8-03-02	116061830-16.2	No	NAD
Location: * Gypsum Wallboard And Joint Compound; Throughout Building			(by CVES) by David W. Ralbovsky on 06/20/16
Analyst Description: White, Heterogeneous, Non-Fibrous, Joint Compound			
Asbestos Types:			
Other Material: Cellulose Trace, Non-fibrous 100 %			
8-04-01	116061830-17L1	No	NAD
Location: 12x12 White Floor Tile And Brown Adhesvie; Unit 802, 803, 804, 806			(by CVES) by David W. Ralbovsky on 06/20/16
Analyst Description: White, Heterogeneous, Non-Fibrous, Floor Tile			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
8-04-01	116061830-17L2	No	NAD
Location: 12x12 White Floor Tile And Brown Adhesvie; Unit 802, 803, 804, 806			(by CVES) by David W. Ralbovsky on 06/20/16
Analyst Description: Tan/Yellow, Heterogeneous, Non-Fibrous, Adhesive			
Asbestos Types:			
Other Material: Cellulose Trace, Non-fibrous 100 %			
8-04-02	116061830-18L1	No	NAD
Location: 12x12 White Floor Tile And Brown Adhesvie; Unit 802, 803, 804, 806			(by CVES) by David W. Ralbovsky on 06/20/16
Analyst Description: White, Heterogeneous, Non-Fibrous, Floor Tile			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
8-04-02	116061830-18L2	No	NAD
Location: 12x12 White Floor Tile And Brown Adhesvie; Unit 802, 803, 804, 806			(by CVES) by David W. Ralbovsky on 06/20/16
Analyst Description: Tan/Yellow, Heterogeneous, Non-Fibrous, Adhesive			
Asbestos Types:			
Other Material: Cellulose Trace, Non-fibrous 100 %			
8-05-01	116061830-19L1	No	NAD
Location: 12x12 Light Brown Floor Tile; Unit 801, 802, 803, 804, 805, 806, 807, 808			(by CVES) by David W. Ralbovsky on 06/20/16
Analyst Description: Lt. Brown, Heterogeneous, Non-Fibrous, Floor Tile			
Asbestos Types:			
Other Material: Non-fibrous 100 %			

See Reporting notes on last page

Client Name: Dominion Due Diligence Group

# PLM Bulk Asbestos Report

White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 8

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
8-05-01	116061830-19L2	No	NAD
<p><b>Location:</b> 12x12 Light Brown Floor Tile; Unit 801, 802, 803, 804, 805, 806, 807, 808</p> <p><b>Analyst Description:</b> Tan/Yellow, Heterogeneous, Non-Fibrous, Adhesive</p> <p><b>Asbestos Types:</b></p> <p><b>Other Material:</b> Non-fibrous 100 %</p>			<p>(by CVES) by David W. Ralbovsky on 06/20/16</p>
8-05-02	116061830-20L1	No	NAD
<p><b>Location:</b> 12x12 Light Brown Floor Tile; Unit 801, 802, 803, 804, 805, 806, 807, 808</p> <p><b>Analyst Description:</b> Lt. Brown, Heterogeneous, Non-Fibrous, Floor Tile</p> <p><b>Asbestos Types:</b></p> <p><b>Other Material:</b> Non-fibrous 100 %</p>			<p>(by CVES) by David W. Ralbovsky on 06/20/16</p>
8-05-02	116061830-20L2	No	NAD
<p><b>Location:</b> 12x12 Light Brown Floor Tile; Unit 801, 802, 803, 804, 805, 806, 807, 808</p> <p><b>Analyst Description:</b> Tan/Yellow, Heterogeneous, Non-Fibrous, Adhesive</p> <p><b>Asbestos Types:</b></p> <p><b>Other Material:</b> Non-fibrous 100 %</p>			<p>(by CVES) by David W. Ralbovsky on 06/20/16</p>
8-06-01	116061830-21L1	No	NAD
<p><b>Location:</b> White Floor Tile And Brown Adhesive; Unit 801</p> <p><b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Floor Tile</p> <p><b>Asbestos Types:</b></p> <p><b>Other Material:</b> Non-fibrous 100 %</p>			<p>(by CVES) by David W. Ralbovsky on 06/20/16</p>
8-06-01	116061830-21L2	No	NAD
<p><b>Location:</b> White Floor Tile And Brown Adhesive; Unit 801</p> <p><b>Analyst Description:</b> Tan/Yellow, Heterogeneous, Non-Fibrous, Adhesive</p> <p><b>Asbestos Types:</b></p> <p><b>Other Material:</b> Non-fibrous 100 %</p>			<p>(by CVES) by David W. Ralbovsky on 06/20/16</p>
8-07-01	116061830-22	No	NAD
<p><b>Location:</b> 12x12 Gray Floor Tile And Brown Adhesive; Unit 806</p> <p><b>Analyst Description:</b> Grey, Heterogeneous, Non-Fibrous, Floor Tile</p> <p><b>Asbestos Types:</b></p> <p><b>Other Material:</b> Non-fibrous 100 %</p> <p><b>Comment:</b> Insufficient adhesive for analysis.</p>			<p>(by CVES) by David W. Ralbovsky on 06/20/16</p>

Client Name: Dominion Due Diligence Group

# PLM Bulk Asbestos Report

White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Building 8

---

**Reporting Notes:**

Analyzed by: David W. Ralbovsky David W. Ralbovsky Date 6/20/16  
\*NAD = no asbestos detected, Detection Limit <1%, Reporting Limits: CVES = 1%, 100 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; "Present" or NVA = "No Visible Asbestos" are observations made during a qualitative analysis; NA = not analyzed; NA/PS = not analyzed / positive stop; PLM Bulk Asbestos Analysis by EPA 600/R-93/116 per 40 CFR 763 (NVLAP Lab Code 101904-0) and ELAP PLM Analysis Protocol 198.1 for New York friable samples which includes quantitation of any vermiculite observed (198.6 for NOB samples) or EPA 400 pt ct by EPA 600/M4-82-020 (NYSDOH ELAP Lab # 10984); CA ELAP Lab # 2508; Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested.

Reviewed By: David W. Ralbovsky

## Asbestos Inspection Chain of Custody

<b>Project</b>	White River Apartments – #2016-1014	<b>Date</b>	6-14-16
<b>Address</b>	2900 Marion Drive, Diaz, Arkansas	<b>TAT</b>	3-day
<b>Client</b>	Dominion Due Diligence Group (804) 358-2020 4121 Cox Road, Suite 200, Glen Allen, Virginia 23060	<b>Method</b>	PLM

## Building 8

Sample Number	Type	Material Description	Material Location
8-01-01 8-01-02 8-01-03 8-01-04 8-01-05 8-01-06 8-01-07	S	Texture Ceiling	Throughout Building
8-02-01 8-02-02 8-02-03 8-02-04 8-02-05 8-02-06 8-02-07	S	Texture Painted Walls	Throughout Building
8-03-01 8-03-02	M	* Gypsum Wallboard and Joint Compound	Throughout Building
8-04-01 8-04-02	M	12x12 White Floor Tile and Brown Adhesive	Unit 802, 803, 804, 806
8-05-01 8-05-02	M	12x12 Light Brown Floor Tile and Brown Adhesive	Unit 801, 802, 803, 804, 805, 806, 807, 808
8-06-01	M	White Floor Tile and Brown Adhesive	Unit 801
8-07-01	M	12x12 Gray Floor Tile and Brown Adhesive	Unit 806


\* Composite analysis of wallboard and joint compound requested if joint compound contains asbestos.

Material Type: M – Miscellaneous, S – Surfacing, TSI – Thermal System Insulation

RECEIVED

JUN 16 2016

By 

Submitted by: Philip Zabel Date: 6-15-16 Signature: 

Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Signature: \_\_\_\_\_



Please Reply To:

**AmeriSci Richmond**

13635 GENITO ROAD  
MIDLOTHIAN, VIRGINIA 23112  
TEL: (804) 763-1200 • FAX: (804) 763-1800

**FACSIMILE TELECOPY TRANSMISSION**

<b>To:</b> Kim Dingledine Dominion Due Diligence Group	<b>From:</b> Donna M. Blackwell
<b>Fax #:</b>	<b>AmeriSci Job #:</b> 116061831
<b>Email:</b> k.dingledine@d3g.biz,hazmat@d3g.biz	<b>Subject:</b> PLM 3 day Results
	<b>Client Project:</b> White River Apartments - #2016-1014; 2900 Marion Drive, Diaz, Arkansas; Shop/La

**Date:** Sunday, June 19, 2016

**Time:** 19:36:08

**Comments:**

**Number of Pages:** 5

(including cover sheet)

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MIDLOTHIAN, VIRGINIA 23112  
TEL: (804) 763-1200 • FAX: (804) 763-1800

## PLM Bulk Asbestos Report

Dominion Due Diligence Group  
Attn: Kim Dingledine  
4121 Cox Road  
Suite 200  
Glen Allen, VA 23060

**Date Received** 06/16/16    **AmeriSci Job #** 116061831  
**Date Examined** 06/19/16    **P.O. #**  
**Page** 1 of 3  
**RE:** White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Shop/Laundry Building

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
SH-01-01 <b>Location:</b> Insulation Backing; Shop Walls And Ceiling	116061831-01	No	NAD (by CVES) by Donna M. Blackwell on 06/19/16
<b>Analyst Description:</b> Black/Brown, Homogeneous, Fibrous, Bulk Material			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Cellulose 50 %, Fibrous glass 12 %, Non-fibrous 38 %			
SH-01-02 <b>Location:</b> Insulation Backing; Shop Walls And Ceiling	116061831-02	No	NAD (by CVES) by Donna M. Blackwell on 06/19/16
<b>Analyst Description:</b> Black/Brown, Heterogeneous, Fibrous, Bulk Material			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Cellulose 50 %, Fibrous glass 12 %, Non-fibrous 38 %			
L-01-01 <b>Location:</b> Texture Paint; Laundry Room Walls	116061831-03	No	NAD (by CVES) by Donna M. Blackwell on 06/19/16
<b>Analyst Description:</b> White, Homogeneous, Non-Fibrous, Bulk Material			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
L-01-02 <b>Location:</b> Texture Paint; Laundry Room Walls	116061831-04	No	NAD (by CVES) by Donna M. Blackwell on 06/19/16
<b>Analyst Description:</b> White, Homogeneous, Non-Fibrous, Bulk Material			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
L-01-03 <b>Location:</b> Texture Paint; Laundry Room Walls	116061831-05	No	NAD (by CVES) by Donna M. Blackwell on 06/19/16
<b>Analyst Description:</b> White, Heterogeneous, Non-Fibrous, Bulk Material			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			



Client Name: Dominion Due Diligence Group

**PLM Bulk Asbestos Report**White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Shop/Laundry Building

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
L-02-01	116061831-06.1	No	NAD (by CVES) by Donna M. Blackwell on 06/19/16
<b>Location:</b> *Gypsum Wallboard And Joint Compound; Laundry Room Walls  <b>Analyst Description:</b> Pink/Brown, Heterogeneous, Fibrous, Wall Board <b>Asbestos Types:</b> <b>Other Material:</b> Cellulose 12 %, Non-fibrous 88 %			
L-02-01	116061831-06.2	No	NAD (by CVES) by Donna M. Blackwell on 06/19/16
<b>Location:</b> *Gypsum Wallboard And Joint Compound; Laundry Room Walls  <b>Analyst Description:</b> White, Homogeneous, Non-Fibrous, Joint Compound <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %			
L-02-02	116061831-07.1	No	NAD (by CVES) by Donna M. Blackwell on 06/19/16
<b>Location:</b> *Gypsum Wallboard And Joint Compound; Laundry Room Walls  <b>Analyst Description:</b> Pink/Brown, Heterogeneous, Fibrous, Wall Board <b>Asbestos Types:</b> <b>Other Material:</b> Cellulose 12 %, Non-fibrous 88 %			
L-02-02	116061831-07.2	No	NAD (by CVES) by Donna M. Blackwell on 06/19/16
<b>Location:</b> *Gypsum Wallboard And Joint Compound; Laundry Room Walls  <b>Analyst Description:</b> White, Heterogeneous, Fibrous, Bulk Material <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %			
L-03-01	116061831-08	No	NAD (by CVES) by Donna M. Blackwell on 06/19/16
<b>Location:</b> Ceramic Tile Grout; Laundry Room Floor  <b>Analyst Description:</b> Gray, Homogeneous, Non-Fibrous, Cementitious, Bulk Material <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %			
L-03-02	116061831-09	No	NAD (by CVES) by Donna M. Blackwell on 06/19/16
<b>Location:</b> Ceramic Tile Grout; Laundry Room Floor  <b>Analyst Description:</b> Gray, Homogeneous, Non-Fibrous, Cementitious, Bulk Material <b>Asbestos Types:</b> <b>Other Material:</b> Non-fibrous 100 %			

Client Name: Dominion Due Diligence Group

# PLM Bulk Asbestos Report

White River Apartments - #2016-1014; 2900 Marion Drive,  
Diaz, Arkansas; Shop/Laundry Building

---

**Reporting Notes:**

Analyzed by: Donna M. Blackwell

*Donna M. Blackwell* Date 6/19/16

\*NAD = no asbestos detected, Detection Limit <1%, Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; "Present" or NVA = "No Visible Asbestos" are observations made during a qualitative analysis; NA = not analyzed; NA/PS = not analyzed / positive stop; PLM Bulk Asbestos Analysis by EPA 600/R-93/116 per 40 CFR 763 (NVLAP Lab Code 101904-0) and ELAP PLM Analysis Protocol 198.1 for New York friable samples which includes quantitation of any vermiculite observed (198.6 for NOB samples) or EPA 400 pt ct by EPA 600/M4-82-020 (NYSDOH ELAP Lab # 10984); CA ELAP Lab # 2508; Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested.

Reviewed By: *DMB*

**Asbestos Inspection Chain of Custody**

**116061831**

<b>Project</b>	White River Apartments – #2016-1014	<b>Date</b>	6-14-16
<b>Address</b>	2900 Marion Drive, Diaz, Arkansas	<b>TAT</b>	3-day
<b>Client</b>	Dominion Due Diligence Group (804) 358-2020 4121 Cox Road, Suite 200, Glen Allen, Virginia 23060	<b>Method</b>	PLM

Shop/Laundry Building

SH-01-01 SH-01-02	M	Insulation Backing	Shop Walls and Ceiling
L-01-01 L-01-02 L-01-03	S	Texture Paint	Laundry Room Walls
L-02-01 L-02-02	M	* Gypsum Wallboard and Joint Compound	Laundry Room Walls
L-03-01 L-03-02	M	Ceramic Tile Grout	Laundry Room Floor

\* Composite analysis of wallboard and joint compound requested if joint compound contains asbestos.

Material Type: M – Miscellaneous, S – Surfacing, TSI – Thermal System Insulation

RECEIVED

JUN 16 2016

By AW

Submitted by: Philip Zabel Date: 6-15-16 Signature: Philip Zabel

Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Signature: \_\_\_\_\_

## **C. ASBESTOS LICENSES**

# Arkansas Department of Environmental Quality

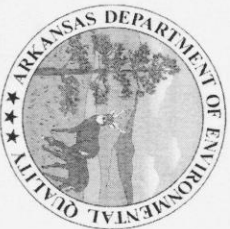
**010876 PHILIP ZABEL**

*having satisfied the requirements necessary to meet the provisions of AHERA/ASHARA under TSCA Title II and the Arkansas Pollution Control and Ecology Commission's Regulation 21 and is hereby certified in the State of Arkansas in the discipline(s) of Asbestos*

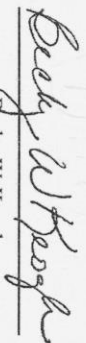
**Air Monitor 1/31/2017**

**Inspector 1/31/2017**

**Project Designer 4/30/2017**



Issue Date: 25-Apr-2016

  
Geokly W. Keogh  
ADEQ Director

Arkansas Department of Environmental Quality

IMPACT ENVIRONMENTAL, INC.

is a licensed  
Asbestos Abatement Consultant

having qualified as required by law in accordance with the regulations adopted by the Arkansas Pollution Control and Ecology Commission's Regulation 21 pursuant to Arkansas Code Annotated §20-27-1001 et seq., relative to abatement of asbestos-containing material within the state of Arkansas.



License Number: 000423

Issue Date: 2016 January 19

Expire Date: 2017 January 19

*Becky W. Keogh*  
Becky W. Keogh  
ADEQ Director

**APPENDIX 'D'**  
**RADON REPORT**



Radon  
Assessment Report

Project location:  
**White River**  
**2900 Marion Drive**  
**Diaz, AR**

Prepared by:  
**Kyle Hoylman**  
**Protect Environmental**

Report Date:  
**July 1, 2016**



Prepared by:

Kyle Hoylman  
Protect Environmental  
9822 Bluegrass Parkway  
Louisville, KY 40299  
Phone: 502-410-5000  
Email: Kyle@ProtectEnv.com

Preparation Date: July 1, 2016

This report was developed specifically for the radon assessment conducted at White River, 2900 Marion Drive, Diaz, AR. This assessment was conducted in accordance with the American National Standards Institute (ANSI) document *Protocol for Conducting Radon and Radon Decay Product Measurements in Multifamily Buildings (ANSI/AARST MAMF-2012)* by Stephen Berger, a radon measurement professional credentialed by the National Radon Proficiency Program (NRPP).



---

Kyle Hoylman  
Project Manager  
NRPP Measurement Certification #104371RT

## Contents

- 1.0 Introduction and Summary
- 2.0 Scope of Work
- 3.0 Measurement Protocol and Quality Assurance
- 4.0 Measurement Devices
- 5.0 Measurement Conditions
- 6.0 Findings and Recommendations

## Appendices

- 1.0 Appendix A: Analytical Laboratory Report
- 2.0 Appendix B: Device Placement Log
- 3.0 Appendix C: Credential Documentation
- 4.0 Appendix D: EPA Radon Zone Map
- 5.0 Appendix E: Notification Documentation

## Section 1.0 – Introduction and Summary

Protect Environmental was engaged to conduct a radon assessment of the multifamily property located at White River, 2900 Marion Drive, Diaz, AR. The assessment was requested as part of a due diligence project being conducted by the client. The property is located within an EPA Zone 3 county, which indicates a low potential for radon.

The assessment was conducted between June 22, 2016 and June 24, 2016. A total of 17 measurement devices deployed in 16 residential units and 1 non-residential area were included in the measurement and quality assurance project plan. For quality assurance purposes, 2 duplicate measurement devices and 1 field blank measurement device were deployed. All devices were sent under appropriate chain of custody to a qualified analytical laboratory for analysis.

Based upon the analytical lab results, none of the residential units or the non-residential area contain radon concentrations above the EPA action level of  $\geq 4.0$  pCi/L. One device deployed in 1 residential unit was invalid. One device deployed in 1 residential unit for QA purposes was invalid. The overall quality assurance plan for the project was determined to be within normal tolerances. Additional action is not recommended.

As part of a long-term monitoring plan, a follow up assessment is recommended every 5 years, or whenever significant changes to a building's structure or HVAC system occurs, to verify radon concentrations remain below the action level.

## Section 2.0 – Scope of Work

The assessment included the following scope of work components:

1. Conducting an initial planning meeting with the client to review the project scope, information necessary to build the measurement and quality assurance project plan, required conditions and on-site logistics.
2. Preparing and implementing a measurement and quality assurance project plan for the assessment in accordance with the required measurement protocol.

3. Placing and retrieving the measurement devices, preparation of chain of custody documentation and shipping of the devices to a qualified analytical laboratory for analysis, and interpretation of the analytical laboratory data.
4. Providing the client with a written report of the assessment findings and recommendations.

### **Section 3.0 – Measurement Protocol and Quality Assurance**

The assessment was conducted in accordance with the American National Standards Institute (ANSI) document *Protocol for Conducting Radon and Radon Decay Product Measurements in Multifamily Buildings (ANSI/AARST MAMF-2012)* by Stephen Berger, a radon measurement professional credentialed by the National Radon Proficiency Program (NRPP). Quality assurance measures included deployment of a minimum of 10% duplicate devices and 5% field blank devices, and spiking of a minimum of 3% of the device batch utilized for the assessment.

### **Section 4.0 – Measurement Devices**

Activated charcoal adsorption measurement devices manufactured and analyzed by Air Chek, Inc. were utilized for the assessment. All devices were forwarded under appropriate chain of custody for analysis by Air Chek, an analytical laboratory credentialed by the NRPP (#101138). Each device was deployed in accordance with the instructions provided by the manufacturer.

### **Section 5.0 – Measurement Conditions**

Compliance with the measurement conditions and non-interference controls contained within the measurement protocol was verified by the field professional placing and retrieving the measurement devices. At the time of the assessment, violations of the required measurement conditions or evidence of device tampering were not observed by the field professional, unless noted within this report. Modifications to the measurement and quality assurance project plan were not made by the field professional, unless noted within this report.

### **Section 6.0 – Findings and Recommendations**

The sole purpose of this assessment is to provide the client with information regarding the radon concentrations at the property at the time of the assessment. An uncertainty with any

test result due to statistical variations and other factors, such as daily and seasonal variations in radon concentrations, does exist. Variations may occur due to changes in weather conditions, building usage or possible unobserved interference with the required measurement conditions. The findings and recommendations contained within this report are derived from information obtained from the client and property management, the on-site activities and analytical services provided under the scope of work performed. This assessment report was prepared solely for the use of the client. Use of this report by any party other than the client is prohibited without prior written consent from Protect Environmental.

The assessment was conducted between June 22, 2016 and June 24, 2016. A total of 17 measurement devices deployed in 16 residential units and 1 non-residential area were included in the measurement and quality assurance project plan. For quality assurance purposes, 2 duplicate measurement devices and 1 field blank measurement device were deployed. All devices were sent under appropriate chain of custody to a qualified analytical laboratory for analysis.

Based upon the analytical lab results, none of the residential units or the non-residential area contain radon concentrations above the EPA action level of  $\geq 4.0$  pCi/L. One device deployed in 1 residential unit was invalid. One device deployed in 1 residential unit for QA purposes was invalid. The overall quality assurance plan for the project was determined to be within normal tolerances. Additional action is not recommended.

As part of a long-term monitoring plan, a follow up assessment is recommended every 5 years, or whenever significant changes to a building's structure or HVAC system occurs, to verify radon concentrations remain below the action level.

## Appendix A

### Analytical Laboratory Report

**P5179 / KYLE HOYLMAN / PROTECT ENVIRONMENTAL**

Kit Number	Start Date	Start Time	End Date	End Time	Temp.	Facility	Building	Room	Project ID	Floor	Result
7744519	2016-06-22	11:00 am	2016-06-24	12:00 pm	70	WHITE RIVER APARTMENTS	BUILDING 8	806		2	<0.3
7744520	2016-06-22	11:00 am	2016-06-24	12:00 pm	70	WHITE RIVER APARTMENTS	BUILDING 6	602		1	<0.3
7744521	2016-06-22	11:00 am	2016-06-24	1:00 pm	70	WHITE RIVER APARTMENTS	BUILDING 6	606		2	<0.3
7744522	2016-06-22	11:00 am	2016-06-24	12:00 pm	70	WHITE RIVER APARTMENTS	BUILDING 2	207		2	<0.3
7744523	2016-06-22	11:00 am	2016-06-24	1:00 pm	70	WHITE RIVER APARTMENTS	BUILDING 3	303		1	<0.3
7744524	2016-06-22	11:00 am	2016-06-24	1:00 pm	70	WHITE RIVER APARTMENTS	BUILDING 3	305		2	<0.3
7744527	2016-06-22	11:00 am	2016-06-24	12:00 pm	70	WHITE RIVER APARTMENTS	BUILDING 8	804		1	<0.3
7744530	2016-06-22	11:00 am	2016-06-24	12:00 pm	70	WHITE RIVER APARTMENTS	BUILDING 4	403		1	<0.3
7744532	2016-06-22	11:00 am	2016-06-24	12:00 pm	70	WHITE RIVER APARTMENTS	BUILDING 4	405		2	<0.3
7744534	2016-06-22	10:00 am	2016-06-24	12:00 pm	70	WHITE RIVER APARTMENTS	BUILDING 7	708		2	0.5
7744535	2016-06-22	10:00 am	2016-06-24	12:00 pm	70	WHITE RIVER APARTMENTS	BUILDING 7	708		2	<0.3
7744543	2016-06-22	11:00 am	2016-06-24	12:00 pm	70	WHITE RIVER APARTMENTS	BUILDING 6	602		1	<0.3
7744544	2016-06-22	10:00 am	2016-06-24	12:00 pm	70	WHITE RIVER APARTMENTS	BUILDING 7	OFFICE		1	0.6
7744545	2016-06-22	11:00 am	2016-06-24	12:00 pm	70	WHITE RIVER APARTMENTS	BUILDING 5	507		2	<0.3
7744546	2016-06-22	11:00 am	2016-06-24	12:00 pm	70	WHITE RIVER APARTMENTS	BUILDING 5	501		1	<0.3
7744547	2016-06-22	11:00 am	2016-06-24	12:00 pm	70	WHITE RIVER APARTMENTS	BUILDING 1	105		2	<0.3
7744548	2016-06-22	11:00 am	2016-06-24	12:00 pm	70	WHITE RIVER APARTMENTS	BUILDING 1	104		1	1.4
7744549	2016-06-22	11:00 am	2016-06-24	12:00 pm	70	WHITE RIVER APARTMENTS	BUILDING 2	201		1	0.7
7744561	2016-06-22	10:00 am	2016-06-24	12:00 pm	70	WHITE RIVER APARTMENTS	BUILDING 7	701		1	0.6
7744564	2016-06-22	10:00 am	2016-06-24	12:00 pm	70	WHITE RIVER APARTMENTS	BUILDING 7	701		1	0.6

## Appendix B

### Device Placement Log



## Device Placement Log

Facility:		White River Apartments		RES Devices:		16		Placement Arrival:		10:00 AM	
Address:		2900 Marion Drive, Diaz, AR 72112		NR Devices:		1		Placement Departure:		11:00 AM	
Contact:		Property Manager: 870-523-3744		Duplicate Devices:		2		Retrieval Arrival:		12:00 PM	
Placement Day/Type/Pro:		6/22/2016 ST Berger, Stephen		Blank Devices:		1		Retrieval Departure:		12:30 PM	
Retrieval Day/Type/Pro:		6/24/2016 ST Berger, Stephen		Total Devices:		20		Ship Info:		20 6/24/2016	
Kit Number	Start Date	Start Time	End Date	End Time	Temp	Building	Room	Floor	Notes		
7744544	6/22/2016	10:00 AM	6/24/2016	12:00 PM	70	Building 7	Office	1			
7744561	6/22/2016	10:00 AM	6/24/2016	12:00 PM	70	Building 7	701	1	0.6 pCi/L AVG = 0.6 pCi/L		
7744564	6/22/2016	10:00 AM	6/24/2016	12:00 PM	70	Building 7	701 DUPLICATE	1	0.6 pCi/L RPD = NA		
7744534	6/22/2016	10:00 AM	6/24/2016	12:00 PM	70	Building 7	708	2	CBC: window		
7744535	6/22/2016	10:00 AM	6/24/2016	12:00 PM	70	Building 7	708 DUPLICATE	2	CBC: window		
7744520	6/22/2016	11:00 AM	6/24/2016	12:00 PM	70	Building 6	602	1			
7744543	6/22/2016	11:00 AM	6/24/2016	12:00 PM	70	Building 6	602 FIELD BLANK	1	< 0.3 pCi/L		
7744521	6/22/2016	11:00 AM	6/24/2016	1:00 PM	70	Building 6	606	2			
7744523	6/22/2016	11:00 AM	6/24/2016	1:00 PM	70	Building 3	303	1			
7744524	6/22/2016	11:00 AM	6/24/2016	1:00 PM	70	Building 3	305	2			

Device Placement Log

7744549	6/22/2016	11:00 AM	6/24/2016	12:00 PM	70	Building 2	201	1	
7744522	6/22/2016	11:00 AM	6/24/2016	12:00 PM	70	Building 2	207	2	
7744548	6/22/2016	11:00 AM	6/24/2016	12:00 PM	70	Building 1	104	1	
7744547	6/22/2016	11:00 AM	6/24/2016	12:00 PM	70	Building 1	105	2	
7744530	6/22/2016	11:00 AM	6/24/2016	12:00 PM	70	Building 4	403	1	
7744532	6/22/2016	11:00 AM	6/24/2016	12:00 PM	70	Building 4	405	2	
7744546	6/22/2016	11:00 AM	6/24/2016	12:00 PM	70	Building 5	501	1	
7744545	6/22/2016	11:00 AM	6/24/2016	12:00 PM	70	Building 5	507	2	
7744527	6/22/2016	11:00 AM	6/24/2016	12:00 PM	70	Building 8	804	1	
7744519	6/22/2016	11:00 AM	6/24/2016	12:00 PM	70	Building 8	806	2	

## Appendix C

### Credential Documentation



**AARST Professional Member ID 2364**  
NRPP Measurement ID: RT-104371 valid thru 2017-08-31  
NRPP Mitigation ID: RMT-104372 valid thru 2017-08-31



**Kyle Hoylman**

Protect Environmental  
Louisville, KY 40299-1906

[kyle@protectenvironmental.com](mailto:kyle@protectenvironmental.com)

(502) 410-5000  
Fax: (502) 410-4990

<http://www.protectenvironmental.com>

This individual is AARST-NRPP certified to provide Analytical Services  
using the following device(s):

Sun Nuclear 1023/1026/1027 At Ease Digital Data Logger



**AARST Associate Member ID 4803**

NRPP Measurement ID: RT-107650 valid thru 2016-06-30

NRPP Mitigation ID: RMT-108562 valid thru 2018-03-31



**Stephen Berger**

Protect Environmental  
Atlanta, GA 30360-3197

[stephenb@protectenv.com](mailto:stephenb@protectenv.com)

(404) 944-3553

<http://www.protectenvironmental.com>

## Appendix D

### EPA Radon Zone Map

# ARKANSAS - EPA Map of Radon Zones

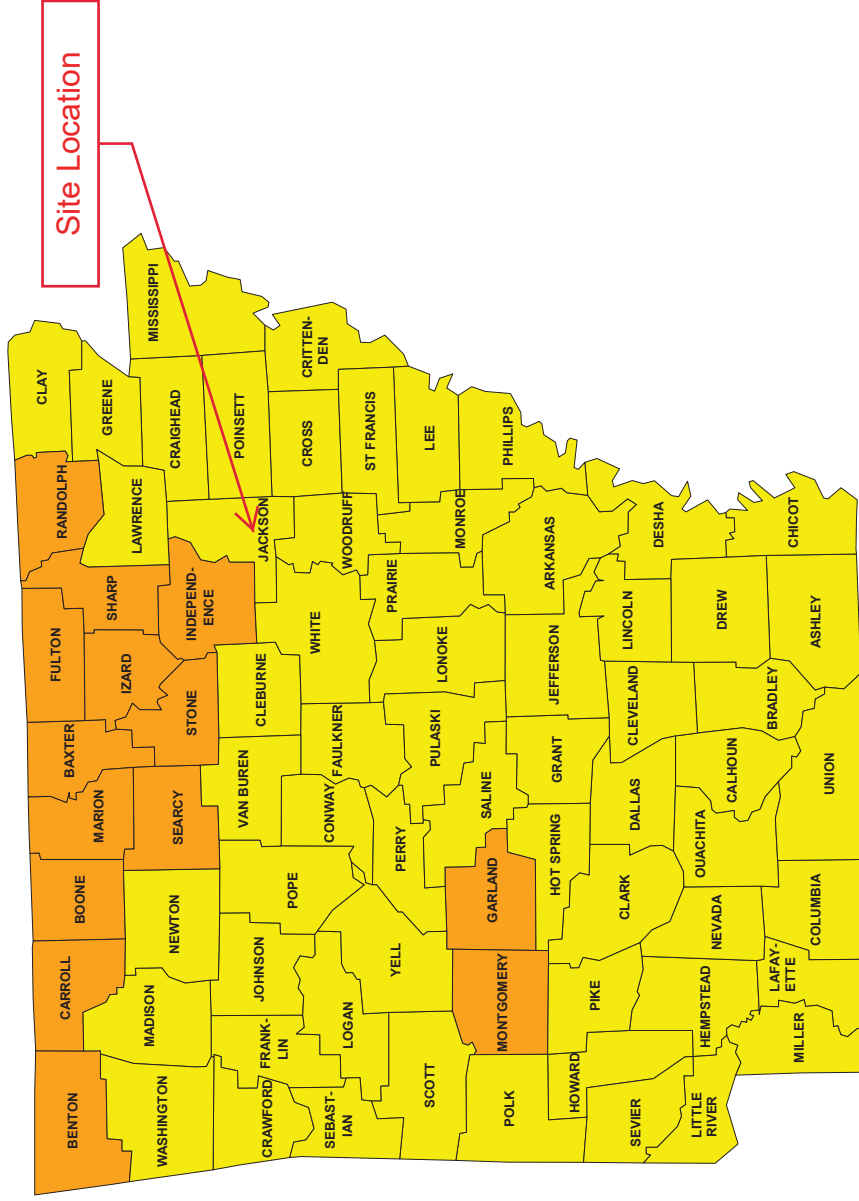
<http://www.epa.gov/radon/zonemap.html>

The purpose of this map is to assist National, State and local organizations to target their resources and to implement radon-resistant building codes.

This map is not intended to determine if a home in a given zone should be tested for radon.

Homes with elevated levels of radon have been found in all three zones.

**All homes should be tested, regardless of zone designation.**



**IMPORTANT:** Consult the publication entitled "Preliminary Geologic Radon Potential Assessment of Arkansas" (USGS Open-file Report 93-292-F) before using this map. <http://energy.cr.usgs.gov/radon/grpinfo.html> This document contains information on radon potential variations within counties. EPA also recommends that this map be supplemented with any available local data in order to further understand and predict the radon potential of a specific area.

## Appendix E

### Notification Documentation





### Radon Measurement – Resident Notification (ST)

We will be conducting a radon assessment in your community. Your residence may be selected for placement of a measurement device. Access to your residence for purposes of placing and retrieving the measurement device may be necessary on the following dates:

Device Placement: **Wednesday, June 22, 2016**

Device Retrieval: **Friday, June 24, 2016**

During the measurement period, regardless of whether or not a measurement device is placed in your residence, you are required to maintain the following conditions to ensure a valid measurement:

- All windows must be kept closed. All exterior doors must be kept closed, except for normal entry and exit. **Windows and doors must be kept closed for a period of 12 hours prior to the device placement date and remain closed effect until the devices are retrieved.**
- Whole house fans must not be operated. Window air conditioning units may only be operated in recirculation mode. Portable window fans must be removed from the window or sealed in place.
- Fireplaces or combustion appliances, other than water heaters and cooking appliances, must not be operated unless they are your primary heat source.
- Ceiling fans, portable air filters, portable de-humidifiers, portable humidifiers or window air conditioning units operating in recirculation mode must not be operated within 20' of the measurement device.
- If a device is placed in your unit, the measurement device must not be touched, tampered with, covered, removed or altered, and the location of the device must not be changed. Your HVAC system must be operated in the normal range – your thermostat should not be adjusted drastically and your fan should be set in normal mode.

The technician placing and retrieving the devices is required to report any failure to maintain closed-building conditions. Failure to maintain these conditions could result in an invalid measurement and require the measurement to be repeated.

Your assistance in helping to ensure a valid measurement is greatly appreciated! Contact your management office with questions regarding this notification.

Thank you.



## Radon Measurement – Responsible Party Notification (ST)

Date: June 14, 2016

Measurement Location: White River Apartments 2900 Marion Drive, Diaz, AR

Measurement Period: 6/22/2016 through 6/24/2016

During the measurement period, the following conditions must be maintained in each residence (regardless of whether or not the unit contains a measurement device) and all common areas in the building to ensure a valid measurement:

- All windows must be kept closed. All exterior doors must be kept closed, except for normal entry and exit. **Windows and doors must be kept closed for a minimum period of 12 hours prior to device placement and remain closed until device retrieval.**
- Whole house fans must not be operated. Window air conditioning units may only be operated in recirculation mode. Portable window fans must be removed from the window or sealed in place.
- Fireplaces or combustion appliances, other than water heaters and cooking appliances, must not be operated unless they are the primary heat source.
- Ceiling fans, portable air filters, portable de-humidifiers, portable humidifiers or window air conditioning units operating in recirculation mode must not be operated within 20' measurement devices.
- The measurement device must not be touched, tampered with, covered, removed or altered, and the location of the device must not be changed. HVAC systems must be operated in the normal range – thermostats should not be adjusted drastically and air handlers should be set in normal mode.
- Unusual occurrences that could affect the measurement, such as power outages or extreme weather conditions, must be reported to Protect Environmental.

The technician placing and retrieving the devices is required to report any failure to maintain measurement conditions. Failure to maintain measurement conditions may result in an invalid measurement and require the measurement to be repeated.

As the responsible party for the measurement location listed above, I hereby acknowledge receipt of this Measurement Conditions Notification and agree to make reasonable efforts to ensure the conditions outlined herein are maintained throughout the measurement period.

Site contact did not sign: Lisa Lopp, PM

Responsible Party

**APPENDIX 'F'**

**MOLD AND ROACH FECES PROTOCOL**



## LWH PROCEDURE FOR MOLD REMEDIATION

**First:** When you and your staff notice a water leak or excessive moisture issue, the water leak or source of moisture must be repaired.

**Second:** If there is evidence of damage to a ceiling, wall, floor, or floor covering, the damage must be repaired.

### Remediation Protocol:

- Repair the lea or source of moisture or leak.
- If the water damage is to sheet rock and the sheet rock is solid, apply fungicide to the sheet rock, wipe clean, and apply second coating of fungicide and let it soak into the sheet rock. This kills any mold that might be growing in or on the sheet rock. When the sheet rock dries, apply Kilz to the sheet rock, let it dry, and apply touch-up paint.
- If the water damage is to sheet rock and the sheet rock is soft, crumbling, etc., cut out the bad sheet rock (at least 6 to 12 inches beyond the damaged area, bag removed sheet rock wastes in a plastic bag, seal, and remove to dumpster), spray fungicide in area behind the sheet rock, replace with new sheet rock, finish the surface, and paint to match the room. **Note:** Use a fungicide to kill mold and remove mold from impacted substrates; follow up with non-chlorine disinfectant or fungicide to clean and penetrate the porous surfaces; never mix chlorine bleach and cleaning solutions that contain ammonia because this mixture can produce toxic vapors and create a work hazard. Many fungicides contain quaternary ammonium.
- If the water damage is to floor vinyl or tile is wet apply fungicide and wipe clean. If the floor is wood, apply additional fungicide after cleaning wood surface and allow it to penetrate the wood until thoroughly dry. Repair vinyl or tile.
- If the water damage is to carpet, clean the carpet with carpet cleaning machine using water and fungicide (or contract to a reputable cleaning service). If the wood floor beneath is wet, apply fungicide and wipe clean, then apply fungicide to work and allow it to penetrate the wood and thoroughly dry. **Note:** Use a fungicide to kill mold and remove mold from impacted substrates; follow up with non-chlorine disinfectant or fungicide to clean and penetrate the porous surfaces; never mix chlorine bleach and cleaning solutions that

contain ammonia because this mixture can produce toxic vapors and create a work hazard. Many fungicides contain quaternary ammonium.

- Be sure that the carpet, pad, and floor are dry before assuming the job is finished. Every LWH property should have at least one floor fan for the purpose of drying out wet carpet or floors. An industrial dehumidifier will also aid in drying the carpet, pad, and floor more thoroughly. Let it run at least 24 hours.
- A water leak will not be considered repaired until the resulting damage is repaired as well.

## ROACH FECES REMOVAL PROTOCOL

### ***Background***

During renovation of multifamily apartments, visual evidence of roach feces or egg casings is apparent when kitchen are being demolished when cabinets, counter tops, refrigerators, sinks, and stoves are being removed. The roach feces and/or egg casings are reddish brown to black in color, small cylindrical pellets the size of a coffee ground (small cockroaches) or grain of rice (large cockroaches). They are common on drywall behind the kitchen cabinets and countertops. This condition is compounded if both mold and roach feces are identified on drywall behind the counters.

Roach bodies, feces, and egg casings can cause allergic reactions in humans (e.g., asthma). In addition, they carry bacteria which can trigger harmful diseases (e.g., salmonella, E. coli). Therefore, it is important to remove or isolate these from human contact when possible.

### ***Protocol***

The contractor for LHP Development must be knowledgeable about the about roach feces and be able to determine if roach feces are present in a unit being renovated. LHP Development contractor will inspect the apartments being renovated for the presence of mold and roach feces. If roach feces are present, the contractor will contact the maintenance staff of the LHP facility so that staff members can inspect the unit for roach feces and take the appropriate corrective action to remove the roach feces.

**If both mold and roach feces/egg casings are identified on the drywall, it is imperative to remove the roach feces/egg cases first before remediating the mold.**

The following steps must be conducted to remove roach feces before mold remediation and before placing the new cabinets in place. Use appropriate personal protective equipment, such as vinyl or neoprene gloves, dust mask).

1 - **Do not wet.** Use a shop vacuum with a HEPA filter to remove the feces from the walls and floors. Start high and work down the wall and then the floor. Vacuum the cracks and crevices in these areas, because this is an ideal hiding locating for roaches. If necessary, use a dry brush or cloth to remove the feces from the walls and floor. This will remove most of the roach feces/egg casings.

2 - Clean the surfaces with baking soda and soapy water to remove the remaining feces residue. Wipe with clean wet cloth or sponge to remove the proteins in the feces/egg casings that cause allergies from the drywall surface. Use clean water and change it often. Dispose of the waste cleaning water appropriately.

3-After the drywall dries, spray disinfectant cleaner on the affected wall and floor. This helps remove allergens left by roaches.

Then proceed with mold remediation.

After the cleaning and mold remediation, any remnants of feces/egg casings can be sprayed with Kilns to encapsulate the remnants to keep them isolated and not in contact with residents. Caulk must be used along seams after the installation of cabinets, counter tops, back splash, and caulk to enclose any remnant feces/egg casings.

These last two approaches will isolate the residual roach feces/egg casings. These need to be done well to ensure isolation.

## **SECTION 03 11 00 - CONCRETE FORMWORK**

### **PART 1 – GENERAL**

#### **1.1 RELATED SECTIONS**

- A. Section 03 20 00 – Concrete Reinforcement.
- B. Section 03 30 00 – Cast-in-Place Concrete.

#### **1.2 WORK INSTALLED BUT FURNISHED BY OTHERS**

- A. Build in anchors, inserts, bolts, hangers, sleeves, ferrules, waterstops and other accessories.

#### **1.3 DESIGN REQUIREMENTS**

- A. Design, construct and erect formwork per ACI 347R, Guide to Formwork for Concrete.

#### **1.4 ALLOWABLE TOLERANCES**

- A. In accordance with ACI-301 as listed in Table 4.3.1-Tolerances for Formed Surfaces.

### **PART 2 – PRODUCTS**

#### **2.1 MATERIALS**

- A. Concealed concrete: No. 2 Common Southern Pine, S4S, or better.
- B. Exposed Concrete: B-B Plyform, Class I or II, EXT-APA, Metal or Fiberglass forms may be used.
- C. Construction joint forms for slabs-on-grade: Key-type steel formers, Vulcan Screed Joints, Burke Keyed Kold Joint Form, Dayton Sure-Grip G-20.
- D. Expansion joint filler: Asphalt impregnated, premolded fiberboard by full thickness of slab or joint, ASTM D994.
- E. Form-coating: Non-staining mineral oil.
- F. Form ties: Snap-off type which will break off at least ½” below surface of concrete. For sanitary structures, the form ties shall be of surface leaving an opening no larger than the tie diameter, without cones. Wall ties for structures containing or to retain liquids shall have integral water stops.

#### **2.2 EARTH FORMS**

- A. Where soil is firm enough to permit cutting to true size, concrete may be placed without forms.

### **PART 3 – EXECUTION**

#### **3.1 ERECTING**

- A. Erect forms to obtain shapes, designs and dimensions indicated. Make forms sufficiently tight to prevent leakage. Brace, shore and tie forms together to maintain position without sagging or bulging.

## **CONCRETE FORMWORK**



- B. Provide  $\frac{3}{4}$ " chamfering at corners (exposed or unexposed).
- C. Prepare insides of forms so that concrete will have a smooth, uniform finish, free from fins, stone pockets, voids and other surface defects.
- D. For slabs-on-grade, provide construction joint forms where concrete placement terminates at the end of a day or because of other reasons.
- E. For structural members, provide bulkheads, with reinforcing steel penetrating bulkheads, where concrete placement stops at the end of day or for other reasons.
- F. Where soil conditions are such that concrete cannot be placed without forms, and where other conditions cause trenches to be opened wider than footing or slab widths, erect forms for footing or slabs.

### 3.2 PREPARING

- A. Prepare insides of forms so that concrete will have a smooth, uniform finish free of surface defects.
- B. Coat forms before reinforcement steel is placed. Where mill-oiled forming material is used, follow manufacturer's instructions for recoating. Where forming material is not mill-oiled, coat forms before each use.
- C. Before reusing forms, thoroughly clean them and remove projecting nails or similar devices.

### 3.3 FORM REMOVAL

- A. Remove forms in such a manner and such time as to insure safety of structure and to avoid chipping and spalling of concrete. Refer to Section 6.2 of ACI 318, Section 6.2 of the Commentary to ACI 318, and Section 3.7 of ACI 347R for form removal requirements.

END OF SECTION

## **SECTION 03 20 00 - CONCRETE REINFORCEMENT**

### **PART 1 – GENERAL**

#### **1.1 RELATED SECTIONS**

- A. Section 03 10 00 – Concrete Formwork.
- B. Section 03 30 00 – Cast-in-Place Concrete.

### **PART 2 – PRODUCTS**

#### **2.1 REINFORCEMENT STEEL**

- A. ASTM A615, Grade 60.

#### **2.2 REINFORCEMENT WIRE**

- A. Welded steel wire fabric, ASTM A185.

#### **2.3 BAR SUPPORTS**

- A. Bar supports and spacing of same shall be as per recommendations set forth by Chapter 3 of the CRSI Manual of Standard Practice, Current Edition.

#### **2.4 OTHER SUPPORTS**

- A. Concrete brick may be used to support reinforcement to obtain proper clearance from earth and rigidity of reinforcement under concreting operations.

#### **2.5 TIE WIRE**

- A. Wire shall be 16-1/2 gauge or heavier, black-annealed.

#### **2.6 FABRICATING**

- A. In accordance with CRSI Manual of Standard Practice, Current Edition.

### **PART 3 – EXECUTION**

#### **3.1 CONDITION OF SURFACES**

- A. Maintain reinforcement surfaces free of mud, oil or other coatings which might impair bond as described in Section 7.4 of ACI 318. Rust or mill scale is acceptable provided the minimum dimensions are not less than applicable ASTM Standards. Loose rust scale to be removed with wire brush.

#### **3.2 INSTALLING REINFORCING STEEL**

- A. Handle, place and tie reinforcement steel in accordance with “Building Code Requirements for Reinforced Concrete,” ACI 318-95 and CRSI publication “Placing Reinforcing Bars,” Current Edition.

### 3.3 INSTALLING WELDED WIRE FABRIC

- A. For Slabs-on-Grade:
  - 1. Install welded wire fabric after vapor barrier (or under floor waterproofing, if applicable) has been placed.
  - 2. Locate welded wire fabric in center third of slabs.
- B. For Slabs on Composite Deck:
  - 1. Locate welded wire fabric at mid-depth of slab measured between top of slab and top of metal form.
- C. Lap side one full mesh plus 2 inches. Lap end two full meshes. Offset end laps in adjacent width to prevent continuous laps.

### 3.4 CONCRETE PROTECTION FOR REINFORCEMENT

- A. Protect reinforcing by thickness of concrete indicated on Contract Drawings.
- B. Variation from clear cover shall conform to section 7.5 of ACI 318.

END OF SECTION

## **SECTION 0330 00 - CAST-IN-PLACE CONCRETE**

### **PART 1 – GENERAL**

#### **1.1 RELATED SECTIONS**

- A. Section 0311 00 – Concrete Formwork.
- B. Section 0320 00 – Concrete Reinforcement.

### **PART 2 – PRODUCTS**

#### **2.1 READYMIX CONCRETE**

- A. In accord with ASTM C94, option A and the criteria given in these specifications and on the Structural Drawings.
- B. Strength at 28 days: As specified on the Structural Drawings.
- C. Air Content: Provide entrained air in accordance with ACI 302-1R, Table 5.2.7a within tolerances specified. Concrete subject to freezing and thawing and/or deicers shall be categorized as “severe exposure,” except concrete with a specified strength of 6000 psi shall be categorized as “moderate exposure.” All other concrete shall be categorized as “moderate exposure.”
- D. Water-Cement Ratio: All concrete exposed to freezing and thawing shall have a maximum water-cement ratio of 0.50. All concrete subjected to deicers and/or \* required to be watertight shall have a maximum water-cement ratio of 0.45 (4500 psi or more at 28 days.) All reinforced concrete subjected to brackish water, salt spray or deicers shall have a maximum water/cement ratio of 0.40 (5000 psi or more at 28 days).
- E. Slump: All concrete containing the high-range water-reducing admixture (superplasticizer) shall have a maximum slump of 9” unless otherwise approved by the Architect. The concrete shall arrive at the job site at a slump of 2” to 3”, which shall be verified, then the high-range water-reducing admixture added to increase the slump to the approved level. All other concrete shall have a maximum slump of 3 inches for slabs and 4 inches for other concrete.
- F. Maximum water soluble chloride ion concentrations in hardened concrete at an age of 28 days contributed from the ingredients including water, aggregates, cementitious materials and admixtures shall not exceed the limits established in Table 4.3.1 of ACI 318.
- G. Admixtures: All concrete shall contain the specified water-reducing admixture or high range water-reducing admixture (superplasticizer). At the Contractor’s option, both water-reducing admixtures may be included in the concrete mix. All concrete slabs placed at air temperatures below 50 degrees Fahrenheit shall contain the specified Non-Chloride, Non-Corrosive accelerator. All concrete required to be air entrained shall contain the approved air entraining admixture. All pumped concrete, architectural concrete, and concrete with a water-cement ratio below 0.50 shall contain the specified high range water reducing admixture (superplasticizer).

#### **2.7 VAPOR RETARDER**

- A. 10 mil polyethylene sheeting conforming to ASTM E154.

## PART 3 – EXECUTION

### 3.1 FIELD QUALITY CONTROL

- A. As concrete is delivered, the Testing Laboratory will make cylinders as specified in this specification. In addition, the Testing Laboratory will take small batches of the same concrete used for making cylinders for making slump tests and air entrainment tests. Assist the Laboratory in taking samples and furnish concrete required for making the test.
- B. The Testing Laboratory shall observe baseplate grouting and curing procedures.

### 3.2 PLACING CONCRETE

- A. Prepare place of deposit and equipment. Convey and place concrete in accordance with ACI 301, Chapter 8, Paragraphs 8.1 through 8.3. Certain parts of those paragraphs are modified below, and where modifications conflict with those paragraphs or additional instructions they should take precedence over the printed paragraphs of ACI 301.
- B. Variation from clear cover and depth of members shall conform to section 7.5 of ACI 318.
- C. Deposit concrete within 1-1/2 hours after water is added to dry batching, or use retarding admixture.
- D. Convey concrete promptly to point of use in manner which will prevent separation of ingredients and loss of water. Deposit concrete near its final position to avoid rehandling.
- E. Consolidate concrete, including floor slabs, in accordance with ACI 309R, “Recommended Practice for Consolidation of Concrete”. All concrete shall be vibrated. Maintain at least one vibrator as a stand-by. Lower frequency vibrators may be used with “flowing” concrete.
- F. Do not use vibrators to cause concrete to flow.

### 3.3 FINISHING

- A. After placing concrete, screed to levels and slopes indicated. Do not use tamping tools to force aggregate away from surface.
- B. When the water sheen has disappeared, use a wood float as indicated.
- C. Where troweled finish is required, the surface shall initially receive a float finish. The surface shall then be troweled, at least twice, to a smooth dense finish. Remove small imperfections left by troweling machine and bring to a smooth, dense, polished finish.
- D. Broomed finish (at all ramps). The surface shall be given a coarse transverse scored texture by drawing a broom or burlap belt across the surface. This operation shall follow immediately after floating. Texture shall be as approved by the Architect from sample panels.
- E. Do not use dry materials, such as sand and cement, on surfaces during finishing.
- F. Do not use any procedures, such as the addition of water to the concrete surface, that produces a layer of weak material with an increased water-cement ratio at the slab surface.
- G. Grinding or the specified underlayment or repair topping shall be used where surfaces do not achieve their specified tolerances.

## CAST-IN-PLACE CONCRETE

- H. Where floors are to be covered with thin set tile, trowel as specified above and then broom surfaces to form a “tooth”.

#### 3.4 CURING

- A. As finished work is completed, begin curing. Curing may be accomplished by either of the methods described below, except for items specifically designated for a particular method.
- B. Waterproof paper or plastic film curing: Cover damp surfaces with film or paper and lap at edges at least 4 inches. Apply weights to prevent displacement. Repair tears and punctures as they occur.
- C. All exposed interior slabs and troweled slabs receiving mastic applied adhesives or metallic or mineral aggregate hardeners shall be cured with curing and sealing compounds compatible with the adhesives or hardeners. Exterior slabs, sidewalks, curbs, architectural concrete and any concrete where total resistance to yellowing from ultra-violet light and water exposure is required shall be cured with the specified clear, non-yellowing curing and sealing compound. Use waterproof paper or plastic film where any topping or applied material is not compatible with curing and sealing compounds.
- D. Do not use curing and sealing compounds on surfaces receiving applied finishes other than resilient tile or carpet.
- E. Where forms are left in place, keep forms damp by spraying at frequent intervals for at least 8 days. Do not allow forms to dry out.

#### 3.5 PROTECTION

- A. Protect concrete for at least 48 hours after finishing is complete. Erect barriers as necessary to protect uncured areas. Provide wood covers to protect uncured areas. Provide wood covers to protect concrete step-ups.
- B. Protect concrete from paint and other stains, and from abrasive traffic.

END OF SECTION

## **SECTION 05 12 00 - STRUCTURAL STEEL**

### **PART 1 - GENERAL**

#### **1.01 RELATED SECTIONS**

- A. Grouting under base and bearing plates: Section 03 30 00 - Cast-in-Place Concrete.

#### **1.02 PRODUCTS FURNISHED BUT NOT INSTALLED UNDER THIS SECTION**

- A. Anchor rods and setting templates:
  - 1. Section 03 30 00 - Cast-in-Place Concrete.
  - 2. Section 03 11 00 - Concrete Formwork.

#### **1.03 SCOPE**

This is a Performance specification. Work under this section includes, but is not limited to, a complete resolution of the geometry of the Structural Steel members and their joints, connection design and detailing when not fully detailed on the contract documents, producing shop drawings which accurately reflect the geometry of the members and joints, fabricating and erecting of the structural steel to achieve a finished structural frame. The fabricator and erector shall include in their bid the expense of making any field corrections required to achieve a workable structure.

#### **1.04 SUBMITTALS**

- A. Steel fabricator and erector to supply a list of five previous projects similar in size and complexity to this project to establish that they are capable to perform the work for this project. List shall include the name and location of each project with the name and phone number of the Contractor and Architect for which the previous projects were performed. Architect may reject any steel fabricator or erector that, in his opinion, fails to appear capable of performing the required work. Steel fabricator shall be approved by the Architect prior to the production of shop drawings.
- B. Shop drawings prepared by the fabricator. Connections not detailed on the design drawings shall be designed by the fabricator. Structural design drawings are for design intent only. It is the responsibility of the fabricator to ensure that the shop drawings reflect all necessary information required for fabrication and erection. Reproduction of structural design drawings for the shop drawing submittal will not be permitted nor will they be reviewed.
- C. Prequalified welding procedures, prepared by the steel fabricator and erector, as a written procedure specification to Engineer. Prepare these procedures in accordance with Appendix E of the AWS "Structural Welding Code," AWS D1.1. Obtain Architect's approval before erecting steel.
- D. Submit mill certification that steel supplied meets requirements of specifications.
- E. Submit electrode manufacturer's certification that the electrode and flux combination the requirements of the particular classification or grade of electrodes.
- F. Submit the number of copies required by Division 01 of each report from the Testing Laboratory to the Architect. See Field Quality Control section this specification for inspections and test required of the Testing Laboratory.

- G. Submittals shall include the following note completed and signed by the Contractor: The data submitted does not contain material deviation from requirements of contract documents except as follows:

#### 1.05 QUALITY ASSURANCE

- A. Structural steel: Meet requirements of the AISC Steel Construction Manual, Fourteenth Edition, Allowable Stress Design for types of steel specified.
- B. Fabrication and erection: Meet requirements of Specification for Structural Steel Buildings, June 22, 2010, and all subsequent modifications or addendums (referred to below as Structural Steel for Buildings) as indicated.
- C. Welding: In accordance with requirements of American Welding Society "Structural Welding Code," AWS D1.1.
- D. Testing Agency - Personnel performing tests and inspection will be certified by American Society for Non-Destructive Testing, for Level II.
- E. Included in the responsibilities for structural steel testing and inspection are the following:
  - 1. Observe the AWS qualifications of all welders.
  - 2. Visually inspect all bolted connections and test a representative sampling of a minimum of 10% of the high strength bolts for proper installation and tensioning.
  - 3. Verify that electrodes are compatible with the base metals joined.
  - 4. Ultrasonically test all complete penetration welds and visually inspect all fillet welds.
  - 5. Visually verify size, spacing, location and quantity of welded headed shear studs and test a representative sampling in accordance with AWS recommendations and procedures using the bend test method or approved equal.

#### 1.06 QUALIFICATIONS

- A. Steel fabricator: Certified by American Institute of Steel Construction Fabrication Certification Program, Category STD. If steel fabricator is not so certified, he shall have an Independent Testing Laboratory, approved by Architect, certify that the fabrication procedures used in this Work are fabricated in accordance with these specifications. The purpose of this inspection is to enable the Testing Agency to verify, in general, that the steel is being fabricated in accordance with these specifications. A minimum of one trip per week is recommended.
- B. Welders, tackers, and welding operators: Qualified in accordance with Structural Welding Code - Steel, AWS D1.1 to perform the type of work required.

#### 1.07 PRODUCT HANDLING

- A. Deliver materials, such as anchor rods and other anchor devices to be embedded in concrete and masonry construction, to project site in time to be installed in proper sequence with concrete and masonry work. Provide setting drawings, templates and directions for installation of anchor rods and other devices.



- B. Deliver steel to project site and stack in designated areas.
- C. Stack and store steel above ground on platforms, studs or other supports. Protect steel from corrosion and damage. Keep materials clean.
- D. Store other materials in a weathertight, dry place until ready for use.
- E. Store packaged materials in their original, unbroken package or container.

## PART 2 - PRODUCTS

### 2.01 STRUCTURAL STEEL

- A. ASTM A36, Standard Specification for Structural Steel for plates, channels and angles.
- B. ASTM A992, Standard Specification for Structural Steel Shapes or ASTM A572, Grade 50, High Strength, Low Alloy Columbian-Vanadium Steels of Structural Quality for all other rolled shapes.

### 2.02 STEEL PIPE

- A. ASTM A53, Grade B, Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated Welded and Seamless.

### 2.03 STEEL TUBING

- A. ASTM A500, Grade B, Standard Specification for Cold-Formed Welded and Seamless Carbon Structural Tubing.

### 2.04 WELDING ELECTRODES

- A. Electrodes having low hydrogen covering shall be purchased in hermetically-sealed containers.
- B. For fabricating plant use: E70 electrodes, AWS A5.1, A5.5, A5.17 or A5.20.
- C. For shear studs, in accordance with AWS Structural Welding Code AWS D1.1, Part F. Provide heat-resistant arc shields with studs.

### 2.05 BOLTS

- A. High strength bolts, nuts and washer: Type 1 or 2, ASTM A325, Standard Specification for High-Strength Bolts for Structural Joints, Including Suitable Nuts and Plain Hardened Washers. Provide 3/4" diameter bolts unless noted otherwise or approved by the engineer.
- B. High strength bolts in slip critical connections or in connections where bolts are specified or noted as fully tensioned shall be load-indicator bolts. Provide load-indicator bolts as manufactured by Bethlehem, Le Juene, or approved substitute. Load-indicator bolts shall be installed using equipment specifically manufactured for this use. Load-indicator bolts in tension shall have rounded heads that cannot accept the application of a wrench.
- C. Unfinished bolts: ASTM A307, Standard Specification for Carbon Steel and Externally Threaded Standard Fasteners.

- D. Expansion (wedge) anchors: As specified on Structural Drawings.
- E. Anchor Rods: ASTM F1554, grade 36, unless noted otherwise.

## 2.06 SHOP COATING

- A. A high grade rust-inhibiting primer. Use red oxide primer unless otherwise noted.
- B. Paint shall be VOC compliant, lead and chromate free and shall be compatible with products specified in Division 9 specifications.

## PART 3 - EXECUTION

### 3.01 FABRICATING

- A. Fabricate in accordance with applicable requirements of M2 of "Specification For Structural Steel Buildings" by AISC.
- B. Design all connections, except for those fully detailed on the Structural Drawings.

### 3.02 SHOP COATING

- A. Before steel leaves fabricator's shop, remove loose mill scale, rust, weld slag and flux deposit, dirt, foreign matter and oil and grease. Prepare surface as recommended by paint manufacturer for the intended exposure. Do not sandblast, flame clean, or pickle material.
- B. Thoroughly and evenly apply one coat of shop paint to cleaned surfaces. Thickness of shop paint coat shall be applied to a minimum dry film thickness of 1 mil or as required by surface preparation.
- C. Do not paint steel to be encased in concrete, plaster and sprayed-on-fireproofing. Mask steel at locations to be field welded and at the faying surfaces of slip-critical bolted connections.

### 3.03 ERECTING

- A. Before commencing erecting work, notify Architect in writing at least 48 hours in advance.
- B. Erect steel in accordance with requirements of Section M4 of "Specification For Structural Steel Buildings" by AISC, except paragraph M4.6 is hereby modified to make field painting a part of the work on this section.
- C. Use specified high-strength bolts for bolted connections, except where unfinished bolts and welded connections are allowed below. Use a minimum of 2 bolts at each bolted connection. Use hardened washers under bolt or nut, whichever is the element turned in tightening. Prior to tightening the bolts of a connection to final tension, there shall first be enough bolts brought to a "snug tight" condition to insure that the parts of the joint are brought into good contact with each other.
- D. Bolts in bearing type conditions which are not subject to fatigue or load fluctuations need only to be tightened to a snug-tight condition. Bolts in tension shall be tightened to full tension values. Refer to Drawings for location of bolts required to be fully tightened.
- E. Use unfinished bolts in places indicated.
- F. Install expansion anchors per manufacturer's instructions.

- G. Provide headed stud anchors in quantity and spacing required by the Structural Drawings. Studs shall be arc welded to the steel member using automatically timed stud welding equipment in accordance with AWS D1.1.
- H. Weld connections where indicated. Do not peen welds unless authorized in writing by Architect. Any shop paint on surfaces adjacent to joints to be field welded shall be wire brushed to reduce the paint film to a minimum.
- I. Field painting: For shop coated steel, touch up welds and scarred and damaged shop coat.
- J. Protect all structural steel below grade by encasing in concrete or painting with bitumastic paint.
- K. Do not field cut or alter structural members without approval of Architect/Engineer.

#### 3.04 FIELD QUALITY CONTROL

- A. Shop and field welding will be tested and inspected in accordance with AWS Structural Welding Code. Welds will be visually or ultrasonically tested, depending on types of welded joints. All full or partial penetration welds shall be ultrasonically tested or tested using other non-destructive testing methods approved by the Engineer. All other welds shall be visually inspected by the Testing Laboratory for compliance with the design drawings and shop drawings. If suspect welds are observed during the visual inspection, ultrasonic or other approved non-destructive testing shall be performed to determine the acceptability of such welds. If defects are found, then a random sampling of at least 10 percent of the other welds similar to the defective weld shall be tested by ultrasonic or other approved non-destructive testing methods to evaluate the extent of the defective welds. The Testing Laboratory as directed by the Architect shall perform any additional inspections and testing of welds. Additional testing as a result of non-conformances will be at the expense of the Contractor.
- B. The Testing Laboratory shall inspect and test a minimum representative sampling of 10 percent of all bolted connections. Additional inspections and testing of bolted connections shall be performed by the Testing Laboratory as directed by the Architect. Additional testing as a result of non-conformances will be at the expense of the Contractor.
- C. The steel fabricator shall be fully responsible for insuring that all steel fabrication and erection is in accordance with the Contract Documents. Failure of Architect, Engineer or Testing Laboratory to detect defective work, workmanship, materials, or erection shall in no way prevent rejection of the work and does not release the steel fabricator from his responsibility for providing approved corrective action when such defects are discovered. The Architect/Engineer or the Testing Laboratory shall not, thereby, be obligated to make a final acceptance.
- D. Submit all reports to the Architect in accordance with the requirements of Division 01.

END OF SECTION

## **SECTION 05 31 00 - STEEL DECKING**

### **PART 1 - GENERAL**

#### **1.01 RELATED REQUIREMENTS**

- A. Section 05 12 00 - Structural Steel Framing.

#### **1.02 SUBMITTALS**

- A. Submit steel deck shop drawings prepared by the fabricator.
- B. Metal deck or form supplier shall submit section properties and load tables for the supplied product. This information shall be submitted with deck or form layout shop drawings.
- C. Indicate sizes and location of deck units. Indicate welding and screw patterns.
- D. Indicate sizes and location of holes to be cut in shop.
- E. Submittals shall include the following note completed and signed by the Contractor: The data submitted does not contain material deviation from requirements of contract documents except as follow:

#### **1.04 COORDINATION**

- A. Coordinate with other trades to preclude delays and interferences.

#### **1.05 QUALIFICATIONS**

- A. Welders, tackers, and welding operation: Qualified in accordance with Code for Welding in Building Construction, AWS D1.3-89 to perform type of work required.
- B. Workers performing fastening deck to light gage framing by screws or powder actuated fasteners shall be experienced in this type of work.

#### **1.06 PRODUCT HANDLING**

- A. Deliver materials, in manufacturer's bundles, to project site and store in designated areas.
- B. Store decking above ground on platforms or other supports. Protect from corrosion. Keep materials clean.
- C. Store other materials in a weathertight, dry place until ready for use.

#### **1.07 QUALITY ASSURANCE**

- A. Included in the responsibilities for steel decking inspection are the following:
  - 1. Inspect the welding of metal deck to supports.
  - 2. Inspect deck sidelap fasteners.
  - 3. Observe the AWS qualifications of all welders.

PART 2 - PRODUCTS

2.01 GENERAL

- A. Section properties shall conform to all applicable provisions of the latest edition of the Specification for the Design of Cold-Formed Steel Structural Members as published by the American Iron and Steel Institute.
- B. For painted deck, a phosphatized type cleaner shall be used to remove all grease, oil and other foreign matter to prepare the steel surface for further treatment. A stabilized vinyl wash primer shall then be applied to phosphatize the surface and provide a chemically bonded chromated pigmented vinyl coating. After this initial prime coating has been heat-dried, a light gray flexible, thermosetting, rust inhibiting prime paint shall then be roller applied and cured in a catenary oven at temperatures in excess of 400 degrees Fahrenheit before forming.
- C. Galvanized deck shall be roll-formed from steel sheet (hot dip galvanized) conforming to ASTM Designation A653-95, and ASTM A924-95a or Fed, Spec. QQ-S-775e.
- D. For galvanized and painted deck, the steel shall be galvanized by the hot dip method followed by an organic chromate finish, then further treated with a clear vinyl epoxy preparation. A light gray thermosetting, rust inhibiting prime paint shall then be roller coated and cured in a catenary oven at temperatures in excess of 400 degrees Fahrenheit before forming.
- E. Placement drawings shall be prepared and submitted for approval. The drawings shall show deck type, finish, decimal thickness of steel, the location and length of the sheets, field cutting, the method of fastening and other information as required for a thorough review and installation.
- F. The deck manufacturer shall certify that all materials will be in full compliance with this specification. The Letter of Certification shall accompany the design computations when submitting placement drawings for approval. When completed, 3 copies of certified mill reports shall be furnished to the Architect.
- G. For the gage of deck as shown or referenced to on the drawings, the minimum uncoated steel thickness as delivered to the job site shall not at any location be less than the following decimal thicknesses:

<b>GAGE</b>	<b>Thickness (Inches)</b>
18	0.0474

- 1. All decking shall have nested side laps. Button punchable side laps will not be accepted.
- H. Composite metal deck:
  - 1. Composite metal deck shall be manufactured to conform to the following provisions:
    - a. The steel shall be ASTM A653-95, Grade A (for hot-dip galvanized deck and accessories).
    - b. The manufacturer shall submit certification that the deck deformations provided composite interaction between the metal deck and the concrete.
  - 2. The minimum section properties per foot of width shall be at follow:

- a. 1.5 inch composite deck:

<b>GAGE</b>	<b>Ip(in<sup>4</sup>)/ft</b>	<b>In(in<sup>4</sup>)/ft</b>	<b>Sp(in<sup>3</sup>)/ft</b>	<b>Sn(in<sup>3</sup>)/ft</b>
18	0.282	0.295	0.315	0.327

- b. The sheet width shall be 24 or 36 inches.

## 2.02 METHODS OF ATTACHMENT

- A. Composite metal deck: Provide 5/8" diameter welds or shear studs welded through the metal deck such that connections of the deck to the supports does not exceed 12 inches on center at all supports. Side laps shall be welded or screwed at 36 inches on center. Button-punched side laps are not permitted.

## 2.03 FABRICATING

- A. Do not use a cutting torch for cutting deck or holes in deck. Cutting torch may be used for cutting holes in sump pans provided that cuts are cleaned and painted with a zinc base paint.
- B. Cut holes for openings in deck indicated on Structural Drawings. Locations of other holes will be furnished by trades requiring them.

## PART 3 - EXECUTION

### 3.01 GENERAL

- A. All deck is to be installed in accordance with manufacturer's recommendations and this specification.

### 3.02 CUTTING

- A. Cut required openings or lengths neatly with sheet metal tools. No cutting with welding equipment will be allowed.
- B. Where the deck warps up at edges, and cutting is the only way to correct the warping, the underside of the deck may be cut to facilitate bending. Cutting should be centered over supports and should not extend up to the bottom of the top part of the flute. If necessary to maintain structural integrity, the Contractor shall provide for additional strength where deck is cut. Weld to support along each side of cut and paint over cut area.

### 3.03 FIELD QUALITY CONTROL

- A. After installation is completed, carefully inspect it for loose fasteners or broken welds and re-fasten deck to supports where attachments are not tight. Where burn-through of deck or form occurs, 16 ga. welding washers shall be placed over openings and rewelded. If burn-through damages the supporting structural member, notify Engineer for repair instructions.

### 3.04 CLEAN-UP AND TOUCH-UP

- A. After inspection, remove debris, welding spelter, and other foreign matter.
- B. Use zinc base paint for touching up welds and damage to galvanized coating. Use rust-inhibiting paint to touch up wherever painted metal is scratched, scarred, abraded or welded.

C. Leave surfaces clean and ready for application of surfacing material.

END OF SECTION

## **SECTION 05 50 00 - MISCELLANEOUS STEEL**

### **PART 1 GENERAL**

#### **1.1 SECTION INCLUDES**

- A. Steel handrails and supports.

#### **1.2 DESIGN REQUIREMENTS**

- A. Handrails shall be designed in accordance with the referenced building code. Handrails and guardrails shall be designed and detailed to comply with all applicable OSHA Standards.
- B. Provide railing capable of withstanding a uniform load of 50 lbs/ft and a concentrated load of 200 lb applied to handrail and top rails of guards in any direction. Uniform and concentrated loads need not be assumed to act concurrently.
- C. Provide railing infill capable of withstanding a concentrated load of 50 lbf applied horizontally on an area of 1 sq ft. Infill load and other railing loads need not be assumed to act concurrently.

### **PART 2 – PRODUCTS**

#### **2.1 MATERIALS**

- A. Steel Sections: ASTM A 36/A 36 M. Wide flange shapes ASTM A572.50 (50ksi)
- B. Steel Tubing: ASTM A500, Grade B or Hot rolled ASTM A 501.
- C. Steel Plates: ASTM A283.
- D. Bolts, Nuts, and Washers: ASTM A 325 (ASTM A325M) galvanized to ASTM A 153/A 153M for galvanized components.
- E. Exposed Mechanical Fastenings: Flush countersunk screws or bolts.
- F. Welding Materials: AWS D1.1; type required for materials being welded.
- G. Shop and Touch-up Primer: SSPC Paint 15, Type I – Red Oxide.

### **PART 3 – EXECUTION**

#### **3.1 INSTALLATION**

- A. Install components plumb and level, accurately fitted, free from distortion or defects.
- B. Provide anchors, plates, angles, hangers, and struts required for connecting to structure.
- C. Field weld components indicated on drawings. Perform field welding in accordance with AWS D1.1
- D. Field bolt and weld to match shop bolting and welding. Conceal bolts and screws whenever possible. Where not concealed, use flush countersunk fastenings.
- E. Mechanically fasten joints butted tight, flush and hairline. Grind welds smooth and flush.

## **MISCELLANEOUS STEEL**



- F. Obtain approval prior to site cutting or creating adjustments not scheduled.
- G. After erection, prime welds, abrasions, and surfaces not shop primed, except surfaces to be in contact with concrete.

**END OF SECTION**

**MISCELLANEOUS STEEL**

## **SECTION 06 10 00 - ROUGH CARPENTRY**

### **PART 1 - GENERAL**

#### **1.01 SCOPE**

- A. This section covers wood framing of completed buildings, including all materials, labor services and equipment necessary to complete this work. Work includes but is not limited to wood frame stud walls, floors, ceilings, roofs, prefabricated wood trusses, wood furring, blocking, fasteners and replacement of damaged wood as specified on contract drawings.

#### **1.02 COORDINATION**

- A. Coordinate the location and sequence of this work with other trades for proper execution to fulfill design requirements. Time delivery and erection of wood to avoid extended on-site storage.

#### **1.03 PRODUCT HANDLING**

- A. Store all materials off the ground in such a manner as to ensure proper ventilation and drainage and to protect against damage and the weather.
- B. Remove all damaged material promptly from site to prevent its inadvertent use.

#### **1.04 SUBMITTALS**

- A. Pressure treated wood: Submit certification by treating plant stating chemicals and process used, net amount of salts retained, and conformance to applicable standards.
- B. Preservation treated wood: Submit certification for waterborne preservative that moisture content was reduced to moisture content specified elsewhere in this Section.
- C. Fire retardant treated wood: Submit certification by treating plant stating that chemicals and process used produce wood which conforms to all requirements of fire retardant treated wood.
- D. Wood Trusses: Shop drawings shall indicate species, sizes, and stress grades of lumber to be used; pitch, span, camber, configuration and spacing for each type of truss required; type, size, material, finish, anchorage details. Shop drawings shall include roof framing plans indicating placement and spacing of all trusses. A letter of certification from the truss manufacturer shall also accompany the truss shop drawing confirming the capacity of the metal gusset plate used in fabrication of the trusses. Shop drawings shall also specify all special requirements of the truss manufacturer where trusses support conventional framing above.
- E. Provide shop drawings which have been signed and stamped by a structural engineer licensed to practice in the state where trusses are to be erected. Plans that accompany truss drawing submittals shall also be signed and stamped by the Structural Engineer who designs the individual truss components..
- F. Submittals shall include the following note completed and signed by the Contractor: The data submitted does not contain material deviation from requirements of contract documents except as follow:
- G. Submit delegated engineer component certification letter appended to this section.

## **PART 2 - PRODUCTS**

### **2.01 NAILERS, BLOCKING AND FRAMING**

- A. Except as specified below, all wood shall be No. 2 air-dried Southern Yellow Pine at maximum moisture content of 19 percent.
- B. Wood Floor joist shall be no. 2 kiln-dried Southern Yellow Pine at a maximum moisture content of 15 percent.
- C. All lumber in contact with roofing, steel, masonry or concrete, or embedded in or in contact with the ground, floor framing members 18 inches or closer to the ground, wood framing closer than 12 inches to exposed ground within periphery of the building over crawl space or unexcavated areas, sills on exterior walls, or continuous foundations and less than 8 inches from exposed earth, shall be pressure treated complying with American Wood Preserving Institute Standards. Do not use oil-based preservative where wood may contact roofing materials. All nails, bolts or any other metal connector used with pressure treated lumber shall be galvanized.
- D. Specified lumber dimensions are nominal. Actual dimensions conform to industry standards established by the American Lumber Standards Committee and the rules writing agencies.
- E. Provide fire retardant treated wood where indicated on drawings. All fire retardant treated wood shall bear an identification mark showing the flame spread index thereof issued by an approved agency having a re-examination service. Wood noted to be fire-retardant shall be pressure treated in accordance with AWPA C-20 for lumber and AWPA C-27 for plywood.

### **2.02 PLYWOOD**

- A. Each plywood panel shall be identified with the appropriate grade trademark of the American Plywood Association, and shall meet the requirements of the U.S. Product Standard PS 1-74.
- B. All plywood which has an edge or surface permanently exposed to the weather shall be exterior type.
- C. Provide thickness indicated on the Drawings. Grade of plywood panel shall be as specified on the Drawings, or in accordance with the recommendations of the American Plywood Association.

### **2.03 PREFABRICATED WOOD TRUSSES**

- A. All wood used in prefabricated wood trusses shall be graded lumber conforming to stress requirements and grades indicated on shop drawings.
- B. Allowable design stresses shall be in accordance with the Design Values for Wood Construction Supplement to the National Design Specification for Wood Construction Produced by the National Forest Products Association.

### **2.04 FASTENERS**

- A. Nails: Common wire nails, finishing nails, and cement coated nails in accordance with Fed. Spec. FF-N-105. Use coated nails for exterior nailing. Use galvanized nails where nails are in contact with pressure treated wood.

- B. Bolts, washers and nuts: Commercial quality steel. Galvanized where used on exterior or in contact with pressure treated lumber.
- C. Anchor bolts: Shall be in accordance with Fed. Spec. FF-B-517 and FF-B-575. Sizes shall be as indicated on Drawings. Bolts shall be galvanized where used on exterior or in contact with pressure treated lumber.
- D. Screws: Shall be in accordance with Fed. Spec. FF-S-111, galvanized.
- E. Expansion bolts: Shall be in accordance with Fed. Spec. FF-S-325, with expansion shields. Sizes shall be as indicated on Drawings. Bolts shall be galvanized where used on exterior or in contact with pressure treated lumber.

## **2.05 METAL GUSSET PLATES**

- A. Provide gusset plates manufactured by a firm which is a member of TPI and which complies with TPI quality control procedures for manufacture of connector plates published in TPI "Quality Control Manual."
- B. Indicate recommended values for load as established by the manufacturer on the shop drawings. Plates shall be galvanized or otherwise protected from corrosion.

## **PART 3 - EXECUTION**

### **3.01 FRAMING**

- A. Reject members not suitably straight or having blemishes or defects that would impair the strength of the member.
- B. Install framing members in such a manner as to provide a true, even, straight plane to receive finishes or flooring. Fit wood square, plumb, and true without gaps, cracks, or open joints.
- C. Cutting shall be accomplished using necessary tools to produce square cuts, holes and notches. Do not notch, bore or cut members for pipes, ducts, conduits or other reasons except as shown on the Drawings or as specifically approved by the Architect. Apply two brush coats of preservative used in original treatment to all sawed and cut surfaces of treated lumber.
- D. Provide spacing or blocking as required to place member into alignment.

### **3.02 FASTENING**

- A. Nailing: Use number and size of nails to achieve a rigid and solid connection. Space and size nails to prevent splitting or prebore wood as required. Replace all split members. Nailing shall conform to applicable building codes.
- B. Bolting: Drill holes 1/16" larger in diameter than bolt to be installed. Drill straight and true from one side only. Provide plates or washers between bolt head or nut and wood surface.
- C. Screws: Prebore holes same diameter as root of thread. Enlarge holes to shank diameter for length of shank.
- D. Make wood-to-wood fastenings with proper size cement coated nails.

### **3.03 PLYWOOD**

- A. Install plywood panels to be continuous over two or more spans. Installation shall conform to recommended practice of the American Plywood Association and to the applicable building code.

### **3.04 ANCHORING**

- A. Anchor wood nailers to angles by bolting to steel at 4'-0" using washers and lock washers. Bore and counter-bore to keep surfaces free from projections.
- B. Anchor wood nailers to concrete or masonry with anchor bolts spaced not more than 4'-0".

### **3.05 PREFABRICATED WOOD TRUSSES**

- A. Design trusses for the dead and live loads shown on the Structural Drawings and in accordance with the defined allowable stresses.
- B. Fabrication: Cut truss members to accurate lengths, angles, and sizes to produce close fitting joints with wood-to-wood bearing in assembled units. Assemble truss members in design configuration using jigs or other means to ensure uniformity and accuracy of assembly with close fitting joints.
- C. Erect and brace trusses to comply with recommendations of manufacturer and the Truss Plate Institute.
- D. Erect trusses with plane of truss webs vertical (plumb) and parallel to each other, located accurately at design spacing indicated.
- E. Hoist units in place by means of lifting equipment suited to sizes and types of trusses required, applied at designated lift points as recommended by fabricator, exercising care not to damage truss members or joints by out-of-plane bending of other causes.
- F. Provide temporary bracing as required to maintain trusses plumb, parallel and in location indicated, until permanent bracing is installed.
- G. Anchor trusses securely at all bearing points to comply with methods and details indicated on shop drawings.
- H. Install permanent bracing and related components to enable trusses to maintain design spacing.
- I. Do not cut or remove truss members.

### **3.06 METAL GUSSET PLATES**

- A. Press plates into members to obtain full penetration without crushing outer surface of wood.
- B. A stress increase for the value of a connector for duration of loading or other factors will not be allowed in any case.
- C. Increase metal gusset plates, except for scissor trusses, 25 percent in capacity over and above that which is required for calculated stresses and balance on joint as forces require. Minimum bite of 2-1/2" on tension member.
- D. Dimension exact location of each connector in joint.

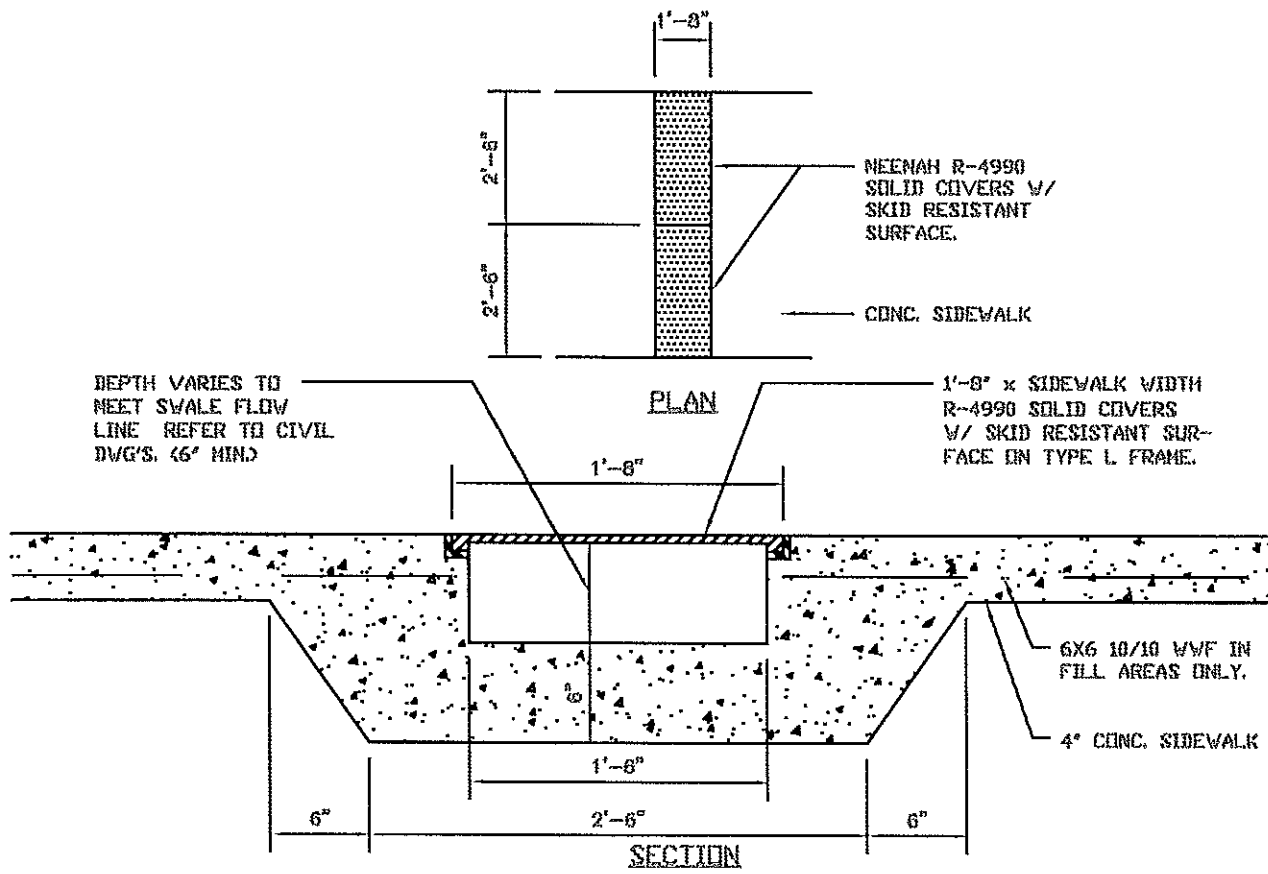
- E. Splices in bottom or top chords shall occur at a joint.
- F. Where more than one member meets at a joint, only one gusset plate per side of truss is allowed.
- G. Job applied pressed metal plates shall be installed with the same pressure used in shop application.

**3.07 CLEAN-UP**

- A. Clean up debris and excess materials from this work and remove from site. Leave area broom clean.

**END OF SECTION**

06 10 00 - 6  
**ROUGH CARPENTRY**



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SD-2

**SIDEWALK CROSS DRAIN**

SCALE: 1 1/2" = 1'-0"