

Specifications for:

Moderate Rehabilitation of Huffman-Parnell RAD Conversion

OHFA Tracking No: 22-0292

Dayton, OH 45403



Prepared for:

Greater Dayton Premier Management

400 Wayne Avenue

Dayton, Ohio 45410

937.910.7500

Website posting at www.gdpm.org

Prepared by:



RDA GROUP ARCHITECTS

7662 PARAGON ROAD | DAYTON, OH 45459 | 937.610.3440

Bid Set
May 1, 2024

Documents contained herein are for use solely with respect to this project. Documents shall only be reproduced by the client or participants in the bidding/construction activities on this project. Documents are not to be provided to any other party or used in whole or part on any other project without written consent from RDA Group Architects, LLC, COPYRIGHT 2024

UNAUTHORIZED REPRODUCTIONS OR USE MAY RESULT IN PENALTIES.

THIS SHEET LEFT INTENTIONALLY BLANK

DOCUMENT 00 01 10 - TABLE OF CONTENTS

TECHNICAL SPECIFICATIONS

| | |
|----------|-----------------------------------------|
| 00 01 10 | Table of Contents |
| 01 10 00 | Summary |
| 01 20 00 | Price and Payment Procedures |
| 01 25 00 | Substitutions |
| 01 30 00 | Administrative Requirements |
| 01 33 00 | Submittal Procedures |
| 01 40 00 | Quality Requirements/Project Inspection |
| 01 50 00 | Temporary Facilities and Controls |
| 01 60 00 | Product Requirements |
| 01 70 00 | Execution and Closeout Requirements |
| 02 41 16 | Selective Demolition |
| 02 41 19 | Sealers |
| 02 50 00 | Hazardous Materials Specifications |
| 03 01 00 | Maintenance of Concrete |
| 03 30 00 | Cast-in-place Concrete |
| 04 01 00 | Maintenance of Masonry |
| 04 05 03 | Masonry Mortaring and Grouting |
| 04 20 00 | Unit Masonry |
| 04 23 00 | Glass Unit Masonry |
| 05 52 00 | Metal Fabrications |
| 06 10 00 | Rough Carpentry |
| 06 20 00 | Finish Carpentry |
| 06 61 16 | Solid Surface Fabrications |
| 07 21 00 | Thermal Insulation |
| 07 31 13 | Shingles and Accessories |
| 07 46 00 | Vinyl Siding |
| 07 62 00 | Sheet Metal Flashing and Trim |
| 07 84 00 | Firestopping |
| 07 90 00 | Joint Protection |
| 08 11 13 | Hollow Metal Doors and Frames |
| 08 14 00 | Wood Doors |
| 08 31 13 | Access Doors and Frames |
| 08 53 00 | Vinyl Windows |
| 08 71 00 | Door Hardware |
| 09 21 16 | Gypsum Board Assemblies |
| 09 26 13 | Gypsum Veneer Plastering |
| 09 30 00 | Tiling |
| 09 64 00 | Resilient Wood Flooring |
| 09 65 00 | Resilient Rubber Flooring |
| 09 90 00 | Painting and Coating |
| 10 00 00 | Specialties |

| | |
|----------|--------------------------------|
| 10 28 00 | Bath Accessories |
| 10 44 00 | Fire Protection Specialties |
| 11 31 00 | Residential Appliances |
| 12 20 00 | Window Treatments |
| 12 35 30 | Residential Casework |
| 31 10 00 | Site Clearing |
| 31 20 00 | Earth moving |
| 31 21 13 | Radon Mitigation |
| 31 23 17 | Trenching |
| 32 01 16 | Asphalt Paving Rehabilitation |
| 32 01 26 | Concrete Paving Rehabilitation |
| 32 17 13 | Parking Bumpers |
| 32 17 23 | Pavement Markings |
| 32 90 00 | Planting |
| 32 92 19 | Seeding / Site Repair |
| 32 92 23 | Sodding |

DRAWINGS

| | |
|------|------------------------------------------------------|
| G1.1 | Project Information |
| G1.2 | Scope of Work Matrix |
| G1.3 | Accessibility Guidelines |
| G1.4 | Code Review Plans |
| G1.5 | UL Assemblies |
| G1.6 | UL Assemblies |
| G1.7 | UL Assemblies |
| G1.8 | UL Assemblies |
| G1.9 | UL Assemblies |
| G2.1 | OHFA Design and Construction Features Form |
| G2.2 | OHFA Design and Construction Features Form |
| G2.3 | OHFA Limited Scope Rehab Sustainability Standards |
| G2.4 | OHFA Limited Scope Rehab Sustainability Standards |
| C1.1 | Existing / Demolition Site Plan / Proposed Site Plan |
| C1.2 | Landscape Plan & Details |
| C1.3 | Enlarged Plans & Site Details |
| A0.1 | Overall Basement Floor Plan |
| A0.2 | Overall First Floor Plan |
| A0.3 | Overall Second Floor Plan |
| A0.4 | Overall Roof Plan |
| A0.5 | Exterior Elevations |
| A0.6 | Exterior Elevations |

| | |
|------|---------------------------------------------------------|
| A1.1 | Unit Type 'A' Existing / Demolition Floor Plans |
| A1.2 | Unit Type 'A' Proposed Floor Plans |
| A1.3 | Unit Type 'A' Reflected Ceiling Plans & Schedules |
| A1.4 | Unit Type 'A' Interior Elevations |
| A2.1 | Unit Type 'B' Existing / Demolition Floor Plans |
| A2.2 | Unit Type 'B' Proposed Floor Plans |
| A2.3 | Unit Type 'B' Reflected Ceiling Plans & Schedules |
| A2.4 | Unit Type 'B' Interior Elevations |
| A3.1 | Unit Type 'C&D' Existing / Demolition Floor Plans |
| A3.2 | Unit Type 'C&D' Proposed Floor Plans |
| A3.3 | Unit Type 'C&D' Reflected Ceiling Plans & Schedules |
| A3.4 | Unit Type 'C' Interior Elevations |
| A3.5 | Unit Type 'D' Interior Elevations |
| A4.1 | Details |
| A4.2 | Sections |
| | |
| P1.0 | Plumbing Legend, Schedules, Details, and Specifications |
| P2.0 | Plumbing Overall Basement Demolition Floor Plans |
| P2.1 | Plumbing Overall Basement Floor Plans and Diagrams |
| P2.2 | Plumbing Overall First Floor Plans |
| P2.3 | Plumbing Overall Second Floor Plans |
| | |
| M1.0 | Mechanical Demolition / General Notes and Schedules |
| M1.1 | Mechanical Details and Specifications |
| M2.0 | Mechanical Overall Basement Floor Plans |
| M2.1 | Mechanical Overall First Floor Plans |
| M2.2 | Mechanical Overall Second Floor Plans |
| | |
| E1.0 | Electrical Legend, Schedules, and Specifications |
| E2.0 | Electrical Overall Basement Floor Plans |
| E2.1 | Electrical Overall First Floor Plans |
| E2.2 | Electrical Overall Second Floor Plans |

END OF DOCUMENT

THIS SHEET LEFT INTENTIONALLY BLANK

SECTION 01 10 00 - SUMMARY

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Summary:
 - 1. Contract description.
 - 2. Scope of Work.
 - 3. Contractor's use of premises.
 - 4. Specification conventions.
- B. Contractor / General Requirements
- C. Price and Payment Procedures:
- D. Administrative Requirements:
- E. Submittals:
- F. Quality Requirements:
- G. Temporary Facilities and Controls:
- H. Product Requirements:
- I. Execution Requirements:

1.2 CONTRACT DESCRIPTION

- A. Project Identification: Huffman-Parnell RAD Conversion
- B. Project Location: 9 A&B, 11 A&B Parnell Ave.
1202 A&B, 1204 A&B, 1208 A&B, 1210 A7B Huffman Ave.
Dayton, OH 45403
- C. Owner: Greater Dayton Premier Management
400 Wayne Avenue
Dayton, Ohio 45410
937.910.7500 phone
- D. Architect: RDA Group Architects, LLC
7662 Paragon Road
Dayton, OH 45459
937.610.3440 phone
- E. PME Engineering: Building Systems Engineering, LTD
1370 N. Fairfield Road, Suite E
Beavercreek, OH 45432
937.306.1468 phone
- F. Environmental Consulting: Mac Paran Consulting
3959 Fulton Grove Road
Cincinnati, OH 45245
513.752.9111 Phone

1.3 SCOPE OF WORK

- A. Work of the Project includes the rehabilitation of the Huffman-Parnell housing site which includes 12 dwelling units in [1] apartment building
 - 1. All specific scope items shall be coordinated and reviewed on the drawings and specifications as applicable.
 - 2. Site/Exterior Improvements:
 - a. Replacement of concrete walks, curbs, stoops, and driveway approaches.

- b. Replacement of handrails at site stairs.
- c. Mill and repave existing asphalt driveways and parking lots.
- d. Storm system improvements.
- e. Utility Improvements.
- f. Replacement of landscaping and plantings.
- g. Topsoil, minor grading, and site restoration.
- 3. Exterior Building Improvements:
 - a. Repoint masonry facades where indicated.
 - b. Repair foundations where indicated.
 - c. Remove existing, install new windows into existing openings.
 - d. Repair of existing shingle roof systems.
 - e. Remove existing, install new exterior doors.
 - f. Remove existing, install new vinyl siding and trim where indicated.
 - g. Painting of all affected building components requiring paint.
 - h. Installation of new exterior lighting, address plaques, mailboxes, and related exterior components as indicated.
- 4. Interior Improvements:
 - a. Abatement per environmental specifications.
 - b. Selective demolition / removal of the existing interior finishes, partitions, and accessories complete to suit proposed rehabilitation.
 - c. Removal of existing plumbing, mechanical, and electrical components as scheduled to suit work.
 - d. Repair or replacement of any deteriorated/damaged framing or finishes.
 - e. Installation of new gypsum board wall and ceiling finishes where indicated; including fire resistant rated assemblies. Skimcoat / re-finish all existing walls / ceilings scheduled to remain.
 - f. Repair existing or install new kitchen cabinets as indicated.
 - g. Remove existing, install new countertops.
 - h. Install new appliances
 - i. Installation of new bathroom plumbing fixtures, finishes, and accessories as indicated.
 - j. Repair / refinish existing, or install new interior doors as indicated.
 - k. Installation of new interior trim components as indicated.
 - l. Installation of new interior shelving, cleats, hanging rods, etc. as indicated
 - m. Installation of new floor finishes as indicated.
 - n. Painting of all non-prefinished building components as indicated
 - o. New plumbing fixtures and accessories as indicated
 - p. New water heaters as indicated.
 - q. Install new passive radon mitigation systems as indicated.
 - r. Installation of new split system forced air HVAC system / mini-splits, associated air devices, accessories, and controls as indicated.
 - s. New Electrical fixtures and devices; branch circuitry as indicated.
 - t. Electrical system installations for arc-fault, tamper resistant, and ground fault improvements as indicated.
 - u. Protect any finishes scheduled to remain.
 - v. Final cleaning.
- B. Provide all materials and labor for work as noted herein for a complete project.
 - 1. **IMPORTANT:** Field verify all existing conditions, and coordinate all applicable requirements as related to the scope of the work.
 - 2. Drawings indicate general diagrammatic areas/extent of work, but in no way indicate the intricate nature of the work required for the successful completion of the project.
 - 3. Conditions will vary between units. All conditions shall be verified for each individual unit.
- C. Provide any and all ancillary work related to the above work scope including repair of any Contractor damaged or impacted finishes within the work area.

- D. Provide appropriate coordination with GDPM.

1.4 CONTRACTOR'S USE OF SITE

- A. This housing site will be VACATED for the duration of the project. Anticipate and schedule for this work to be accomplished in [1] phase of work.
- B. Perform all work between the hours of 8 AM and 5 PM Monday through Friday, unless work outside these hours and days is requested and granted by the Owner.

1.5 TIME FOR COMPLETION

- A. Contract Period
 - 1. Upon issuance of a contract from the Owner, Supply a work start date within [5] working days. A start date and completion date will be negotiated and a notice to proceed will be issued stating those dates.
 - 2. Consideration for material lead-times will be given for establishing the NTP dates as applicable.
 - 3. Notify the Architect, in writing, upon determination of any delay in material delivery.
- B. The time for completion of this contract work is **Three Hundred Sixty Five [365]** calendar days from the date of the Notice to Proceed.
 - 1. The start date established on the notice to proceed will be communicated and agreed to between GDPM and the Contractor upon execution of the Owner-Contractor Agreement.
 - 2. Final schedule and phasing will be coordinated with the contractor.
 - 3. The Contractor shall anticipate that all units currently occupied and scheduled for relocation shall be made available at the start of the project.
 - 4. The Buildings will be turned over one at a time.
- C. Notify GDPM in writing fourteen [14] days prior to the Contract Completion date if an extension of contract time is necessary with a request for the extension and the reasoning for such request.
 - 1. Failure to comply may result in enforcement of liquidated damages, cancellation of the contract, and possible disablement from future bidding opportunities.
- D. Notify GDPM in writing seven [7] days prior to substantial completion of the project.
- E. It is anticipated that the work of this contract will begin Summer 2024. It will be up to the contractor's responsibility to expedite submittals process and order materials to accommodate the construction schedule.
- F. Coordinate construction schedule/activities with holidays, etc. so as to not inconvenience residents unnecessarily over holiday weekends, etc.
- G. Failure to complete work in the specified contract period will be cause for enforcement of liquidated damages per GDPM requirements.

1.6 SPECIFICATION CONVENTIONS

- A. These specifications are written in imperative mood and streamlined form. This imperative language is directed to the Contractor, unless specifically noted otherwise. The words "shall be" are included by inference where a colon (:) is used within sentences or phrases.

1.7 CONTRACTOR / GENERAL REQUIREMENTS

- A. Visit the project sites to verify general and pertinent conditions and take measurements necessary for bidding purposes. Arrangements to visit the site may be made by contacting Kevin Arnold or Glen Moss at GDPM.
- B. Pay for all building permits, trade permits, ROW permits, and any other required permits and inspections necessary to complete all work related to these specifications. Comply with Federal, State, and Local Codes. All work shall comply with HUD General Conditions of the Contract for Construction [HUD Form 5370]

- C. Taxes: Pay all applicable taxes, including applicable sales and use taxes, and other taxes as required by governing law.
 - 1. GDPM is a tax-exempt entity.
 - 2. Tax Exempt forms shall be provided upon request.
- D. Provide dumpsters or trash containers needed. Do not use GDPM dumpsters or trash containers at any time for removal of materials, trash, or debris related to the Contractor's work. Remove debris from the site regularly and be placed within appropriate trash receptacles. Keep all work areas neat at all times. Trash shall not be permitted to be left around the site. Take all considerations for resident safety. Do not leave trash or debris on the ground / around the project site.
 - 1. Run magnet around work areas daily to pickup stray nails, etc. when appropriate.
- E. Furnish workers with potable drinking water and any/all sanitary requirements for the workers during the project. Use of GDPM facilities and property is prohibited.
- F. Provide portable generator or required equipment as needed for the completion of the work. Do not use GDPM and/or resident electricity.
- G. A Contractor, working under a contractual agreement with **GDPM, MUST BE IN COMPLIANCE WITH OSHA STANDARDS 1926 – REGULATIONS FOR CONSTRUCTION.** Any and all sub-contractors, doing work on this project, **MUST ALSO BE IN COMPLIANCE WITH OSHA STANDARDS.** Non-compliance shall be a basis for making a bid non-responsive. And, if a Contractor or sub-contractor is found to be in **VIOLATION (NON-COMPLIANCE) AT ANY TIME**, this could be a basis for termination of the purchase order/contract.
- H. **IMPORTANT: Failure to show or mention petty details shall not be warranted for the omission of anything necessary for the proper completion of the work.**
- I. **The plans and specifications are intended to depict the general scope, layout and quality of workmanship required. The documents are not an "instruction manual" to execute the work nor are they intended to show or describe in detail every item necessary for the proper installation of the work. The means and methods required to execute the work described is the sole responsibility of the Contractor. The Contractor shall include the ancillary work required, whether explicitly stated or not, for the proper completion of the work as intended. The Contractor is required to meet or exceed building code requirements, applicable industry standards, ASTM standards, and/or manufacturer installation requirements as they relate to the work.**
- J. **The plans and specifications represent a single complete design package indicating the intended scope of the project in its entirety. As such, the project is structured to be awarded to a single Prime Contractor. The documents do not delineate bid packages or assign responsibilities to any subsequent subcontractors, dictate construction sequencing, nor provide coordination between any "trades". Such activities are the responsibility of the holder of the construction contract. In the event of a discrepancy within the drawings or between the drawings and the specifications, the more stringent requirement represented in the documents shall prevail.**
- K. Do not take advantage of any clerical errors, omissions, contradictions, or conflicts that may develop in plans, specifications, or details. Such errors, ambiguities and discrepancies shall be reported to the Architect immediately for clarification, revision, or correction prior to the submission of bids. If no notification is given, it shall be assumed that all specifications and conditions will be met.
- L. Submission of a bid shall be considered the Contractor's Certification that the bid is based upon equipment and/or materials that meet or exceed the standards set forth by specification or equipment and/or materials identification. Should a Contractor's product be determined not

equal to that specified, the Contractor shall be required to provide and install a product acceptable as equal by the Architect at no additional cost to the Owner.

- M. The submission of a bid shall indicate that the Contractor has visited the project site and is familiar with the conditions as they exist, and the modifications that may be necessary to provide a complete and professional finished project.
- N. **Asbestos containing materials:** Refer to Section 02 50 00.
- O. **Lead base paint:** Refer to Section 02 50 00.
- P. **Mold Remediation:** Refer to Section 02 50 00.
- Q. There is a strict **NO SMOKING** policy for all work. Any worker found smoking on the jobsite will be subject to removal from the project. No exceptions. Habitual offenders may be subject to a fine in the amount of \$500 per occurrence.
- R. Security: Contractor's Liability for Vandalism
 - 1. Contractor shall be responsible at the Contractor's cost and expense, for the securing and protection of the project which is under the control of the Contractor, and for the repair and replacement of the work until that portion of the work is accepted as completed by the Owner. The Contractor shall take the measures necessary to provide such security.
 - 2. Contractor shall be liable for and shall promptly repair or otherwise remedy any and all damages to said portion of the project and of the accepted construction work caused by vandalism up to \$5,000.00 per incident. Contractor shall indemnify and hold the Owner harmless from and against all damages, liabilities, costs and expenses, including, without limitation, reasonable attorney fees, which may be imposed upon or incurred by the Owner as a result of the Contractor's failure to comply with the requirements of this section.
- S. Insurance: **Refer to GDPM Terms and Conditions.**
 - 1. Contractor to provide copy of Certificate of Insurance to GDPM.
 - 2. Contractor to submit evidence of Worker's Compensation insurance coverage and builder's risk insurance.
- T. Damages: Any and all damages to Housing Authority Property or resident property shall be repaired equivalent to the existing by the Contractor at no cost to the Authority. **NO EXCEPTIONS.**
- U. Safety: The work will be accomplished within a high traffic area and the Contractor is responsible for taking all safety precautions necessary or directed to ensure public safety.
 - 1. RDA nor GDPM are safety consultants. Any and all safety provisions shall be managed and coordinated by the Contractor.
- V. Provide appropriate notification of Residents prior to starting work.

1.8 CONTRACTOR QUALIFICATIONS

- A. The Contractor and/or Sub-contractors must establish their qualifications with GDPM for their ability to complete this type of work. Qualifications may be established by:
 - 1. Provide references of similar projects, past performance, financial disclosures, etc. in the interest of selection of the lowest and best bidder for the project.
 - 2. Providing a letter of approval for the installation of the products from the manufacturer.
 - a. Contractor must be properly trained and approved by the manufacturer for the installation of the products.
 - 3. Providing a recommendation from the supplier of the products.
 - 4. Demonstrating to GDPM the capability to do the work. The Contractor will have a minimum of five years documented experience in similar work.
- B. The Contractor will be responsible for all work performed by the Sub-contractors.

1.9 RESPONSIBILITIES OF THE CONTRACTOR

- A. Protect all finishes and equipment scheduled to remain.
- B. Commence and complete work as noted in the contract.
- C. Furnish labor, materials, equipment, and management required to complete the project.
- D. Furnish all required logistics required to accomplish the work – including lifts, scaffolding, ladders, trash chutes, safety equipment, etc.
 - 1. All contractor staging areas and layout areas, etc. shall be coordinated and approved by the Owner prior to the start of the project.
- E. Visit the site to become thoroughly familiar with all working conditions, check and verify all dimensions, and site conditions. Any dimensions given or referred to in the specification or drawing is to be used purely as approximate and not as a basis for exact amounts for bidding. Promptly advise the Architect of any discrepancies, errors with the specifications and drawings before bidding the work.
- F. Provide a valid Certificate of Insurance, follow all Workman's Compensation requirements and regulations, and conduct all work according to OSHA recognized safe work practices.
- G. Provide all bonds, payment schedule, insurance as noted in the contract documents.
- H. The plans and specifications are intended to depict the general scope, layout and quality of workmanship required, they are not intended to show or describe in detail every item necessary for the proper installation of the work, nor are the documents an instruction manual of how to accomplish the work.
- I. Provide Safety Data Sheets [SDS] on all products used.
 - 1. Submit directly to Owner. RDA does not review nor approve SDS.

1.10 REFERENCES

- A. Conform to reference standards by date of issue current as of date of Contract Documents.
- B. When specified reference standard conflict with Contract Documents, request clarification from Architect/Engineer before proceeding.

1.11 WARRANTIES AND GUARANTEES

- A. General: The warranty and guarantee provisions of the General Conditions apply to all work of the contract, including but not limited to the following specific categories related to individual units of work specified in various sections of these specifications:
 - 1. **Refer to GDPM Contract Requirements / Terms and Conditions for additional information / requirements.**
 - 2. Special Project Warranty (Guarantee): A warranty specifically written and signed by the Contractor for a defined portion of the work, and, where required, countersigned by sub-contractor, installer, manufacturer, or other entity engaged by the Contractor.
 - 3. Specified Product Warranty: A warranty which is required by the contract documents, to be provided for a manufactured product incorporated in the Work, regardless of whether manufacturer has published a similar warranty without regard for specific incorporation into the work, or has written and executed a special project warranty as a direct result of contract document requirements.
 - 4. Coincidental Product Warranty: A warranty which is not specifically required by the Contract Documents (other than as specified in this Section); but which is available on a product incorporated into the work, by virtue of the fact that the manufacturer of the product has published a warranty in connection with purchases and users of the product without regard for specific applications except as otherwise limited by terms of the warranty.

PART 2 GENERAL REQUIREMENTS

- A. Follow all applicable requirements of the Owner's Terms and Conditions. If there should be a conflict between the Owner Requirements and those herein, the higher standard shall apply.**
- B. Required Inspections by GDPM
 - 1. Contact GDPM Project Manager to:
 - a. Inform GDPM when the job is actually going to start to allow resident notification.
 - b. Mockup inspections.
 - c. Inspection at random or when problems / field conditions arise.
 - d. Final Inspection.
 - e. Punchlist requirements.
 - f. Acceptance of the project by GDPM.

PART 3 EXECUTION

Not Used.

END OF SECTION

THIS SHEET LEFT INTENTIONALLY BLANK

SECTION 01 20 00 - PRICE AND PAYMENT PROCEDURES

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Schedule of values.
- B. Applications for payment.
- C. Change procedures.
- D. Defect assessment.
- E. Unit prices.
- F. Alternates.
- G. Project Allowances.

1.2 PREVAILING WAGE REQUIREMENTS

- A. The work of this project is subject to Davis-Bacon Prevailing Wages.
- B. Include in the bid amount all applicable prevailing wages.
- C. Provide payroll reports indicating compliance to the Owner on a monthly basis.
 - 1. Pay Applications will not be processed without approved payroll reports submitted to the Owner.

1.3 TAXES

- A. GDPM is tax exempt. Tax Exempt Certificates will be provided upon request.
- B. GDPM will not compensate the Contractor for any taxes paid on the project.

1.4 SCHEDULE OF VALUES

- A. Submit schedule on AIA G702 / G703 or other approved HUD forms.
- B. Submit Schedule of Values in duplicate three days prior to the Pre-Construction meeting for approval by Architect and Owner.
- C. Approved Schedule of Values will be signed at the Pre-Construction meeting.
- D. Format: Utilize Table of Contents of this Project Manual. Identify each line item with number and title of major specification Section. Identify site mobilization/general conditions, bonds and insurance.
 - 1. Schedule of values should be broken down by building and also by division / work scope for each building.
- E. Revise schedule to list approved Change Orders, with each Application for Payment.

1.5 APPLICATIONS FOR PAYMENT

- A. Submit **three** copies of each pay application on AIA G702/G703 HUD form 51001. Submit "pencil copy" one week prior to application for review and approval by Architect and Owner.
 - 1. Pencil copy shall be submitted via email for review.
- B. Content and Format: Utilize Schedule of Values for listing items in Application for Payment.
- C. Payment Period: Monthly. First pay application at 30 days into contract period.

- D. Submit updated construction schedule with each Application for Payment as applicable to the work. Failure to submit the updated construction schedule can delay the processing of the Application for Payment.
- E. Submit all required waivers of lien/partial release of lien, payroll reports as required by GDPM, etc. Failure to submit required paperwork can delay the processing of the Application for Payment

1.6 CHANGE PROCEDURES

- A. The Architect or Owner may issue a Proposal Request including a detailed description of proposed change with supplementary or revised Drawings and specifications, a change in Contract Time for executing the change. Contractor will prepare and submit estimate within 5 days.
- B. On Owner's approval of a proposal from Contractor, Owner will issue a Change Order for all changes to Contract Sum and for all changes to the Contract Time.
- C. Stipulated Sum/Price Change Order: Based on Proposal Request and Contractor's fixed price quotation.
- D. Unit Price Change Order: For contract unit prices and quantities, the Change Order must be executed prior to beginning any work. The Order will be based on fixed unit price basis provided in the Bid Form.
- E. Construction Change Order: Architect may issue directive, on AIA / HUD Forms signed by Owner, instructing Contractor to proceed with changes in the Work. Document will describe changes in the Work, and designate method of determining any change in Contract Sum/Price or Contract Time. Promptly execute change.
- F. Change Order Forms: AIA / HUD Approved Forms with all required backup documentation.
- G. Correlation Of Contractor Submittals:
 - 1. Promptly revise Schedule of Values and Application for Payment forms to record each authorized Change Order as separate line item and adjust Contract Sum/Price.
 - 2. Promptly revise progress schedules to reflect change in Contract Time, revise sub-schedules to adjust times for other items of work affected by the change, and resubmit.
 - 3. Promptly enter changes in Project Record Documents.
- H. The Architect will advise of minor changes in the Work not involving adjustment to Contract Sum/Price or Contract Time by issuing supplemental instructions on Architect's approved forms.
- I. **Important: All change orders must be fully executed prior to beginning any work. Failure to comply will result in contractor request being denied and completed at no cost to GDPM.**

1.7 DEFECT ASSESSMENT

- A. Replace the Work, or portions of the Work, not conforming to specified requirements.
- B. If, in the opinion of the Architect/Owner, it is not practical to remove and replace the Work, the Architect/Owner will direct appropriate remedy.
- C. Authority of Architect/Owner to assess defects and identify payment adjustments is final.
- D. Non-Payment For Rejected Products: Payment will not be made for rejected products.

1.8 UNIT PRICES

- A. Architect will take measurements and compute quantities accordingly. Provide assistance in taking of measurements.

- B. Unit Price Includes: Full compensation for required labor, products, tools, equipment, plant and facilities, transportation, services and incidentals; erection, application or installation of item of the Work; overhead and profit.
- C. Final payment for Work governed by unit prices will be made on basis of actual measurements and quantities accepted by Architect/Engineer multiplied by unit sum/price for Work incorporated in or made necessary by the Work.
- D. Unit Price Schedule: Refer to Bid Form

1.9 ALTERNATES

- A. Alternates listed on Bid Form will be reviewed and accepted or rejected at Owner's option. Accepted Alternates will be identified in Owner-Contractor Agreement.
- B. Coordinate related work and modify surrounding work.

1.10 SCHEDULE OF ALTERNATES

- A. None

1.11 PROJECT ALLOWANCES

- A. Building & Systems / Unforeseen Conditions Allowance:
 - 1. Provide in bid a draw down allowance in the amount of **\$100,000 [one hundred thousand dollars]** for Building & Systems / Unforeseen Conditions to address existing building / site / systems conditions as they interface with the project.
- B. Permit Allowance:
 - 1. Provide in bid a draw down allowance in the amount of **\$20,000 [twenty thousand dollars]** for building permits. *Allowance shall be for actual / direct costs only, all labor, coordination, etc. shall be included in the bid amount.*
- C. Contractor's costs for Products, delivery, installation, labor, insurance, payroll, taxes, bonding, equipment rental, overhead and profit are included in Change Orders authorizing expenditure of funds from this project allowance.
- D. Any expenditure from this allowance shall be reviewed and approved by Architect and GDPM prior to executing the work.
- E. Any unused amounts will be credited back to GDPM at the completion of the project by a change order.

PART 2 PRODUCTS

Not Used.

PART 3 EXECUTION

Not Used.

END OF SECTION

THIS SHEET LEFT INTENTIONALLY BLANK

SECTION 01 25 00 – SUBSTITUTION PROCEDURES

PART 1 GENERAL

1.1 WORK INCLUDES

- A. Includes administration and procedural requirement for Substitutions.
 - 1. Substitutions' for Cause: Changes due to project conditions, such as unavailable of product.
 - 2. Substitutions' for Convenience: Changes that may offer advantages to the Owner.

1.2 PRODUCT OPTIONS

- A. Products Specified by Reference Standards or by Description Only: Any Product meeting those standards or description.
- B. Products Specified by Naming One or More Manufacturers: Products of manufacturers named and meeting specifications, no options or substitutions allowed.
- C. Products Specified by Naming One or More Manufacturers with Provision for Substitutions / Approved Equal: Submit request for substitution as outlined in this section for manufacturers not named.
 - 1. RDA/Owner is the decision maker if the proposed "approved equal" is in fact equal and approved. Any decision rendered is final.
 - 2. Any Contractor, Sub-contractor, or Supplier who makes their own judgement as to "approved equal" and includes within their bid without a formal approval is doing so at their own risk.

1.3 SUBSTITUTIONS PROCEDURES

- A. RDA will consider requests for Substitutions by the Bidder only [not materials suppliers, etc].
- B. Document each request with complete data substantiating compliance of proposed Substitution with Contract Documents.
- C. A request constitutes a representation that the Bidder:
 - 1. Has investigated proposed product and determined that it meets or exceeds quality level of specified product.
 - 2. Will provide same warranty for Substitution as for specified product.
 - 3. Will coordinate installation and make changes to other Work which may be required for the Work to be complete with no additional cost to Owner.
 - 4. Waives claims for additional costs or time extension which may subsequently become apparent.
- D. Substitution Procedure
 - 1. **Submit copy of request for Substitution for consideration to RDA no later than 10 days before bid opening date.**
 - 2. Submit shop drawings, product data, and applicable certified test results attesting to proposed product equivalence. Burden on proof is on proposer.
 - 3. RDA will notify Contractor in writing of decision to accept or reject request within 5 days of receipt of request or request additional information or documentation for evaluation.
- E. Substitutions will not be considered when they are indicated or implied on Submittals, without written request or when acceptance will require revision to the Contract Documents.
- F. If the Substitution will require modifications to the Contract / Bidding Documents, the cost for updating the documents shall be paid by the Contractor making the request.
- G. Substitutions will not be considered after award of the project without justification.
- H. Approved substitutions will be identified by Addenda.
 - 1. Bidders shall not rely upon approvals made in any other manner.

END OF SECTION

SECTION 01 30 00 - ADMINISTRATIVE REQUIREMENTS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Coordination and project conditions.
- B. Preconstruction meeting.
- C. Progress meetings.
- D. Pre-installation meetings.
- E. Daily Job Logs.
- F. Cutting and patching.
- G. Special procedures.

1.2 COORDINATION AND PROJECT CONDITIONS

- A. Coordinate scheduling, submittals, and Work of various sections of Project Manual to ensure efficient and orderly sequence of installation of interdependent construction elements.
- B. Verify utility requirements and characteristics of operating equipment are compatible with building utilities. Coordinate work of various sections having interdependent responsibilities for installing, connecting to, and placing in service, operating equipment.
- C. Coordinate space requirements, supports, and installation of mechanical and electrical Work indicated diagrammatically on Drawings. Follow routing shown for pipes, ducts, and conduit, as closely as practicable; place runs parallel with lines of building. Utilize spaces efficiently to maximize accessibility for other installations, for maintenance, and for repairs.
- D. In finished areas, conceal pipes, ducts, and wiring within construction. Coordinate locations of fixtures and outlets with finish elements. Coordinate rough in locations for accessibility, clearances, maneuvering, etc.
- E. Coordinate completion and clean-up of Work of separate sections in preparation for Substantial Completion.
- F. After Owner occupancy of premises, coordinate access to site for correction of defective Work and Work not in accordance with Contract Documents, to minimize disruption of Owner's activities.

1.3 FIELD VERIFICATION

- A. Prior to ordering materials, Contractor shall verify the actual dimensions of existing conditions and assume responsibility for workable solutions for all new work. Verification that new work and items are workable for existing conditions while providing adequate clearances is the responsibility of the contractor.

1.4 PRECONSTRUCTION MEETING

- A. GDPM will schedule preconstruction meeting after Notice of Award for affected parties.
- B. Agenda:
 - 1. Execution of Owner-Contractor Agreement.
 - 2. Submission of executed bonds and insurance certificates.
 - 3. Distribution of Contract Documents.
 - 4. Submission of list of Subcontractors, list of products, schedule of values, and progress schedule.
 - 5. Designation of personnel representing parties in Contract, and Architect.

6. Procedures and processing of field decisions, submittals, substitutions, applications for payments, proposal request, Change Orders, and Contract closeout procedures.
 7. Scheduling.
 8. Use of premises by Owner and Contractor.
 9. GDPM requirements for procedures and inspections
 10. Construction facilities and controls provided by Owner.
 11. Security and housekeeping procedures.
 12. Application for payment procedures.
 13. Procedures for maintaining record documents.
 14. Requirements for start-up of equipment.
 15. Inspection and acceptance of equipment put into service during construction period.
- C. Architect will record minutes and distribute copies via email within two days after meeting to participants and those affected by decisions made.

1.5 PROGRESS MEETINGS

- A. Schedule and administer meetings throughout progress of the Work at bi-weekly intervals.
1. Contractor to provide suitable accommodations for holding meetings on-site with a layout table, chairs, etc.
- B. Architect will make arrangements for meetings, prepare agenda with copies for participants, and preside at meetings.
- C. Attendance Required: Job superintendent, major subcontractors and suppliers, Architect, Owner, as appropriate to agenda topics for each meeting.
- D. Agenda:
1. Review minutes of previous meetings.
 2. Review of Work progress.
 3. Field observations, problems, and decisions.
 4. Identification of problems impeding planned progress.
 5. Review of submittals schedule and status of submittals.
 6. Review of off-site fabrication and delivery schedules.
 7. Maintenance of progress schedule.
 8. Corrective measures to regain projected schedules.
 9. Planned progress during succeeding work period.
 10. Coordination of projected progress.
 11. Maintenance of quality and work standards.
 12. Effect of proposed changes on progress schedule and coordination.
 13. Other business relating to Work.
- E. Architect shall record minutes and distribute copies via email within two days after meeting to participants and those affected by decisions made.

1.6 PRE-INSTALLATION MEETINGS

- A. When required in individual specification sections, convene pre-installation meetings at Project site prior to commencing work of specific section.
- B. Require attendance of parties directly affecting, or affected by, Work of specific section.
- C. Notify GDPM one week in advance of meeting date.
- D. Prepare agenda and preside at meeting:
1. Review conditions of installation, preparation and installation procedures.
 2. Review coordination with related work.

1.7 DAILY JOB LOGS

- A. Maintain a daily job log that indicates the personnel on-site and activities performed (including all sub-contractors)
- B. Indicate any safety concerns and incidents.
- C. Indicate weather conditions.
- D. Indicate any visitors or other personnel visiting the project site.
- E. Job log shall be accessible to GDPM and Architect upon request.
 - 1. Email GDPM with daily reports upon request.

PART 2 PRODUCTS

Not Used.

PART 3 EXECUTION

3.1 CUTTING AND PATCHING

- A. Employ skilled and experienced installer to perform cutting and patching.
- B. Submit written request in advance of cutting or altering elements affecting:
 - 1. Structural integrity of element.
 - 2. Integrity of weather-exposed or moisture-resistant elements.
 - 3. Efficiency, maintenance, or safety of element.
 - 4. Visual qualities of sight exposed elements.
 - 5. Work of Owner or separate contractor.
- C. Execute cutting, fitting, and patching to complete Work, and to:
 - 1. Fit the several parts together, to integrate with other Work.
 - 2. Uncover Work to install or correct ill-timed Work.
 - 3. Remove and replace defective and non-conforming Work.
 - 4. Remove samples of installed Work for testing.
 - 5. Provide openings in elements of Work for penetrations of mechanical and electrical Work.
- D. Execute work by methods to avoid damage to other Work, and to provide proper surfaces to receive patching and finishing.
- E. Cut masonry and concrete materials using masonry saw or core drill.
- F. Restore Work with new products in accordance with requirements of Contract Documents.
- G. Fit Work tight to pipes, sleeves, ducts, conduit, and other penetrations through surfaces.
- H. Maintain integrity of wall, ceiling, or floor construction; completely seal voids.
- I. At penetrations of fire rated walls, partitions, ceiling, or floor construction, completely seal voids with fire rated material, to full thickness of penetrated element.
- J. Refinish surfaces to match adjacent finishes. For continuous surfaces, refinish to nearest intersection; for assembly, refinish entire unit. For painted surfaces, paint entire wall from corner to corner, floor to ceiling.
- K. Identify hazardous substances or conditions exposed during the Work to Architect for decision or remedy.

3.2 DEFECT ASSESSMENT

- A. Replace the Work, or portions of the Work, not conforming to specified requirements.

- B. If, in the opinion of the Architect/Owner, it is not practical to remove and replace the Work, the Architect/Owner will direct appropriate remedy.
- C. Authority of Architect/Owner to assess defects and identify payment adjustments is final.
- D. Non-Payment For Rejected Products: Payment will not be made for rejected products.

3.3 SPECIAL PROCEDURES

- A. Materials: As specified in product sections; match existing with new products for patching and extending work.
- B. Employ skilled and experienced installer to perform alteration work.
- C. Cut, move, or remove items as necessary for access to alterations and renovation Work. Replace and restore at completion.
- D. Remove unsuitable material not marked for salvage, including rotted wood, corroded metals, and deteriorated masonry and concrete. Replace materials as specified for finished Work.
- E. Remove debris and abandoned items from area and from concealed spaces.
- F. Prepare surface and remove surface finishes to permit installation of new work and finishes.
- G. Remove, cut, and patch Work in manner to minimize damage and to permit restoring products and finishes to original or specified condition.
- H. Refinish existing visible surfaces to remain in renovated rooms and spaces, to renewed condition for each material, with neat transition to adjacent finishes.
- I. Where new Work abuts or aligns with existing, provide smooth and even transition. Patch Work to match existing adjacent Work in texture and appearance.
- J. When finished surfaces are cut so that smooth transition with new Work is not possible, terminate existing surface along straight line at natural line of division and submit recommendation to Architect for review.
- K. Patch or replace portions of existing surfaces which are damaged, lifted, discolored, or showing other imperfections.
- L. Finish surfaces as specified in individual product sections.

END OF SECTION

SECTION 01 33 00 – SUBMITTALS

PART 1 GENERAL

1.1 WORK INCLUDES

- A. Review of shop drawings and product data by Owner/RDA.

1.2 SUBMITTAL PROCEDURES

- A. Submit product data and shop drawings for all applicable components of the project. Refer to individual sections for additional requirements.
 - 1. Provide a submittal log at the beginning of the project for review by Owner / RDA. Identify proposed submittals by Specification Section.
 - 2. Owner / RDA review of the submittals will be general in nature and does not relieve the Contractor in any way of the responsibility in compliance with the contract requirements, manufacturer requirements, and/or applicable codes.
- B. Accomplish submittals in a digital [PDF] format. Any hard copies received will be scanned and returned electronically. Provide those submittals required to maintain orderly progress of the work and those required for early lead time for manufacturer fabrication.
 - 1. Any hard copies received will be scanned and returned electronically.
 - 2. Provide those submittals required to maintain orderly progress of the work and those required for early lead time for manufacturer fabrication.
 - 3. Mark each component to identify applicable products, models, options, and other data. Supplement manufacturer's standard data to provide information unique to this project. Non-identified submittals will be rejected.
- C. Provide Submittal form / cover sheet to identify Project, Contractor, subcontractor or supplier; and pertinent Contract Document references.
- D. Apply Contractor's stamp, signed or initialed, certifying that review, verification of Products required, field dimensions, adjacent construction Work, and coordination of information is in accordance with requirements of the Work and Contract Documents.
- E. Identify variations from Contract Documents and Product or system limitations which may be detrimental to successful performance of completed Work.
- F. Revise and resubmit submittals as required; identify changes made since previous submittal.
- G. Accomplish submittals at the beginning of the project to allow the proper ordering of materials for the project.
 - 1. Failure by the Contractor to provide submittals in a timely fashion does not change the project start date nor contract period.
- H. Any materials on the job site that have not been reviewed as part of the submittal process are subject to rejection / removal from the job-site. Any work undertaken without review of the submittal data is at the Contractor's risk and subject to rejection or replacement at no cost to the Owner if submittals are not in conformance with the project documents.
- I. Allow 7 days for review of submittal items.
- J. Allow space on submittals for Contractor and Architect review stamps.
- K. When revised for resubmission, identify changes made since previous submission.
- L. Distribute copies of reviewed submittals as appropriate (electronically as appropriate). Instruct parties to promptly report inability to comply with requirements.
- M. All submittals shall be completed within the first 30 days of the project.

1.3 SUBMITTALS/PRODUCT DATA / SHOP DRAWINGS

General: Submitted to Owner / RDA for review for limited purpose of checking for conformance with information given information expressed in the Contract Documents.

- A. Product Data/Shop Drawings:
 - 1. Submitted to RDA for review for limited purpose of checking for conformance with information given and design concept expressed in Contract Documents.
 - 2. All shop drawings shall be to scale, submit drawings on sheets no larger than 24-inch x 36 inch, all other product data can be on 8 ½ X 11-inch sheets.
- B. Samples for Review:
 - 1. Submitted to RDA for review and selection for aesthetic, color, or finish.
 - 2. Submit samples of finishes from full range of manufacturer's standard colors, textures, and patterns for Owners selection.
 - 3. Submit samples to illustrate functional and aesthetic characteristics of Product.
- C. Personnel/Other Contractors
 - 1. Submit a list of all subcontractors and on-site personnel with the list of lead contact and associated phone numbers.
 - 2. Submit emergency contact sheet with contacts for an emergency – 24/7 call list.
- D. Contract Items:
 - 1. Submit Certificate of Insurance, Worker's Comp Certificates as required by Owner.
 - 2. Submit bonds if applicable to the contract.
 - 3. Submit a written Construction Schedule / Implementation and Sequencing Plan outlining starting points and length of time to complete work in each section.
- E. Safety Data Sheets: Submit Safety Data Sheets [SDS] on all products to the Owner.
 - 1. Owner shall be responsible to provide to employees as applicable.
 - 2. Owner's representative /RDA does not review / approve any SDS sheets.
- F. Site Specific Safety Plan
 - 1. Provide to Owner for their Review.
- G. Site Logistics Plan
 - 1. Provide to Owner for their Review.

1.4 SAMPLES

- A. Physical Samples: Submit to Architect for review for limited purpose of checking for conformance with information given and design concept expressed in Contract Documents.
 - 1. Physical samples are required to allow Architect to make selections for color and finish. Electronic images of colors/finishes, etc. are not sufficient.
- B. Samples For Selection as Specified in Product Sections:
 - 1. Submit to Architect for aesthetic, color, or finish selection.
 - 2. Submit samples of finishes from full range of manufacturers' standard colors, textures, and patterns for Architect selection.
- C. Submit samples to illustrate functional and aesthetic characteristics of Products, with integral parts and attachment devices. Coordinate sample submittals for interfacing work.
- D. Include identification on each sample, with full Project information.
- E. Submit 2 copies of each sample, Architect will retain 1 copy.
- F. Reviewed samples which may be used in the Work are indicated in individual specification sections.

1.5 PROPOSED PRODUCTS LIST

- A. Within 5 days after date of Notice to Proceed, submit list of major products proposed for use, with name of manufacturer, trade name, and model number of each product.
- B. All products for the project shall be ordered in the first 30 days of the contract. Contractors' failure to order materials is not a reason for a time extension or selection of an alternate material. This is imperative to allow work as scheduled.
- C. For products specified only by reference standards, give manufacturer, trade name, model or catalog designation, and reference standards.

1.6 MANUFACTURER'S INSTRUCTIONS

- A. When specified in individual specification sections, submit manufacturer printed instructions for delivery, storage, assembly, installation, [start-up,] adjusting, and finishing, in quantities specified for Product Data.

1.7 MANUFACTURER'S CERTIFICATES

- A. When specified in individual specification sections, submit certifications by manufacturer to Owner, in quantities specified for Product Data.
- B. Indicate material or Product conforms to or exceeds specified requirements. Submit supporting reference data, affidavits, and certifications as appropriate.

1.8 CONSTRUCTION PHOTOGRAPHS

- A. Provide digital photographs of construction throughout progress of Work as taken by project superintendent as applicable to document the existing conditions, work in progress, completed work, project wrap up, etc. It is in the best interest of the contractor to document the conditions as this is an occupied unit project.
- B. Deliver photographs to Architect/Owner upon request on CD. Catalog and index in chronological sequence with date indexed.

END OF SECTION

THIS SHEET LEFT INTENTIONALLY BLANK

SECTION 01 40 00 - QUALITY REQUIREMENTS/PROJECT INSPECTION

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Quality control and control of installation.
- B. GDPM Construction Inspection Procedures
- C. Tolerances
- D. References.
- E. Mock-up requirements.
- F. Examination & Inspection.

1.2 QUALITY CONTROL AND CONTROL OF INSTALLATION

- A. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce Work of specified quality.
- B. Comply with manufacturers' instructions, including each step in sequence.
- C. When manufacturers' instructions conflict with Contract Documents, request clarification from Architect/Owner before proceeding.
- D. Comply with specified standards as minimum quality for the Work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.
- E. Perform Work by persons qualified to produce required and specified quality.
- F. Verify field measurements are as indicated on Shop Drawings or as instructed by manufacturer.
- G. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion, or disfigurement.

1.3 GDPM CONSTRUCTION INSPECTION PROCEDURES

- A. GDPM Staff have clear goals with regard to the importance of thorough construction inspection that ensures compliance with the bid documents. The compliance documents shall include the project specifications, drawings, contract, notice to proceed, codes, regulations and ordinances.
- B. GDPM intends for a GDPM Staff (Project Manager) and an A/E representative to routinely monitor the Contractor's work and progress on all projects. Quality control is an important element which is the responsibility of the Contractor. The Contractor shall provide full cooperation with all inspection steps through the construction process and include such coordination in the base bid of the project.
- C. Accessibility to the work shall be arranged by the Contractor. The necessary ladders, scaffolding, hoisting, etc shall be provided by the Contractor in order to make all areas of the work available to the construction inspector and consultant. The contractor shall have his authorized representative (superintendent) available to interface with and assist with the inspection process.
- D. Acceptance of Conditions:
 - 1. The construction inspector and consultant shall not allow work to proceed when there is a construction deficiency document in place that has not been cleared.

2. The construction inspector and consultant shall not allow work to proceed that requires mock-ups until such mock up is acceptable. Subsequent work in like kind shall be equal to or better than the mock-up.
- E. Prior to final completion, the contractor is to be required to inspect all of his work. He shall correct any deficiencies and enter a document that all of the contracted for work has been completed within the scope of the contract and request "final inspection" by the GDPM representative.**
- F. The final inspection shall result in either complete acceptance or generation of a punch list that is to be corrected in a timely manner and back punched by GDPM and the consultant.
- G. After review by GDPM Project Manager, GDPM will review project acceptance with site and senior staff for final acceptance of the project. This review may prompt additional punchlist work that may need to be completed.**
- H. If work that is clearly not complete, the Punchlist will be suspended until such time that it is evident that the Contractor has completed and reviewed/inspected their own work.**
- I. The final inspection acceptance shall include approval and sign-off by the construction inspector, construction coordinator and consultant. Sign off approvals
- J. The warranty blanketing the contract will not be allowed to commence until all work under the contract is completed and accepted for beneficial use by GDPM.
 1. This will be accomplished on a building by building basis.
- K. An anniversary inspection for the one year interval following acceptance of the project shall be performed and documented by the construction coordinator and consultant.

1.4 TOLERANCES

- A. Monitor fabrication and installation tolerance control of products to produce acceptable Work. Do not permit tolerances to accumulate.
- B. Comply with manufacturers' tolerances. When manufacturers' tolerances conflict with Contract Documents, request clarification from Architect before proceeding.
- C. Adjust products to appropriate dimensions; position before securing products in place.

1.5 REFERENCES

- A. For products or workmanship specified by association, trade, or other consensus standards, comply with requirements of standard, except when more rigid requirements are specified or are required by applicable codes.
- B. Conform to reference standard by date of issue current on date of Contract Documents, except where specific date is established by code.
- C. Obtain copies of standards where required by product specification sections.
- D. When specified reference standards conflict with Contract Documents, request clarification from Architect before proceeding.
- E. Neither contractual relationships, duties, nor responsibilities of parties in Contract nor those of Architect shall be altered from Contract Documents by mention or inference otherwise in reference documents.

1.6 MOCK-UP REQUIREMENTS

- A. Assemble and erect specified items with specified attachment and anchorage devices, flashings, seals, and finishes.

- B. Accepted mock-ups shall be comparison standard for remaining Work follow requirements of individual sections.
- C. Provide mockups of the work as directed / required by the Architect / GDPM.

PART 2 PRODUCTS

Not Used.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify existing site conditions and substrate surfaces are acceptable for subsequent Work. Beginning new Work means acceptance of existing conditions.
- B. Verify existing substrate is capable of structural support or attachment of new Work being applied or attached.
- C. Examine and verify specific conditions described in individual specification sections.
- D. Verify utility services are available, of correct characteristics, and in correct locations.

3.2 PREPARATION

- A. Clean substrate surfaces prior to applying next material or substance.
- B. Seal cracks or openings of substrate prior to applying next material or substance.
- C. Apply manufacturer required or recommended substrate primer, sealer, or conditioner prior to applying new material or substance in contact or bond.

END OF SECTION

THIS SHEET LEFT INTENTIONALLY BLANK

SECTION 01 50 00 - TEMPORARY FACILITIES AND CONTROLS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Temporary Utilities
- B. Construction Facilities
- C. Temporary Controls
- D. Removal of utilities, facilities, and controls

1.2 SITE CONTROL

- A. Coordinate site control and access with Owner.
- B. Contractor will have site control and shall maintain site / building control while work residents have been temporarily relocated to accomplish rehabilitation work. Building security shall be the responsibility of the contractor during this time.
- C. Contractor will maintain the site for lawn care, snow removal, etc. during the course of the project.

1.3 TEMPORARY UTILITIES

- A. Refer to GDPM's Terms and Conditions

1.4 TEMPORARY LIGHTING FOR CONSTRUCTION PURPOSES

- A. Provide and maintain temporary lighting for construction operations and for site security/access. Provide repairs as applicable.
- B. Provide and maintain additional lighting as required for construction operations.
- C. Permanent building lighting may be utilized during construction.

1.5 TEMPORARY HEATING/COOLING

- A. Provide temporary heating / cooling to facilitate the project. Pay for the cost to maintain temporary heating / cooling. Existing systems may remain in place until new systems are installed to the extent feasible.

1.6 TEMPORARY VENTILATION

- A. Ventilate enclosed areas to achieve curing of materials, to dissipate humidity, and to prevent accumulation of dust, fumes, vapors, or gases.
- B. Provide temporary fan units as required to maintain clean air for construction operations.

1.7 TELEPHONE SERVICE

- A. Provide, maintain, and pay for cellular telephone service for project superintendent.

1.8 EMAIL

- A. Provide email service for project superintendent. **Email communication will be an important tool for all information and communication on this project.**

1.9 TEMPORARY WATER SERVICE

- A. Connect to existing water source for construction operations.
- B. Extend branch piping with outlets located so water is available by hoses with threaded connections.

1.10 TEMPORARY SANITARY FACILITIES

- A. Provide temporary sanitary facilities for use during construction. Maintain daily in clean and sanitary condition.
 - 1. Contractor may not use resident toilet facilities for temporary facilities.
 - 2. Contractor may not use new plumbing fixtures for temporary facilities.
- B. Provide potable drinking water for workers.

1.11 FIELD OFFICES AND SHEDS

- A. Provide securable on-site space for storage as required by the contractor. Contractor shall coordinate with GDPM for approved location of such storage space. Obtain required right of way permits, etc. if storage is placed in street.
- B. Provide location where field drawings and related documents can be safely stored on-site out of weather to prevent damage.
- C. Provide field office for construction operations as deemed necessary by Contractor. Contractor shall pay for field offices and related expenses. One of the units to be modernized may be used.

1.12 VEHICULAR ACCESS

- A. Utilize existing street parking / driveways / parking areas for construction activities. Contractor shall not block or prohibit vehicular access to adjacent buildings / parking areas. Do not allow driving/parking in turf areas.
- B. Provide unimpeded access for emergency vehicles. Maintain 20 feet wide driveways with turning space between and around combustible materials.
- C. Provide and maintain access to fire hydrants and control valves free of obstructions.

1.13 PARKING

- A. Use of designated existing on-site driveways / street parking used for construction traffic is permitted. Tracked vehicles not allowed on paved areas. Do not block resident vehicles or those of adjacent buildings with a shared driveway.
- B. Use of designated areas of existing parking facilities used by construction personnel is permitted.
- C. Do not allow heavy vehicles or construction equipment in parking areas.
- D. Maintenance:
 - 1. Maintain traffic and parking areas in sound condition free of excavated material, construction equipment, products, mud, snow, and ice.
 - 2. Maintain existing and permanent paved areas used for construction; promptly repair breaks, potholes, low areas, standing water, and other deficiencies, to maintain paving and drainage in original, or specified, condition.
- E. Removal, Repair:
 - 1. Repair existing and permanent facilities damaged by use, to original or specified condition.

1.14 PROGRESS CLEANING AND WASTE REMOVAL

- A. Maintain areas free of waste materials, debris, and rubbish. Maintain site in clean and orderly condition **DAILY**.
- B. Remove debris and rubbish from pipe chases, plenums, attics, crawl spaces, and other closed or remote spaces, prior to enclosing spaces.

- C. Broom and vacuum clean interior areas prior to start of surface finishing, and continue cleaning to eliminate dust.
- D. Collect and remove waste materials, debris, and rubbish from site daily and dispose off-site. Sort and recycle as applicable.
- E. Provide dumpsters or trash containers needed for the proper removal of project materials, trash, or debris related to the work. Keep all work areas and project sites neat and free of trash and clutter at all times. Project site consists of occupied apartment units. Do not leave trash around the project site. Take all considerations necessary for safety.

1.15 PROTECTION OF INSTALLED WORK

- A. Protect installed Work and provide special protection where specified in individual specification sections. Restore any damaged work to new condition.

1.16 FIRE PREVENTION FACILITIES

- A. Prohibit smoking within building or on site under construction. **NO SMOKING IS PERMITTED ON SITE [INTERIOR OR EXTERIOR]. NO EXCEPTIONS.**
- B. Establish fire watch for cutting and welding and other hazardous operations capable of starting fires. Maintain fire watch before, during, and after hazardous operations until threat of fire does not exist.
- C. Portable Fire Extinguishers: NFPA 10; 10 pound capacity, 4A-60B: C UL rating.
 - 1. Provide one fire extinguisher at each building under construction.
 - 2. Provide minimum one fire extinguisher in storage shed.

1.17 BARRIERS

- A. Provide barriers to prevent unauthorized entry to construction areas.
- B. Protect non-owned vehicular traffic, stored materials, site, and structures from damage.
- C. Protect Work existing premises from theft, vandalism, and unauthorized entry.

1.18 SECURITY

- A. Security Program:
 - 1. Protect Work and existing premises from theft, vandalism, and unauthorized entry.
 - 2. Maintain program throughout construction period until Owner occupancy
- B. Entry Control:
 - 1. Restrict entrance of persons into Project site.
 - 2. Allow entrance only to authorized persons with proper identification.
 - 3. Maintain log of workers and visitors, make available to Owner on request.

1.19 DUST CONTROL

- A. Execute Work by methods to minimize raising dust from construction operations.
- B. Provide positive means to prevent air-borne dust from dispersing into atmosphere and to other areas of the unit. Provide temporary visqueen (or similar) dust control measures to minimize the spread of dust and debris. Provide drop cloths, protective coverings as necessary.

1.20 REMOVAL OF UTILITIES, FACILITIES, AND CONTROLS

- A. Remove temporary utilities, equipment, facilities, materials, prior to Substantial Completion inspection.
- B. Clean and repair damage caused by installation or use of temporary work.

- C. Restore existing and permanent facilities used during construction to original condition.
Restore permanent facilities used during construction to specified condition.

PART 2 PRODUCTS

Not Used.

PART 3 EXECUTION

Not Used.

END OF SECTION

SECTION 01 60 00 - PRODUCT REQUIREMENTS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Product requirements.
- B. Product options and substitution procedures.
- C. Equipment electrical characteristics and components.

1.2 PRODUCTS

- A. Furnish products of qualified manufacturers suitable for intended use. Furnish products of each type by single manufacturer unless specified otherwise.
- B. Do not use materials and equipment removed from existing premises, except as specifically permitted by Contract Documents.
- C. Furnish interchangeable components from same manufacturer for components being replaced.
- D. **Products shall be ordered in the first 30 days of the contract. Provide documentation of orders upon request.**
- E. **It shall be solely the Contractor's responsibility to order products to allow timely delivery for installation. The failure to order materials early in the project shall not be a reason for a contract time extension or additional costs related to expedited shipping and/or delivery. Nor shall this be a reason for a product substitution.**

1.3 LABELING

- A. Attach label from agency approved by authority having jurisdiction for products, assemblies, and systems required to be labeled by applicable code.
- B. Label Information: Include manufacturer's or fabricator's identification, approved agency identification, and the following information, as applicable, on each label.
 - 1. Model number.
 - 2. Serial number.
 - 3. Performance characteristics.

1.4 PRODUCT DELIVERY REQUIREMENTS

- A. Transport and handle products in accordance with manufacturer's instructions.
- B. Promptly inspect shipments to ensure products comply with requirements, quantities are correct, and products are undamaged.
- C. Provide equipment and personnel to handle products by methods to prevent soiling, disfigurement, or damage.

1.5 PRODUCT STORAGE AND HANDLING REQUIREMENTS

- A. Store and protect products in accordance with manufacturers' instructions.
- B. Store with seals and labels intact and legible.
- C. Store sensitive products in weather tight, climate controlled, enclosures in an environment favorable to product.
- D. For exterior storage of fabricated products, place on sloped supports above ground.
- E. Cover products subject to deterioration with impervious sheet covering. Provide ventilation to prevent condensation and degradation of products.

- F. Store loose granular materials on solid flat surfaces in well-drained area. Prevent mixing with foreign matter.
- G. Provide equipment and personnel to store products by methods to prevent soiling, disfigurement, or damage.
- H. Arrange storage of products to permit access for inspection. Periodically inspect to verify products are undamaged and are maintained in acceptable condition.

1.6 PRODUCT OPTIONS

- A. Products Specified by Reference Standards or by Description Only:
 - 1. Any product meeting those standards or description.
- B. Products Specified by Naming One or More Manufacturers with NO Provision for "Approved Equal":
 - 1. Products of one of the manufacturers named and meeting specifications, NO options or substitutions allowed.
- C. Products Specified by Naming One or More Manufacturers with Provision for "Equal / Approved Equal" Substitutions :
 - 1. Products of one of manufacturers named and meeting specifications.
 - 2. Submit request for substitution [Approved Equal] for any manufacturer not named in accordance with "Product Substitution Procedures".

1.7 PRODUCT SUBSTITUTION PROCEDURES – REFER TO SECTION 01 25 00

PART 2 PRODUCTS

2.1 EQUIPMENT ELECTRICAL CHARACTERISTICS AND COMPONENTS

- A. Wiring Terminations: Furnish terminal lugs to match branch circuit conductor quantities, sizes, and materials indicated. Include lugs for terminal box.
- B. Cord and Plug: Furnish minimum 6 foot cord and plug including grounding connector for connection to electric wiring system. Cord of longer length is specified in individual specification sections.

2.2 TOLERANCES

- A. Monitor fabrication and installation tolerance control of installed Products over suppliers, manufacturers, Products, site conditions, and workmanship, to produce acceptable Work. Do not permit tolerances to accumulate.
- B. Comply fully with manufacturer's tolerances.

PART 3 EXECUTION

Not Used.

END OF SECTION

SECTION 01 70 00 - EXECUTION AND CLOSEOUT REQUIREMENTS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Close-out of the actual work, including warranties, project record documents and operations / maintenance manuals, and final cleaning. Close-out of all contract obligations.

1.2 CLOSEOUT PROCEDURES

- A. Notify Owner five [5] days prior to the work being complete to establish the desired inspection date. Owner / RDA will either proceed with the inspection or notify Contractor of unfulfilled requirements.
 - 1. Submit written certification that Contract Documents have been reviewed, Work has been inspected, and that Work is complete in accordance with Contract Documents and ready for punch list inspection.
- B. Owner / RDA shall inspect the completed project and notify the Contractor of any deficiencies. Deficiencies will form 'punch list' for final acceptance.
- C. Provide submittals to Owner required by authorities having jurisdiction.
- D. Submit final Application for Payment identifying total adjusted Contract Sum, previous payments, and sum remaining due.

1.3 PUNCHLIST REQUIREMENTS

- A. Review and inspect all work prior to notifying the Owner for a Punchlist inspection of the work. Provide written documentation certifying review along with documentation of Contractor generated Punchlist.
- B. If work is clearly not complete, the Punchlist will be suspended until such time that it is evident that the Contractor has completed and reviewed/inspected their own work.**
 - 1. RDA anticipates [1] punchlist inspection and [1] back-punch / final inspection as part of our services to the Owner.
 - 2. Failures by the Contractor to complete the work, complete punchlists, etc. may result in a backcharge to the Contractor for the additional time to closeout the project.
- C. Review and provide the noted repairs and corrective work necessary at each of the Punchlist inspections to allow project close out.
 - 1. Back-punch walk through may result in additional punchlist items which need to be addressed by the Contractor.
- D. Provide adequate time in the construction schedule to accomplish punchout work within the overall contract period indicated within the bid documents.
- E. The failure to identify any punchlist item during a walk through / inspection does not release the Contractor from contractual responsibility to address any item during the warranty period.

1.4 SUBSTANTIAL COMPLETION

- A. Certificate of Substantial Completion will be issued upon completion of all the work.

1.5 PREREQUISITES TO FINAL ACCEPTANCE AND PAYMENT

- A. Prior to acceptance and final payment, all claims or disputes must have been resolved and the Contractor must have provided the following items to the Owner:
 - 1. Notarized affidavit of waiver of liens [contractor of record], sub-contractors and material suppliers
 - 2. Certificates of release from authorities having jurisdiction over permitting.
 - 3. Final statement of charges [100% application for payment].

- a. Submit a final Application for Payment according to Section 01 29 00, Payment Procedures.
4. Documented evidence of completing 'punch list' as applicable.
5. Manufacturer's original warranties [copy to RDA].
6. Evidence that claims have been settled.
7. O+M Manuals including Manufacturer's maintenance and repair instructions.
8. Manufacturer's maintenance and repair instructions.
9. Record Drawings.
10. Final cleaning of all work areas:
11. Restore all work staging and lay-out areas to pre-construction conditions, including but not limited to, removal of debris, temporary facilities, grading and grass seeding and cleaning or repair of impacted structures.

1.6 PHOTOGRAPHIC DOCUMENTATION

- A. When requested by the Owner, photos of the completed punch list along with any supporting documentation can be submitted, in lieu of a final walkthrough.

1.7 PROJECT RECORD DOCUMENTS

- A. Maintain on site one set of the following record documents; record actual revisions to the Work:
 1. Drawings.
 2. Specifications.
 3. Addenda.
 4. Change Directives/Orders and other modifications to the Contract.
 5. Reviewed Shop Drawings, Product Data, and Samples.
 6. Manufacturer's instruction for assembly, installation, and adjusting.
- B. Ensure entries are complete and accurate, enabling future reference by Owner.
- C. Store record documents separate from documents used for construction.
- D. Record information concurrent with construction progress, not less than weekly.
- E. Specifications: Legibly mark and record at each product section description of actual products installed, including the following:
 1. Manufacturer's name and product model and number.
 2. Product substitutions or alternates utilized.
 3. Changes made by Addenda and modifications.
- F. Submit documents to Architect.

1.8 PROJECT WARRANTIES

- A. General: Original warranties are required to be provided to the Owner prior to final payment.
- B. Submit two sets prior to final inspection or when available, bound in 8-1/2 x 11-inch text pages, binder covers.
- C. Prepare binder cover with printed title "WARRANTIES" and title of project.
- D. Bind warranties in a heavy duty three ring loose leaf binder. Provide a typed description of the product under warranty and phone number of the installer.
- E. General: The warranty and guarantee provisions of the General Conditions apply to all work of the contract, including but not limited to the following specific categories related to individual units of work specified in various sections of these specifications:
 1. **Refer to GDPM Contract Requirements / Terms and Conditions for additional information / requirements.**

2. Special Project Warranty (Guarantee): A warranty specifically written and signed by the Contractor for a defined portion of the work, and, where required, countersigned by sub-contractor, installer, manufacturer, or other entity engaged by the Contractor.
 3. Specified Product Warranty: A warranty which is required by the contract documents, to be provided for a manufactured product incorporated in the Work, regardless of whether manufacturer has published a similar warranty without regard for specific incorporation into the work, or has written and executed a special project warranty as a direct result of contract document requirements.
 4. Coincidental Product Warranty: A warranty which is not specifically required by the Contract Documents (other than as specified in this Section); but which is available on a product incorporated into the work, by virtue of the fact that the manufacturer of the product has published a warranty in connection with purchases and users of the product without regard for specific applications except as otherwise limited by terms of the warranty.
- F. All work undertaken as part of the project shall be warranted for a period of not less than [1] year. Individual sections / products may have specific additional warranty requirements.
- G. Provide notarized copies of warranty documents to the Owner.
1. Execute and assemble transferable warranty documents from subcontractors, suppliers, and manufacturers.
- H. Original warranties are required to be provided to the Owner prior to final payment.

1.9 OPERATION AND MAINTENANCE DATA

- A. Submit TWO sets prior to final inspection, bound in 8-1/2 x 11 inch text pages, three D side ring binders with durable plastic covers.
1. **Submit one copy for review by the Architect/Owner, electronic submission preferred.** Submit at 75% of overall gross contract completion. Failure to submit O+M at this point will delay Applications for Payment.
 2. Prepare one final copy upon approval and correction of any missing or deficient items by the Architect/Owner.
 3. Provide (2) CDs of the O+M Manual in PDF format that is formatted and organized to match the hard copy.
- B. Prepare binder cover with printed title "OPERATION AND MAINTENANCE INSTRUCTIONS" and title of project. Label on the front and spine of the binder.
- C. Internally subdivide binder contents with permanent page dividers, logically organized, with tab titles legibly printed under reinforced laminated plastic tabs.
- D. Contents:
1. Part 1: Directory, listing names, addresses, and telephone numbers of Architect/Engineer, Contractor, subcontractors, and major equipment suppliers.
 2. Part 2: Permit and Inspection Information
 3. Part 3: Project submittals, organized by CSI division
 4. Part 4: Operation and maintenance instructions, arranged by system.
 - a. Building Products, Equipment, Applied Materials, and Finishes: Include product data, with catalog number, size, composition, and color and texture designations.
 - b. Each Item of Equipment and Each System: Include description of unit or system, and component parts. Identify function, normal operating characteristics, and limiting conditions. Include performance curves, with engineering data and tests, and complete nomenclature and model number of replaceable parts.
 - c. Operating Procedures: Include start-up, break-in, and routine normal operating instructions and sequences. Include regulation, control, stopping, shut-down, and emergency instructions. Include summer, winter, and special operating instructions.

- d. Instructions for Care and Maintenance: Include manufacturer's recommendations for cleaning agents and methods, precautions against detrimental agents and methods, and recommended schedule for cleaning and maintenance.
- e. Maintenance Requirements: Include routine procedures and guide for preventative maintenance and trouble shooting; disassembly, repair, and reassembly instructions; and alignment, adjusting, balancing, and checking instructions.
- f. Include original manufacturer's parts list, illustrations, assembly drawings, and diagrams required for maintenance.
- g. Include original shop drawing submittals, fold larger submittals to fit into binder.
- 5. Part 5: Project documents and certificates.
 - a. Obtain warranties and bonds executed in duplicate by responsible subcontractors, suppliers, and manufacturers.
- 6. Part 6: Colors / finishes / samples
- 7. Part 7: Other documentation required.

1.10 FINAL CLEANING

- A. Execute final cleaning on a **unit by unit** basis at completion of work in each unit prior to final project assessment / punch list inspection.
 - 1. Clean interior and exterior surfaces exposed to view.
 - 2. Remove manufacturer or temporary labels, stains, and foreign substances from surfaces.
 - 3. Polish transparent and glossy surfaces.
 - 4. Vacuum carpeted and soft surfaces.
 - 5. Clean interiors of all cabinetry.
 - 6. Clean all fixtures and finishes.
 - 7. Replace filters of operating equipment.
 - 8. Clean equipment and fixtures to sanitary condition with cleaning materials appropriate to surface and material being cleaned.
 - 9. Clean site; sweep paved areas, rake clean landscaped surfaces.
 - 10. Remove waste and surplus materials, rubbish, and construction facilities from site.
- B. Restore all work staging and lay-out areas to pre-construction conditions, including but not limited to, removal of debris, temporary facilities, grading and grass seeding and cleaning or repair of impacted structures.

1.11 STARTING OF SYSTEMS

- A. Coordinate schedule for start-up of various equipment and systems.
- B. Notify RDA and GDPM seven [7] days prior to start-up of each item.
- C. Verify each piece of equipment or system has been checked for proper lubrication, drive rotation, belt tension, control sequence, and for conditions which may cause damage.
- D. Verify tests, meter readings, and specified electrical characteristics agree with those required by equipment or system manufacturer.
- E. Verify wiring and support components for equipment are complete and tested.
- F. Execute start-up under supervision of applicable Contractor's personnel in accordance with manufacturer's instructions.

1.12 DEMONSTRATION AND INSTRUCTIONS

- A. Demonstrate operation and maintenance of Products to Owner's personnel prior to date of Substantial Completion.
- B. For equipment or systems requiring seasonal operation, perform demonstration for other season within six months.

- C. Demonstrate start-up, operation, control, adjustment, trouble-shooting, servicing, maintenance, and shutdown of each item of equipment at scheduled times, at Project Site location.
- D. Utilize operation and maintenance manuals as basis for instruction. Review contents of manual with Owner's personnel in detail to explain all aspects of operation and maintenance.
- E. Demonstrate start-up, operation, control, adjustment, trouble-shooting, servicing, maintenance, and shutdown of each item of equipment at scheduled time at equipment location/project site.
- F. Prepare and insert additional data in operations and maintenance manuals when need for additional data becomes apparent during instruction.

1.13 TESTING, ADJUSTING AND BALANCING

- A. Adjust operating products and equipment to ensure smooth and unhindered operation.

1.14 PROTECTING INSTALLED CONSTRUCTION

- A. Protect installed Work and provide special protection where specified in individual specification sections.
- B. Provide temporary and removable protection for installed products. Control activity in immediate work area to prevent damage.
- C. Provide protective coverings at walls, projections, jambs, sills, and soffits of openings.
- D. Protect finished floors, stairs, and other surfaces from traffic, dirt, wear, damage, or movement of heavy objects, by protecting with durable sheet materials.
- E. Prohibit traffic from landscaped areas.

1.15 SPARE PARTS AND MAINTENANCE PRODUCTS

- A. Furnish spare parts, maintenance, and extra products in quantities specified in individual specification sections.
- B. Deliver to Owner and place in location as directed; obtain receipt prior to final payment. Items shall be boxed and labeled with contents.

PART 2 PRODUCTS

Not Used.

PART 3 EXECUTION

Not Used.

END OF SECTION

THIS SHEET LEFT INTENTIONALLY BLANK

SECTION 02 41 16 - SELECTIVE DEMOLITION

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Demolishing designated building equipment and fixtures.
 - 2. Demolishing designated construction.
 - 3. Cutting and alterations for completion of the Work.
 - 4. Removing designated items for salvage by GDPM.
 - 5. Protecting items designated to remain.
 - 6. Removing demolished materials.

1.2 CLOSEOUT SUBMITTALS

- A. Project Record Documents: Record actual locations of capped utilities, concealed utilities discovered during demolition and any subsurface obstructions or conditions that require noting.

1.3 QUALITY ASSURANCE

- A. Conform to applicable code for demolition work, dust control, protection, products requiring electrical disconnection and re-connection

1.4 SCHEDULING

- A. Schedule Work to coincide with improvements of the unit.
- B. Coordinate utility and building service interruptions with Owner.
- C. Do not disable or disrupt site fire or life safety systems without three days prior written notice to Owner.
- D. Schedule tie-ins to existing systems to minimize disruption.

1.5 PROJECT CONDITIONS

- A. Cease operations immediately if structure appears to be in danger and notify Architect. Do not resume operations until directed.

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

3.1 PREPARATION

- A. Notify affected utility companies before starting work and comply with their requirements.
- B. Call Local Utility Line Information service not less than three working days before performing Work.
 - 1. Request underground utilities to be located and marked within and surrounding construction areas. Supplement with private locator company as is applicable and required to fully locate and identify existing underground utilities, including both public and private.
- C. Mark location and termination of utilities.
- D. Erect, and maintain temporary barriers and security devices including warning signs and lights, and similar measures, for protection of the public, Owner, and existing improvements indicated to remain.

- E. Erect and maintain weatherproof closures for exterior openings as applicable to work/scope.
- F. Erect and maintain temporary partitions.
- G. Prevent movement of structure; provide temporary bracing and shoring as required.
- H. Provide appropriate temporary signage.
- I. Do not close or obstruct building egress path.
- J. Do not disable or disrupt building fire or life safety systems without **three** days prior written notice to Owner. Coordinate with Fire Department / Building Official.
- K. Protect existing structure / items to remain.

3.2 SALVAGE REQUIREMENTS

- A. Coordinate with Owner to identify building components and equipment required to be removed and delivered to Owner.
- B. Tag components and equipment Owner designates for salvage.
- C. Protect designated salvage items from demolition operations until items can be removed.
- D. Carefully remove building components and equipment indicated to be salvaged.
- E. Disassemble as required to permit removal from building.
- F. Package small and loose parts to avoid loss.
- G. Mark equipment and packaged parts to permit identification and consolidation of components of each salvaged item.
- H. Prepare assembly instructions consistent with disassembled parts. Package assembly instructions in protective envelope and securely attach to each disassembled salvaged item.
- I. Deliver salvaged items to location identified by GDPM. Obtain signed receipt from GDPM.

3.3 RECYCLING AND WASTE REDUCTION

- A. Implement measures to reduce waste going to Landfills by creating a recycling and waste reduction plan for all demolition activities.
- B. Sort demolition debris as applicable to separate different salvageable and recyclable materials.
- C. Provide necessary hauling and coordination to such facilities.
- D. Identify materials to be recycled as part of the project and submit an itemized list to the Architect/Owner along with the location. Submit proposed documentation prior to the start of work.
- E. Continuous recycling and waste reduction throughout the course of construction.
- F. Provide area designated for sorting of materials in an effort to maximize the potential recycling efforts.
- G. Maintain a log of waste refuse by type/weight/volume and of recycling efforts by the same.

3.4 DEMOLITION

- A. Provide all demolition and removals necessary for the proposed work. Field coordinate all conditions with the design intend on the drawings.
 - 1. Drawings are diagrammatic and may not reflect the full extent of demolition / removals required to accomplish the proposed scope of work.

2. The Contractor shall coordinate design intent and verify that all demolition work and restoration / repair work required is included in the scope of the project, regardless of specifically being noted on the drawings.
 3. Work includes abandoned furnishings, equipment, building components that are required to be removed to render rent ready.
 4. Confirm with GDPM personnel prior to demolition to verify any items to be salvaged and turned over to GDPM.
- B. Provide abatement of hazardous materials from the buildings as applicable for the completion of the work. Refer to the requirements of the report by Mac Paran Consulting.
 - C. Conduct demolition to minimize interference with adjacent and occupied buildings/units.
 - D. Maintain protected egress from and access to adjacent existing buildings/units at all times.
 - E. Cease operations immediately when structure appears to be in danger and notify Architect/Engineer.
 - F. Disconnect and remove utilities within demolition areas, refer to Drawings.
 - G. Cap and identify abandoned utilities at termination points when utility is not completely removed.
 - H. Do not close or obstruct roadways or sidewalks without permits.
 - I. Demolish in orderly and careful manner. Protect existing improvements.
 - J. Carefully remove building components indicated to be reused.
 - K. See drawings for items to be salvaged and turned over to GDPM.
 - L. Disassemble components as required to permit removal.
 - M. Box and label contents for all items scheduled to salvage. Obtain sign off.
 - N. Remove demolished materials from site except where specifically noted otherwise. Do not burn or bury materials on site.
 - O. Remove materials as Work progresses. Upon completion of Work, leave areas in clean condition.
 - P. Remove temporary Work.

3.5 CLEAN UP

- A. Remove demolished materials from site as work progresses.
- B. Leave areas of work in clean condition.

END OF SECTION

THIS SHEET LEFT INTENTIONALLY BLANK

SECTION 02 41 19 - SEALERS

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Sealers for smoke damage to framing and finishes.

1.2 SUBMITTALS

- A. Product Data: Submit data for each sealer, application, and accessories.

1.3 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing products specified in this section with minimum three years experience.
- B. Installer: Company specializing in performing Work of this section with minimum three years experience.

PART 2 PRODUCTS

2.1 SEALERS

- A. Shellac Base Primer / Sealer: Zinzzler B-I-N Shellac Based Primer by Rustoleum or Equal
 - 1. Shellac Base
 - 2. Weight per gallon: 9.8 lbs/gal
 - 3. Solids by weight: 51.0%
 - 4. Solids by Volume: 29.0%
 - 5. DFT: 075-0.9 mils per coat

2.2 HOT THERMAL FOG

- A. Concentrated, solvent based odor removal chemical formulated for application via thermal fogging apparatus: ODORx Thermo 55 by ProRestore or Equal
- B. Thermal Fogger: as applicable to produce a dry fog at a particle size of 0.25 to 0.50 microns. Small particle size allows for complete penetration of the contaminated surfaces as well as reduction of airborne odor particles.

PART 3 EXECUTION

3.1 APPLICATION

- A. Remove existing finishes as specified on drawings / scope of work.
- B. Soda-blast, scrape, etc. charring from exposed floor trusses as required by the conditions. Report framing deficiencies to Architect.
- C. Surfaces should be clean, dry, sound, and free of excess dust, dirt, chalky material, grime, grease, oil, wax, mildew, contamination that interfere with adhesion.
- D. Follow all installation / application instructions from the product manufacturer.
- E. Apply [1] coat of primer / sealer to all exposed surfaces to seal in smoke / odor.
- F. Apply dry fog of the attic space with thermal fogger to seal in smoke / odor.
- G. Apply additional applications as necessary to completely seal / block all odors.

END OF SECTION

THIS SHEET LEFT INTENTIONALLY BLANK

SECTION 02 50 00 - HAZARDOUS MATERIALS SPECIFICATIONS

PART 1 GENERAL

1.1 SAMPLING

- A. Turn Key Environmental provided sampling of the existing building materials including asbestos and lead based paint. Additionally, Turn key environmental provided Phase 1 Environmental Report for the Property [available upon request]
- B. Mac Paran Consulting provided sampling of the existing building materials including radon and lead piping.
- C. Copies of these reports are attached for review and inclusion into the scope of the project as is applicable.

1.2 SUMMARY

- A. Contractor shall provide the appropriate abatement of the identified materials per the reports / specifications prepared by the Environmental Consultants that follow this section, using industry standard practices as identified for the proper execution of the proposed renovations to the buildings. Contractor shall provide all necessary protection, air clearance testing, removal, and disposal.
- B. Contractors must comply with Occupational Safety and Health Administration regulation 29 CFR 1926.62 "Lead in Construction Standard" as well as the Environmental Protection Agency Lead, Renovation, Repair and Painting Rule.
- C. Contractor shall follow all applicable EPA rules and regulations when working with hazardous materials. It shall be the contractor's responsibility to remain in compliance at all times during the project.
- D. Hazardous materials exist at various areas of the project site as identified.
- E. If any work person encounters any material which they suspect may be hazardous or toxic, they shall immediately advise the Owner. The contractor shall take immediate and appropriate action to protect the building users and workers in accordance w/ federal, state, and local laws, codes and regulations. The architect and architect's consultants shall have no responsibility for the discovery, presence, handling, removal or disposal of or exposure of persons to hazardous materials in any form at the projects site, including but not limited to asbestos, asbestos products, polychlorinated biphenyl (pcb) or other toxic substances.
 - 1. The contractor is hereby advised that RDA Group Architects, LLC is not a design professional in the determination of the presence of hazardous materials, nor is RDA a design professional involved in making recommendations regarding the testing, removal, encapsulation or other corrective measures pertaining to hazardous materials.
 - 2. If the work which is to be performed under the contract interfaces in any way with the existing components which contain hazardous materials, it is the contractor's responsibility to contact the owner's environmental consultant regarding the proper means & methods to be utilized in dealing with hazardous materials.
 - 3. By execution of the contract for construction, the contractor hereby agrees to bring no claim for negligence, breach of contract, indemnity or otherwise against the architect, his principles, employees, agents or consultants if such a claim in any way would involve the investigation of or remedial work related to hazardous materials in the project.
 - 4. By execution of the contract for construction, the contractor further agrees to defend, indemnify and hold the architect, his principles, employees, agents or consultants harmless from any such asbestos or other hazardous materials related claims that may be brought by the contractor's subcontractors, suppliers or other third parties who may be acting under the direction of the contractor pursuant to this project.

1.3 EXECUTION

- A. Contractor shall be fully responsible for the proper removal and disposal of materials. All work shall be performed by trained individuals in accordance with the requirements of this Section, all current Federal, State, and Local laws/regulations.

END OF SECTION

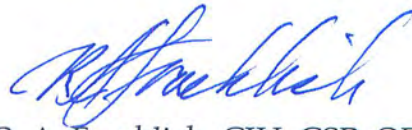
**LEAD-BASED PAINT
INSPECTION OF THE
21 PARNELL BUILDING,
DAYTON, OHIO 45403**

Prepared for

Mr. Bill Treasure
Turn-Key Environmental Consultants, Inc.
790 Barnhart Road
Vandalia, Ohio 45373

Prepared by

HELIX ENVIRONMENTAL, INC.
1 Elizabeth Place, Suite 160
Dayton, Ohio 45417
(937) 226-0650



R. A. Froehlich, CIH, CSP, QEP
President

Site Visit: March 25-29, 2019
Report Date: April 16, 2019

Helix 6842



TABLE OF CONTENTS

| | |
|-----------------------------------------------|----|
| 1. EXECUTIVE SUMMARY..... | 2 |
| 2. INTRODUCTION | 4 |
| 3. INSPECTION AND MEASUREMENT PROCEDURES..... | 6 |
| 4. APPLICABLE REQUIREMENTS..... | 7 |
| 5. MEASUREMENT RESULTS..... | 8 |
| 6. DISCUSSION AND RECOMMENDATIONS | 89 |
| 7. APPENDICES | 95 |

1. EXECUTIVE SUMMARY

On March 18, 2019, Turn-Key Environmental Consultants, Inc. contracted with Helix Environmental, Inc. to perform a Lead-Based Paint Inspection of a 12-unit apartment building at 21 Parnell Avenue, Dayton, Ohio. Between March 25 and 29, 2019, lead measurements were made of all accessible painted surfaces of each room-equivalent in the apartments and common areas using a calibrated X-Ray Fluorescence Spectrum Analyzer (XRF) to document the lead content of painted surfaces.

A total of 2,274 lead measurements were made with the XRF Analyzer, including both paint film locations and quality assurance measurements. Of these, only 113 measurements indicated lead concentrations above 1 mg/cm², the HUD definition of Lead-Based Paint. A significant number of elevated lead levels were associated with white ceramic tiles above kitchen sinks and around bathtubs. Lead-Based Paint was measured in each apartment in one or more locations.

The relatively low number of Lead-Based Paint measurements is an indication that past efforts to reduce the number of identified Lead-Based Paint hazards in the building have been successful. Additional abatement, however, is still needed to ensure that all apartments are free from "Lead-Based Paint" hazards.

A list of locations where XRF measurements indicate that Lead-Based Paint is present is presented in the Discussion and Recommendations section of the report.

Based on the sampling results, Helix Environmental, Inc. recommends:

- 1. Schedule Lead-Based Paint abatement during upcoming renovations of the inspected apartments and common spaces.** Lead-Based Paint abatement can reduce the potential for lead poisoning in children six years old and younger. Abatement can use several methods to achieve a "permanent" removal of a Lead-Based Paint hazard: paint removal, encapsulation, enclosure or replacement. It may be necessary to temporarily remove tenants from the apartment in order to perform abatement depending on the location of the lead abatement and the time needed to perform the abatement and cleaning of the work area.
- 2. Consider airborne lead exposure monitoring whenever abatement is performed in an occupied unit.** Measurements should be made using calibrated sampling equipment under the supervision of a Certified Industrial Hygienist. Laboratory analyses should be performed by an AIHA-accredited industrial hygiene laboratory to ensure valid measurement results.
- 3. Hire an independent licensed consultant to perform clearance inspections and surface sampling after abatement to document that the abatement was performed as designed, and that surface contamination levels are less than the clearance criteria before the contractor is allowed to remove engineering controls or containments.** Lead clearance inspections and testing must be performed by an Ohio-licensed Lead Paint Inspector or Lead Risk Assessor.

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

- 4. Until the identified Lead-Based Paint hazards have been abated, maintain paint in an undamaged condition by painting damaged paint to stabilize it from further deterioration, and by correcting water intrusions where necessary. Paint in an intact or good condition presents little potential for lead poisoning in children six years and younger.**

2. INTRODUCTION

On March 18, 2019, Turn-Key Environmental Consultants, Inc. contracted with Helix Environmental, Inc. to perform a Lead-Based Paint Inspection of a 12-unit apartment building at 21 Parnell Avenue, Dayton, Ohio. Between March 25 and 29, 2019, lead measurements were made of all accessible painted surfaces of each room-equivalent in the apartments and common areas using a calibrated X-Ray Fluorescence Spectrum Analyzer (XRF) to document the lead content of painted surfaces.

This report summarizes the results for the Lead-Based Paint Inspection of the apartment building. The apartments included:

- 9 Parnell Avenue, Apartment A,
- 9 Parnell Avenue, Apartment B,
- 11 Parnell Avenue, Apartment A,
- 11 Parnell Avenue, Apartment B,
- 1202 Huffman Avenue, Apartment A,
- 1202 Huffman Avenue, Apartment B,
- 1204 Huffman Avenue, Apartment A,
- 1204 Huffman Avenue, Apartment B,
- 1208 Huffman Avenue, Apartment A,
- 1208 Huffman Avenue, Apartment B,
- 1210 Huffman Avenue, Common Areas (Hall, Basement, Stairs)
- 1210 Huffman Avenue, Apartment A, and
- 1210 Huffman Avenue, Apartment B.

The apartment is a 15,672 SF masonry-sided two-story plus basement apartment building with 12 two-bedroom apartments. The building is located in a residential neighborhood east of downtown Dayton, Ohio. The structure was built in 1952 according to county auditor records. The building has replacement aluminum or vinyl windows and has been managed and maintained by Greater Dayton Premier Management and previous owners. Each apartment includes two bedrooms and one bathroom, in addition to a kitchen, combined living/dining room and basement laundry/storage area. Paint within the apartments ranged from poor to excellent condition, with damaged or deteriorated paint found in few locations. Floors in the apartments were covered with vinyl floor tiles or carpeted, with the exception of the stairs which were varnished or painted wood and the basement where the concrete floor was bare or painted. An exterior porch area is located on the street side of the building and provides an entrance to two apartments. Access to each apartment entrance is from either Parnell Avenue or Huffman Avenue. Exterior soffits were covered with aluminum coil stock.

Measurements were made in each room equivalent, with the surface location described as "A" for the street side, "B" for the left side of A, "C" for the left side of B, and "D" for the left side of C, rotating in a clockwise direction as seen from above. For example, the A side wall of the Kitchen at 9 Parnell Avenue, Apartment A, is the east wall towards the front of the apartment. Ceiling and floor measurements were made in the

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

approximate center of the surface. Both painted surfaces, varnished surfaces and ceramic surfaces were measured.

Since the apartments were occupied during the inspection, attempts were made to measure readily accessible surfaces. Where occupant possessions were placed to impede access to surfaces at measurement locations, no measurements were made to avoid liability for potential damage to possessions. As a result, some components of specific rooms could not be measured.

Ohio Law (Section 5301.30 of the Ohio Revised Code) requires every person who intends to transfer any residential real property by sale, land installment contract, lease with option to purchase, exchange or lease for a term of ninety nine years and renewable forever, to complete and provide a copy to the prospective transferee of the applicable property disclosure forms, disclosing known hazardous conditions of the property, including lead based paint hazards.

Federal Law (24 CFR Part 30 and 40 CFR, Part 745) requires sellers and lessors of residential units constructed prior to 1978, except housing for the elderly or persons with disabilities (unless any child who is less than six years of age resides or is expected to reside in such housing) or any zero bedroom dwelling, to disclose and provide a copy of this report to new purchasers or lessees before they become obligated under a lease or sales contract. Property owners and sellers are also required to distribute an educational pamphlet approved by the United States Environmental Protection Agency and include standard warning language in leases or sales contracts to ensure that parents have the information they need to protect children from lead hazards.

Mr. Ralph A. Froehlich, CIH, CSP, QEP assisted by Mr. Benjamin Froehlich, Industrial Hygienist performed the lead-based paint inspection. Mr. Froehlich is a Certified Industrial Hygienist, Certified Safety Professional, and Quality Environmental Professional with more than thirty years experience in the fields of occupational and environmental health. Mr. Ben Froehlich, IH has more than ten years experience in industrial hygiene. Mr. Jonathan Riedel of Greater Dayton Premier Management arranged for the site visit and provided access to the site and information on the processes during the site visit.

3. INSPECTION AND MEASUREMENT PROCEDURES

The lead-based paint inspection was performed by Mr. Ralph A. Froehlich, CIH, CSP, QEP of Helix Environmental, Inc. Mr. Froehlich is a Certified Industrial Hygienist, Certified Safety Professional and a Qualified Environmental Professional with more than thirty years experience in the fields of environmental and occupational health. Mr. Froehlich is licensed as a Lead Risk Assessor by the Ohio Department of Health (OH LA-000559).

XRF measurements were made using an Olympus Innov-X XRF Alpha 4000 Classic ROHS Spectrum Analyzer (SN 170710, IE Rents B19244B) according to the manufacturer's instructions. Standardization was performed successfully upon startup, and triplicate calibrations were made. Calibration checks were also successfully performed during measurement cycles, and, where possible, at the end of measurement cycles. Calibration checks were made at intervals of less than four hours.

Calibration measurements were made of National Institute for Standards and Technology (NIST®) Standard Reference Materials with known lead concentration (NIST® SRM 2570 White with 0.0 mg Pb/cm² and NIST® SRM 2573 Red with 1.040 mg Pb/cm²). A Performance Characteristic Sheet for the Innov-X LBP4000 was developed by the Midwest Research Institute and QuanTech, Inc. for U. S. Environmental Protection Agency (EPA) and the U. S. Department of Housing and Urban Development (HUD).

The condition of the materials was rated as to the extent of paint deterioration on each component during the lead inspection. Please refer to Table 1 for a complete description of the rating categories (intact, fair, poor) for painted surfaces. Tables 2-14 documents the lead content of representative painted surfaces in separate apartments or common areas measured using the XRF. The Building Condition Form, which documents the overall condition of the apartment as observed by the Lead Risk Assessor, is attached as well.

4. APPLICABLE REQUIREMENTS

The U.S. Department of Housing and Urban Development (HUD) has adopted 0.5% or 5,000 ppm by weight as indicative of the presence of Lead-Based Paint, when analyzed by chemical methods. In addition, HUD identifies lead paint concentrations of 1.0 mg/cm² as Lead-Based Paint when measured by certified calibrated XRF spectrometers. ("Lead-Based Paint: Interim Guidelines for Hazard Identification and Abatement in Public and Indian Housing," April, 1990.) The Ohio Department of Health (ODH) has also adopted these definitions of Lead-Based Paint.

5. MEASUREMENT RESULTS

TABLE 1: DEFINITIONS FOR ASSESSING PAINTED SURFACE CONDITION.

| | |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Intact | No peeling paint on the component. Entire surface is intact. |
| Fair | For large components, such as walls, ceilings, floors, and doors: less than or equal to 2 square feet of peeling or damaged paint. For small components, such as baseboards, moldings, and window frames: less than or equal to 10% of the total surface area has peeling or damaged paint. |
| Poor | For large components, such as walls, ceilings, floors, and doors: more than 2 square feet of peeling or damaged paint. For small components, such as baseboards, moldings, and window frames: more than 10% of the total surface area has peeling or damaged paint. |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 2: LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 9 PARNELL AVENUE, APARTMENT A, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 28, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|-----------------------------------------------------------|------------------------------|----------------------------------|------------------------------------|
| 9 PARNELL AVENUE, APARTMENT A (MEASURED 3/28/2019) | | | |
| 3/28/19-8 | INTERIOR/ Kitchen | A Wall Beige Drywall | 0.00 |
| 3/28/19-9 | INTERIOR/ Kitchen | B Wall Beige Drywall | >1.00 |
| 3/28/19-10 | INTERIOR/ Kitchen | C Wall Beige Drywall | 0.12 |
| 3/28/19-11 | INTERIOR/ Kitchen | D Wall Beige Drywall | 0.00 |
| 3/28/19-12 | INTERIOR/ Kitchen | Ceiling Beige Drywall | 0.00 |
| 3/28/19-13 | INTERIOR/ Kitchen | A Door Varnish Wood | 0.00 |
| 3/28/19-14 | INTERIOR/ Kitchen | A Door Casing Beige Metal | >1.00 |
| 3/28/19-15 | INTERIOR/ Kitchen | C Door Beige Metal | 0.00 |
| 3/28/19-16 | INTERIOR/ Kitchen | C Door Casing Beige Metal | >1.04 |
| 3/28/19-17 | INTERIOR/ Kitchen | A Cabinet Varnished Wood | 0.00 |
| 3/28/19-18 | INTERIOR/ Kitchen | B Cabinet Varnished Wood | 0.00 |
| 3/28/19-19 | INTERIOR/ Kitchen | D Cabinet Varnished Wood | 0.00 |
| 3/28/19-22 | INTERIOR/ Living Room | A Wall Beige Drywall | 0.11 |
| 3/28/19-23 | INTERIOR/ Living Room | B Wall Beige Drywall | 0.05 |
| 3/28/19-24 | INTERIOR/ Living Room | C Wall Beige Drywall | 0.39 |
| 3/28/19-25 | INTERIOR/ Living Room | D Wall Beige Drywall | 0.49 |
| 3/28/19-26 | INTERIOR/ Living Room | Ceiling Beige Drywall | 0.00 |
| 3/28/19-27 | INTERIOR/ Living Room | A Window Sill Beige Wood | 0.00 |
| 3/28/19-28 | INTERIOR/ Living Room | A Window Casing Brown Metal | 0.00 |
| 3/28/19-29 | INTERIOR/ Living Room | A Window Sash Brown Metal | 0.00 |
| 3/28/19-30 | INTERIOR/ Living Room | C Window Sill Beige Wood | 0.00 |
| 3/28/19-31 | INTERIOR/ Living Room | C Window Casing Brown Metal | 0.00 |
| 3/28/19-32 | INTERIOR/ Living Room | C Window Sash Brown Metal | 0.00 |
| 3/28/19-33 | INTERIOR/ Living Room | B Door Beige Metal | 1.98 |
| 3/28/19-34 | INTERIOR/ Living Room | B Door Casing Beige Metal | 0.70 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 2 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 9 PARNELL AVENUE, APARTMENT A, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 28, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|-----------------------------------------------------------|-----------------------|---------------------------|------------------------------------|
| 9 PARNELL AVENUE, APARTMENT A (MEASURED 3/28/2019) | | | |
| 3/28/19-35 | INTERIOR/ Living Room | C Door Brown Wood | 0.00 |
| 3/28/19-36 | INTERIOR/ Living Room | C Door Casing Beige Metal | 0.21 |
| 3/28/19-37 | INTERIOR/ Living Room | A Baseboard Beige Wood | 0.23 |
| 3/28/19-38 | INTERIOR/ Living Room | B Baseboard Beige Wood | 0.04 |
| 3/28/19-39 | INTERIOR/ Living Room | C Baseboard Beige Wood | 0.06 |
| 3/28/19-40 | INTERIOR/ Living Room | D Baseboard Beige Wood | 0.14 |
| 3/28/19-41 | INTERIOR/ Basement | A Wall Beige Drywall | 0.00 |
| 3/28/19-42 | INTERIOR/ Basement | B Wall Beige Drywall | 0.00 |
| 3/28/19-43 | INTERIOR/ Basement | C Wall Beige Drywall | 0.00 |
| 3/28/19-44 | INTERIOR/ Basement | D Wall Beige Drywall | 0.00 |
| 3/28/19-45 | INTERIOR/ Basement | C Door Varnish Wood | 0.00 |
| 3/28/19-46 | INTERIOR/ Basement | C Door Casing Beige Metal | 0.22 |
| 3/28/19-47 | INTERIOR/ Basement | A Wall Trim Beige Wood | 0.06 |
| 3/28/19-48 | INTERIOR/ Basement | B Wall Trim Beige Wood | 0.02 |
| 3/28/19-49 | INTERIOR/ Basement | D Wall Trim Beige Wood | 0.04 |
| 3/28/19-50 | INTERIOR/ Basement | Ceiling Beige Drywall | 0.00 |
| 3/28/19-51 | INTERIOR/ Basement | B Handrail Gray Wood | 0.51 |
| 3/28/19-52 | INTERIOR/ Basement | B Stringer Gray Wood | 0.68 |
| 3/28/19-53 | INTERIOR/ Basement | D Stringer Gray Wood | 0.43 |
| 3/28/19-54 | INTERIOR/ Basement | Stair Tread Gray Wood | 0.87 |
| 3/28/19-55 | INTERIOR/ Basement | Beam Gray Steel | 0.38 |
| 3/28/19-56 | INTERIOR/ Basement | C Post Gray Steel | 0.41 |
| 3/28/19-57 | INTERIOR/ Basement | A Wall Beige Concrete | 0.00 |
| 3/28/19-58 | INTERIOR/ Basement | B Wall Beige Block | 0.00 |
| 3/28/19-59 | INTERIOR/ Basement | C Wall Beige Concrete | 0.00 |
| 3/28/19-60 | INTERIOR/ Basement | D Wall Beige Block | 0.00 |
| 3/28/19-61 | INTERIOR/ Stairs | A Wall Beige Drywall | 0.17 |
| 3/28/19-62 | INTERIOR/ Stairs | B Wall Beige Drywall | 0.11 |
| 3/28/19-63 | INTERIOR/ Stairs | D Wall Beige Drywall | 0.06 |
| 3/28/19-64 | INTERIOR/ Stairs | Ceiling Beige Drywall | 0.35 |
| 3/28/19-65 | INTERIOR/ Stairs | Handrail Varnish Wood | 0.00 |
| 3/28/19-66 | INTERIOR/ Stairs | B Stringer Beige Wood | 0.08 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 2 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 9 PARNELL AVENUE, APARTMENT A, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 28, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|-----------------------------------------------------------|---------------------------|---------------------------------|------------------------------------|
| 9 PARNELL AVENUE, APARTMENT A (MEASURED 3/28/2019) | | | |
| 3/28/19-67 | INTERIOR/ Stairs | D Stringer Beige Wood | 0.04 |
| 3/28/19-68 | INTERIOR/ Stairs | Stair Tread Varnish Wood | 0.00 |
| 3/28/19-69 | INTERIOR/ Stairs | Riser Beige Wood | 0.14 |
| 3/28/19-70 | INTERIOR/ Stairs | A Baseboard Beige Wood | 0.08 |
| 3/28/19-71 | INTERIOR/ Stairs | B Baseboard Beige Wood | 0.13 |
| 3/28/19-72 | INTERIOR/ Hall | B Wall Beige Drywall | 0.07 |
| 3/28/19-73 | INTERIOR/ Hall | C Wall Beige Drywall | 0.10 |
| 3/28/19-74 | INTERIOR/ Hall | D Wall Beige Drywall | 0.15 |
| 3/28/19-75 | INTERIOR/ Hall | Ceiling Beige Drywall | 0.00 |
| 3/28/19-76 | INTERIOR/ Hall | A Door Brown Wood | 0.02 |
| 3/28/19-77 | INTERIOR/ Hall | A Door Casing Beige Metal | 0.16 |
| 3/28/19-78 | INTERIOR/ Hall | C Door Brown Wood | 0.02 |
| 3/28/19-79 | INTERIOR/ Hall | C Door Casing Beige Metal | 0.13 |
| 3/28/19-80 | INTERIOR/ Hall | D Door Brown Wood | 0.00 |
| 3/28/19-81 | INTERIOR/ Hall | D Door Casing Beige Metal | 0.14 |
| 3/28/19-82 | INTERIOR/ Hall | Wall Cap Beige Wood | 0.36 |
| 3/28/19-83 | INTERIOR/ Hall | B Baseboard Beige Wood | 0.03 |
| 3/28/19-84 | INTERIOR/ Hall | C Baseboard Beige Wood | 0.03 |
| 3/28/19-85 | INTERIOR/ Hall | D Baseboard Beige Wood | 0.04 |
| 3/28/19-86 | INTERIOR/ Bathroom | A Wall Purple Drywall | 0.00 |
| 3/28/19-87 | INTERIOR/ Bathroom | B Wall Purple Drywall | 0.03 |
| 3/28/19-88 | INTERIOR/ Bathroom | C Wall Purple Drywall | 0.04 |
| 3/28/19-89 | INTERIOR/ Bathroom | D Wall Purple Drywall | 0.05 |
| 3/28/19-90 | INTERIOR/ Bathroom | Ceiling Beige Drywall POOR | 0.15 |
| 3/28/19-91 | INTERIOR/ Bathroom | A Door Brown Wood | 0.00 |
| 3/28/19-92 | INTERIOR/ Bathroom | A Door Casing Beige Metal | 0.21 |
| 3/28/19-93 | INTERIOR/ Bathroom | C Window Sill Beige Wood | 0.00 |
| 3/28/19-94 | INTERIOR/ Bathroom | C Window Casing Brown Metal | 0.00 |
| 3/28/19-95 | INTERIOR/ Bathroom | C Window Sash Brown Metal | 0.00 |
| 3/28/19-96 | INTERIOR/ Bathroom | B Tub White Ceramic Tile | >1.00 |
| 3/28/19-97 | INTERIOR/ Bathroom | C Tub White Ceramic Tile | >1.00 |
| 3/28/19-98 | INTERIOR/ Bathroom | D Tub White Ceramic Tile | >1.00 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 2 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 9 PARNELL AVENUE, APARTMENT A, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 28, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|-----------------------------------------------------------|---------------------------|-----------------------------|------------------------------------|
| 9 PARNELL AVENUE, APARTMENT A (MEASURED 3/28/2019) | | | |
| 3/28/19-99 | INTERIOR/Bedroom 1 NW | A Wall Pink Drywall | 0.01 |
| 3/28/19-100 | INTERIOR/Bedroom 1 NW | B Wall Pink Drywall | 0.06 |
| 3/28/19-101 | INTERIOR/Bedroom 1 NW | C Wall Pink Drywall | 0.00 |
| 3/28/19-102 | INTERIOR/Bedroom 1 NW | D Wall Pink Drywall | 0.03 |
| 3/28/19-103 | INTERIOR/Bedroom 1 NW | Ceiling Beige Drywall POOR | 0.11 |
| 3/28/19-104 | INTERIOR/Bedroom 1 NW | A Door Brown Wood | 0.00 |
| 3/28/19-105 | INTERIOR/Bedroom 1 NW | A Door Casing Beige Metal | 0.06 |
| 3/28/19-106 | INTERIOR/Bedroom 1 NW | B Door Brown Wood | 0.00 |
| 3/28/19-107 | INTERIOR/Bedroom 1 NW | B Door Casing Beige Metal | 0.17 |
| 3/28/19-108 | INTERIOR/Bedroom 1 NW | C Window Sill Pink Wood | 0.00 |
| 3/28/19-109 | INTERIOR/Bedroom 1 NW | C Window Casing Brown Metal | 0.00 |
| 3/28/19-110 | INTERIOR/Bedroom 1 NW | C Window Sash Brown Metal | 0.00 |
| 3/28/19-111 | INTERIOR/Bedroom 1 NW | A Baseboard Pink Wood | 0.02 |
| 3/28/19-112 | INTERIOR/Bedroom 1 NW | B Baseboard Pink Wood | 0.16 |
| 3/28/19-113 | INTERIOR/Bedroom 1 NW | C Baseboard Pink Wood | 0.09 |
| 3/28/19-114 | INTERIOR/Bedroom 1 NW | D Baseboard Pink Wood | 0.09 |
| 3/28/19-115 | INTERIOR/Bedroom 1 Closet | A Wall Beige Drywall | 0.08 |
| 3/28/19-116 | INTERIOR/Bedroom 1 Closet | B Wall Beige Drywall | 0.07 |
| 3/28/19-117 | INTERIOR/Bedroom 1 Closet | C Wall Beige Drywall | 0.10 |
| 3/28/19-118 | INTERIOR/Bedroom 1 Closet | D Wall Beige Drywall | 0.13 |
| 3/28/19-119 | INTERIOR/Bedroom 1 Closet | Ceiling Beige Drywall | 0.06 |
| 3/28/19-120 | INTERIOR/Bedroom 1 Closet | C Door Brown Wood | 0.00 |
| 3/28/19-121 | INTERIOR/Bedroom 1 Closet | C Door Casing Beige Metal | 0.06 |
| 3/28/19-122 | INTERIOR/Bedroom 1 Closet | Shelf Beige Wood | 0.05 |
| 3/28/19-123 | INTERIOR/Bedroom 1 Closet | Shelf Support D Beige Wood | 0.04 |
| 3/28/19-124 | INTERIOR/Bedroom 1 Closet | A Baseboard Beige Wood | 0.11 |
| 3/28/19-125 | INTERIOR/Bedroom 1 Closet | B Baseboard Beige Wood | 0.08 |
| 3/28/19-126 | INTERIOR/Bedroom 1 Closet | C Baseboard Beige Wood | 0.06 |
| 3/28/19-127 | INTERIOR/Bedroom 1 Closet | D Baseboard Beige Wood | >1.00 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 2 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 9 PARNELL AVENUE, APARTMENT A, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 28, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|-----------------------------------------------------------|----------------------------|-----------------------------|------------------------------------|
| 9 PARNELL AVENUE, APARTMENT A (MEASURED 3/28/2019) | | | |
| 3/28/19-128 | INTERIOR/Hall Closet | A Wall Beige Drywall | >1.00 |
| 3/28/19-129 | INTERIOR/Hall Closet | C Wall Beige Drywall | 0.11 |
| 3/28/19-130 | INTERIOR/Hall Closet | D Wall Beige Drywall | 0.13 |
| 3/28/19-131 | INTERIOR/Hall Closet | Ceiling Beige Drywall | 0.07 |
| 3/28/19-132 | INTERIOR/Hall Closet | B Door Brown Wood | 0.01 |
| 3/28/19-133 | INTERIOR/Hall Closet | B Door Casing Beige Metal | 0.13 |
| 3/28/19-134 | INTERIOR/Hall Closet | Shelf Beige Wood | 0.04 |
| 3/28/19-135 | INTERIOR/Hall Closet | Shelf Support A Beige Wood | 0.08 |
| 3/28/19-136 | INTERIOR/Hall Closet | A Baseboard Beige Wood | 0.12 |
| 3/28/19-137 | INTERIOR/Hall Closet | C Baseboard Beige Wood | 0.08 |
| 3/28/19-138 | INTERIOR/Hall Closet | D Baseboard Beige Wood | 0.07 |
| 3/28/19-139 | INTERIOR/ Bedroom 2 NE | A Wall Beige Drywall | 0.00 |
| 3/28/19-140 | INTERIOR/ Bedroom 2 NE | B Wall Beige Drywall | 0.15 |
| 3/28/19-141 | INTERIOR/ Bedroom 2 NE | C Wall Beige Drywall | 0.04 |
| 3/28/19-142 | INTERIOR/ Bedroom 2 NE | D Wall Beige Drywall | 0.05 |
| 3/28/19-143 | INTERIOR/ Bedroom 2 NE | Ceiling Beige Drywall | 0.00 |
| 3/28/19-144 | INTERIOR/ Bedroom 2 NE | A Window Sill Beige Wood | 0.00 |
| 3/28/19-145 | INTERIOR/ Bedroom 2 NE | A Window Casing Brown Metal | 0.00 |
| 3/28/19-146 | INTERIOR/ Bedroom 2 NE | A Window Sash Brown Metal | 0.00 |
| 3/28/19-147 | INTERIOR/ Bedroom 2 NE | B Door Brown Wood | 0.00 |
| 3/28/19-148 | INTERIOR/ Bedroom 2 NE | B Door Casing Beige Metal | 0.09 |
| 3/28/19-149 | INTERIOR/ Bedroom 2 NE | C Door Varnish Wood | 0.04 |
| 3/28/19-150 | INTERIOR/ Bedroom 2 NE | C Door Casing Beige Metal | 0.11 |
| 3/28/19-151 | INTERIOR/ Bedroom 2 NE | A Baseboard Beige Wood | 0.14 |
| 3/28/19-152 | INTERIOR/ Bedroom 2 NE | B Baseboard Beige Wood | 0.08 |
| 3/28/19-155 | INTERIOR/ Bedroom 2 NE | C Baseboard Beige Wood | 0.05 |
| 3/28/19-156 | INTERIOR/ Bedroom 2 NE | D Baseboard Beige Wood | 0.07 |
| 3/28/19-157 | INTERIOR/ Bedroom 2 Closet | A Wall Beige Drywall | 0.10 |
| 3/28/19-158 | INTERIOR/ Bedroom 2 Closet | B Wall Beige Drywall | 0.19 |
| 3/28/19-159 | INTERIOR/ Bedroom 2 Closet | C Wall Beige Drywall | 0.00 |
| 3/28/19-160 | INTERIOR/ Bedroom 2 Closet | D Wall Beige Drywall | 0.28 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 2 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 9 PARNELL AVENUE, APARTMENT A, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 28, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|-----------------------------------------------------------|----------------------------|--------------------------------------|------------------------------------|
| 9 PARNELL AVENUE, APARTMENT A (MEASURED 3/28/2019) | | | |
| 3/28/19-161 | INTERIOR/ Bedroom 2 Closet | Ceiling Beige Drywall | 0.11 |
| 3/28/19-162 | INTERIOR/ Bedroom 2 Closet | D Door Brown Wood | 0.00 |
| 3/28/19-163 | INTERIOR/ Bedroom 2 Closet | D Door Casing Beige Metal | 0.11 |
| 3/28/19-164 | INTERIOR/ Bedroom 2 Closet | Shelf Beige Wood | 0.10 |
| 3/28/19-165 | INTERIOR/ Bedroom 2 Closet | Shelf Support B Beige Wood | 0.06 |
| 3/28/19-166 | INTERIOR/ Bedroom 2 Closet | A Baseboard Beige Wood | 0.07 |
| 3/28/19-167 | INTERIOR/ Bedroom 2 Closet | B Baseboard Beige Wood | 0.06 |
| 3/28/19-168 | INTERIOR/ Bedroom 2 Closet | C Baseboard Beige Wood | 0.05 |
| 3/28/19-169 | INTERIOR/ Bedroom 2 Closet | D Baseboard Beige Wood | 0.03 |
| 3/28/19-3 | EXTERIOR/Rear C | C Storm Door Brown Metal | 0.00 |
| 3/28/19-4 | EXTERIOR/Rear C | C Storm Door Casing Brown Metal | 0.00 |
| 3/28/19-5 | EXTERIOR/Rear C | C Lintel White Metal POOR | 1.32 |
| 3/28/19-6 | EXTERIOR/Rear C | C Window Casing Brown Metal | 0.00 |
| 3/28/19-7 | EXTERIOR/Rear C | C Window Sash Brown Metal | 0.00 |
| 3/28/19-20 | EXTERIOR/Rear C | C Door White Metal | 0.00 |
| 3/28/19-21 | EXTERIOR/Rear C | C Door Casing Beige Metal | 1.44 |
| 3/28/19-180 | EXTERIOR/Porch | D Wall Painted Brick White | >1.44 |
| 3/28/19-181 | EXTERIOR/Porch | Storm Door Brown Metal | 0.00 |
| 3/28/19-182 | EXTERIOR/Porch | Storm Door Casing Brown Metal | 2.25 |
| 3/28/19-183 | EXTERIOR/Porch | Door White Metal | 2.28 |
| 3/28/19-184 | EXTERIOR/Porch | Ceiling White Plywood | 0.00 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 3: LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 9 PARNELL AVENUE, APARTMENT B, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 28, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|-----------------------------------------------------------|-----------------------|-----------------------------|------------------------------------|
| 9 PARNELL AVENUE, APARTMENT B (MEASURED 3/28/2019) | | | |
| 3/28/19-386 | INTERIOR/ Kitchen | A Wall Beige Drywall | 0.13 |
| 3/28/19-387 | INTERIOR/ Kitchen | B Wall Beige Drywall | 0.20 |
| 3/28/19-388 | INTERIOR/ Kitchen | C Wall Beige Drywall | 0.31 |
| 3/28/19-389 | INTERIOR/ Kitchen | D Wall Beige Drywall | 0.32 |
| 3/28/19-390 | INTERIOR/ Kitchen | Ceiling Beige Drywall | 0.07 |
| 3/28/19-391 | INTERIOR/ Kitchen | A Door Brown Wood | 0.01 |
| 3/28/19-392 | INTERIOR/ Kitchen | A Door Casing Beige Metal | 0.10 |
| 3/28/19-393 | INTERIOR/ Kitchen | C Door Beige Metal | 0.00 |
| 3/28/19-394 | INTERIOR/ Kitchen | C Door Casing Beige Metal | 0.00 |
| 3/28/19-395 | INTERIOR/ Kitchen | A Cabinet Varnished Wood | 0.00 |
| 3/28/19-396 | INTERIOR/ Kitchen | C Cabinet Varnished Wood | 0.00 |
| 3/28/19-397 | INTERIOR/ Kitchen | D Cabinet Varnished Wood | 0.00 |
| 3/28/19-398 | INTERIOR/ Kitchen | D Wall White Ceramic | 0.00 |
| 3/28/19-399 | INTERIOR/ Living Room | A Wall Beige Drywall | 0.01 |
| 3/28/19-400 | INTERIOR/ Living Room | B Wall Beige Drywall | 0.02 |
| 3/28/19-401 | INTERIOR/ Living Room | C Wall Beige Drywall | 0.00 |
| 3/28/19-402 | INTERIOR/ Living Room | D Wall Beige Drywall | 0.00 |
| 3/28/19-403 | INTERIOR/ Living Room | Ceiling Beige Drywall | 0.00 |
| 3/28/19-404 | INTERIOR/ Living Room | A Window Sill Beige Wood | 0.00 |
| 3/28/19-405 | INTERIOR/ Living Room | A Window Casing Brown Metal | 0.00 |
| 3/28/19-406 | INTERIOR/ Living Room | A Window Sash Brown Metal | 0.00 |
| 3/28/19-407 | INTERIOR/ Living Room | C Window Sill Beige Wood | 0.00 |
| 3/28/19-408 | INTERIOR/ Living Room | C Window Casing Brown Metal | 0.00 |
| 3/28/19-409 | INTERIOR/ Living Room | C Window Sash Brown Metal | 0.00 |
| 3/28/19-410 | INTERIOR/ Living Room | C Door Brown Wood | 0.01 |
| 3/28/19-411 | INTERIOR/ Living Room | C Door Casing Beige Metal | 0.16 |
| 3/28/19-412 | INTERIOR/ Living Room | D Door Grey Metal | 0.00 |
| 3/28/19-413 | INTERIOR/ Living Room | D Door Casing Beige Metal | 0.00 |
| 3/28/19-414 | INTERIOR/ Living Room | A Baseboard Beige Wood | 0.08 |
| 3/28/19-415 | INTERIOR/ Living Room | B Baseboard Beige Wood | 0.06 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 3 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 9 PARNELL AVENUE, APARTMENT B, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 28, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|-----------------------------------------------------------|------------------------------|----------------------------|------------------------------------|
| 9 PARNELL AVENUE, APARTMENT B (MEASURED 3/28/2019) | | | |
| 3/28/19-416 | INTERIOR/ Living Room | C Baseboard Beige Wood | 0.15 |
| 3/28/19-417 | INTERIOR/ Living Room | D Baseboard Beige Wood | 0.09 |
| 3/28/19-418 | INTERIOR/ Living Room Closet | A Wall Beige Drywall | 0.00 |
| 3/28/19-419 | INTERIOR/ Living Room Closet | B Wall Beige Drywall | 0.02 |
| 3/28/19-420 | INTERIOR/ Living Room Closet | C Wall Beige Drywall | 0.00 |
| 3/28/19-421 | INTERIOR/ Living Room Closet | D Wall Beige Drywall | 0.01 |
| 3/28/19-422 | INTERIOR/ Living Room Closet | Ceiling Beige Drywall | 0.00 |
| 3/28/19-423 | INTERIOR/ Living Room Closet | A Door Brown Wood | 0.04 |
| 3/28/19-424 | INTERIOR/ Living Room Closet | A Door Casing Beige Metal | 0.10 |
| 3/28/19-425 | INTERIOR/ Living Room Closet | Shelf Beige Wood | 0.02 |
| 3/28/19-426 | INTERIOR/ Living Room Closet | B Shelf Support Beige Wood | 0.05 |
| 3/28/19-427 | INTERIOR/ Basement | A Wall Beige Drywall | 0.00 |
| 3/28/19-428 | INTERIOR/ Basement | B Wall Beige Drywall | 0.00 |
| 3/28/19-429 | INTERIOR/ Basement | C Wall Beige Drywall | 0.00 |
| 3/28/19-430 | INTERIOR/ Basement | D Wall Beige Drywall | 0.00 |
| 3/28/19-431 | INTERIOR/ Basement | Ceiling Beige Drywall | 0.00 |
| 3/28/19-432 | INTERIOR/ Basement | A Wall Trim Beige Wood | 0.09 |
| 3/28/19-433 | INTERIOR/ Basement | B Wall Trim Beige Wood | 0.12 |
| 3/28/19-434 | INTERIOR/ Basement | D Wall Trim Beige Wood | 0.08 |
| 3/28/19-435 | INTERIOR/ Basement | C Door Brown Wood | 0.00 |
| 3/28/19-436 | INTERIOR/ Basement | C Door Casing Beige Metal | 0.07 |
| 3/28/19-437 | INTERIOR/ Basement | D Handrail Gray Wood | 0.00 |
| 3/28/19-438 | INTERIOR/ Basement | B Stringer Gray Wood | 0.00 |
| 3/28/19-439 | INTERIOR/ Basement | D Stringer Gray Wood | 0.00 |
| 3/28/19-440 | INTERIOR/ Basement | Stair Tread Gray Wood | 0.00 |
| 3/28/19-441 | INTERIOR/ Basement | Beam Gray Steel | 0.59 |
| 3/28/19-442 | INTERIOR/ Basement | A Post Gray Steel | 0.39 |
| 3/28/19-443 | INTERIOR/ Basement | A Wall Beige Block | 0.00 |
| 3/28/19-444 | INTERIOR/ Basement | D Wall Beige Block | 0.00 |
| 3/28/19-445 | INTERIOR/ Basement | Floor Grey Concrete | 0.00 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 3 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 9 PARNELL AVENUE, APARTMENT B, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 28, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|-----------------------------------------------------------|------------------|---------------------------|------------------------------------|
| 9 PARNELL AVENUE, APARTMENT B (MEASURED 3/28/2019) | | | |
| 3/28/19-446 | INTERIOR/ Stairs | A Wall Beige Drywall | 0.00 |
| 3/28/19-447 | INTERIOR/ Stairs | B Wall Beige Drywall | 0.00 |
| 3/28/19-448 | INTERIOR/ Stairs | D Wall Beige Drywall | 0.00 |
| 3/28/19-449 | INTERIOR/ Stairs | Ceiling Beige Drywall | 0.00 |
| 3/28/19-450 | INTERIOR/ Stairs | Handrail Varnish Wood | 0.00 |
| 3/28/19-451 | INTERIOR/ Stairs | B Stringer Beige Wood | 0.06 |
| 3/28/19-452 | INTERIOR/ Stairs | D Stringer Beige Wood | 0.17 |
| 3/28/19-453 | INTERIOR/ Stairs | Tread Varnish Wood | 0.00 |
| 3/28/19-454 | INTERIOR/ Stairs | Riser Beige Wood | 0.04 |
| 3/28/19-455 | INTERIOR/ Stairs | A Baseboard Beige Wood | 0.11 |
| 3/28/19-456 | INTERIOR/ Stairs | C Baseboard Beige Wood | 0.15 |
| 3/28/19-457 | INTERIOR/ Stairs | D Baseboard Beige Wood | 0.11 |
| 3/28/19-458 | INTERIOR/ Stairs | Floor Varnish Wood | 0.00 |
| 3/28/19-459 | INTERIOR/ Hall | A Wall Beige Drywall | 0.00 |
| 3/28/19-460 | INTERIOR/ Hall | B Wall Beige Drywall | 0.00 |
| 3/28/19-461 | INTERIOR/ Hall | C Wall Beige Drywall | 0.00 |
| 3/28/19-462 | INTERIOR/ Hall | D Wall Beige Drywall | 0.00 |
| 3/28/19-463 | INTERIOR/ Hall | Ceiling Beige Drywall | 0.07 |
| 3/28/19-464 | INTERIOR/ Hall | A Door Brown Wood | 0.09 |
| 3/28/19-465 | INTERIOR/ Hall | A Door Casing Beige Metal | 0.08 |
| 3/28/19-466 | INTERIOR/ Hall | B Door Brown Wood | 0.03 |
| 3/28/19-467 | INTERIOR/ Hall | B Door Casing Beige Metal | 0.10 |
| 3/28/19-468 | INTERIOR/ Hall | C Door Brown Wood | 0.03 |
| 3/28/19-469 | INTERIOR/ Hall | C Door Casing Beige Metal | 0.05 |
| 3/28/19-470 | INTERIOR/ Hall | Wall Cap Beige Wood | 0.09 |
| 3/28/19-471 | INTERIOR/ Hall | B Baseboard Beige Wood | 0.08 |
| 3/28/19-472 | INTERIOR/ Hall | C Baseboard Beige Wood | 0.07 |
| 3/28/19-473 | INTERIOR/ Hall | D Baseboard Beige Wood | 0.11 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 3 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 9 PARNELL AVENUE, APARTMENT B, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 28, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|-----------------------------------------------------------|---------------------------|---------------------------------|------------------------------------|
| 9 PARNELL AVENUE, APARTMENT B (MEASURED 3/28/2019) | | | |
| 3/28/19-474 | INTERIOR/ Bathroom | A Wall Beige Drywall | 0.14 |
| 3/28/19-475 | INTERIOR/ Bathroom | B Wall Beige Drywall | 0.05 |
| 3/28/19-476 | INTERIOR/ Bathroom | C Wall Beige Drywall | 0.00 |
| 3/28/19-477 | INTERIOR/ Bathroom | D Wall Beige Drywall | 0.10 |
| 3/28/19-478 | INTERIOR/ Bathroom | Ceiling Beige Drywall POOR | 0.05 |
| 3/28/19-479 | INTERIOR/ Bathroom | A Door Brown Wood | 0.02 |
| 3/28/19-480 | INTERIOR/ Bathroom | A Door Casing Beige Metal | 0.00 |
| 3/28/19-481 | INTERIOR/ Bathroom | C Window Sill Beige Wood | 0.00 |
| 3/28/19-482 | INTERIOR/ Bathroom | C Window Casing Brown Metal | 0.00 |
| 3/28/19-483 | INTERIOR/ Bathroom | C Window Sash Brown Metal | 0.00 |
| 3/28/19-484 | INTERIOR/ Bathroom | B Tub White Ceramic Tile | >1.00 |
| 3/28/19-485 | INTERIOR/ Bathroom | C Tub White Ceramic Tile | >1.00 |
| 3/28/19-486 | INTERIOR/ Bathroom | D Tub White Ceramic Tile | >1.00 |
| 3/28/19-487 | INTERIOR/Bedroom 1 SW | A Wall Beige Drywall | 0.00 |
| 3/28/19-488 | INTERIOR/Bedroom 1 SW | B Wall Beige Drywall | 0.00 |
| 3/28/19-489 | INTERIOR/Bedroom 1 SW | C Wall Beige Drywall | 0.00 |
| 3/28/19-490 | INTERIOR/Bedroom 1 SW | D Wall Beige Drywall | 0.00 |
| 3/28/19-491 | INTERIOR/Bedroom 1 SW | Ceiling Beige Drywall | 0.00 |
| 3/28/19-492 | INTERIOR/Bedroom 1 SW | A Door Brown Wood | 0.02 |
| 3/28/19-493 | INTERIOR/Bedroom 1 SW | A Door Casing Beige Metal | 0.05 |
| 3/28/19-494 | INTERIOR/Bedroom 1 SW | B Door Brown Wood | 0.03 |
| 3/28/19-495 | INTERIOR/Bedroom 1 SW | B Door Casing Beige Metal | 0.03 |
| 3/28/19-496 | INTERIOR/Bedroom 1 SW | C Window Sill Beige Wood | 0.00 |
| 3/28/19-497 | INTERIOR/Bedroom 1 SW | C Window Casing Brown Metal | 0.00 |
| 3/28/19-498 | INTERIOR/Bedroom 1 SW | C Window Sash Brown Metal | 0.00 |
| 3/28/19-499 | INTERIOR/Bedroom 1 SW | A Baseboard Grey Wood | 0.04 |
| 3/28/19-500 | INTERIOR/Bedroom 1 SW | B Baseboard Grey Wood | 0.13 |
| 3/28/19-501 | INTERIOR/Bedroom 1 SW | C Baseboard Grey Wood | 0.12 |
| 3/28/19-502 | INTERIOR/Bedroom 1 SW | D Baseboard Grey Wood | 0.07 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 3 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 9 PARNELL AVENUE, APARTMENT B, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 28, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|-----------------------------------------------------------|---------------------------|-----------------------------|------------------------------------|
| 9 PARNELL AVENUE, APARTMENT B (MEASURED 3/28/2019) | | | |
| 3/28/19-503 | INTERIOR/Bedroom 1 Closet | A Wall Beige Drywall | 0.00 |
| 3/28/19-504 | INTERIOR/Bedroom 1 Closet | B Wall Beige Drywall | 0.00 |
| 3/28/19-505 | INTERIOR/Bedroom 1 Closet | C Wall Beige Drywall | 0.00 |
| 3/28/19-506 | INTERIOR/Bedroom 1 Closet | D Wall Beige Drywall | 0.00 |
| 3/28/19-507 | INTERIOR/Bedroom 1 Closet | Ceiling Beige Drywall | 0.00 |
| 3/28/19-508 | INTERIOR/Bedroom 1 Closet | C Door Brown Wood | 0.00 |
| 3/28/19-509 | INTERIOR/Bedroom 1 Closet | C Door Casing Beige Metal | 0.05 |
| 3/28/19-510 | INTERIOR/Bedroom 1 Closet | Shelf Beige Wood | 0.01 |
| 3/28/19-511 | INTERIOR/Bedroom 1 Closet | Shelf Support B Beige Wood | 0.02 |
| 3/28/19-512 | INTERIOR/Hall Closet | A Wall Beige Drywall | 0.00 |
| 3/28/19-513 | INTERIOR/Hall Closet | B Wall Beige Drywall | 0.00 |
| 3/28/19-514 | INTERIOR/Hall Closet | C Wall Beige Drywall | 0.00 |
| 3/28/19-515 | INTERIOR/Hall Closet | Ceiling Beige Drywall | 0.00 |
| 3/28/19-516 | INTERIOR/Hall Closet | D Door Brown Wood | 0.01 |
| 3/28/19-517 | INTERIOR/Hall Closet | D Door Casing Beige Metal | 0.07 |
| 3/28/19-518 | INTERIOR/Hall Closet | Shelf Beige Wood | 0.07 |
| 3/28/19-519 | INTERIOR/Hall Closet | Shelf Support A Beige Wood | 0.06 |
| 3/28/19-520 | INTERIOR/Hall Closet | A Baseboard Beige Wood | 0.03 |
| 3/28/19-521 | INTERIOR/Hall Closet | B Baseboard Beige Wood | 0.03 |
| 3/28/19-522 | INTERIOR/Hall Closet | C Baseboard Beige Wood | 0.05 |
| 3/28/19-523 | INTERIOR/ Bedroom 2 SE | A Wall Beige Drywall | 0.00 |
| 3/28/19-524 | INTERIOR/ Bedroom 2 SE | B Wall Beige Drywall | 0.00 |
| 3/28/19-525 | INTERIOR/ Bedroom 2 SE | C Wall Beige Drywall | 0.00 |
| 3/28/19-526 | INTERIOR/ Bedroom 2 SE | D Wall Beige Drywall | 0.00 |
| 3/28/19-527 | INTERIOR/ Bedroom 2 SE | Ceiling Beige Drywall | 0.00 |
| 3/28/19-528 | INTERIOR/ Bedroom 2 SE | A Window Sill Beige Wood | 0.00 |
| 3/28/19-529 | INTERIOR/ Bedroom 2 SE | A Window Casing Brown Metal | 0.00 |
| 3/28/19-530 | INTERIOR/ Bedroom 2 SE | A Window Sash Brown Metal | 0.00 |
| 3/28/19-531 | INTERIOR/ Bedroom 2 SE | C Door Brown Wood | 0.05 |
| 3/28/19-532 | INTERIOR/ Bedroom 2 SE | C Door Casing Beige Metal | 0.13 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 3 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 9 PARNELL AVENUE, APARTMENT B, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 28, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|-----------------------------------------------------------|----------------------------|---------------------------------|------------------------------------|
| 9 PARNELL AVENUE, APARTMENT B (MEASURED 3/28/2019) | | | |
| 3/28/19-533 | INTERIOR/ Bedroom 2 SE | D Door Brown Wood | 0.00 |
| 3/28/19-534 | INTERIOR/ Bedroom 2 SE | D Door Casing Beige Metal | 0.02 |
| 3/28/19-535 | INTERIOR/ Bedroom 2 SE | A Baseboard Beige Wood | 0.04 |
| 3/28/19-536 | INTERIOR/ Bedroom 2 SE | B Baseboard Beige Wood | 0.15 |
| 3/28/19-537 | INTERIOR/ Bedroom 2 SE | C Baseboard Beige Wood | 0.03 |
| 3/28/19-538 | INTERIOR/ Bedroom 2 SE | D Baseboard Beige Wood | 0.10 |
| 3/28/19-539 | INTERIOR/ Bedroom 2 Closet | A Wall Beige Drywall | 0.00 |
| 3/28/19-540 | INTERIOR/ Bedroom 2 Closet | B Wall Beige Drywall | 0.00 |
| 3/28/19-541 | INTERIOR/ Bedroom 2 Closet | C Wall Beige Drywall | 0.00 |
| 3/28/19-542 | INTERIOR/ Bedroom 2 Closet | D Wall Beige Drywall | 0.00 |
| 3/28/19-543 | INTERIOR/ Bedroom 2 Closet | Ceiling Beige Drywall | 0.00 |
| 3/28/19-545 | INTERIOR/ Bedroom 2 Closet | B Door Brown Wood | 0.02 |
| 3/28/19-546 | INTERIOR/ Bedroom 2 Closet | B Door Casing Beige Metal | 0.04 |
| 3/28/19-547 | INTERIOR/ Bedroom 2 Closet | Shelf Beige Wood | 0.01 |
| 3/28/19-548 | INTERIOR/ Bedroom 2 Closet | Shelf Support B Beige Wood | 0.05 |
| 3/28/19-185 | EXTERIOR/Porch | A Wall White Brick | >1.91 |
| 3/28/19-186 | EXTERIOR/Porch | B Wall White Brick | >1.31 |
| 3/28/19-187 | EXTERIOR/Porch | C Wall White Brick | >2.07 |
| 3/28/19-188 | EXTERIOR/ Porch | Storm Door Brown Metal | 0.00 |
| 3/28/19-189 | EXTERIOR/ Porch | Storm Door Casing Brown Metal | 0.00 |
| 3/28/19-190 | EXTERIOR/ Porch | Ceiling White Plywood | 0.00 |
| 3/28/19-191 | EXTERIOR/ Porch | Painted Tan Brick | 0.00 |
| 3/28/19-192 | EXTERIOR | A Window Casing Brown Metal | 0.00 |
| 3/28/19-193 | EXTERIOR | A Window Sash Brown Metal | 0.00 |
| 3/28/19-384 | EXTERIOR/ Porch | A Door Beige Metal | 0.00 |
| 3/28/19-385 | EXTERIOR/ Porch | A Door Casing Beige Metal | 0.00 |
| 3/28/19-549 | EXTERIOR/ Porch | A Door Grey Metal | 0.00 |
| 3/28/19-550 | EXTERIOR/ Rear C | C Storm Door Brown Metal | 0.00 |
| 3/28/19-551 | EXTERIOR/ Rear C | C Storm Door Casing Brown Metal | 0.00 |
| 3/28/19-552 | EXTERIOR/ Rear C | C Lintel White Wood | 0.00 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 3 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 9 PARNELL AVENUE, APARTMENT B, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 28, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|-----------------------------------------------------------|-----------------|-----------------------------|------------------------------------|
| 9 PARNELL AVENUE, APARTMENT B (MEASURED 3/28/2019) | | | |
| 3/28/19-553 | EXTERIOR/Rear C | C Door White Metal | 0.00 |
| 3/28/19-554 | EXTERIOR/Rear C | C Door Jamb White Wood | 0.00 |
| 3/28/19-555 | EXTERIOR/Rear C | C Window Casing Brown Metal | 0.00 |
| 3/28/19-556 | EXTERIOR/Rear C | C Window Lintel Brown Steel | 0.00 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 4 LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 11 PARNELL AVENUE, APARTMENT A, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 28, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|------------------------------------------------------------|--------------------------|-----------------------------|------------------------------------|
| 11 PARNELL AVENUE, APARTMENT A (MEASURED 3/28/2019) | | | |
| 3/28/19-205 | INTERIOR/ Kitchen | A Wall Beige Plaster | 0.24 |
| 3/28/19-206 | INTERIOR/ Kitchen | B Wall Beige Plaster | 0.27 |
| 3/28/19-207 | INTERIOR/ Kitchen | C Wall Beige Plaster | 0.38 |
| 3/28/19-208 | INTERIOR/ Kitchen | D Wall Beige Plaster | 0.00 |
| 3/28/19-209 | INTERIOR/ Kitchen | Ceiling Beige Plaster | 0.00 |
| 3/28/19-210 | INTERIOR/ Kitchen | A Door White Wood | 0.00 |
| 3/28/19-211 | INTERIOR/ Kitchen | A Door Casing Beige Metal | 0.09 |
| 3/28/19-212 | INTERIOR/ Kitchen | C Door Beige Wood | 0.00 |
| 3/28/19-213 | INTERIOR/ Kitchen | C Door Casing Beige Metal | 0.87 |
| 3/28/19-214 | INTERIOR/ Kitchen | A Cabinet Varnished Wood | 0.00 |
| 3/28/19-215 | INTERIOR/ Kitchen | B Cabinet Varnished Wood | 0.00 |
| 3/28/19-216 | INTERIOR/ Kitchen | C Cabinet Varnished Wood | 0.00 |
| 3/28/19-217 | INTERIOR/ Kitchen | B Wall White Ceramic | >1.00 |
| 3/28/19-218 | INTERIOR/ Living Room | A Wall Beige Plaster | 0.18 |
| 3/28/19-219 | INTERIOR/ Living Room | B Wall Beige Plaster | 0.40 |
| 3/28/19-220 | INTERIOR/ Living Room | C Wall Beige Plaster | 0.63 |
| 3/28/19-221 | INTERIOR/ Living Room | D Wall Beige Plaster | 0.49 |
| 3/28/19-222 | INTERIOR/ Living Room | Ceiling Beige Plaster | 0.10 |
| 3/28/19-223 | INTERIOR/ Living Room | A Window Sill Beige Wood | 0.00 |
| 3/28/19-224 | INTERIOR/ Living Room | A Window Casing Brown Metal | 0.00 |
| 3/28/19-225 | INTERIOR/ Living Room | A Window Sash Brown Metal | 0.00 |
| 3/28/19-226 | INTERIOR/ Living Room | C Window Sill Beige Wood | 0.00 |
| 3/28/19-227 | INTERIOR/ Living Room | C Window Casing Brown Metal | 0.00 |
| 3/28/19-228 | INTERIOR/ Living Room | C Window Sash Brown Metal | 0.00 |
| 3/28/19-229 | INTERIOR/ Living Room | B Door Beige Wood | 0.75 |
| 3/28/19-230 | INTERIOR/ Living Room | B Door Casing Beige Metal | 0.13 |
| 3/28/19-231 | INTERIOR/ Living Room | C Door Beige Metal | 0.00 |
| 3/28/19-232 | INTERIOR/ Living Room | C Door Casing Beige Metal | 0.11 |
| 3/28/19-233 | INTERIOR/ Living Room | A Baseboard Beige Wood | 0.05 |
| 3/28/19-234 | INTERIOR/ Living Room | B Baseboard Beige Wood | 0.30 |
| 3/28/19-235 | INTERIOR/ Living Room | C Baseboard Beige Wood | 0.30 |
| 3/28/19-236 | INTERIOR/ Living Room | D Baseboard Beige Wood | 0.27 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 4 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 11 PARNELL AVENUE, APARTMENT A, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 28, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|------------------------------------------------------------|-------------------------------------|----------------------------------|------------------------------------|
| 11 PARNELL AVENUE, APARTMENT A (MEASURED 3/28/2019) | | | |
| 3/28/19-237 | INTERIOR/ Living Room Closet | A Wall Beige Drywall | 0.08 |
| 3/28/19-238 | INTERIOR/ Living Room Closet | B Wall Beige Drywall | 0.42 |
| 3/28/19-239 | INTERIOR/ Living Room Closet | C Wall Beige Drywall | 0.21 |
| 3/28/19-240 | INTERIOR/ Living Room Closet | D Wall Beige Drywall | 0.22 |
| 3/28/19-241 | INTERIOR/ Living Room Closet | Ceiling Beige Drywall | 0.28 |
| 3/28/19-242 | INTERIOR/ Living Room Closet | A Door Beige Wood | 0.01 |
| 3/28/19-243 | INTERIOR/ Living Room Closet | A Door Casing Beige Metal | >1.00 |
| 3/28/19-244 | INTERIOR/ Living Room Closet | Shelf Beige Wood | 0.00 |
| 3/28/19-245 | INTERIOR/ Living Room Closet | B Shelf Support Beige Wood | 0.09 |
| 3/28/19-246 | INTERIOR/ Living Room Closet | A Baseboard Beige Wood | 0.07 |
| 3/28/19-247 | INTERIOR/ Living Room Closet | B Baseboard Beige Wood | 0.17 |
| 3/28/19-248 | INTERIOR/ Living Room Closet | C Baseboard Beige Wood | 0.16 |
| 3/28/19-249 | INTERIOR/ Living Room Closet | D Baseboard Beige Wood | 0.20 |
| 3/28/19-250 | INTERIOR/ Basement | A Wall Beige Plaster | 0.00 |
| 3/28/19-251 | INTERIOR/ Basement | B Wall Beige Plaster | 0.02 |
| 3/28/19-252 | INTERIOR/ Basement | C Wall Beige Plaster | 0.00 |
| 3/28/19-253 | INTERIOR/ Basement | D Wall Beige Plaster | 0.00 |
| 3/28/19-254 | INTERIOR/ Basement | Ceiling Beige Plaster | 0.00 |
| 3/28/19-255 | INTERIOR/ Basement | C Door Beige Wood | 0.00 |
| 3/28/19-256 | INTERIOR/ Basement | C Door Casing Beige Metal | 0.11 |
| 3/28/19-257 | INTERIOR/ Basement | Handrail Brown Wood | 0.53 |
| 3/28/19-258 | INTERIOR/ Basement | A Wall Trim Beige Wood | 0.08 |
| 3/28/19-259 | INTERIOR/ Basement | B Wall Trim Beige Wood | 0.00 |
| 3/28/19-260 | INTERIOR/ Basement | D Wall Trim Beige Wood | 0.10 |
| 3/28/19-261 | INTERIOR/ Basement | B Stringer Gray Wood | 0.23 |
| 3/28/19-262 | INTERIOR/ Basement | D Stringer Gray Wood | 0.30 |
| 3/28/19-263 | INTERIOR/ Basement | Stair Tread Gray Wood | 0.37 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 4 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 11 PARNELL AVENUE, APARTMENT A, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 28, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|------------------------------------------------------------|---------------------------|----------------------------------|------------------------------------|
| 11 PARNELL AVENUE, APARTMENT A (MEASURED 3/28/2019) | | | |
| 3/28/19-264 | INTERIOR/ Basement | Beam Gray Steel | 0.63 |
| 3/28/19-265 | INTERIOR/ Basement | A Post Gray Steel | 0.64 |
| 3/28/19-266 | INTERIOR/ Basement | A Wall Beige Concrete | >1.00 |
| 3/28/19-267 | INTERIOR/ Basement | B Wall Beige Block | 0.11 |
| 3/28/19-268 | INTERIOR/ Basement | C Wall Beige Concrete | 0.00 |
| 3/28/19-269 | INTERIOR/ Basement | D Wall Beige Block | 0.00 |
| 3/28/19-270 | INTERIOR/ Basement | Floor Blue Cement | 0.00 |
| 3/28/19-271 | INTERIOR/ Stairs | A Wall Beige Plaster | 0.32 |
| 3/28/19-272 | INTERIOR/ Stairs | B Wall Beige Plaster | 0.00 |
| 3/28/19-273 | INTERIOR/ Stairs | D Wall Beige Plaster | 0.05 |
| 3/28/19-274 | INTERIOR/ Stairs | Ceiling Beige Plaster | 0.75 |
| 3/28/19-275 | INTERIOR/ Stairs | Handrail Varnish Wood | 0.02 |
| 3/28/19-276 | INTERIOR/ Stairs | B Stringer Brown Wood | 0.13 |
| 3/28/19-277 | INTERIOR/ Stairs | D Stringer Brown Wood | 0.06 |
| 3/28/19-278 | INTERIOR/ Stairs | Tread Brown Wood | 0.00 |
| 3/28/19-279 | INTERIOR/ Stairs | Riser Brown Wood | 0.00 |
| 3/28/19-280 | INTERIOR/ Stairs | Floor Brown Wood | 0.00 |
| 3/28/19-281 | INTERIOR/ Stairs | A Baseboard Brown Wood | 0.11 |
| 3/28/19-282 | INTERIOR/ Stairs | B Baseboard Brown Wood | 0.16 |
| 3/28/19-283 | INTERIOR/ Stairs | C Baseboard Brown Wood | 0.04 |
| 3/28/19-294 | INTERIOR/ Hall | B Wall Beige Drywall | 0.05 |
| 3/28/19-285 | INTERIOR/ Hall | C Wall Beige Drywall | 0.00 |
| 3/28/19-286 | INTERIOR/ Hall | D Wall Beige Drywall | 0.07 |
| 3/28/19-287 | INTERIOR/ Hall | Ceiling Beige Drywall | 0.07 |
| 3/28/19-288 | INTERIOR/ Hall | A Door Beige Wood | 0.00 |
| 3/28/19-289 | INTERIOR/ Hall | A Door Casing Beige Metal | >1.00 |
| 3/28/19-290 | INTERIOR/ Hall | C Door Beige Wood | 0.00 |
| 3/28/19-291 | INTERIOR/ Hall | C Door Casing Beige Metal | 0.11 |
| 3/28/19-292 | INTERIOR/ Hall | D Door Beige Wood | 0.00 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 4 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 11 PARNELL AVENUE, APARTMENT A, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 28, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|------------------------------------------------------------|------------------------|-----------------------------|------------------------------------|
| 11 PARNELL AVENUE, APARTMENT A (MEASURED 3/28/2019) | | | |
| 3/28/19-293 | INTERIOR/ Hall | D Door Casing Beige Metal | >1.00 |
| 3/28/19-294 | INTERIOR/ Hall | Wall Cap Beige Wood | 1.27 |
| 3/28/19-295 | INTERIOR/ Hall | B Baseboard Beige Wood | 0.09 |
| 3/28/19-296 | INTERIOR/ Hall | C Baseboard Beige Wood | 0.11 |
| 3/28/19-297 | INTERIOR/ Hall | D Baseboard Beige Wood | 0.05 |
| 3/28/19-298 | INTERIOR/ Bathroom | A Wall Beige Plaster | 0.01 |
| 3/28/19-299 | INTERIOR/ Bathroom | B Wall Beige Plaster | 0.18 |
| 3/28/19-300 | INTERIOR/ Bathroom | C Wall Beige Plaster | 0.00 |
| 3/28/19-301 | INTERIOR/ Bathroom | D Wall Beige Plaster | 0.23 |
| 3/28/19-302 | INTERIOR/ Bathroom | Ceiling White Plaster | 0.00 |
| 3/28/19-303 | INTERIOR/ Bathroom | A Door Beige Wood | 0.00 |
| 3/28/19-304 | INTERIOR/ Bathroom | A Door Casing Beige Metal | 0.17 |
| 3/28/19-305 | INTERIOR/ Bathroom | C Window Sill Beige Wood | 0.00 |
| 3/28/19-306 | INTERIOR/ Bathroom | C Window Casing Brown Metal | 0.00 |
| 3/28/19-307 | INTERIOR/ Bathroom | C Window Sash Brown Metal | 0.00 |
| 3/28/19-308 | INTERIOR/ Bathroom | B Tub White Ceramic Tile | >1.00 |
| 3/28/19-309 | INTERIOR/ Bathroom | C Tub White Ceramic Tile | >1.00 |
| 3/28/19-310 | INTERIOR/ Bathroom | D Tub White Ceramic Tile | >1.00 |
| 3/28/19-311 | INTERIOR/ Bedroom 1 NW | A Wall Beige Plaster | 0.10 |
| 3/28/19-312 | INTERIOR/ Bedroom 1 NW | B Wall Beige Plaster | 0.09 |
| 3/28/19-313 | INTERIOR/ Bedroom 1 NW | C Wall Beige Plaster | 0.08 |
| 3/28/19-314 | INTERIOR/ Bedroom 1 NW | D Wall Beige Plaster | 0.04 |
| 3/28/19-315 | INTERIOR/ Bedroom 1 NW | Ceiling Beige Plaster | 0.33 |
| 3/28/19-316 | INTERIOR/ Bedroom 1 NW | A Door Beige Wood | 0.00 |
| 3/28/19-317 | INTERIOR/ Bedroom 1 NW | A Door Casing Beige Metal | 0.05 |
| 3/28/19-318 | INTERIOR/ Bedroom 1 NW | B Door Beige Wood | 0.01 |
| 3/28/19-319 | INTERIOR/ Bedroom 1 NW | B Door Casing Beige Metal | 0.13 |
| 3/28/19-320 | INTERIOR/ Bedroom 1 NW | C Window Sill Beige Wood | 0.00 |
| 3/28/19-321 | INTERIOR/ Bedroom 1 NW | C Window Casing Brown Metal | 0.00 |
| 3/28/19-322 | INTERIOR/ Bedroom 1 NW | C Window Sash Brown Metal | 0.00 |
| 3/28/19-323 | INTERIOR/ Bedroom 1 NW | A Baseboard Beige Wood | 0.10 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 4 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 11 PARNELL AVENUE, APARTMENT A, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 28, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|------------------------------------------------------------|----------------------------------|----------------------------------|------------------------------------|
| 11 PARNELL AVENUE, APARTMENT A (MEASURED 3/28/2019) | | | |
| 3/28/19-324 | INTERIOR/Bedroom 1 NW | B Baseboard Beige Wood | 0.25 |
| 3/28/19-325 | INTERIOR/Bedroom 1 NW | C Baseboard Beige Wood | 0.10 |
| 3/28/19-326 | INTERIOR/Bedroom 1 NW | D Baseboard Beige Wood | 0.12 |
| 3/28/19-327 | INTERIOR/Bedroom 1 Closet | A Wall Beige Plaster | 0.11 |
| 3/28/19-328 | INTERIOR/Bedroom 1 Closet | B Wall Beige Plaster | 0.21 |
| 3/28/19-329 | INTERIOR/Bedroom 1 Closet | C Wall Beige Plaster | 0.14 |
| 3/28/19-330 | INTERIOR/Bedroom 1 Closet | D Wall Beige Plaster | 0.36 |
| 3/28/19-331 | INTERIOR/Bedroom 1 Closet | Ceiling Beige Plaster | 0.00 |
| 3/28/19-332 | INTERIOR/Bedroom 1 Closet | C Door Beige Wood | 0.00 |
| 3/28/19-333 | INTERIOR/Bedroom 1 Closet | C Door Casing Beige Metal | >1.00 |
| 3/28/19-334 | INTERIOR/Bedroom 1 Closet | Shelf Beige Wood | 0.06 |
| 3/28/19-335 | INTERIOR/Bedroom 1 Closet | B Shelf Support Beige Wood | 0.03 |
| 3/28/19-336 | INTERIOR/Bedroom 1 Closet | A Baseboard Beige Wood | 0.03 |
| 3/28/19-337 | INTERIOR/Bedroom 1 Closet | B Baseboard Beige Wood | 0.03 |
| 3/28/19-338 | INTERIOR/Bedroom 1 Closet | C Baseboard Beige Wood | 0.07 |
| 3/28/19-339 | INTERIOR/Bedroom 1 Closet | D Baseboard Beige Wood | 0.008 |
| 3/28/19-340 | INTERIOR/Hall Closet | A Wall Beige Plaster | 0.00 |
| 3/28/19-341 | INTERIOR/Hall Closet | C Wall Beige Plaster | 0.00 |
| 3/28/19-342 | INTERIOR/Hall Closet | D Wall Beige Plaster | 0.00 |
| 3/28/19-343 | INTERIOR/Hall Closet | Ceiling Beige Plaster | 0.00 |
| 3/28/19-344 | INTERIOR/Hall Closet | B Door Beige Wood | 0.00 |
| 3/28/19-345 | INTERIOR/Hall Closet | Shelf Beige Wood | 0.00 |
| 3/28/19-346 | INTERIOR/Hall Closet | B Door Casing Beige Metal | 0.19 |
| 3/28/19-347 | INTERIOR/Hall Closet | A Shelf Support Beige Wood | 0.01 |
| 3/28/19-348 | INTERIOR/Hall Closet | A Baseboard Beige Wood | 0.09 |
| 3/28/19-349 | INTERIOR/Hall Closet | C Baseboard Beige Wood | 0.04 |
| 3/28/19-350 | INTERIOR/Hall Closet | D Baseboard Beige Wood | 0.08 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 4 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 11 PARNELL AVENUE, APARTMENT A, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 28, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|------------------------------------------------------------|----------------------------|-----------------------------|------------------------------------|
| 11 PARNELL AVENUE, APARTMENT A (MEASURED 3/28/2019) | | | |
| 3/28/19-351 | INTERIOR/ Bedroom 2 NE | A Wall Beige Plaster | 0.33 |
| 3/28/19-352 | INTERIOR/ Bedroom 2 NE | B Wall Beige Plaster | 0.26 |
| 3/28/19-353 | INTERIOR/ Bedroom 2 NE | C Wall Beige Plaster | 0.10 |
| 3/28/19-354 | INTERIOR/ Bedroom 2 NE | D Wall Beige Plaster | 0.21 |
| 3/28/19-355 | INTERIOR/ Bedroom 2 NE | Ceiling Beige Plaster | 0.08 |
| 3/28/19-356 | INTERIOR/ Bedroom 2 NE | A Window Sill Beige Wood | 0.02 |
| 3/28/19-357 | INTERIOR/ Bedroom 2 NE | A Window Casing Brown Metal | 0.00 |
| 3/28/19-358 | INTERIOR/ Bedroom 2 NE | A Window Sash Brown Metal | 0.00 |
| 3/28/19-359 | INTERIOR/ Bedroom 2 NE | B Door Beige Wood | 0.00 |
| 3/28/19-360 | INTERIOR/ Bedroom 2 NE | B Door Casing Beige Metal | 0.10 |
| 3/28/19-361 | INTERIOR/ Bedroom 2 NE | C Door Beige Wood | 0.09 |
| 3/28/19-362 | INTERIOR/ Bedroom 2 NE | C Door Casing Beige Metal | 0.02 |
| 3/28/19-363 | INTERIOR/ Bedroom 2 NE | A Baseboard Beige Wood | 0.08 |
| 3/28/19-364 | INTERIOR/ Bedroom 2 NE | B Baseboard Beige Wood | 0.05 |
| 3/28/19-365 | INTERIOR/ Bedroom 2 NE | C Baseboard Beige Wood | 0.08 |
| 3/28/19-366 | INTERIOR/ Bedroom 2 NE | D Baseboard Beige Wood | 0.11 |
| 3/28/19-367 | INTERIOR/ Bedroom 2 Closet | A Wall Beige Plaster | 0.08 |
| 3/28/19-368 | INTERIOR/ Bedroom 2 Closet | B Wall Beige Plaster | 0.09 |
| 3/28/19-369 | INTERIOR/ Bedroom 2 Closet | C Wall Beige Plaster | 0.16 |
| 3/28/19-370 | INTERIOR/ Bedroom 2 Closet | D Wall Beige Plaster | 0.18 |
| 3/28/19-371 | INTERIOR/ Bedroom 2 Closet | Ceiling Beige Plaster | 0.13 |
| 3/28/19-372 | INTERIOR/ Bedroom 2 Closet | D Door Beige Wood | 0.00 |
| 3/28/19-373 | INTERIOR/ Bedroom 2 Closet | D Door Casing Beige Metal | 0.12 |
| 3/28/19-374 | INTERIOR/ Bedroom 2 Closet | Shelf Beige Wood | 0.01 |
| 3/28/19-375 | INTERIOR/ Bedroom 2 Closet | A Shelf Support Beige Wood | 0.04 |
| 3/28/19-376 | INTERIOR/ Bedroom 2 Closet | A Baseboard Beige Wood | 0.06 |
| 3/28/19-377 | INTERIOR/ Bedroom 2 Closet | B Baseboard Beige Wood | 0.01 |
| 3/28/19-378 | INTERIOR/ Bedroom 2 Closet | C Baseboard Beige Wood | 0.05 |
| 3/28/19-379 | INTERIOR/ Bedroom 2 Closet | D Baseboard Beige Wood | 0.04 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 4 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 11 PARNELL AVENUE, APARTMENT A, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 28, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|------------------------------------------------------------|------------------------|----------------------------------------|------------------------------------|
| 11 PARNELL AVENUE, APARTMENT A (MEASURED 3/28/2019) | | | |
| 3/28/19-194 | EXTERIOR/Porch A | A Window Casing Brown Metal | 0.00 |
| 3/28/19-195 | EXTERIOR/Porch A | A Window Sash Brown Metal | 0.00 |
| 3/28/19-196 | EXTERIOR/Porch A | A Trim Tan Wood | 0.00 |
| 3/28/19-197 | EXTERIOR/Porch | A Wall Tan Brick | 0.02 |
| 3/28/19-198 | EXTERIOR/Porch | A Wall White Brick | 0.09 |
| 3/28/19-199 | EXTERIOR/Porch | C Wall White Brick | >1.00 |
| 3/28/19-200 | EXTERIOR/Rear C | D Wall White Brick | 0.03 |
| 3/28/19-201 | EXTERIOR/Rear C | D Storm Door Brown Metal | 0.00 |
| 3/28/19-202 | EXTERIOR/Rear C | D Storm Door Casing White Metal | 1.34 |
| 3/28/19-203 | EXTERIOR/Rear C | D Door White Metal | 1.88 |
| 3/28/19-204 | EXTERIOR/Rear C | Ceiling White Wood | 0.44 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 5: LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 11 PARNELL AVENUE, APARTMENT B, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 28 & 29, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|---------------------------------------------------------------------|--------------------------|----------------------------------|------------------------------------|
| 11 PARNELL AVENUE, APARTMENT B (MEASURED 3/28 & 29/2019) | | | |
| 3/29/19-03 | INTERIOR/ Kitchen | A Wall Beige Plaster | 0.17 |
| 3/29/19-04 | INTERIOR/ Kitchen | B Wall Beige Plaster | 0.00 |
| 3/29/19-05 | INTERIOR/ Kitchen | C Wall Beige Plaster | 0.23 |
| 3/29/19-06 | INTERIOR/ Kitchen | D Wall Beige Plaster | 0.10 |
| 3/29/19-07 | INTERIOR/ Kitchen | A Door Brown Wood | 0.00 |
| 3/29/19-08 | INTERIOR/ Kitchen | A Door Casing Beige Metal | >1.00 |
| 3/29/19-09 | INTERIOR/ Kitchen | Ceiling Beige Plaster | 0.00 |
| 3/29/19-10 | INTERIOR/ Kitchen | C Door Beige Metal | 0.00 |
| 3/29/19-11 | INTERIOR/ Kitchen | C Door Casing Beige Metal | 0.00 |
| 3/29/19-12 | INTERIOR/ Kitchen | A Cabinet Varnished Wood | 0.00 |
| 3/29/19-13 | INTERIOR/ Kitchen | C Cabinet Varnished Wood | 0.00 |
| 3/29/19-14 | INTERIOR/ Kitchen | D Cabinet Varnished Wood | 0.00 |
| 3/29/19-15 | INTERIOR/ Kitchen | D Wall White Ceramic | 0.00 |
| 3/29/19-16 | INTERIOR/ Living Room | A Wall Beige Plaster | 0.02 |
| 3/29/19-17 | INTERIOR/ Living Room | B Wall Beige Plaster | 0.04 |
| 3/29/19-18 | INTERIOR/ Living Room | C Wall Beige Plaster | 0.00 |
| 3/29/19-19 | INTERIOR/ Living Room | D Wall Beige Plaster | 0.00 |
| 3/29/19-20 | INTERIOR/ Living Room | A Window Sill Beige Wood | 0.00 |
| 3/29/19-21 | INTERIOR/ Living Room | A Window Casing Brown Metal | 0.00 |
| 3/29/19-22 | INTERIOR/ Living Room | A Window Sash Brown Metal | 0.00 |
| 3/29/19-23 | INTERIOR/ Living Room | B Window Sill Beige Wood | 0.03 |
| 3/29/19-24 | INTERIOR/ Living Room | B Window Casing Brown Metal | 0.00 |
| 3/29/19-25 | INTERIOR/ Living Room | B Window Sash Brown Metal | 0.00 |
| 3/29/19-26 | INTERIOR/ Living Room | C Window Sill Beige Wood | 0.07 |
| 3/29/19-27 | INTERIOR/ Living Room | C Window Casing Brown Metal | 0.00 |
| 3/29/19-28 | INTERIOR/ Living Room | C Window Sash Brown Metal | 0.00 |
| 3/29/19-29 | INTERIOR/ Living Room | C Door Beige Wood | 0.00 |
| 3/29/19-30 | INTERIOR/ Living Room | C Door Casing Beige Metal | 0.15 |
| 3/29/19-31 | INTERIOR/ Living Room | D Door Beige Metal | 0.00 |
| 3/29/19-32 | INTERIOR/ Living Room | D Door Casing Beige Metal | 0.00 |
| 3/29/19-33 | INTERIOR/ Living Room | A Baseboard Beige Wood | 0.40 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 5 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 11 PARNELL AVENUE, APARTMENT B, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 28 & 29, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|---------------------------------------------------------------------|-------------------------------------|-------------------------------|------------------------------------|
| 11 PARNELL AVENUE, APARTMENT B (MEASURED 3/28 & 29/2019) | | | |
| 3/29/19-34 | INTERIOR/ Living Room | B Baseboard Beige Wood | 0.45 |
| 3/29/19-35 | INTERIOR/ Living Room | C Baseboard Beige Wood | >1.00 |
| 3/29/19-36 | INTERIOR/ Living Room | D Baseboard Beige Wood | 0.34 |
| 3/29/19-37 | INTERIOR/ Living Room | Ceiling Beige Plaster | 0.08 |
| 3/29/19-38 | INTERIOR/ Living Room Closet | A Wall Beige Drywall | 0.04 |
| 3/29/19-39 | INTERIOR/ Living Room Closet | B Wall Beige Drywall | >1.00 |
| 3/29/19-40 | INTERIOR/ Living Room Closet | C Wall Beige Drywall | 0.03 |
| 3/29/19-41 | INTERIOR/ Living Room Closet | D Wall Beige Drywall | 0.02 |
| 3/29/19-42 | INTERIOR/ Living Room Closet | Ceiling Beige Drywall | >1.00 |
| 3/29/19-43 | INTERIOR/ Living Room Closet | A Door Brown Wood | 0.00 |
| 3/29/19-44 | INTERIOR/ Living Room Closet | A Door Casing Beige Metal | 0.17 |
| 3/29/19-45 | INTERIOR/ Living Room Closet | Shelf Beige Wood | 0.21 |
| 3/29/19-46 | INTERIOR/ Living Room Closet | B Shelf Support Beige Wood | 0.12 |
| 3/29/19-47 | INTERIOR/ Living Room Closet | A Baseboard Beige Wood | 0.13 |
| 3/29/19-48 | INTERIOR/ Living Room Closet | B Baseboard Beige Wood | 0.41 |
| 3/29/19-49 | INTERIOR/ Living Room Closet | C Baseboard Beige Wood | 0.13 |
| 3/29/19-50 | INTERIOR/ Living Room Closet | D Baseboard Beige Wood | 0.36 |
| 3/29/19-51 | INTERIOR/ Basement | A Wall Beige Plaster | 0.00 |
| 3/29/19-52 | INTERIOR/ Basement | B Wall Beige Plaster | 0.00 |
| 3/29/19-53 | INTERIOR/ Basement | C Wall Beige Plaster | 0.00 |
| 3/29/19-54 | INTERIOR/ Basement | D Wall Beige Plaster | 0.00 |
| 3/29/19-55 | INTERIOR/ Basement | Ceiling Beige Plaster | 0.00 |
| 3/29/19-56 | INTERIOR/ Basement | C Door Beige Wood | 0.02 |
| 3/29/19-57 | INTERIOR/ Basement | C Door Casing Beige Metal | 0.10 |
| 3/29/19-58 | INTERIOR/ Basement | Handrail Gray Wood | 0.00 |
| 3/29/19-59 | INTERIOR/ Basement | B Stringer Gray Wood | 0.00 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 5 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 11 PARNELL AVENUE, APARTMENT B, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 28 & 29, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|---------------------------------------------------------------------|---------------------------|------------------------------|------------------------------------|
| 11 PARNELL AVENUE, APARTMENT B (MEASURED 3/28 & 29/2019) | | | |
| 3/29/19-60 | INTERIOR/ Basement | D Stringer Gray Wood | 0.00 |
| 3/29/19-61 | INTERIOR/ Basement | Stair Tread Gray Wood | 0.00 |
| 3/29/19-62 | INTERIOR/ Basement | A Wall Trim Beige Wood | 0.13 |
| 3/29/19-63 | INTERIOR/ Basement | B Wall Trim Beige Wood | 0.01 |
| 3/29/19-64 | INTERIOR/ Basement | D Wall Trim Beige Wood | 0.06 |
| 3/29/19-65 | INTERIOR/ Basement | Beam Gray Steel | 0.58 |
| 3/29/19-66 | INTERIOR/ Basement | C Post Gray Steel | 0.60 |
| 3/29/19-67 | INTERIOR/ Basement | A Wall Beige Block | 0.11 |
| 3/29/19-68 | INTERIOR/ Basement | B Wall Beige Concrete | 0.00 |
| 3/29/19-69 | INTERIOR/ Basement | C Wall Beige Concrete | >1.00 |
| 3/29/19-70 | INTERIOR/ Basement | D Wall Beige Block | 0.00 |
| 3/29/19-71 | INTERIOR/ Basement | Floor Brown Cement | 0.04 |
| 3/29/19-72 | INTERIOR/ Stairs | A Wall Beige Plaster | 0.06 |
| 3/29/19-73 | INTERIOR/ Stairs | B Wall Beige Plaster | 0.02 |
| 3/29/19-74 | INTERIOR/ Stairs | D Wall Beige Plaster | 0.03 |
| 3/29/19-75 | INTERIOR/ Stairs | Ceiling Beige Plaster | 0.07 |
| 3/29/19-76 | INTERIOR/ Stairs | Handrail Varnish Wood | 0.02 |
| 3/29/19-77 | INTERIOR/ Stairs | B Stringer Brown Wood | 1.02 |
| 3/29/19-78 | INTERIOR/ Stairs | D Stringer Brown Wood | 0.74 |
| 3/29/19-79 | INTERIOR/ Stairs | Tread Brown Wood | 0.00 |
| 3/29/19-80 | INTERIOR/ Stairs | Riser Brown Wood | 1.07 |
| 3/29/19-81 | INTERIOR/ Stairs | Floor Brown Wood | 0.00 |
| 3/29/19-82 | INTERIOR/ Stairs | A Baseboard Brown Wood | 0.50 |
| 3/29/19-83 | INTERIOR/ Stairs | C Baseboard Brown Wood | 0.45 |
| 3/29/19-84 | INTERIOR/ Stairs | D Baseboard Brown Wood | 0.61 |
| 3/29/19-85 | INTERIOR/ Hall | A Wall Beige Drywall | 0.05 |
| 3/29/19-86 | INTERIOR/ Hall | B Wall Beige Drywall | 0.03 |
| 3/29/19-87 | INTERIOR/ Hall | C Wall Beige Drywall | 0.00 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 5 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 11 PARNELL AVENUE, APARTMENT B, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 28 & 29, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|---------------------------------------------------------------------|---------------------------|---------------------------------|------------------------------------|
| 11 PARNELL AVENUE, APARTMENT B (MEASURED 3/28 & 29/2019) | | | |
| 3/29/19-88 | INTERIOR/ Hall | D Wall Beige Drywall | 0.00 |
| 3/29/19-89 | INTERIOR/ Hall | Ceiling Beige Drywall | 0.07 |
| 3/29/19-90 | INTERIOR/ Hall | A Door Beige Wood | 0.02 |
| 3/29/19-91 | INTERIOR/ Hall | A Door Casing Beige Metal | 0.23 |
| 3/29/19-92 | INTERIOR/ Hall | B Door Beige Wood | 0.00 |
| 3/29/19-93 | INTERIOR/ Hall | B Door Casing Beige Metal | 0.22 |
| 3/29/19-94 | INTERIOR/ Hall | C Door Beige Wood | 0.00 |
| 3/29/19-95 | INTERIOR/ Hall | C Door Casing Beige Metal | 0.19 |
| 3/29/19-96 | INTERIOR/ Hall | Wall Cap Beige Wood | 0.20 |
| 3/29/19-97 | INTERIOR/ Hall | B Baseboard Beige Wood | 0.07 |
| 3/29/19-98 | INTERIOR/ Hall | C Baseboard Beige Wood | 0.40 |
| 3/29/19-99 | INTERIOR/ Hall | D Baseboard Beige Wood | 0.58 |
| 3/29/19-100 | INTERIOR/ Bathroom | A Wall Beige Plaster | 0.02 |
| 3/29/19-101 | INTERIOR/ Bathroom | B Wall Beige Plaster | 0.06 |
| 3/29/19-102 | INTERIOR/ Bathroom | C Wall Beige Plaster | 0.00 |
| 3/29/19-103 | INTERIOR/ Bathroom | D Wall Beige Plaster | 0.05 |
| 3/29/19-104 | INTERIOR/ Bathroom | Ceiling White Plaster | 0.00 |
| 3/29/19-105 | INTERIOR/ Bathroom | A Door White Wood | 0.00 |
| 3/29/19-106 | INTERIOR/ Bathroom | A Door Casing Beige Metal | 0.15 |
| 3/29/19-107 | INTERIOR/ Bathroom | C Window Sill Beige Wood | 0.00 |
| 3/29/19-108 | INTERIOR/ Bathroom | C Window Casing Brown Metal | 0.00 |
| 3/29/19-109 | INTERIOR/ Bathroom | C Window Sash Brown Metal | 0.00 |
| 3/29/19-110 | INTERIOR/ Bathroom | B Tub White Ceramic Tile | >1.00 |
| 3/29/19-111 | INTERIOR/ Bathroom | C Tub White Ceramic Tile | >1.00 |
| 3/29/19-112 | INTERIOR/ Bathroom | D Tub White Ceramic Tile | >1.00 |
| 3/29/19-113 | INTERIOR/ Bedroom 1 SW | A Wall Beige Plaster | 0.24 |
| 3/29/19-114 | INTERIOR/ Bedroom 1 SW | B Wall Beige Plaster | 0.28 |
| 3/29/19-115 | INTERIOR/ Bedroom 1 SW | C Wall Beige Plaster | 0.42 |
| 3/29/19-116 | INTERIOR/ Bedroom 1 SW | D Wall Beige Plaster | 0.39 |
| 3/29/19-117 | INTERIOR/ Bedroom 1 SW | Ceiling Beige Plaster | 0.00 |
| 3/29/19-118 | INTERIOR/ Bedroom 1 SW | A Door Beige Wood | 0.00 |
| 3/29/19-119 | INTERIOR/ Bedroom 1 SW | A Door Casing Beige Metal | 0.09 |
| 3/29/19-120 | INTERIOR/ Bedroom 1 SW | D Door Beige Wood | 0.04 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 5 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 11 PARNELL AVENUE, APARTMENT B, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 28 & 29, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|---------------------------------------------------------------------|---------------------------|-----------------------------|------------------------------------|
| 11 PARNELL AVENUE, APARTMENT B (MEASURED 3/28 & 29/2019) | | | |
| 3/29/19-121 | INTERIOR/Bedroom 1 SW | D Door Casing Beige Metal | >1.00 |
| 3/29/19-122 | INTERIOR/Bedroom 1 SW | B Window Sill Beige Wood | 0.32 |
| 3/29/19-123 | INTERIOR/Bedroom 1 SW | B Window Casing Brown Metal | 0.00 |
| 3/29/19-124 | INTERIOR/Bedroom 1 SW | B Window Sash Brown Metal | 0.00 |
| 3/29/19-125 | INTERIOR/Bedroom 1 SW | C Window Sill Beige Wood | 0.50 |
| 3/29/19-126 | INTERIOR/Bedroom 1 SW | C Window Casing Brown Metal | 0.00 |
| 3/29/19-127 | INTERIOR/Bedroom 1 SW | C Window Sash Brown Metal | 0.00 |
| 3/29/19-128 | INTERIOR/Bedroom 1 Closet | A Wall Beige Plaster | >1.00 |
| 3/29/19-129 | INTERIOR/Bedroom 1 Closet | B Wall Beige Plaster | >1.00 |
| 3/29/19-130 | INTERIOR/Bedroom 1 Closet | C Wall Beige Plaster | >1.00 |
| 3/29/19-131 | INTERIOR/Bedroom 1 Closet | D Wall Beige Plaster | 0.36 |
| 3/29/19-132 | INTERIOR/Bedroom 1 Closet | Ceiling Beige Plaster | >1.00 |
| 3/29/19-133 | INTERIOR/Bedroom 1 SW | A Baseboard Beige Wood | 0.34 |
| 3/29/19-134 | INTERIOR/Bedroom 1 SW | B Baseboard Beige Wood | 0.42 |
| 3/29/19-135 | INTERIOR/Bedroom 1 SW | C Baseboard Beige Wood | 0.48 |
| 3/29/19-136 | INTERIOR/Bedroom 1 SW | D Baseboard Beige Wood | 0.32 |
| 3/29/19-137 | INTERIOR/Bedroom 1 Closet | A Door Beige Wood | 0.02 |
| 3/29/19-138 | INTERIOR/Bedroom 1 Closet | A Door Casing Beige Metal | 0.15 |
| 3/29/19-139 | INTERIOR/Bedroom 1 Closet | A Shelf Beige Wood | 0.39 |
| 3/29/19-140 | INTERIOR/Bedroom 1 Closet | A Shelf Support Beige Wood | 0.37 |
| 3/29/19-141 | INTERIOR/Bedroom 1 Closet | A Baseboard Beige Wood | 0.49 |
| 3/29/19-142 | INTERIOR/Bedroom 1 Closet | B Baseboard Beige Wood | 0.39 |
| 3/29/19-143 | INTERIOR/Bedroom 1 Closet | C Baseboard Beige Wood | 0.23 |
| 3/29/19-144 | INTERIOR/Bedroom 1 Closet | D Baseboard Beige Wood | 0.30 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 5 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 11 PARNELL AVENUE, APARTMENT B, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 28 & 29, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|---------------------------------------------------------------------|-----------------------------|-------------------------------|------------------------------------|
| 11 PARNELL AVENUE, APARTMENT B (MEASURED 3/28 & 29/2019) | | | |
| 3/29/19-145 | INTERIOR/Hall Closet | A Wall Beige Plaster | 0.05 |
| 3/29/19-146 | INTERIOR/Hall Closet | B Wall Beige Plaster | 0.06 |
| 3/29/19-147 | INTERIOR/Hall Closet | C Wall Beige Plaster | >1.00 |
| 3/29/19-148 | INTERIOR/Hall Closet | Ceiling Beige Plaster | 0.13 |
| 3/29/19-149 | INTERIOR/Hall Closet | D Door Brown Wood | 0.00 |
| 3/29/19-150 | INTERIOR/Hall Closet | D Door Casing Beige Metal | 0.05 |
| 3/29/19-151 | INTERIOR/Hall Closet | Shelf Beige Wood | 0.03 |
| 3/29/19-152 | INTERIOR/Hall Closet | C Shelf Support Beige Wood | 0.05 |
| 3/29/19-153 | INTERIOR/Hall Closet | A Baseboard Beige Wood | 0.35 |
| 3/29/19-154 | INTERIOR/Hall Closet | B Baseboard Beige Wood | 0.33 |
| 3/29/19-155 | INTERIOR/Hall Closet | C Baseboard Beige Wood | 0.40 |
| 3/29/19-156 | INTERIOR/ Bedroom 2 SE | A Wall Beige Plaster | 0.01 |
| 3/29/19-157 | INTERIOR/ Bedroom 2 SE | B Wall Beige Plaster | 0.00 |
| 3/29/19-158 | INTERIOR/ Bedroom 2 SE | C Wall Beige Plaster | 0.00 |
| 3/29/19-159 | INTERIOR/ Bedroom 2 SE | D Wall Beige Plaster | 0.13 |
| 3/29/19-160 | INTERIOR/ Bedroom 2 SE | Ceiling Beige Plaster | 0.00 |
| 3/29/19-161 | INTERIOR/ Bedroom 2 SE | A Window Sill Beige Wood | 0.01 |
| 3/29/19-162 | INTERIOR/ Bedroom 2 SE | A Window Casing Brown Metal | 0.00 |
| 3/29/19-163 | INTERIOR/ Bedroom 2 SE | A Window Sash Brown Metal | 0.00 |
| 3/29/19-164 | INTERIOR/ Bedroom 2 SE | B Window Sill Beige Wood POOR | 0.00 |
| 3/29/19-165 | INTERIOR/ Bedroom 2 SE | B Window Casing Brown Metal | 0.00 |
| 3/29/19-166 | INTERIOR/ Bedroom 2 SE | B Window Sash Brown Metal | 0.00 |
| 3/29/19-167 | INTERIOR/ Bedroom 2 SE | C Door Beige Wood | 0.02 |
| 3/29/19-168 | INTERIOR/ Bedroom 2 SE | C Door Casing Beige Metal | 0.10 |
| 3/29/19-169 | INTERIOR/ Bedroom 2 SE | D Door Beige Wood | 0.00 |
| 3/29/19-170 | INTERIOR/ Bedroom 2 SE | D Door Casing Beige Metal | 0.08 |
| 3/29/19-171 | INTERIOR/ Bedroom 2 SE | A Baseboard Beige Wood | 0.36 |
| 3/29/19-172 | INTERIOR/ Bedroom 2 SE | B Baseboard Beige Wood | 0.31 |
| 3/29/19-173 | INTERIOR/ Bedroom 2 SE | C Baseboard Beige Wood | 0.36 |
| 3/29/19-174 | INTERIOR/ Bedroom 2 SE | D Baseboard Beige Wood | 0.35 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 5 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 11 PARNELL AVENUE, APARTMENT B, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 28 & 29, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|---------------------------------------------------------------------|----------------------------|---------------------------------|------------------------------------|
| 11 PARNELL AVENUE, APARTMENT B (MEASURED 3/28 & 29/2019) | | | |
| 3/29/19-175 | INTERIOR/ Bedroom 2 Closet | A Wall Beige Plaster | 0.29 |
| 3/29/19-176 | INTERIOR/ Bedroom 2 Closet | B Wall Beige Plaster | 0.20 |
| 3/29/19-177 | INTERIOR/ Bedroom 2 Closet | C Wall Beige Plaster | 0.35 |
| 3/29/19-178 | INTERIOR/ Bedroom 2 Closet | D Wall Beige Plaster | 0.02 |
| 3/29/19-179 | INTERIOR/ Bedroom 2 Closet | Ceiling Beige Plaster | 0.13 |
| 3/29/19-180 | INTERIOR/ Bedroom 2 Closet | B Door Beige Wood | 0.00 |
| 3/29/19-181 | INTERIOR/ Bedroom 2 Closet | B Door Casing Beige Metal | 0.12 |
| 3/29/19-182 | INTERIOR/ Bedroom 2 Closet | Shelf Beige Wood | 0.07 |
| 3/29/19-183 | INTERIOR/ Bedroom 2 Closet | A Shelf Support Beige Wood | 0.09 |
| 3/29/19-184 | INTERIOR/ Bedroom 2 Closet | A Baseboard Beige Wood | 0.29 |
| 3/29/19-185 | INTERIOR/ Bedroom 2 Closet | B Baseboard Beige Wood | 0.36 |
| 3/29/19-186 | INTERIOR/ Bedroom 2 Closet | C Baseboard Beige Wood | 0.52 |
| 3/29/19-187 | INTERIOR/ Bedroom 2 Closet | D Baseboard Beige Wood | 0.36 |
| 3/29/19-188 | INTERIOR/ Bedroom 2 SE | A Blinds White Vinyl | 0.00 |
| 3/28/19-557 | EXTERIOR/Rear C | C Storm Door Brown Metal | 0.00 |
| 3/28/19-558 | EXTERIOR/Rear C | C Storm Door Casing Brown Metal | 0.00 |
| 3/28/19-559 | EXTERIOR/Rear C | C Door Beige Metal | 0.00 |
| 3/28/19-560 | EXTERIOR/Rear C | C Door Casing Beige Metal | 0.00 |
| 3/28/19-561 | EXTERIOR/Rear C | C Lintel Beige Wood | 0.01 |
| 3/28/19-562 | EXTERIOR/Rear C | C Window Casing Brown Metal | 0.00 |
| 3/28/19-563 | EXTERIOR/Rear C | C Window Sash Brown Metal | 0.00 |
| 3/28/19-564 | EXTERIOR/Rear C | C Window Lintel Brown Steel | 0.07 |
| 3/28/19-565 | EXTERIOR/Side B | B Window Casing Brown Metal | 0.00 |
| 3/28/19-566 | EXTERIOR/Side B | B Window Sash Brown Metal | 0.00 |
| 3/28/19-567 | EXTERIOR/Side B | B Window Lintel Brown Steel | 0.17 |
| 3/28/19-568 | EXTERIOR/Front A | A Window Casing Brown Metal | 0.00 |
| 3/28/19-569 | EXTERIOR/Front A | A Window Sash Brown Metal | 0.00 |
| 3/28/19-570 | EXTERIOR/Front A | A Window Lintel Brown Steel | 0.14 |
| 3/28/19-571 | EXTERIOR/Porch A | A Trim Tan Wood | 0.00 |
| 3/28/19-572 | EXTERIOR/Porch A | A Wall White Brick | 0.04 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 5 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 11 PARNELL AVENUE, APARTMENT B, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 28 & 29, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|---------------------------------------------------------------------|------------------|--------------------------|------------------------------------|
| 11 PARNELL AVENUE, APARTMENT B (MEASURED 3/28 & 29/2019) | | | |
| 3/28/19-573 | EXTERIOR/Porch A | B Wall White Brick | 0.03 |
| 3/28/19-574 | EXTERIOR/Porch A | C Wall White Brick | 0.20 |
| 3/28/19-575 | EXTERIOR/Porch A | Ceiling White Wood | 0.01 |
| 3/28/19-576 | EXTERIOR/Porch A | B Wall Tan Brick | 0.04 |
| 3/28/19-578 | EXTERIOR/Porch A | B Storm Door Brown Metal | 0.00 |
| 3/28/19-579 | EXTERIOR/Porch A | B Door Casing White Wood | 0.00 |
| 3/28/19-580 | EXTERIOR/Porch A | B Door White Metal | 0.00 |
| 3/28/19-581 | EXTERIOR/Porch A | B Door Casing White Wood | 0.00 |
| 3/28/19-582 | EXTERIOR/Porch A | B Lintel White Wood | 0.00 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 6: LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1202 HUFFMAN AVENUE, APARTMENT A, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 25 & 26, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|-----------------------------------------------------------------------|-------------------------|-----------------------------|------------------------------------|
| 1202 HUFFMAN AVENUE, APARTMENT A (MEASURED 3/25 & 26/2019) | | | |
| 3/25/19-05 | INTERIOR/Kitchen | B Wall Beige Drywall | 0.29 |
| 3/25/19-06 | INTERIOR/Kitchen | C Wall Beige Drywall | 0.29 |
| 3/25/19-07 | INTERIOR/Kitchen | D Wall Beige Drywall | 0.00 |
| 3/25/19-08 | INTERIOR/Kitchen | A Wall Beige Drywall | 0.20 |
| 3/25/19-09 | INTERIOR/Kitchen | A Door Varnish Wood | 0.05 |
| 3/25/19-10 | INTERIOR/Kitchen | C Door Beige Metal | 0.00 |
| 3/25/19-11 | INTERIOR/Kitchen | B Wall White Ceramic | 3.73 |
| 3/25/19-12 | INTERIOR/Kitchen | A Door Casing Beige Metal | 0.13 |
| 3/25/19-13 | INTERIOR/Kitchen | C Door Casing Beige Metal | 0.00 |
| 3/25/19-14 | INTERIOR/Kitchen | Ceiling Beige Drywall | 0.21 |
| 3/25/19-15 | INTERIOR/Kitchen | B Cabinet Varnish Wood | 0.00 |
| 3/25/19-16 | INTERIOR/Kitchen | C Cabinet Varnish Wood | 0.00 |
| 3/25/19-17 | INTERIOR/Living Room | A Wall Beige Drywall | 0.03 |
| 3/25/19-18 | INTERIOR/Living Room | B Wall Beige Drywall | 0.08 |
| 3/25/19-19 | INTERIOR/Living Room | C Wall Beige Drywall | 0.04 |
| 3/25/19-20 | INTERIOR/Living Room | D Wall Beige Drywall | 0.00 |
| 3/25/19-21 | INTERIOR/Living Room | A Window Sill Brown Wood | 0.01 |
| 3/25/19-22 | INTERIOR/Living Room | C Window Sill Brown Wood | 0.00 |
| 3/25/19-23 | INTERIOR/Living Room | D Window Sill Brown Wood | 0.00 |
| 3/25/19-24 | INTERIOR/Living Room | A Window Casing Brown Metal | 0.00 |
| 3/25/19-25 | INTERIOR/Living Room | C Window Casing Brown Metal | 0.00 |
| 3/25/19-26 | INTERIOR/Living Room | D Window Casing Brown Metal | 0.00 |
| 3/25/19-27 | INTERIOR/Living Room | B Baseboard Beige Wood | 0.03 |
| 3/25/19-28 | INTERIOR/Living Room | A Baseboard Beige Wood | 0.49 |
| 3/25/19-29 | INTERIOR/Living Room | C Baseboard Beige Wood | 0.00 |
| 3/25/19-30 | INTERIOR/Living Room | D Baseboard Beige Wood | 0.00 |
| 3/25/19-31 | INTERIOR/Living Room | A Window Sash Brown Metal | 0.00 |
| 3/25/19-32 | INTERIOR/Living Room | C Window Sash Brown Metal | 0.00 |
| 3/25/19-33 | INTERIOR/Living Room | D Window Sash Brown Metal | 0.00 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 6 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1202 HUFFMAN AVENUE, APARTMENT A, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 25 & 26, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|-----------------------------------------------------------------------|-----------------------------|----------------------------|------------------------------------|
| 1202 HUFFMAN AVENUE, APARTMENT A (MEASURED 3/25 & 26/2019) | | | |
| 3/25/19-34 | INTERIOR/Living Room | Ceiling Beige Drywall | 0.14 |
| 3/25/19-35 | INTERIOR/Living Room | B Door Beige Metal | 0.00 |
| 3/25/19-36 | INTERIOR/Living Room | C Door Beige Wood | 0.00 |
| 3/25/19-38 | INTERIOR/Living Room | B Door Casing Beige Metal | 0.00 |
| 3/25/19-39 | INTERIOR/Living Room | C Door Casing Beige Wood | 0.09 |
| 3/25/19-37 | INTERIOR/Living Room Closet | A Door Beige Wood | 0.01 |
| 3/25/19-40 | INTERIOR/Living Room Closet | A Wall Beige Drywall | 0.05 |
| 3/25/19-41 | INTERIOR/Living Room Closet | B Wall Beige Drywall | 0.07 |
| 3/25/19-42 | INTERIOR/Living Room Closet | C Wall Beige Drywall | 0.06 |
| 3/25/19-43 | INTERIOR/Living Room Closet | D Wall Beige Drywall | 0.08 |
| 3/25/19-44 | INTERIOR/Living Room Closet | A Door Casing Beige Metal | 0.11 |
| 3/25/19-45 | INTERIOR/Living Room Closet | Shelf Beige Wood | 0.05 |
| 3/25/19-46 | INTERIOR/Living Room Closet | B Shelf Support Beige Wood | 0.38 |
| 3/25/19-47 | INTERIOR/Living Room Closet | B Shelf Support Beige Wood | 0.39 |
| 3/25/19-48 | INTERIOR/Living Room Closet | B Baseboard Beige Wood | 0.44 |
| 3/25/19-49 | INTERIOR/Living Room Closet | C Baseboard Beige Wood | 0.32 |
| 3/25/19-50 | INTERIOR/Living Room Closet | D Baseboard Beige Wood | 0.40 |
| 3/25/19-52 | INTERIOR/Basement | Stringer Grey Wood | 0.05 |
| 3/25/19-53 | INTERIOR/Basement | Tread Grey Wood | 0.00 |
| 3/25/19-54 | INTERIOR/Basement | Handrail White Wood | 0.14 |
| 3/25/19-55 | INTERIOR/Basement | Post Grey Metal | 0.02 |
| 3/25/19-56 | INTERIOR/Basement | Beam Grey Steel | 0.07 |
| 3/25/19-57 | INTERIOR/Basement | Ceiling Beige Drywall | 0.00 |
| 3/25/19-58 | INTERIOR/Basement | A Wall Beige Drywall | 0.00 |
| 3/25/19-59 | INTERIOR/Basement | B Wall Beige Drywall | 0.00 |
| 3/25/19-60 | INTERIOR/Basement | C Wall Beige Drywall | 0.00 |
| 3/25/19-61 | INTERIOR/Basement | D Wall Beige Drywall | 0.00 |
| 3/25/19-62 | INTERIOR/Basement | C Door Varnish Wood | 0.06 |
| 3/25/19-63 | INTERIOR/Basement | C Door Casing Beige Metal | 0.13 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 6 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1202 HUFFMAN AVENUE, APARTMENT A, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 25 & 26, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|-----------------------------------------------------------------------|-------------------|---------------------------|------------------------------------|
| 1202 HUFFMAN AVENUE, APARTMENT A (MEASURED 3/25 & 26/2019) | | | |
| 3/25/19-64 | INTERIOR/Basement | B Trim Beige Wood | 0.16 |
| 3/25/19-65 | INTERIOR/Basement | D Trim Beige Wood | 0.04 |
| 3/25/19-66 | INTERIOR/Stairs | A Wall Beige Drywall | 0.09 |
| 3/25/19-67 | INTERIOR/Stairs | B Wall Beige Drywall | 0.14 |
| 3/25/19-68 | INTERIOR/Stairs | C Wall Beige Drywall | 0.06 |
| 3/25/19-69 | INTERIOR/Stairs | D Wall Beige Drywall | 0.07 |
| 3/25/19-70 | INTERIOR/Stairs | B Stringer Beige Wood | 0.09 |
| 3/25/19-71 | INTERIOR/Stairs | D Stringer Beige Wood | 0.09 |
| 3/25/19-72 | INTERIOR/Stairs | Riser Beige Wood | 0.16 |
| 3/25/19-73 | INTERIOR/Stairs | Tread Varnish Wood | 0.05 |
| 3/25/19-74 | INTERIOR/Stairs | Handrail Varnish Wood | 0.00 |
| 3/25/19-75 | INTERIOR/Stairs | Floor Varnish Wood | 0.00 |
| 3/25/19-76 | INTERIOR/Stairs | A Baseboard Beige Wood | 0.69 |
| 3/25/19-77 | INTERIOR/Stairs | B Baseboard Beige Wood | 0.61 |
| 3/25/19-78 | INTERIOR/Stairs | C Baseboard Beige Wood | 0.53 |
| 3/25/19-79 | INTERIOR/Hall | A Wall Beige Drywall | 0.11 |
| 3/25/19-80 | INTERIOR/Hall | B Wall Beige Drywall | 0.11 |
| 3/25/19-81 | INTERIOR/Hall | C Wall Beige Drywall | 0.09 |
| 3/25/19-82 | INTERIOR/Hall | D Wall Beige Drywall | 0.11 |
| 3/25/19-83 | INTERIOR/Hall | Ceiling Beige Drywall | 0.03 |
| 3/25/19-84 | INTERIOR/Hall | C Door Brown Wood | 0.02 |
| 3/25/19-85 | INTERIOR/Hall | C Door Casing Beige Metal | 0.13 |
| 3/25/19-86 | INTERIOR/Hall | B Baseboard Beige Wood | 0.42 |
| 3/25/19-87 | INTERIOR/Hall | C Baseboard Beige Wood | 0.57 |
| 3/25/19-88 | INTERIOR/Hall | D Baseboard Beige Wood | 0.63 |
| 3/25/19-89 | INTERIOR/Hall | D Baseboard Beige Wood | 0.58 |
| 3/25/19-90 | INTERIOR/Hall | D Door Brown Wood | 0.02 |
| 3/25/19-91 | INTERIOR/Hall | D Door Casing Beige Metal | 0.07 |
| 3/25/19-92 | INTERIOR/Hall | A Door Brown Wood | 0.01 |
| 3/25/19-93 | INTERIOR/Hall | A Door Casing Beige Metal | 0.17 |
| 3/25/19-94 | INTERIOR/Hall | Wall Cap Beige Wood | 0.49 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 6 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1202 HUFFMAN AVENUE, APARTMENT A, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 25 & 26, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|-----------------------------------------------------------------------|--------------------------|-----------------------------|------------------------------------|
| 1202 HUFFMAN AVENUE, APARTMENT A (MEASURED 3/25 & 26/2019) | | | |
| 3/25/19-95 | INTERIOR/Bathroom | A Wall Beige Drywall | 0.44 |
| 3/25/19-96 | INTERIOR/Bathroom | B Wall Beige Drywall | 0.00 |
| 3/25/19-97 | INTERIOR/Bathroom | C Wall Beige Drywall | 0.00 |
| 3/25/19-98 | INTERIOR/Bathroom | D Wall Beige Drywall | 0.00 |
| 3/25/19-99 | INTERIOR/Bathroom | A Door Brown Wood | 0.01 |
| 3/25/19-100 | INTERIOR/Bathroom | A Door Casing Beige Metal | 0.19 |
| 3/25/19-101 | INTERIOR/Bathroom | Ceiling Beige Drywall | 0.00 |
| 3/25/19-102 | INTERIOR/Bathroom | C Window Sill Beige Wood | 0.00 |
| 3/25/19-103 | INTERIOR/Bathroom | C Window Sash Beige Metal | 0.00 |
| 3/25/19-104 | INTERIOR/Bathroom | C Window Casing Brown Metal | 0.00 |
| 3/25/19-105 | INTERIOR/Bathroom | C Wall White Ceramic | >1.00 |
| 3/25/19-106 | INTERIOR/Bathroom | B Wall White Ceramic | >1.00 |
| 3/25/19-107 | INTERIOR/Bathroom | D Wall White Ceramic | >1.00 |
| 3/25/19-108 | INTERIOR/Bedroom 1 SW | A Wall Beige Drywall | 0.06 |
| 3/25/19-109 | INTERIOR/Bedroom 1 SW | B Wall Beige Drywall | 0.02 |
| 3/25/19-110 | INTERIOR/Bedroom 1 SW | C Wall Beige Drywall | 0.06 |
| 3/25/19-111 | INTERIOR/Bedroom 1 SW | D Wall Beige Drywall | 0.07 |
| 3/25/19-112 | INTERIOR/Bedroom 1 SW | Ceiling Beige Drywall | 0.03 |
| 3/25/19-113 | INTERIOR/Bedroom 1 SW | B Door Brown Wood | 0.03 |
| 3/25/19-114 | INTERIOR/Bedroom 1 SW | B Door Casing Beige Metal | 0.17 |
| 3/25/19-115 | INTERIOR/Bedroom 1 SW | A Door Brown Wood | 0.01 |
| 3/25/19-116 | INTERIOR/Bedroom 1 SW | A Door Casing Beige Metal | 0.16 |
| 3/25/19-117 | INTERIOR/Bedroom 1 SW | C Window Sill Beige Wood | 0.00 |
| 3/25/19-118 | INTERIOR/Bedroom 1 SW | C Window Sash Brown Metal | 0.00 |
| 3/25/19-119 | INTERIOR/Bedroom 1 SW | C Window Casing Brown Metal | 0.00 |
| 3/25/19-120 | INTERIOR/Bedroom 1 SW | D Window Sill Beige Wood | 0.00 |
| 3/25/19-121 | INTERIOR/Bedroom 1 SW | D Window Sash Beige Metal | 0.00 |
| 3/25/19-122 | INTERIOR/Bedroom 1 SW | D Window Casing Brown Metal | 0.00 |
| 3/25/19-123 | INTERIOR/Bedroom 1 SW | A Baseboard Beige Wood | 0.13 |
| 3/25/19-124 | INTERIOR/Bedroom 1 SW | B Baseboard Beige Wood | 0.17 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 6 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1202 HUFFMAN AVENUE, APARTMENT A, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 25 & 26, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|-----------------------------------------------------------------------|---------------------------|---------------------------|------------------------------------|
| 1202 HUFFMAN AVENUE, APARTMENT A (MEASURED 3/25 & 26/2019) | | | |
| 3/25/19-125 | INTERIOR/Bedroom 1 SW | C Baseboard Beige Wood | 0.11 |
| 3/25/19-126 | INTERIOR/Bedroom 1 SW | D Baseboard Beige Wood | 0.11 |
| 3/25/19-127 | INTERIOR/Bedroom 1 Closet | A Wall Beige Drywall | 0.00 |
| 3/25/19-128 | INTERIOR/Bedroom 1 Closet | B Wall Beige Drywall | 0.00 |
| 3/25/19-129 | INTERIOR/Bedroom 1 Closet | C Wall Beige Drywall | 0.00 |
| 3/25/19-130 | INTERIOR/Bedroom 1 Closet | D Wall Beige Drywall | 0.00 |
| 3/25/19-131 | INTERIOR/Bedroom 1 Closet | Ceiling Beige Drywall | 0.00 |
| 3/25/19-132 | INTERIOR/Bedroom 1 Closet | C Door Brown Wood | 0.03 |
| 3/25/19-133 | INTERIOR/Bedroom 1 Closet | C Door Casing Beige Metal | 0.26 |
| 3/25/19-134 | INTERIOR/Bedroom 1 Closet | A Baseboard Beige Wood | 0.12 |
| 3/25/19-135 | INTERIOR/Bedroom 1 Closet | B Baseboard Beige Wood | 0.24 |
| 3/25/19-136 | INTERIOR/Bedroom 1 Closet | C Baseboard Beige Wood | 0.17 |
| 3/25/19-137 | INTERIOR/Bedroom 1 Closet | D Baseboard Beige Wood | 0.19 |
| 3/25/19-138 | INTERIOR/Bedroom 1 Closet | Shelf Beige Wood | 0.09 |
| 3/25/19-139 | INTERIOR/Bedroom 1 Closet | Shelf Support Beige Wood | 0.12 |
| 3/25/19-140 | INTERIOR/Hall Closet | A Wall Beige Drywall | 0.00 |
| 3/25/19-141 | INTERIOR/Hall Closet | C Wall Beige Drywall | 0.00 |
| 3/25/19-142 | INTERIOR/Hall Closet | D Wall Beige Drywall | 0.00 |
| 3/25/19-143 | INTERIOR/Hall Closet | Ceiling Beige Drywall | 0.00 |
| 3/25/19-144 | INTERIOR/Hall Closet | Shelf Beige Wood | 0.08 |
| 3/25/19-145 | INTERIOR/Hall Closet | Shelf Support Beige Wood | 0.79 |
| 3/25/19-146 | INTERIOR/Hall Closet | B Door Brown Wood | 0.02 |
| 3/25/19-147 | INTERIOR/Hall Closet | B Door Casing Beige Metal | 0.12 |
| 3/25/19-148 | INTERIOR/Bedroom 2 N | A Wall Beige Drywall | 0.10 |
| 3/25/19-149 | INTERIOR/Bedroom 2 N | B Wall Beige Drywall | 0.06 |
| 3/25/19-150 | INTERIOR/Bedroom 2 N | C Wall Beige Drywall | 0.06 |
| 3/25/19-151 | INTERIOR/Bedroom 2 N | D Wall Beige Drywall | 0.06 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 6 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1202 HUFFMAN AVENUE, APARTMENT A, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 25 & 26, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|-----------------------------------------------------------------------|---------------------------|-----------------------------|------------------------------------|
| 1202 HUFFMAN AVENUE, APARTMENT A (MEASURED 3/25 & 26/2019) | | | |
| 3/25/19-152 | INTERIOR/Bedroom 2 N | Ceiling Beige Drywall | 0.01 |
| 3/25/19-153 | INTERIOR/Bedroom 2 N | B Door Brown Wood | 0.02 |
| 3/25/19-154 | INTERIOR/Bedroom 2 N | B Door Casing Beige Metal | 0.02 |
| 3/25/19-155 | INTERIOR/Bedroom 2 N | C Door Brown Wood | 0.00 |
| 3/25/19-156 | INTERIOR/Bedroom 2 N | C Door Casing Beige Metal | 0.15 |
| 3/25/19-157 | INTERIOR/Bedroom 2 N | A Window Sill Beige Wood | 0.00 |
| 3/25/19-158 | INTERIOR/Bedroom 2 N | A Window Casing Brown Metal | 0.00 |
| 3/25/19-159 | INTERIOR/Bedroom 2 N | A Window Sash Brown Metal | 0.00 |
| 3/25/19-160 | INTERIOR/Bedroom 2 N | D Window Sill Beige Wood | 0.00 |
| 3/25/19-161 | INTERIOR/Bedroom 2 N | D Window Casing Brown Metal | 0.00 |
| 3/25/19-162 | INTERIOR/Bedroom 2 N | D Window Sash Brown Metal | 0.00 |
| 3/25/19-163 | INTERIOR/Bedroom 2 N | A Baseboard Beige Wood | 0.16 |
| 3/25/19-164 | INTERIOR/Bedroom 2 N | B Baseboard Beige Wood | 0.12 |
| 3/25/19-165 | INTERIOR/Bedroom 2 N | C Baseboard Beige Wood | 0.11 |
| 3/25/19-166 | INTERIOR/Bedroom 2 N | D Baseboard Beige Wood | 0.05 |
| 3/25/19-167 | INTERIOR/Bedroom 2 Closet | A Wall Beige Drywall | 0.00 |
| 3/25/19-168 | INTERIOR/Bedroom 2 Closet | B Wall Beige Drywall | 0.00 |
| 3/25/19-169 | INTERIOR/Bedroom 2 Closet | C Wall Beige Drywall | 0.00 |
| 3/25/19-170 | INTERIOR/Bedroom 2 Closet | D Wall Beige Drywall | 0.00 |
| 3/25/19-171 | INTERIOR/Bedroom 2 Closet | Ceiling Beige Drywall | 0.00 |
| 3/25/19-172 | INTERIOR/Bedroom 2 Closet | D Door Brown Wood | 0.00 |
| 3/25/19-173 | INTERIOR/Bedroom 2 Closet | D Door Casing Beige Metal | 0.13 |
| 3/25/19-174 | INTERIOR/Bedroom 2 Closet | A Baseboard Beige Wood | 0.12 |
| 3/25/19-175 | INTERIOR/Bedroom 2 Closet | B Baseboard Beige Wood | 0.11 |
| 3/25/19-176 | INTERIOR/Bedroom 2 Closet | C Baseboard Beige Wood | 0.10 |
| 3/25/19-177 | INTERIOR/Bedroom 2 Closet | D Baseboard Beige Wood | 0.05 |
| 3/25/19-178 | INTERIOR/Bedroom 2 Closet | Shelf Beige Wood | 0.12 |
| 3/25/19-179 | INTERIOR/Bedroom 2 Closet | Shelf Support Beige Wood | 0.15 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 6 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1202 HUFFMAN AVENUE, APARTMENT A, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 25 & 26, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|-----------------------------------------------------------------------|------------------------|----------------------------------|------------------------------------|
| 1202 HUFFMAN AVENUE, APARTMENT A (MEASURED 3/25 & 26/2019) | | | |
| 3/25/19-334 | EXTERIOR/Rear C | Railing Black Metal | 0.00 |
| 3/25/19-335 | EXTERIOR/Rear C | C Storm Door Brown Metal | 0.00 |
| 3/25/19-336 | EXTERIOR/Rear C | C Door Casing Brown Metal | 0.00 |
| 3/25/19-337 | EXTERIOR/Rear C | C Door Beige Metal | 0.00 |
| 3/25/19-338 | EXTERIOR/Rear C | C Door Casing Beige Metal | 1.51 |
| 3/25/19-339 | EXTERIOR/Rear C | Lintel White Metal POOR | 1.12 |
| 3/25/19-340 | EXTERIOR/Side D | D Window Casing Brown Metal | 0.00 |
| 3/25/19-341 | EXTERIOR/Side D | D Window Sash Brown Metal | 0.00 |
| 3/25/19-342 | EXTERIOR/Front A | A Window Casing Brown Metal | 0.00 |
| 3/25/19-343 | EXTERIOR/Front A | A Window Sash Brown Metal | 0.00 |
| 3/25/19-344 | EXTERIOR/Front A | A Storm Door Brown Metal | 0.00 |
| 3/25/19-345 | EXTERIOR/Front A | A Door Casing Brown Metal | 0.00 |
| 3/25/19-346 | EXTERIOR/Front A | A Trim Tan Wood | 0.00 |
| 3/25/19-347 | EXTERIOR/Front A | A Wall Beige Brick | 0.06 |
| 3/26/19-356 | EXTERIOR/Front A | Handrail Black Metal | 0.00 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 7: LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1202 HUFFMAN AVENUE, APARTMENT B, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 25 & 26, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|-----------------------------------------------------------------------|-------------------------|-----------------------------|------------------------------------|
| 1202 HUFFMAN AVENUE, APARTMENT B (MEASURED 3/25 & 26/2019) | | | |
| 3/25/19-184 | INTERIOR/Kitchen | A Wall Beige Drywall | 0.16 |
| 3/25/19-185 | INTERIOR/Kitchen | A Wall Beige Drywall | >1.00 |
| 3/25/19-186 | INTERIOR/Kitchen | B Wall Beige Drywall | 0.00 |
| 3/25/19-187 | INTERIOR/Kitchen | C Wall Beige Drywall | 0.18 |
| 3/25/19-188 | INTERIOR/Kitchen | D Wall Beige Drywall | 0.11 |
| 3/25/19-189 | INTERIOR/Kitchen | A Wall Beige Drywall | 0.10 |
| 3/25/19-190 | INTERIOR/Kitchen | Ceiling Beige Drywall | 0.00 |
| 3/25/19-191 | INTERIOR/Kitchen | A Door Brown Metal | 0.00 |
| 3/25/19-192 | INTERIOR/Kitchen | A Door Casing Beige Metal | 0.06 |
| 3/25/19-193 | INTERIOR/Kitchen | C Door Beige Metal | 0.00 |
| 3/25/19-194 | INTERIOR/Kitchen | C Door Casing Beige Metal | 0.00 |
| 3/25/19-195 | INTERIOR/Kitchen | D Wall White Ceramic | 0.00 |
| 3/25/19-196 | INTERIOR/Kitchen | D Cabinet Varnish Wood | 0.00 |
| 3/25/19-197 | INTERIOR/Kitchen | C Cabinet Varnish Wood | 0.00 |
| 3/25/19-198 | INTERIOR/Kitchen | A Cabinet Varnish Wood | 0.00 |
| 3/25/19-199 | INTERIOR/Living Room | A Wall Beige Drywall | 0.00 |
| 3/25/19-200 | INTERIOR/Living Room | B Wall Beige Drywall | 0.24 |
| 3/25/19-201 | INTERIOR/Living Room | C Wall Beige Drywall | 0.28 |
| 3/25/19-202 | INTERIOR/Living Room | D Wall Beige Drywall | 0.01 |
| 3/25/19-203 | INTERIOR/Living Room | Ceiling Beige Drywall | 0.04 |
| 3/25/19-204 | INTERIOR/Living Room | A Window Sill Beige Wood | 0.00 |
| 3/25/19-205 | INTERIOR/Living Room | A Window Sash Brown Metal | 0.00 |
| 3/25/19-206 | INTERIOR/Living Room | A Window Sash Brown Metal | 0.00 |
| 3/25/19-207 | INTERIOR/Living Room | C Window Sill Beige Wood | 0.00 |
| 3/25/19-208 | INTERIOR/Living Room | C Window Sash Brown Metal | 0.00 |
| 3/25/19-209 | INTERIOR/Living Room | C Window Sash Brown Metal | 0.00 |
| 3/25/19-210 | INTERIOR/Living Room | C Door Brown Wood | 0.00 |
| 3/25/19-211 | INTERIOR/Living Room | C Door Casing Beige Metal | 0.19 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 7 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1202 HUFFMAN AVENUE, APARTMENT B, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 25 & 26, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|-----------------------------------------------------------------------|-----------------------------|------------------------------|------------------------------------|
| 1202 HUFFMAN AVENUE, APARTMENT B (MEASURED 3/25 & 26/2019) | | | |
| 3/25/19-212 | INTERIOR/Living Room | D Door Brown Wood | 0.00 |
| 3/25/19-213 | INTERIOR/Living Room | D Door Casing Beige Metal | 0.00 |
| 3/25/19-214 | INTERIOR/Living Room Closet | A Wall Beige Drywall | 0.07 |
| 3/25/19-215 | INTERIOR/Living Room Closet | B Wall Beige Drywall | 0.15 |
| 3/25/19-216 | INTERIOR/Living Room Closet | C Wall Beige Drywall | 0.09 |
| 3/25/19-217 | INTERIOR/Living Room Closet | D Wall Beige Drywall | 0.08 |
| 3/25/19-218 | INTERIOR/Living Room Closet | Shelf Beige Wood | 0.01 |
| 3/25/19-219 | INTERIOR/Living Room Closet | Shelf Support Beige Wood | 0.06 |
| 3/25/19-220 | INTERIOR/Basement | A Wall Beige Drywall | 0.04 |
| 3/25/19-221 | INTERIOR/Basement | B Wall Beige Drywall | 0.01 |
| 3/25/19-222 | INTERIOR/Basement | C Wall Beige Drywall | 0.02 |
| 3/25/19-223 | INTERIOR/Basement | D Wall Beige Drywall | 0.05 |
| 3/25/19-224 | INTERIOR/Basement | Ceiling Beige Drywall | 0.03 |
| 3/25/19-225 | INTERIOR/Basement | A Trim Beige Wood | 0.06 |
| 3/25/19-226 | INTERIOR/Basement | B Trim Beige Wood | 0.06 |
| 3/25/19-227 | INTERIOR/Basement | D Trim Beige Wood | 0.03 |
| 3/25/19-228 | INTERIOR/Basement | Handrail White Wood | 0.12 |
| 3/25/19-229 | INTERIOR/Basement | Stringer Grey Wood | 0.03 |
| 3/25/19-230 | INTERIOR/Basement | Tread Grey Wood | 0.15 |
| 3/25/19-231 | INTERIOR/Basement | Beam Grey Steel | 0.02 |
| 3/25/19-232 | INTERIOR/Basement | A Post White Metal | 0.01 |
| 3/25/19-233 | INTERIOR/Basement | C Post Grey Metal | 0.06 |
| 3/25/19-234 | INTERIOR/Basement | A Wall Beige Concrete | >1.00 |
| 3/25/19-235 | INTERIOR/Basement | B Wall Beige Block | 0.00 |
| 3/25/19-240 | INTERIOR/Basement | C Wall Beige Concrete | 0.00 |
| 3/25/19-241 | INTERIOR/Basement | D Wall Beige Block | 0.02 |
| 3/25/19-242 | INTERIOR/Basement | A Wall Beige Concrete | 0.01 |
| 3/25/19-243 | INTERIOR/Basement | A Wall Beige Concrete | >1.00 |
| 3/25/19-244 | INTERIOR/Stairs | A Wall Beige Drywall | 0.05 |
| 3/25/19-245 | INTERIOR/Stairs | B Wall Beige Drywall | 0.07 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 7 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1202 HUFFMAN AVENUE, APARTMENT B, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 25 & 26, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|-----------------------------------------------------------------------|-----------------------|---------------------------|------------------------------------|
| 1202 HUFFMAN AVENUE, APARTMENT B (MEASURED 3/25 & 26/2019) | | | |
| 3/25/19-246 | INTERIOR/Stairs | D Wall Beige Drywall | 0.05 |
| 3/25/19-247 | INTERIOR/Stairs | Ceiling Beige Drywall | 0.05 |
| 3/25/19-248 | INTERIOR/Stairs | Handrail Varnish Wood | 0.05 |
| 3/25/19-249 | INTERIOR/Stairs | B Stringer Beige Wood | 0.19 |
| 3/25/19-250 | INTERIOR/Stairs | D Stringer Beige Wood | 0.21 |
| 3/25/19-251 | INTERIOR/Stairs | Riser Beige Wood | 0.06 |
| 3/25/19-252 | INTERIOR/Stairs | Tread Varnish Wood | 0.00 |
| 3/25/19-253 | INTERIOR/Stairs | A Baseboard Beige Wood | 0.07 |
| 3/25/19-254 | INTERIOR/Stairs | C Baseboard Beige Wood | 0.06 |
| 3/25/19-255 | INTERIOR/Stairs | D Baseboard Beige Wood | 0.06 |
| 3/25/19-256 | INTERIOR/Stairs | Floor Varnish Wood | 0.00 |
| 3/25/19-257 | INTERIOR/Hall | A Wall Beige Drywall | 0.13 |
| 3/25/19-258 | INTERIOR/Hall | B Wall Beige Drywall | 0.06 |
| 3/25/19-259 | INTERIOR/Hall | C Wall Beige Drywall | 0.03 |
| 3/25/19-260 | INTERIOR/Hall | D Wall Beige Drywall | 0.00 |
| 3/25/19-261 | INTERIOR/Hall | Ceiling Beige Drywall | 0.02 |
| 3/25/19-262 | INTERIOR/Hall | A Door Brown Wood | 0.00 |
| 3/25/19-263 | INTERIOR/Hall | A Door Casing Beige Metal | 0.12 |
| 3/25/19-264 | INTERIOR/Hall | B Door Brown Wood | 0.00 |
| 3/25/19-265 | INTERIOR/Hall | B Door Casing Beige Metal | 0.00 |
| 3/25/19-266 | INTERIOR/Hall | C Door Brown Wood | 0.00 |
| 3/25/19-267 | INTERIOR/Hall | C Door Casing Beige Metal | 0.07 |
| 3/25/19-305 | INTERIOR/Hall | Wall Cap Beige Wood | 0.06 |
| 3/25/19-268 | INTERIOR/Bathroom | A Wall Beige Drywall | 0.00 |
| 3/25/19-269 | INTERIOR/Bathroom | B Wall Beige Drywall | 0.00 |
| 3/25/19-270 | INTERIOR/Bathroom | C Wall Beige Drywall | 0.00 |
| 3/25/19-271 | INTERIOR/Bathroom | D Wall Beige Drywall | 0.00 |
| 3/25/19-272 | INTERIOR/Bathroom | Ceiling Beige Drywall | 0.00 |
| 3/25/19-273 | INTERIOR/Bathroom | A Door Brown Wood | 0.00 |
| 3/25/19-274 | INTERIOR/Bathroom | A Door Casing Beige Metal | 0.06 |
| 3/25/19-275 | INTERIOR/Bedroom 1 SE | A Wall Beige Drywall | 0.08 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 7 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1202 HUFFMAN AVENUE, APARTMENT B, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 25 & 26, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|-----------------------------------------------------------------------|---------------------------|-----------------------------|------------------------------------|
| 1202 HUFFMAN AVENUE, APARTMENT B (MEASURED 3/25 & 26/2019) | | | |
| 3/25/19-276 | INTERIOR/Bedroom 1 SE | B Wall Beige Drywall | 0.33 |
| 3/25/19-277 | INTERIOR/Bedroom 1 SE | C Wall Beige Drywall | 0.13 |
| 3/25/19-278 | INTERIOR/Bedroom 1 SE | D Wall Beige Drywall | 0.10 |
| 3/25/19-279 | INTERIOR/Bedroom 1 SE | Ceiling Beige Drywall | 0.05 |
| 3/25/19-280 | INTERIOR/Bedroom 1 SE | A Door Brown Wood | 0.00 |
| 3/25/19-281 | INTERIOR/Bedroom 1 SE | A Door Casing Beige Metal | 0.06 |
| 3/25/19-282 | INTERIOR/Bedroom 1 SE | D Door Brown Wood | 0.00 |
| 3/25/19-283 | INTERIOR/Bedroom 1 SE | D Door Casing Beige Metal | 0.16 |
| 3/25/19-284 | INTERIOR/Bedroom 1 SE | C Window Sill Beige Wood | 0.00 |
| 3/25/19-285 | INTERIOR/Bedroom 1 SE | C Window Casing Brown Metal | 0.00 |
| 3/25/19-286 | INTERIOR/Bedroom 1 SE | C Window Sash Brown Metal | 0.00 |
| 3/25/19-287 | INTERIOR/Bedroom 1 Closet | A Wall Beige Drywall | 0.12 |
| 3/25/19-288 | INTERIOR/Bedroom 1 Closet | B Wall Beige Drywall | 0.04 |
| 3/25/19-289 | INTERIOR/Bedroom 1 Closet | C Wall Beige Drywall | 0.06 |
| 3/25/19-290 | INTERIOR/Bedroom 1 Closet | D Wall Beige Drywall | 0.02 |
| 3/25/19-291 | INTERIOR/Bedroom 1 Closet | Ceiling Beige Drywall | 0.06 |
| 3/25/19-292 | INTERIOR/Bedroom 1 Closet | A Door Brown Wood | 0.00 |
| 3/25/19-293 | INTERIOR/Bedroom 1 Closet | A Door Casing Beige Metal | 0.06 |
| 3/25/19-294 | INTERIOR/Bedroom 1 Closet | Shelf Beige Wood | 0.05 |
| 3/25/19-295 | INTERIOR/Bedroom 1 Closet | A Shelf Support Beige Wood | 0.07 |
| 3/25/19-296 | INTERIOR/Hall Closet | D Door Brown Wood | 0.02 |
| 3/25/19-297 | INTERIOR/Hall Closet | D Door Casing Beige Metal | 0.22 |
| 3/25/19-298 | INTERIOR/Hall Closet | A Wall Beige Drywall | 0.07 |
| 3/25/19-299 | INTERIOR/Hall Closet | B Wall Beige Drywall | 0.12 |
| 3/25/19-300 | INTERIOR/Hall Closet | C Wall Beige Drywall | 0.10 |
| 3/25/19-301 | INTERIOR/Hall Closet | D Wall Beige Drywall | 0.07 |
| 3/25/19-302 | INTERIOR/Hall Closet | Ceiling Beige Drywall | 0.11 |
| 3/25/19-303 | INTERIOR/Hall Closet | Shelf Beige Wood | 0.07 |
| 3/25/19-304 | INTERIOR/Hall Closet | A Shelf Support Beige Wood | 0.04 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 7 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1202 HUFFMAN AVENUE, APARTMENT B, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 25 & 26, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|-----------------------------------------------------------------------|---------------------------|---------------------------------|------------------------------------|
| 1202 HUFFMAN AVENUE, APARTMENT B (MEASURED 3/25 & 26/2019) | | | |
| 3/25/19-306 | INTERIOR/Bedroom 2 | A Wall Beige Drywall | 0.31 |
| 3/25/19-307 | INTERIOR/Bedroom 2 | B Wall Beige Drywall | 0.10 |
| 3/25/19-308 | INTERIOR/Bedroom 2 | C Wall Beige Drywall | 0.10 |
| 3/25/19-309 | INTERIOR/Bedroom 2 | D Wall Beige Drywall | 0.22 |
| 3/25/19-310 | INTERIOR/Bedroom 2 | Ceiling Beige Drywall | 0.06 |
| 3/25/19-311 | INTERIOR/Bedroom 2 | C Door Brown Wood | 0.00 |
| 3/25/19-312 | INTERIOR/Bedroom 2 | C Door Casing Beige Metal | 0.30 |
| 3/25/19-313 | INTERIOR/Bedroom 2 | A Window Sill Beige Wood | 0.00 |
| 3/25/19-314 | INTERIOR/Bedroom 2 | A Window Sash Brown Metal | 0.00 |
| 3/25/19-315 | INTERIOR/Bedroom 2 | A Window Sash Brown Metal | 0.00 |
| 3/25/19-316 | INTERIOR/Bedroom 2 | D Door Brown Wood | 0.00 |
| 3/25/19-317 | INTERIOR/Bedroom 2 | D Door Casing Beige Metal | 0.09 |
| 3/25/19-318 | INTERIOR/Bedroom 2 Closet | A Wall Beige Drywall | 0.15 |
| 3/25/19-319 | INTERIOR/Bedroom 2 Closet | B Wall Beige Drywall | 0.22 |
| 3/25/19-320 | INTERIOR/Bedroom 2 Closet | C Wall Beige Drywall | 0.14 |
| 3/25/19-321 | INTERIOR/Bedroom 2 Closet | D Wall Beige Drywall | 0.14 |
| 3/25/19-322 | INTERIOR/Bedroom 2 Closet | Ceiling Beige Drywall | 0.09 |
| 3/25/19-323 | INTERIOR/Bedroom 2 Closet | Shelf Beige Wood | 0.06 |
| 3/25/19-324 | INTERIOR/Bedroom 2 Closet | B Shelf Support Beige Wood | 0.08 |
| 3/25/19-327 | EXTERIOR/Rear C | C Door Beige Metal | 0.00 |
| 3/25/19-328 | EXTERIOR/Rear C | C Door Casing Beige Wood | 1.75 |
| 3/25/19-329 | EXTERIOR/Rear C | Lintel White Metal POOR | 0.97 |
| 3/25/19-330 | EXTERIOR/Rear C | C Storm Door Brown Metal | 0.00 |
| 3/25/19-331 | EXTERIOR/Rear C | C Door Casing White Wood | 0.00 |
| 3/25/19-332 | EXTERIOR/Rear C | C Window Casing Brown Metal | 0.00 |
| 3/25/19-333 | EXTERIOR/Rear C | C Window Sash Brown Metal | 0.00 |
| 3/25/19-348 | EXTERIOR/Front A | B Wall White Brick | 0.03 |
| 3/25/19-349 | EXTERIOR/Front A | C Wall White Brick | 0.02 |
| 3/25/19-350 | EXTERIOR/Front A | D Storm Door Brown Metal | 0.00 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 7 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1202 HUFFMAN AVENUE, APARTMENT B, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 25 & 26, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|-----------------------------------------------------------------------|------------------|---------------------------------|------------------------------------|
| 1202 HUFFMAN AVENUE, APARTMENT B (MEASURED 3/25 & 26/2019) | | | |
| 3/25/19-351 | EXTERIOR/Front A | D Storm Door Casing Brown Metal | 0.00 |
| 3/25/19-356 | EXTERIOR/Front A | A Handrail Black Metal | 0.00 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 8: LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1204 HUFFMAN AVENUE, APARTMENT A, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 26, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|--------------------------------------------------------------|----------------------|-----------------------------|------------------------------------|
| 1204 HUFFMAN AVENUE, APARTMENT A (MEASURED 3/26/2019) | | | |
| 3/26/19-03 | INTERIOR/Kitchen | A Wall Beige Drywall | 0.01 |
| 3/26/19-04 | INTERIOR/Kitchen | B Wall Beige Drywall | 0.01 |
| 3/26/19-05 | INTERIOR/Kitchen | C Wall Beige Drywall | 0.12 |
| 3/26/19-06 | INTERIOR/Kitchen | D Wall Beige Drywall | 0.00 |
| 3/26/19-07 | INTERIOR/Kitchen | Ceiling Beige Drywall | 0.00 |
| 3/26/19-08 | INTERIOR/Kitchen | A Door Beige Wood | 0.00 |
| 3/26/19-09 | INTERIOR/Kitchen | A Door Casing Beige Metal | 0.22 |
| 3/26/19-10 | INTERIOR/Kitchen | C Door White Metal | 0.00 |
| 3/26/19-11 | INTERIOR/Kitchen | C Door Casing White Wood | 0.00 |
| 3/26/19-12 | INTERIOR/Kitchen | B Wall White Ceramic | 0.00 |
| 3/26/19-13 | INTERIOR/Kitchen | A Cabinet Varnish Wood | 0.00 |
| 3/26/19-14 | INTERIOR/Kitchen | B Cabinet Varnish Wood | 0.00 |
| 3/26/19-15 | INTERIOR/Kitchen | C Cabinet Varnish Wood | 0.00 |
| 3/26/19-16 | INTERIOR/Kitchen | A Baseboard White Wood | 0.00 |
| 3/26/19-17 | INTERIOR/Kitchen | B Baseboard White Wood | 0.00 |
| 3/26/19-18 | INTERIOR/Kitchen | C Baseboard White Wood | 0.00 |
| 3/26/19-19 | INTERIOR/Kitchen | D Baseboard White Wood | 0.00 |
| 3/26/19-20 | INTERIOR/Living Room | A Wall Beige Drywall | 0.04 |
| 3/26/19-21 | INTERIOR/Living Room | B Wall Beige Drywall | 0.00 |
| 3/26/19-22 | INTERIOR/Living Room | C Wall Beige Drywall | 0.11 |
| 3/26/19-23 | INTERIOR/Living Room | D Wall Beige Drywall | 0.00 |
| 3/26/19-24 | INTERIOR/Living Room | Ceiling Beige Drywall | 0.07 |
| 3/26/19-25 | INTERIOR/Living Room | A Window Sill Black Wood | 0.02 |
| 3/26/19-26 | INTERIOR/Living Room | A Window Casing White Vinyl | 0.00 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 8 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1204 HUFFMAN AVENUE, APARTMENT A, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 26, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm²) |
|--------------------------------------------------------------|-----------------------------|-----------------------------|-----------------------------------------|
| 1204 HUFFMAN AVENUE, APARTMENT A (MEASURED 3/26/2019) | | | |
| 3/26/19-27 | INTERIOR/Living Room | A Window Sash White Vinyl | 0.00 |
| 3/26/19-28 | INTERIOR/Living Room | C Window Sill Black Wood | 0.01 |
| 3/26/19-29 | INTERIOR/Living Room | C Window Casing White Vinyl | 0.00 |
| 3/26/19-30 | INTERIOR/Living Room | C Window Sash White Vinyl | 0.00 |
| 3/26/19-31 | INTERIOR/Living Room | B Door White Metal | 0.00 |
| 3/26/19-32 | INTERIOR/Living Room | B Door Casing White Metal | 0.00 |
| 3/26/19-33 | INTERIOR/Living Room | C Door White Wood | 0.00 |
| 3/26/19-34 | INTERIOR/Living Room | C Door Casing White Metal | 0.13 |
| 3/26/19-35 | INTERIOR/Living Room | A Baseboard White Wood | 0.00 |
| 3/26/19-36 | INTERIOR/Living Room | B Baseboard White Wood | 0.00 |
| 3/26/19-37 | INTERIOR/Living Room | C Baseboard White Wood | 0.00 |
| 3/26/19-38 | INTERIOR/Living Room | D Baseboard White Wood | 0.00 |
| 3/26/19-39 | INTERIOR/Living Room Closet | A Wall Beige Drywall | 0.14 |
| 3/26/19-40 | INTERIOR/Living Room Closet | B Wall Beige Drywall | 0.07 |
| 3/26/19-41 | INTERIOR/Living Room Closet | C Wall Beige Drywall | 0.06 |
| 3/26/19-42 | INTERIOR/Living Room Closet | D Wall Beige Drywall | 0.06 |
| 3/26/19-43 | INTERIOR/Living Room Closet | Ceiling Beige Drywall | 0.07 |
| 3/26/19-44 | INTERIOR/Living Room Closet | C Door White Wood | 0.00 |
| 3/26/19-45 | INTERIOR/Living Room Closet | C Door Casing White Metal | 0.14 |
| 3/26/19-46 | INTERIOR/Living Room Closet | B Baseboard White Wood | 0.00 |
| 3/26/19-47 | INTERIOR/Living Room Closet | C Baseboard White Wood | 0.00 |
| 3/26/19-48 | INTERIOR/Living Room Closet | D Baseboard White Wood | 0.00 |
| 3/26/19-49 | INTERIOR/Living Room Closet | Shelf Beige Wood | 0.17 |
| 3/26/19-50 | INTERIOR/Living Room Closet | Shelf Support Beige Wood | 0.05 |
| 3/26/19-51 | INTERIOR/Basement | A Wall Beige Drywall | 0.01 |
| 3/26/19-52 | INTERIOR/Basement | B Wall Beige Drywall | 0.01 |
| 3/26/19-53 | INTERIOR/Basement | C Wall Beige Drywall | 0.04 |
| 3/26/19-54 | INTERIOR/Basement | D Wall Beige Drywall | 0.00 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 8 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1204 HUFFMAN AVENUE, APARTMENT A, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 26, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|--------------------------------------------------------------|-------------------|---------------------------|------------------------------------|
| 1204 HUFFMAN AVENUE, APARTMENT A (MEASURED 3/26/2019) | | | |
| 3/26/19-55 | INTERIOR/Basement | Ceiling Beige Drywall | 0.00 |
| 3/26/19-56 | INTERIOR/Basement | A Trim Beige Wood | 0.02 |
| 3/26/19-57 | INTERIOR/Basement | B Trim Beige Wood | 0.03 |
| 3/26/19-58 | INTERIOR/Basement | D Trim Beige Wood | 0.07 |
| 3/26/19-59 | INTERIOR/Basement | C Door White Wood | 0.05 |
| 3/26/19-60 | INTERIOR/Basement | C Door Casing White Metal | 0.23 |
| 3/26/19-61 | INTERIOR/Basement | Handrail Gray Wood | 0.00 |
| 3/26/19-62 | INTERIOR/Basement | B Stringer Gray Wood | 0.07 |
| 3/26/19-63 | INTERIOR/Basement | D Stringer Gray Wood | 0.16 |
| 3/26/19-64 | INTERIOR/Basement | Stair Tread Gray Wood | 0.16 |
| 3/26/19-65 | INTERIOR/Basement | Beam Gray Steel | 0.06 |
| 3/26/19-66 | INTERIOR/Basement | A Post Gray Steel | 0.01 |
| 3/26/19-67 | INTERIOR/Basement | Floor Grey Concrete | 0.00 |
| 3/26/19-68 | INTERIOR/Stairs | A Wall Beige Drywall | 0.03 |
| 3/26/19-69 | INTERIOR/Stairs | B Wall Beige Drywall | 0.25 |
| 3/26/19-70 | INTERIOR/Stairs | D Wall Beige Drywall | 0.09 |
| 3/26/19-71 | INTERIOR/Stairs | Ceiling Beige Drywall | 0.16 |
| 3/26/19-72 | INTERIOR/Stairs | Handrail Brown Wood | 0.00 |
| 3/26/19-73 | INTERIOR/Stairs | B Stringer Brown Wood | 0.07 |
| 3/26/19-74 | INTERIOR/Stairs | D Stringer Brown Wood | 0.07 |
| 3/26/19-75 | INTERIOR/Stairs | Tread Brown Wood | 0.00 |
| 3/26/19-76 | INTERIOR/Stairs | Riser Brown Wood | 0.00 |
| 3/26/19-77 | INTERIOR/Stairs | Floor Brown Wood | 0.00 |
| 3/26/19-78 | INTERIOR/Stairs | A Baseboard White Wood | 0.05 |
| 3/26/19-79 | INTERIOR/Stairs | B Baseboard White Wood | 0.06 |
| 3/26/19-80 | INTERIOR/Stairs | C Baseboard White Wood | 0.21 |
| 3/26/19-81 | INTERIOR/Hall | A Wall Beige Drywall | 0.00 |
| 3/26/19-82 | INTERIOR/Hall | B Wall Beige Drywall | 0.30 |
| 3/26/19-83 | INTERIOR/Hall | C Wall Beige Drywall | 0.00 |
| 3/26/19-84 | INTERIOR/Hall | D Wall Beige Drywall | 0.00 |
| 3/26/19-85 | INTERIOR/Hall | Ceiling Beige Drywall | 0.00 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 8 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1204 HUFFMAN AVENUE, APARTMENT A, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 26, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|--------------------------------------------------------------|-----------------------|-----------------------------|------------------------------------|
| 1204 HUFFMAN AVENUE, APARTMENT A (MEASURED 3/26/2019) | | | |
| 3/26/19-86 | INTERIOR/Hall | A Door White Wood | 0.00 |
| 3/26/19-87 | INTERIOR/Hall | A Door Casing White Metal | 0.00 |
| 3/26/19-88 | INTERIOR/Hall | C Door White Wood | 0.00 |
| 3/26/19-89 | INTERIOR/Hall | C Door Casing White Metal | 0.00 |
| 3/26/19-90 | INTERIOR/Hall | D Door White Wood | 0.00 |
| 3/26/19-91 | INTERIOR/Hall | D Door Casing White Metal | 0.00 |
| 3/26/19-92 | INTERIOR/Hall | Wall Cap White Wood | 0.06 |
| 3/26/19-93 | INTERIOR/Hall | B Baseboard White Wood | 0.00 |
| 3/26/19-94 | INTERIOR/Hall | C Baseboard White Wood | 0.00 |
| 3/26/19-95 | INTERIOR/Hall | D Baseboard White Wood | 0.00 |
| 3/26/19-96 | INTERIOR/ Bathroom | A Wall Beige Plaster | 0.00 |
| 3/26/19-97 | INTERIOR/ Bathroom | B Wall Beige Plaster | 0.00 |
| 3/26/19-98 | INTERIOR/ Bathroom | C Wall Beige Plaster | 0.00 |
| 3/26/19-99 | INTERIOR/ Bathroom | D Wall Beige Plaster | 0.00 |
| 3/26/19-100 | INTERIOR/ Bathroom | A Door White Wood | 0.00 |
| 3/26/19-101 | INTERIOR/ Bathroom | A Door Casing White Metal | 0.00 |
| 3/26/19-102 | INTERIOR/ Bathroom | Ceiling Beige Plaster | 0.00 |
| 3/26/19-103 | INTERIOR/ Bathroom | B Tub White Ceramic Tile | 0.00 |
| 3/26/19-104 | INTERIOR/ Bathroom | C Tub White Ceramic Tile | 0.00 |
| 3/26/19-105 | INTERIOR/ Bathroom | D Tub White Ceramic Tile | 0.00 |
| 3/26/19-106 | INTERIOR/ Bathroom | C Window Casing White Vinyl | 0.00 |
| 3/26/19-107 | INTERIOR/ Bathroom | C Window Sash White Vinyl | 0.00 |
| 3/26/19-108 | INTERIOR/Bedroom 1 SW | A Wall Beige Plaster | 0.00 |
| 3/26/19-109 | INTERIOR/Bedroom 1 SW | B Wall Beige Plaster | 0.00 |
| 3/26/19-110 | INTERIOR/Bedroom 1 SW | C Wall Beige Plaster | 0.00 |
| 3/26/19-111 | INTERIOR/Bedroom 1 SW | D Wall Beige Plaster | 0.04 |
| 3/26/19-112 | INTERIOR/Bedroom 1 SW | Ceiling Beige Plaster | 0.00 |
| 3/26/19-113 | INTERIOR/Bedroom 1 SW | A Door White Wood | 0.00 |
| 3/26/19-114 | INTERIOR/Bedroom 1 SW | A Door Casing White Metal | 0.00 |
| 3/26/19-115 | INTERIOR/Bedroom 1 SW | B Door White Wood | 0.00 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 8 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1204 HUFFMAN AVENUE, APARTMENT A, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 26, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|--------------------------------------------------------------|---------------------------|-----------------------------|------------------------------------|
| 1204 HUFFMAN AVENUE, APARTMENT A (MEASURED 3/26/2019) | | | |
| 3/26/19-116 | INTERIOR/Bedroom 1 SW | B Door Casing White Metal | 0.00 |
| 3/26/19-117 | INTERIOR/Bedroom 1 SW | C Window Sill Beige Wood | 0.00 |
| 3/26/19-118 | INTERIOR/Bedroom 1 SW | C Window Casing White Vinyl | 0.00 |
| 3/26/19-119 | INTERIOR/Bedroom 1 SW | C Window Sash White Vinyl | 0.00 |
| 3/26/19-120 | INTERIOR/Bedroom 1 SW | A Baseboard White Wood | 0.00 |
| 3/26/19-121 | INTERIOR/Bedroom 1 SW | B Baseboard White Wood | 0.00 |
| 3/26/19-122 | INTERIOR/Bedroom 1 SW | C Baseboard White Wood | 0.00 |
| 3/26/19-123 | INTERIOR/Bedroom 1 SW | D Baseboard White Wood | 0.00 |
| 3/26/19-124 | INTERIOR/Bedroom 1 SW | D Baseboard White Wood | 0.00 |
| 3/26/19-125 | INTERIOR/Bedroom 1 Closet | A Wall Beige Plaster | 0.00 |
| 3/26/19-126 | INTERIOR/Bedroom 1 Closet | B Wall Beige Plaster | 0.00 |
| 3/26/19-127 | INTERIOR/Bedroom 1 Closet | C Wall Beige Plaster | 0.00 |
| 3/26/19-128 | INTERIOR/Bedroom 1 Closet | D Wall Beige Plaster | 0.13 |
| 3/26/19-129 | INTERIOR/Bedroom 1 Closet | C Door White Wood | 0.00 |
| 3/26/19-130 | INTERIOR/Bedroom 1 Closet | C Door Casing White Metal | 0.00 |
| 3/26/19-131 | INTERIOR/Bedroom 1 Closet | Ceiling Beige Plaster | 0.00 |
| 3/26/19-132 | INTERIOR/Bedroom 1 Closet | Shelf Beige Wood | 0.00 |
| 3/26/19-133 | INTERIOR/Bedroom 1 Closet | Shelf Support Beige Wood | 0.00 |
| 3/26/19-134 | INTERIOR/Bedroom 1 Closet | A Baseboard White Wood | 0.00 |
| 3/26/19-135 | INTERIOR/Bedroom 1 Closet | B Baseboard White Wood | 0.00 |
| 3/26/19-136 | INTERIOR/Bedroom 1 Closet | C Baseboard White Wood | 0.00 |
| 3/26/19-137 | INTERIOR/Bedroom 1 Closet | D Baseboard White Wood | 0.00 |
| 3/26/19-138 | INTERIOR/Hall Closet | A Wall Beige Plaster | 0.00 |
| 3/26/19-139 | INTERIOR/Hall Closet | C Wall Beige Plaster | 0.00 |
| 3/26/19-140 | INTERIOR/Hall Closet | D Wall Beige Plaster | 0.00 |
| 3/26/19-141 | INTERIOR/Hall Closet | Ceiling Beige Plaster | 0.00 |
| 3/26/19-142 | INTERIOR/Hall Closet | B Door White Wood | 0.00 |
| 3/26/19-143 | INTERIOR/Hall Closet | D Door Casing White Metal | 0.00 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 8 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1204 HUFFMAN AVENUE, APARTMENT A, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 26, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|--------------------------------------------------------------|----------------------------|-----------------------------|------------------------------------|
| 1204 HUFFMAN AVENUE, APARTMENT A (MEASURED 3/26/2019) | | | |
| 3/26/19-144 | INTERIOR/Hall Closet | Shelf White Wood | 0.00 |
| 3/26/19-145 | INTERIOR/Hall Closet | C Shelf Support White Wood | 0.00 |
| 3/26/19-146 | INTERIOR/Hall Closet | A Baseboard Beige Wood | 0.00 |
| 3/26/19-147 | INTERIOR/Hall Closet | C Baseboard Beige Wood | 0.00 |
| 3/26/19-148 | INTERIOR/Hall Closet | D Baseboard Beige Wood | 0.00 |
| 3/26/19-149 | INTERIOR/ Bedroom 2 NW | A Wall Beige Plaster | 0.00 |
| 3/26/19-150 | INTERIOR/ Bedroom 2 NW | B Wall Beige Plaster | 0.00 |
| 3/26/19-151 | INTERIOR/ Bedroom 2 NW | C Wall Beige Plaster | 0.00 |
| 3/26/19-152 | INTERIOR/ Bedroom 2 NW | D Wall Beige Plaster | 0.10 |
| 3/26/19-153 | INTERIOR/ Bedroom 2 NW | Ceiling Beige Plaster | 0.00 |
| 3/26/19-154 | INTERIOR/ Bedroom 2 NW | A Window Sill Beige Wood | 0.00 |
| 3/26/19-155 | INTERIOR/ Bedroom 2 NW | A Window Casing White Vinyl | 0.00 |
| 3/26/19-156 | INTERIOR/ Bedroom 2 NW | A Window Sash White Vinyl | 0.00 |
| 3/26/19-157 | INTERIOR/ Bedroom 2 NW | B Door White Wood | 0.00 |
| 3/26/19-158 | INTERIOR/ Bedroom 2 NW | B Door Casing White Metal | 0.00 |
| 3/26/19-159 | INTERIOR/ Bedroom 2 NW | C Door White Wood | 0.00 |
| 3/26/19-160 | INTERIOR/ Bedroom 2 NW | C Door Casing White Metal | 0.00 |
| 3/26/19-161 | INTERIOR/ Bedroom 2 NW | A Baseboard White Wood | 0.00 |
| 3/26/19-162 | INTERIOR/ Bedroom 2 NW | B Baseboard White Wood | 0.00 |
| 3/26/19-163 | INTERIOR/ Bedroom 2 NW | C Baseboard White Wood | 0.00 |
| 3/26/19-164 | INTERIOR/ Bedroom 2 NW | D Baseboard White Wood | 0.00 |
| 3/26/19-165 | INTERIOR/ Bedroom 2 Closet | A Wall Beige Plaster | 0.00 |
| 3/26/19-166 | INTERIOR/ Bedroom 2 Closet | B Wall Beige Plaster | 0.00 |
| 3/26/19-167 | INTERIOR/ Bedroom 2 Closet | C Wall Beige Plaster | 0.00 |
| 3/26/19-168 | INTERIOR/ Bedroom 2 Closet | D Wall Beige Plaster | 0.00 |
| 3/26/19-169 | INTERIOR/ Bedroom 2 Closet | Ceiling Beige Plaster | 0.00 |
| 3/26/19-170 | INTERIOR/ Bedroom 2 Closet | D Door White Wood | 0.00 |
| 3/26/19-171 | INTERIOR/ Bedroom 2 Closet | D Door Casing White Metal | 0.00 |
| 3/26/19-172 | INTERIOR/ Bedroom 2 Closet | Shelf White Wood | 0.00 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 8 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1204 HUFFMAN AVENUE, APARTMENT A, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 26, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm²) |
|--------------------------------------------------------------|----------------------------|----------------------------------|-----------------------------------------|
| 1204 HUFFMAN AVENUE, APARTMENT A (MEASURED 3/26/2019) | | | |
| 3/26/19-173 | INTERIOR/ Bedroom 2 Closet | A Shelf Support White Wood | 0.00 |
| 3/26/19-174 | INTERIOR/ Bedroom 2 Closet | B Baseboard White Wood | 0.00 |
| 3/26/19-175 | INTERIOR/ Bedroom 2 Closet | C Baseboard White Wood | 0.00 |
| 3/26/19-176 | INTERIOR/ Bedroom 2 Closet | D Baseboard White Wood | 0.00 |
| 3/26/19-320 | EXTERIOR/Rear C | C Storm Door Brown Metal | 0.00 |
| 3/26/19-321 | EXTERIOR/Rear C | C Storm Door Casing Brown Metal | 0.00 |
| 3/26/19-322 | EXTERIOR/Rear C | C Door Lintel Beige Steel | 0.98 |
| 3/26/19-323 | EXTERIOR/Rear C | C Door Casing Beige Wood | 0.00 |
| 3/26/19-324 | EXTERIOR/Rear C | C Door Beige Metal | 0.00 |
| 3/26/19-325 | EXTERIOR/Rear C | C Window Casing Brown Metal | 0.00 |
| 3/26/19-326 | EXTERIOR/Rear C | C Window Sash Brown Metal | 0.00 |
| 3/26/19-334 | EXTERIOR/Front A | A Window Casing Brown Metal | 0.00 |
| 3/26/19-335 | EXTERIOR/Front A | A Window Sash Brown Metal | 0.00 |
| 3/26/19-336 | EXTERIOR/Front A | A Storm Door Brown Metal | 0.00 |
| 3/26/19-337 | EXTERIOR/Front A | A Storm Door Casing Brown Metal | 0.00 |
| 3/26/19-338 | EXTERIOR/Front A | A Door White Metal | 0.00 |
| 3/26/19-339 | EXTERIOR/Front A | A Door Casing White Metal | >1.00 |
| 3/26/19-340 | EXTERIOR/Front A | A Wall Tan Brick | 0.00 |
| 3/26/19-341 | EXTERIOR/Front A | D Wall White Brick | 1.43 |
| 3/26/19-342 | EXTERIOR/Front A | C Wall White Brick | 1.52 |
| 3/26/19-350 | EXTERIOR/Front A | Door Lintel Beige Metal | 2.52 |
| 3/26/19-351 | EXTERIOR/Front A | Ceiling White Wood | 0.00 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 9: LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1204 HUFFMAN AVENUE, APARTMENT B, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 26, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|--------------------------------------------------------------|-----------------------------|----------------------------------|------------------------------------|
| 1204 HUFFMAN AVENUE, APARTMENT B (MEASURED 3/26/2019) | | | |
| 3/26/19-179 | INTERIOR/Kitchen | A Wall Beige Drywall | 0.15 |
| 3/26/19-180 | INTERIOR/Kitchen | B Wall Beige Drywall | 0.01 |
| 3/26/19-181 | INTERIOR/Kitchen | C Wall Beige Drywall | 0.33 |
| 3/26/19-182 | INTERIOR/Kitchen | D Wall Beige Drywall | 0.31 |
| 3/26/19-183 | INTERIOR/Kitchen | Ceiling Beige Drywall | 0.00 |
| 3/26/19-184 | INTERIOR/Kitchen | D Wall White Ceramic | 0.00 |
| 3/26/19-185 | INTERIOR/Kitchen | A Cabinet Varnish Wood | 0.01 |
| 3/26/19-186 | INTERIOR/Kitchen | C Cabinet Varnish Wood | 0.00 |
| 3/26/19-187 | INTERIOR/Kitchen | D Cabinet Varnish Wood | 0.00 |
| 3/26/19-199 | INTERIOR/Kitchen | A Door Beige Wood | 0.00 |
| 3/26/19-200 | INTERIOR/Kitchen | A Door Casing Beige Metal | >1.00 |
| 3/26/19-188 | INTERIOR/Living Room | A Wall Beige Drywall | 0.38 |
| 3/26/19-189 | INTERIOR/Living Room | B Wall Beige Drywall | 0.39 |
| 3/26/19-190 | INTERIOR/Living Room | C Wall Beige Drywall | 0.19 |
| 3/26/19-191 | INTERIOR/Living Room | D Wall Beige Drywall | 0.00 |
| 3/26/19-192 | INTERIOR/Living Room | Ceiling Beige Drywall | 0.06 |
| 3/26/19-193 | INTERIOR/Living Room | A Window Sill Beige Wood | 0.00 |
| 3/26/19-194 | INTERIOR/Living Room | A Window Casing Brown Metal | 0.00 |
| 3/26/19-195 | INTERIOR/Living Room | A Window Sash Brown Metal | 0.00 |
| 3/26/19-196 | INTERIOR/Living Room | C Window Sill Beige Wood | 0.00 |
| 3/26/19-197 | INTERIOR/Living Room | C Window Casing Brown Metal | 0.00 |
| 3/26/19-198 | INTERIOR/Living Room | C Window Sash Brown Metal | 0.00 |
| 3/26/19-201 | INTERIOR/Living Room | B Door Beige Metal | 0.00 |
| 3/26/19-202 | INTERIOR/Living Room | B Door Casing Beige Metal | 0.00 |
| 3/26/19-203 | INTERIOR/Living Room | C Door Beige Wood | 0.00 |
| 3/26/19-204 | INTERIOR/Living Room | C Door Casing Beige Metal | >1.00 |
| 3/26/19-205 | INTERIOR/Living Room | A Baseboard Beige Wood | 0.18 |
| 3/26/19-206 | INTERIOR/Living Room | B Baseboard Beige Wood | 0.04 |
| 3/26/19-207 | INTERIOR/Living Room | C Baseboard Beige Wood | 0.00 |
| 3/26/19-208 | INTERIOR/Living Room | D Baseboard Beige Wood | 0.03 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 9 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1204 HUFFMAN AVENUE, APARTMENT B, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 26, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|--------------------------------------------------------------|-----------------------------|---------------------------|------------------------------------|
| 1204 HUFFMAN AVENUE, APARTMENT B (MEASURED 3/26/2019) | | | |
| 3/26/19-209 | INTERIOR/Living Room Closet | A Wall Beige Drywall | 0.51 |
| 3/26/19-210 | INTERIOR/Living Room Closet | B Wall Beige Drywall | 0.19 |
| 3/26/19-211 | INTERIOR/Living Room Closet | C Wall Beige Drywall | 0.13 |
| 3/26/19-212 | INTERIOR/Living Room Closet | D Wall Beige Drywall | 0.15 |
| 3/26/19-213 | INTERIOR/Living Room Closet | Ceiling Beige Drywall | 0.26 |
| 3/26/19-214 | INTERIOR/Living Room Closet | A Door Beige Wood | 0.02 |
| 3/26/19-215 | INTERIOR/Living Room Closet | A Door Casing Beige Metal | 0.14 |
| 3/26/19-216 | INTERIOR/Living Room Closet | Shelf Beige Wood | 0.07 |
| 3/26/19-217 | INTERIOR/Living Room Closet | Shelf Support Beige Wood | 0.13 |
| 3/26/19-218 | INTERIOR/Basement | A Wall Beige Drywall | 0.33 |
| 3/26/19-219 | INTERIOR/Basement | B Wall Beige Drywall | 0.24 |
| 3/26/19-220 | INTERIOR/Basement | C Wall Beige Drywall | 0.17 |
| 3/26/19-221 | INTERIOR/Basement | D Wall Beige Drywall | 0.18 |
| 3/26/19-222 | INTERIOR/Basement | Ceiling Beige Drywall | 0.38 |
| 3/26/19-223 | INTERIOR/Basement | A Trim Beige Wood | 0.14 |
| 3/26/19-224 | INTERIOR/Basement | B Trim Beige Wood | 0.37 |
| 3/26/19-225 | INTERIOR/Basement | D Trim Beige Wood | 0.29 |
| 3/26/19-226 | INTERIOR/Basement | Handrail Brown Wood | 0.11 |
| 3/26/19-227 | INTERIOR/Basement | B Stringer Brown Wood | 0.04 |
| 3/26/19-228 | INTERIOR/Basement | D Stringer Brown Wood | 0.06 |
| 3/26/19-229 | INTERIOR/Basement | Stair Tread Brown Wood | 0.08 |
| 3/26/19-230 | INTERIOR/Basement | Beam Gray Steel | 0.03 |
| 3/26/19-231 | INTERIOR/Basement | A Post Gray Steel | 0.05 |
| 3/26/19-232 | INTERIOR/Basement | A Wall Beige Block | 0.00 |
| 3/26/19-233 | INTERIOR/Basement | B Wall Beige Block | 0.00 |
| 3/26/19-234 | INTERIOR/Basement | C Wall Beige Concrete | 0.00 |
| 3/26/19-235 | INTERIOR/Basement | D Wall Beige Block | 0.00 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 9 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1204 HUFFMAN AVENUE, APARTMENT B, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 26, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|--------------------------------------------------------------|-----------------|---------------------------|------------------------------------|
| 1204 HUFFMAN AVENUE, APARTMENT B (MEASURED 3/26/2019) | | | |
| 3/26/19-236 | INTERIOR/Stairs | A Wall Beige Drywall | 0.36 |
| 3/26/19-237 | INTERIOR/Stairs | B Wall Beige Drywall | 0.36 |
| 3/26/19-238 | INTERIOR/Stairs | D Wall Beige Drywall | 0.24 |
| 3/26/19-239 | INTERIOR/Stairs | Ceiling Beige Drywall | 0.01 |
| 3/26/19-240 | INTERIOR/Stairs | Handrail Varnish Wood | 0.00 |
| 3/26/19-241 | INTERIOR/Stairs | B Stringer Beige Wood | 0.03 |
| 3/26/19-242 | INTERIOR/Stairs | D Stringer Beige Wood | 0.06 |
| 3/26/19-243 | INTERIOR/Stairs | Stair Tread Varnish Wood | 0.00 |
| 3/26/19-244 | INTERIOR/Stairs | Riser Beige Wood | 0.44 |
| 3/26/19-245 | INTERIOR/Stairs | Floor Varnish Wood | 0.00 |
| 3/26/19-246 | INTERIOR/Stairs | A Baseboard Beige Wood | 0.00 |
| 3/26/19-247 | INTERIOR/Stairs | C Baseboard Beige Wood | 0.07 |
| 3/26/19-248 | INTERIOR/Stairs | D Baseboard Beige Wood | 0.16 |
| 3/26/19-249 | INTERIOR/Hall | A Wall Beige Drywall | 0.22 |
| 3/26/19-250 | INTERIOR/Hall | B Wall Beige Drywall | 0.43 |
| 3/26/19-251 | INTERIOR/Hall | C Wall Beige Drywall | 0.26 |
| 3/26/19-252 | INTERIOR/Hall | D Wall Beige Drywall | 0.43 |
| 3/26/19-253 | INTERIOR/Hall | Ceiling Beige Drywall | 0.05 |
| 3/26/19-254 | INTERIOR/Hall | A Door Beige Wood | 0.00 |
| 3/26/19-255 | INTERIOR/Hall | A Door Casing Beige Metal | 0.10 |
| 3/26/19-256 | INTERIOR/Hall | B Door Beige Wood | 0.00 |
| 3/26/19-257 | INTERIOR/Hall | B Door Casing Beige Metal | 0.02 |
| 3/26/19-259 | INTERIOR/Hall | C Door Beige Wood | 0.02 |
| 3/26/19-259 | INTERIOR/Hall | C Door Casing Beige Metal | 0.06 |
| 3/26/19-260 | INTERIOR/Hall | Wall Cap Beige Wood | 0.06 |
| 3/26/19-261 | INTERIOR/Hall | B Baseboard Beige Wood | 0.31 |
| 3/26/19-262 | INTERIOR/Hall | C Baseboard Beige Wood | 0.11 |
| 3/26/19-263 | INTERIOR/Hall | D Baseboard Beige Wood | 0.06 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 9 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1204 HUFFMAN AVENUE, APARTMENT B, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 26, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|--------------------------------------------------------------|---------------------------|---------------------------------|------------------------------------|
| 1204 HUFFMAN AVENUE, APARTMENT B (MEASURED 3/26/2019) | | | |
| 3/26/19-264 | INTERIOR/Bathroom | A Wall Beige Drywall | 0.05 |
| 3/26/19-265 | INTERIOR/Bathroom | B Wall Beige Drywall | 0.07 |
| 3/26/19-266 | INTERIOR/Bathroom | C Wall Beige Drywall | 0.11 |
| 3/26/19-267 | INTERIOR/Bathroom | D Wall Beige Drywall | 0.14 |
| 3/26/19-268 | INTERIOR/Bathroom | Ceiling Beige Drywall | 0.15 |
| 3/29/19-269 | INTERIOR/Bathroom | C Window Sill Beige Wood | 0.05 |
| 3/26/19-270 | INTERIOR/Bathroom | C Window Casing Brown Metal | 0.00 |
| 3/26/19-271 | INTERIOR/Bathroom | C Window Sash Brown Metal | 0.00 |
| 3/26/19-272 | INTERIOR/Bathroom | A Door Beige Wood | 0.00 |
| 3/26/19-273 | INTERIOR/Bathroom | A Door Casing Beige Metal | 0.10 |
| 3/26/19-274 | INTERIOR/Bathroom | B Tub White Ceramic Tile | >1.00 |
| 3/26/19-275 | INTERIOR/Bathroom | C Tub White Ceramic Tile | >1.00 |
| 3/26/19-276 | INTERIOR/Bathroom | D Tub White Ceramic Tile | >1.00 |
| 3/26/19-277 | INTERIOR/Bedroom 1 SE | A Wall Beige Plaster | 0.39 |
| 3/26/19-278 | INTERIOR/Bedroom 1 SE | B Wall Beige Plaster | 0.43 |
| 3/26/19-279 | INTERIOR/Bedroom 1 SE | C Wall Beige Plaster | 0.23 |
| 3/26/19-280 | INTERIOR/Bedroom 1 SE | D Wall Beige Plaster | 0.22 |
| 3/26/19-281 | INTERIOR/Bedroom 1 SE | Ceiling Beige Plaster | 0.02 |
| 3/26/19-282 | INTERIOR/Bedroom 1 SE | C Window Sill Beige Wood | 0.00 |
| 3/26/19-283 | INTERIOR/Bedroom 1 SE | C Window Casing Brown Metal | 0.00 |
| 3/26/19-284 | INTERIOR/Bedroom 1 SE | C Window Sash Brown Metal | 0.00 |
| 3/26/19-285 | INTERIOR/Bedroom 1 SE | A Door Beige Wood | 0.01 |
| 3/26/19-286 | INTERIOR/Bedroom 1 SE | A Door Casing Beige Metal | 0.07 |
| 3/26/19-287 | INTERIOR/Bedroom 1 SE | D Door Beige Wood | 0.06 |
| 3/26/19-288 | INTERIOR/Bedroom 1 SE | D Door Casing Beige Metal | 0.09 |
| 3/26/19-289 | INTERIOR/Bedroom 1 SE | A Baseboard Beige Wood | 0.40 |
| 3/26/19-290 | INTERIOR/Bedroom 1 SE | C Baseboard Beige Wood | 0.14 |
| 3/26/19-291 | INTERIOR/Bedroom 1 SE | D Baseboard Beige Wood | 0.13 |
| 3/26/19-292 | INTERIOR/Bedroom 1 Closet | A Wall Beige Plaster | 0.05 |
| 3/26/19-293 | INTERIOR/Bedroom 1 Closet | B Wall Beige Plaster | 0.68 |
| 3/26/19-294 | INTERIOR/Bedroom 1 Closet | C Wall Beige Plaster | 0.30 |
| 3/26/19-295 | INTERIOR/Bedroom 1 Closet | D Wall Beige Plaster | 0.67 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 9 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1204 HUFFMAN AVENUE, APARTMENT B, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 26, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|--------------------------------------------------------------|---------------------------|---------------------------------|------------------------------------|
| 1204 HUFFMAN AVENUE, APARTMENT B (MEASURED 3/26/2019) | | | |
| 3/26/19-296 | INTERIOR/Bedroom 1 Closet | Ceiling Beige Plaster | 0.33 |
| 3/26/19-297 | INTERIOR/Bedroom 1 Closet | C Door Beige Wood | 0.00 |
| 3/26/19-298 | INTERIOR/Bedroom 1 Closet | Shelf Beige Wood | 0.21 |
| 3/26/19-299 | INTERIOR/Bedroom 1 Closet | Shelf Support Beige Wood | 0.07 |
| 3/26/19-301 | INTERIOR/Bedroom 1 Closet | C Door Casing Beige Metal | 0.05 |
| 3/26/19-300 | INTERIOR/Hall Closet | A Wall Beige Plaster | 0.06 |
| 3/26/19-302 | INTERIOR/Hall Closet | B Wall Beige Plaster | 0.02 |
| 3/26/19-303 | INTERIOR/Hall Closet | C Wall Beige Plaster | 0.03 |
| 3/26/19-304 | INTERIOR/Hall Closet | Ceiling Beige Plaster | 0.01 |
| 3/26/19-305 | INTERIOR/Hall Closet | Shelf Beige Wood | 0.03 |
| 3/26/19-306 | INTERIOR/Hall Closet | Shelf Support Beige Wood | 0.07 |
| 3/26/19-307 | INTERIOR/Hall Closet | D Door Beige Wood | 0.00 |
| 3/26/19-308 | INTERIOR/Hall Closet | D Door Casing Beige Wood | 0.06 |
| 3/26/19-309 | INTERIOR/Bedroom 2 NE | A Wall Beige Plaster | 0.57 |
| 3/26/19-310 | INTERIOR/Bedroom 2 NE | B Wall Beige Plaster | 0.58 |
| 3/26/19-311 | INTERIOR/Bedroom 2 NE | C Wall Beige Plaster | 0.68 |
| 3/26/19-312 | INTERIOR/Bedroom 2 NE | D Wall Beige Plaster | 0.73 |
| 3/26/19-313 | INTERIOR/Bedroom 2 NE | Ceiling Beige Plaster | 0.09 |
| 3/26/19-314 | INTERIOR/Bedroom 2 NE | A Window Sill Beige Wood | 0.02 |
| 3/26/19-315 | INTERIOR/Bedroom 2 NE | A Window Casing Brown Metal | 0.00 |
| 3/26/19-316 | INTERIOR/Bedroom 2 NE | A Window Sash Brown Metal | 0.00 |
| 3/26/19-317 | INTERIOR/Bedroom 2 NE | C Door Casing Beige Metal | 0.06 |
| 3/26/19-318 | INTERIOR/Bedroom 2 NE | D Door Beige Wood | 0.01 |
| 3/26/19-319 | INTERIOR/Bedroom 2 NE | D Door Casing Beige Wood | 0.19 |
| 3/26/19-327 | EXTERIOR/Rear C | C Storm Door Brown Metal | 0.00 |
| 3/26/19-328 | EXTERIOR/Rear C | C Storm Door Casing Brown Metal | 0.00 |
| 3/26/19-329 | EXTERIOR/Rear C | C Door Casing White Metal | 0.00 |
| 3/26/19-330 | EXTERIOR/Rear C | C Door White Metal | 0.00 |
| 3/26/19-331 | EXTERIOR/Rear C | C Window Casing Brown Metal | 0.00 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 9 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1204 HUFFMAN AVENUE, APARTMENT B, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 26, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|--------------------------------------------------------------|-------------------------|----------------------------------|------------------------------------|
| 1204 HUFFMAN AVENUE, APARTMENT B (MEASURED 3/26/2019) | | | |
| 3/26/19-332 | EXTERIOR/Rear C | C Window Sash Brown Metal | 0.00 |
| 3/26/19-333 | EXTERIOR/Rear C | C Lintel POOR | 0.55 |
| 3/26/19-343 | EXTERIOR/Front A | C Wall White Brick | 1.31 |
| 3/26/19-344 | EXTERIOR/Front A | D Wall White Brick | 1.56 |
| 3/26/19-345 | EXTERIOR/Front A | D Storm Door Brown Metal | 0.00 |
| 3/26/19-346 | EXTERIOR/Front A | D Storm Door Casing Brown Metal | 0.00 |
| 3/26/19-347 | EXTERIOR/Front A | D Door White Metal | 0.00 |
| 3/26/19-348 | EXTERIOR/Front A | D Door Casing White Metal | 1.61 |
| 3/26/19-349 | EXTERIOR/Front A | D Door Lintel Beige Steel | 1.75 |
| 3/26/19-352 | EXTERIOR/Front A | A Window Casing Brown Metal | 0.00 |
| 3/26/19-353 | EXTERIOR/Front A | A Window Sash Brown Metal | 0.00 |
| 3/26/19-354 | EXTERIOR/Front A | Trim Tan Wood | 1.69 |
| 3/26/19-355 | EXTERIOR/Front A | Handrail Black Metal | 0.00 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 10: LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1208 HUFFMAN AVENUE, APARTMENT A, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 26, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|--------------------------------------------------------------|-------------------------|-----------------------------|------------------------------------|
| 1208 HUFFMAN AVENUE, APARTMENT A (MEASURED 3/26/2019) | | | |
| 3/26/19-368 | INTERIOR/Kitchen | A Wall Beige Drywall | 0.00 |
| 3/26/19-369 | INTERIOR/Kitchen | B Wall Beige Drywall | 0.21 |
| 3/26/19-370 | INTERIOR/Kitchen | C Wall Beige Drywall | 0.13 |
| 3/26/19-371 | INTERIOR/Kitchen | D Wall Beige Drywall | 0.00 |
| 3/26/19-372 | INTERIOR/Kitchen | Ceiling Beige Drywall | 0.00 |
| 3/26/19-373 | INTERIOR/Kitchen | A Door Beige Wood | 0.00 |
| 3/26/19-374 | INTERIOR/Kitchen | A Door Casing Beige Metal | 0.21 |
| 3/26/19-375 | INTERIOR/Kitchen | C Door Beige Metal | 0.00 |
| 3/26/19-376 | INTERIOR/Kitchen | C Door Casing Beige Metal | 0.00 |
| 3/26/19-377 | INTERIOR/Kitchen | B Wall White Ceramic | >1.00 |
| 3/26/19-378 | INTERIOR/Kitchen | B Cabinet Varnish Wood | 0.00 |
| 3/26/19-379 | INTERIOR/Kitchen | A Cabinet Varnish Wood | 0.00 |
| 3/26/19-380 | INTERIOR/Kitchen | C Cabinet Varnish Wood | 0.00 |
| 3/26/19-381 | INTERIOR/Living Room | A Wall Beige Drywall | 0.08 |
| 3/26/19-382 | INTERIOR/Living Room | B Wall Beige Drywall | 0.12 |
| 3/26/19-383 | INTERIOR/Living Room | C Wall Beige Drywall | 0.13 |
| 3/26/19-384 | INTERIOR/Living Room | D Wall Beige Drywall | 0.38 |
| 3/26/19-385 | INTERIOR/Living Room | Ceiling Beige Drywall | 0.09 |
| 3/26/19-386 | INTERIOR/Living Room | A Window Sill Beige Wood | 0.00 |
| 3/26/19-387 | INTERIOR/Living Room | A Window Casing Brown Metal | 0.00 |
| 3/26/19-388 | INTERIOR/Living Room | A Window Sash Brown Metal | 0.00 |
| 3/26/19-389 | INTERIOR/Living Room | C Window Sill Beige Wood | 0.00 |
| 3/26/19-390 | INTERIOR/Living Room | C Window Casing Brown Metal | 0.00 |
| 3/26/19-391 | INTERIOR/Living Room | C Window Sash Brown Metal | 0.00 |
| 3/26/19-392 | INTERIOR/Living Room | B Door Beige Metal | 0.00 |
| 3/26/19-393 | INTERIOR/Living Room | B Door Casing Beige Metal | 0.00 |
| 3/26/19-394 | INTERIOR/Living Room | C Door Beige Wood | 0.00 |
| 3/26/19-395 | INTERIOR/Living Room | C Door Casing Beige Metal | 0.09 |
| 3/26/19-396 | INTERIOR/Living Room | A Baseboard Beige Wood | 0.26 |
| 3/26/19-397 | INTERIOR/Living Room | B Baseboard Beige Wood | 0.01 |
| 3/26/19-398 | INTERIOR/Living Room | C Baseboard Beige Wood | 0.00 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 10 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1208 HUFFMAN AVENUE, APARTMENT A, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 26, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm²) |
|--------------------------------------------------------------|-----------------------------|------------------------------|-----------------------------------------|
| 1208 HUFFMAN AVENUE, APARTMENT A (MEASURED 3/26/2019) | | | |
| 3/26/19-399 | INTERIOR/Living Room | D Baseboard Beige Wood | 0.09 |
| 3/26/19-400 | INTERIOR/Living Room Closet | A Wall Beige Drywall | 0.17 |
| 3/26/19-401 | INTERIOR/Living Room Closet | B Wall Beige Drywall | 0.15 |
| 3/26/19-402 | INTERIOR/Living Room Closet | C Wall Beige Drywall | 0.24 |
| 3/26/19-403 | INTERIOR/Living Room Closet | D Wall Beige Drywall | 0.17 |
| 3/26/19-404 | INTERIOR/Living Room Closet | Ceiling Beige Drywall | 0.11 |
| 3/26/19-405 | INTERIOR/Living Room Closet | Shelf Beige Wood | 0.07 |
| 3/26/19-406 | INTERIOR/Living Room Closet | Shelf Support Beige Wood | 0.07 |
| 3/26/19-407 | INTERIOR/Living Room Closet | A Door Beige Wood | 0.00 |
| 3/26/19-408 | INTERIOR/Living Room Closet | A Door Casing Beige Metal | 0.09 |
| 3/26/19-409 | INTERIOR/Living Room Closet | B Baseboard Beige Wood | 0.01 |
| 3/26/19-410 | INTERIOR/Living Room Closet | C Baseboard Beige Wood | 0.03 |
| 3/26/19-411 | INTERIOR/Living Room Closet | D Baseboard Beige Wood | 0.03 |
| 3/26/19-412 | INTERIOR/Basement | A Wall Beige Drywall | 0.00 |
| 3/26/19-413 | INTERIOR/Basement | B Wall Beige Drywall | 0.00 |
| 3/26/19-414 | INTERIOR/Basement | C Wall Beige Drywall | 0.01 |
| 3/26/19-415 | INTERIOR/Basement | D Wall Beige Drywall | 0.00 |
| 3/26/19-416 | INTERIOR/Basement | Ceiling Beige Drywall | 0.01 |
| 3/26/19-417 | INTERIOR/Basement | A Trim Beige Wood | 0.05 |
| 3/26/19-418 | INTERIOR/Basement | B Trim Beige Wood | 0.04 |
| 3/26/19-419 | INTERIOR/Basement | Handrail Grey Wood | 0.05 |
| 3/26/19-420 | INTERIOR/Basement | B Stringer Grey Wood | 0.02 |
| 3/26/19-421 | INTERIOR/Basement | D Stringer Grey Wood | 0.03 |
| 3/26/19-422 | INTERIOR/Basement | Stair Tread Grey Wood | 0.07 |
| 3/26/19-423 | INTERIOR/Basement | Beam Gray Steel | 0.03 |
| 3/26/19-424 | INTERIOR/Basement | C Post Gray Steel | 0.10 |
| 3/26/19-425 | INTERIOR/Basement | A Wall White Concrete | >1.00 |
| 3/26/19-426 | INTERIOR/Basement | B Wall White Block | 0.02 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 10 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1208 HUFFMAN AVENUE, APARTMENT A, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 26, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|--------------------------------------------------------------|-------------------|---------------------------|------------------------------------|
| 1208 HUFFMAN AVENUE, APARTMENT A (MEASURED 3/26/2019) | | | |
| 3/26/19-427 | INTERIOR/Basement | C Wall White Concrete | >1.00 |
| 3/26/19-428 | INTERIOR/Basement | D Wall White Block | 0.05 |
| 3/26/19-429 | INTERIOR/Basement | Ceiling Beige Wood | 0.04 |
| 3/26/19-430 | INTERIOR/Basement | Flat Duct Beige Metal | 0.02 |
| 3/26/19-431 | INTERIOR/Basement | Round Duct Beige Metal | 0.01 |
| 3/26/19-432 | INTERIOR/Stairs | A Wall Beige Drywall | 0.01 |
| 3/26/19-433 | INTERIOR/Stairs | B Wall Beige Drywall | 0.27 |
| 3/26/19-434 | INTERIOR/Stairs | D Wall Beige Drywall | 0.16 |
| 3/26/19-435 | INTERIOR/Stairs | Ceiling Beige Drywall | 0.15 |
| 3/26/19-436 | INTERIOR/Stairs | B Stringer Beige Wood | 0.03 |
| 3/26/19-437 | INTERIOR/Stairs | D Stringer Beige Wood | 0.05 |
| 3/26/19-438 | INTERIOR/Stairs | Stair Tread Varnish Wood | 0.00 |
| 3/26/19-439 | INTERIOR/Stairs | Riser Beige Wood | 0.23 |
| 3/26/19-440 | INTERIOR/Stairs | Handrail Varnish Wood | 0.00 |
| 3/26/19-441 | INTERIOR/Stairs | Floor Varnish Wood | 0.00 |
| 3/26/19-442 | INTERIOR/Stairs | B Baseboard Beige Wood | 0.02 |
| 3/26/19-443 | INTERIOR/Stairs | C Baseboard Beige Wood | 0.01 |
| 3/26/19-444 | INTERIOR/Stairs | D Baseboard Beige Wood | 0.13 |
| 3/26/19-445 | INTERIOR/Hall | A Wall Beige Drywall | 0.12 |
| 3/26/19-446 | INTERIOR/Hall | B Wall Beige Drywall | 0.08 |
| 3/26/19-447 | INTERIOR/Hall | C Wall Beige Drywall | 0.12 |
| 3/26/19-448 | INTERIOR/Hall | D Wall Beige Drywall | 0.19 |
| 3/26/19-449 | INTERIOR/Hall | Ceiling Beige Drywall | 0.18 |
| 3/26/19-450 | INTERIOR/Hall | A Door Beige Wood | 0.00 |
| 3/26/19-451 | INTERIOR/Hall | A Door Casing Beige Metal | 0.14 |
| 3/26/19-452 | INTERIOR/Hall | C Door Beige Wood | 0.00 |
| 3/26/19-454 | INTERIOR/Hall | C Door Casing Beige Metal | 0.12 |
| 3/26/19-455 | INTERIOR/Hall | D Door Beige Wood | 0.00 |
| 3/26/19-456 | INTERIOR/Hall | D Door Casing Beige Metal | 0.12 |
| 3/26/19-457 | INTERIOR/Hall | Wall Cap Beige Wood | 0.01 |
| 3/26/19-458 | INTERIOR/Hall | B Baseboard Beige Wood | 0.02 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 10 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1208 HUFFMAN AVENUE, APARTMENT A, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 26, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|--------------------------------------------------------------|--------------------------|---------------------------------|------------------------------------|
| 1208 HUFFMAN AVENUE, APARTMENT A (MEASURED 3/26/2019) | | | |
| 3/26/19-459 | INTERIOR/Hall | C Baseboard Beige Wood | 0.11 |
| 3/26/19-460 | INTERIOR/Hall | D Baseboard Beige Wood | 0.10 |
| 3/26/19-461 | INTERIOR/Bathroom | A Wall Beige Drywall | 0.20 |
| 3/26/19-462 | INTERIOR/Bathroom | B Wall Beige Drywall | 0.14 |
| 3/26/19-463 | INTERIOR/Bathroom | C Wall Beige Drywall | 0.14 |
| 3/26/19-464 | INTERIOR/Bathroom | D Wall Beige Drywall | 0.00 |
| 3/26/19-465 | INTERIOR/Bathroom | Ceiling Beige Drywall | 0.22 |
| 3/26/19-466 | INTERIOR/Bathroom | A Door Beige Wood | 0.00 |
| 3/26/19-467 | INTERIOR/Bathroom | A Door Casing Beige Metal | 0.06 |
| 3/26/19-468 | INTERIOR/Bathroom | C Window Sill Beige Wood | 0.00 |
| 3/26/19-469 | INTERIOR/Bathroom | C Window Casing Brown Metal | 0.00 |
| 3/26/19-470 | INTERIOR/Bathroom | C Window Sash Brown Metal | 0.00 |
| 3/26/19-471 | INTERIOR/Bathroom | B Tub White Ceramic Tile | >1.00 |
| 3/26/19-472 | INTERIOR/Bathroom | C Tub White Ceramic Tile | >1.00 |
| 3/26/19-473 | INTERIOR/Bathroom | D Tub White Ceramic Tile | >1.00 |
| 3/26/19-474 | INTERIOR/Bedroom 1 SW | A Wall Beige Drywall | 0.08 |
| 3/26/19-475 | INTERIOR/Bedroom 1 SW | B Wall Beige Drywall | 0.14 |
| 3/26/19-476 | INTERIOR/Bedroom 1 SW | C Wall Beige Drywall | 0.35 |
| 3/26/19-477 | INTERIOR/Bedroom 1 SW | D Wall Beige Drywall | 0.19 |
| 3/26/19-478 | INTERIOR/Bedroom 1 SW | Ceiling Beige Drywall | 0.17 |
| 3/26/19-479 | INTERIOR/Bedroom 1 SW | A Door Beige Wood | 0.00 |
| 3/26/19-480 | INTERIOR/Bedroom 1 SW | A Door Casing Beige Metal | 0.15 |
| 3/26/19-481 | INTERIOR/Bedroom 1 SW | B Door Beige Wood | 0.00 |
| 3/26/19-482 | INTERIOR/Bedroom 1 SW | B Door Casing Beige Metal | 0.12 |
| 3/26/19-483 | INTERIOR/Bedroom 1 SW | C Window Sill Beige Wood | 0.00 |
| 3/26/19-484 | INTERIOR/Bedroom 1 SW | C Window Casing Brown Metal | 0.00 |
| 3/26/19-485 | INTERIOR/Bedroom 1 SW | C Window Sash Brown Metal | 0.00 |
| 3/26/19-486 | INTERIOR/Bedroom 1 SW | A Baseboard Beige Wood | 0.29 |
| 3/26/19-487 | INTERIOR/Bedroom 1 SW | B Baseboard Beige Wood | 0.07 |
| 3/26/19-488 | INTERIOR/Bedroom 1 SW | C Baseboard Beige Wood | 0.10 |
| 3/26/19-489 | INTERIOR/Bedroom 1 SW | D Baseboard Beige Wood | 0.09 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 10 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1208 HUFFMAN AVENUE, APARTMENT A, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 26, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|--------------------------------------------------------------|-------------------------|-----------------------------|------------------------------------|
| 1208 HUFFMAN AVENUE, APARTMENT A (MEASURED 3/26/2019) | | | |
| 3/26/19-490 | INTERIOR/Bedroom Closet | A Wall Beige Drywall | >1.00 |
| 3/26/19-491 | INTERIOR/Bedroom Closet | B Wall Beige Drywall | 0.09 |
| 3/26/19-492 | INTERIOR/Bedroom Closet | C Wall Beige Drywall | 0.17 |
| 3/26/19-493 | INTERIOR/Bedroom Closet | D Wall Beige Drywall | 0.16 |
| 3/26/19-494 | INTERIOR/Bedroom Closet | Ceiling Beige Drywall | 0.13 |
| 3/26/19-495 | INTERIOR/Bedroom Closet | C Door Beige Wood | 0.00 |
| 3/26/19-496 | INTERIOR/Bedroom Closet | C Door Casing Beige Metal | 0.09 |
| 3/26/19-497 | INTERIOR/Bedroom Closet | Shelf Beige Wood | 0.05 |
| 3/26/19-498 | INTERIOR/Bedroom Closet | Shelf Support Beige Wood | 0.01 |
| 3/26/19-499 | INTERIOR/Bedroom Closet | A Baseboard Beige Wood | 0.06 |
| 3/26/19-500 | INTERIOR/Bedroom Closet | B Baseboard Beige Wood | 0.07 |
| 3/26/19-501 | INTERIOR/Bedroom Closet | C Baseboard Beige Wood | 0.02 |
| 3/26/19-502 | INTERIOR/Hall Closet | A Wall Beige Drywall | 0.17 |
| 3/26/19-503 | INTERIOR/Hall Closet | C Wall Beige Drywall | >1.00 |
| 3/26/19-504 | INTERIOR/Hall Closet | D Wall Beige Drywall | >1.00 |
| 3/26/19-505 | INTERIOR/Hall Closet | Ceiling Beige Drywall | >1.00 |
| 3/26/19-506 | INTERIOR/Hall Closet | Shelf Beige Wood | 0.02 |
| 3/26/19-507 | INTERIOR/Hall Closet | Shelf Support Beige Wood | 0.06 |
| 3/26/19-510 | INTERIOR/Hall Closet | A Baseboard Beige Wood | 0.09 |
| 3/26/19-511 | INTERIOR/Hall Closet | C Baseboard Beige Wood | 0.12 |
| 3/26/19-512 | INTERIOR/Hall Closet | D Baseboard Beige Wood | 0.07 |
| 3/26/19-513 | INTERIOR/Hall Closet | B Door Beige Wood | 0.01 |
| 3/26/19-514 | INTERIOR/Hall Closet | B Door Casing Beige Metal | 0.09 |
| 3/26/19-515 | INTERIOR/Bedroom 2 N | A Wall Beige Drywall | 0.09 |
| 3/26/19-516 | INTERIOR/Bedroom 2 N | B Wall Beige Drywall | 0.12 |
| 3/26/19-517 | INTERIOR/Bedroom 2 N | C Wall Beige Drywall | 0.07 |
| 3/26/19-518 | INTERIOR/Bedroom 2 N | D Wall Beige Drywall | 0.09 |
| 3/26/19-519 | INTERIOR/Bedroom 2 N | Ceiling Beige Drywall | 0.13 |
| 3/26/19-520 | INTERIOR/Bedroom 2 N | A Window Sill Beige Wood | 0.00 |
| 3/26/19-521 | INTERIOR/Bedroom 2 N | A Window Casing Brown Metal | 0.00 |
| 3/26/19-522 | INTERIOR/Bedroom 2 N | A Window Sash Brown Metal | 0.00 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 10 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1208 HUFFMAN AVENUE, APARTMENT A, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 26, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|--------------------------------------------------------------|--------------------------------|----------------------------------|------------------------------------|
| 1208 HUFFMAN AVENUE, APARTMENT A (MEASURED 3/26/2019) | | | |
| 3/26/19-523 | INTERIOR/Bedroom 2 N | B Door Beige Wood | 0.01 |
| 3/26/19-524 | INTERIOR/Bedroom 2 N | B Door Casing Beige Metal | 0.07 |
| 3/26/19-525 | INTERIOR/Bedroom 2 N | C Door Beige Wood | 0.00 |
| 3/26/19-526 | INTERIOR/Bedroom 2 N | C Door Casing Beige Metal | >1.00 |
| 3/26/19-527 | INTERIOR/Bedroom 2 N | A Baseboard Beige Wood | 0.08 |
| 3/26/19-528 | INTERIOR/Bedroom 2 N | B Baseboard Beige Wood | 0.05 |
| 3/26/19-529 | INTERIOR/Bedroom 2 N | C Baseboard Beige Wood | 0.01 |
| 3/26/19-530 | INTERIOR/Bedroom 2 N | D Baseboard Beige Wood | 0.02 |
| 3/26/19-531 | INTERIOR/Bedroom Closet | A Wall Beige Drywall | 0.14 |
| 3/26/19-532 | INTERIOR/Bedroom Closet | A Wall Beige Drywall | >1.00 |
| 3/26/19-533 | INTERIOR/Bedroom Closet | B Wall Beige Drywall | 0.19 |
| 3/26/19-534 | INTERIOR/Bedroom Closet | C Wall Beige Drywall | 0.09 |
| 3/26/19-535 | INTERIOR/Bedroom Closet | D Wall Beige Drywall | 0.19 |
| 3/26/19-536 | INTERIOR/Bedroom Closet | Ceiling Beige Drywall | >1.00 |
| 3/26/19-537 | INTERIOR/Bedroom Closet | Shelf Beige Wood | 0.00 |
| 3/26/19-538 | INTERIOR/Bedroom Closet | Shelf Support Beige Wood | 0.05 |
| 3/26/19-539 | INTERIOR/Bedroom Closet | D Door Beige Wood | 0.00 |
| 3/26/19-540 | INTERIOR/Bedroom Closet | D Door Casing Beige Metal | 0.08 |
| 3/26/19-541 | INTERIOR/Bedroom Closet | A Baseboard Beige Wood | 0.18 |
| 3/26/19-542 | INTERIOR/Bedroom Closet | B Baseboard Beige Wood | 0.03 |
| 3/26/19-543 | INTERIOR/Bedroom Closet | C Baseboard Beige Wood | 0.06 |
| 3/26/19-544 | INTERIOR/Bedroom Closet | D Baseboard Beige Wood | 0.13 |
| 3/26/19-361 | EXTERIOR/Rear C | C Storm Door Brown Metal | 0.00 |
| 3/26/19-362 | EXTERIOR/Rear C | C Storm Door Casing Brown Metal | 0.00 |
| 3/26/19-363 | EXTERIOR/Rear C | C Window Casing Brown Metal | 0.00 |
| 3/26/19-364 | EXTERIOR/Rear C | C Window Sash Brown Metal | 0.00 |
| 3/26/19-365 | EXTERIOR/Rear C | C Door Casing Beige Metal | 1.46 |
| 3/26/19-366 | EXTERIOR/Rear C | C Lintel White Steel | 1.14 |
| 3/26/19-367 | EXTERIOR/Rear C | C Door Beige Metal | 0.00 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 11: LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1208 HUFFMAN AVENUE, APARTMENT B, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 26, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|--------------------------------------------------------------|-----------------------------|-----------------------------|------------------------------------|
| 1208 HUFFMAN AVENUE, APARTMENT B (MEASURED 3/26/2019) | | | |
| 3/26/19-545 | INTERIOR/Kitchen | A Wall Beige Drywall | 0.00 |
| 3/26/19-546 | INTERIOR/Kitchen | B Wall Beige Drywall | 0.00 |
| 3/26/19-547 | INTERIOR/Kitchen | C Wall Beige Drywall | 0.26 |
| 3/26/19-548 | INTERIOR/Kitchen | D Wall Beige Drywall | 0.04 |
| 3/26/19-549 | INTERIOR/Kitchen | Ceiling Beige Drywall | 0.23 |
| 3/26/19-550 | INTERIOR/Kitchen | A Door Beige Wood | 0.00 |
| 3/26/19-551 | INTERIOR/Kitchen | A Door Casing Beige Metal | 0.00 |
| 3/26/19-552 | INTERIOR/Kitchen | C Door Beige Metal | 0.00 |
| 3/26/19-553 | INTERIOR/Kitchen | C Door Casing Beige Metal | 0.00 |
| 3/26/19-554 | INTERIOR/Kitchen | A Cabinet Varnish Wood | 0.00 |
| 3/26/19-555 | INTERIOR/Kitchen | C Cabinet Varnish Wood | 0.00 |
| 3/26/19-556 | INTERIOR/Kitchen | D Cabinet Varnish Wood | 0.00 |
| 3/26/19-557 | INTERIOR/Kitchen | D Wall White Ceramic | 0.00 |
| 3/26/19-558 | INTERIOR/Living Room | A Wall Beige Drywall | 0.10 |
| 3/26/19-559 | INTERIOR/Living Room | B Wall Beige Drywall | 0.06 |
| 3/26/19-560 | INTERIOR/Living Room | C Wall Beige Drywall | 0.13 |
| 3/26/19-561 | INTERIOR/Living Room | D Wall Beige Drywall | 0.05 |
| 3/26/19-562 | INTERIOR/Living Room | Ceiling Beige Drywall | 0.08 |
| 3/26/19-563 | INTERIOR/Living Room | A Window Sill Beige Wood | 0.02 |
| 3/26/19-564 | INTERIOR/Living Room | A Window Casing Brown Metal | 0.00 |
| 3/26/19-565 | INTERIOR/Living Room | A Window Sash Brown Metal | 0.00 |
| 3/26/19-566 | INTERIOR/Living Room | C Window Sill Beige Wood | 0.00 |
| 3/26/19-567 | INTERIOR/Living Room | C Window Casing Brown Metal | 0.00 |
| 3/26/19-568 | INTERIOR/Living Room | C Window Sash Brown Metal | 0.00 |
| 3/26/19-569 | INTERIOR/Living Room | C Door Beige Wood | 0.00 |
| 3/26/19-570 | INTERIOR/Living Room | C Door Casing Beige Metal | 0.17 |
| 3/26/19-571 | INTERIOR/Living Room | A Baseboard Beige Wood | 0.07 |
| 3/26/19-572 | INTERIOR/Living Room | B Baseboard Beige Wood | 0.21 |
| 3/26/19-573 | INTERIOR/Living Room | C Baseboard Beige Wood | 0.00 |
| 3/26/19-574 | INTERIOR/Living Room | D Baseboard Beige Wood | 0.11 |
| 3/26/19-575 | INTERIOR/Living Room Closet | A Wall Beige Drywall | 0.19 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 11 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1208 HUFFMAN AVENUE, APARTMENT B, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 26, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|--------------------------------------------------------------|-----------------------------|----------------------------|------------------------------------|
| 1208 HUFFMAN AVENUE, APARTMENT B (MEASURED 3/26/2019) | | | |
| 3/26/19-576 | INTERIOR/Living Room Closet | B Wall Beige Drywall | 0.16 |
| 3/26/19-577 | INTERIOR/Living Room Closet | C Wall Beige Drywall | 0.12 |
| 3/26/19-578 | INTERIOR/Living Room Closet | D Wall Beige Drywall | 0.15 |
| 3/26/19-579 | INTERIOR/Living Room Closet | Ceiling Beige Drywall | 0.16 |
| 3/26/19-580 | INTERIOR/Living Room Closet | Shelf Beige Wood | 0.01 |
| 3/26/19-581 | INTERIOR/Living Room Closet | B Shelf Support Beige Wood | 0.00 |
| 3/26/19-582 | INTERIOR/Living Room Closet | A Baseboard Beige Wood | 0.04 |
| 3/26/19-583 | INTERIOR/Living Room Closet | B Baseboard Beige Wood | 0.03 |
| 3/26/19-584 | INTERIOR/Living Room Closet | C Baseboard Beige Wood | 0.12 |
| 3/26/19-585 | INTERIOR/Living Room Closet | D Baseboard Beige Wood | 0.01 |
| 3/26/19-586 | INTERIOR/Living Room Closet | A Door Beige Wood | 0.03 |
| 3/26/19-587 | INTERIOR/Living Room Closet | A Door Casing Beige Metal | 0.06 |
| 3/26/19-588 | INTERIOR/Basement | A Wall Beige Drywall | 0.02 |
| 3/26/19-589 | INTERIOR/Basement | B Wall Beige Drywall | 0.00 |
| 3/26/19-590 | INTERIOR/Basement | C Wall Beige Drywall | 0.02 |
| 3/26/19-591 | INTERIOR/Basement | D Wall Beige Drywall | 0.00 |
| 3/26/19-592 | INTERIOR/Basement | Ceiling Beige Drywall | 0.00 |
| 3/26/19-593 | INTERIOR/Basement | C Door Beige Wood | 0.00 |
| 3/26/19-594 | INTERIOR/Basement | C Door Casing Beige Metal | 0.06 |
| 3/26/19-595 | INTERIOR/Basement | A Trim Beige Wood | 0.13 |
| 3/26/19-596 | INTERIOR/Basement | B Trim Beige Wood | 0.16 |
| 3/26/19-597 | INTERIOR/Basement | D Trim Beige Wood | 0.11 |
| 3/26/19-598 | INTERIOR/Basement | Handrail Brown Wood | 0.11 |
| 3/26/19-599 | INTERIOR/Basement | B Stringer Brown Wood | 0.06 |
| 3/26/19-600 | INTERIOR/Basement | D Stringer Brown Wood | 0.12 |
| 3/26/19-601 | INTERIOR/Basement | Stair Tread Brown Wood | 0.06 |
| 3/26/19-602 | INTERIOR/Basement | Beam Brown Steel | 0.05 |
| 3/26/19-603 | INTERIOR/Basement | A Post Brown Steel | 0.02 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 11 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1208 HUFFMAN AVENUE, APARTMENT B, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 26, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|--------------------------------------------------------------|-------------------|---------------------------|------------------------------------|
| 1208 HUFFMAN AVENUE, APARTMENT B (MEASURED 3/26/2019) | | | |
| 3/26/19-604 | INTERIOR/Stairs | A Wall Beige Drywall | 0.04 |
| 3/26/19-605 | INTERIOR/Stairs | B Wall Beige Drywall | 0.06 |
| 3/26/19-606 | INTERIOR/Stairs | D Wall Beige Drywall | 0.08 |
| 3/26/19-607 | INTERIOR/Stairs | Ceiling Beige Drywall | 0.05 |
| 3/26/19-608 | INTERIOR/Stairs | Handrail Varnish Wood | 0.00 |
| 3/26/19-609 | INTERIOR/Stairs | B Stringer Brown Wood | 0.04 |
| 3/26/19-610 | INTERIOR/Stairs | D Stringer Brown Wood | 0.01 |
| 3/26/19-611 | INTERIOR/Stairs | Stair Tread Brown Wood | 0.03 |
| 3/26/19-612 | INTERIOR/Stairs | Riser Brown Wood | 0.21 |
| 3/26/19-613 | INTERIOR/Stairs | Floor Brown Wood | 0.03 |
| 3/26/19-614 | INTERIOR/Stairs | A Baseboard Beige Wood | 0.09 |
| 3/26/19-615 | INTERIOR/Stairs | C Baseboard Beige Wood | 0.14 |
| 3/26/19-616 | INTERIOR/Stairs | D Baseboard Beige Wood | 0.23 |
| 3/26/19-617 | INTERIOR/Hall | A Wall Beige Drywall | 0.23 |
| 3/26/19-618 | INTERIOR/Hall | B Wall Beige Drywall | 0.08 |
| 3/26/19-619 | INTERIOR/Hall | C Wall Beige Drywall | 0.06 |
| 3/26/19-620 | INTERIOR/Hall | D Wall Beige Drywall | 0.04 |
| 3/26/19-621 | INTERIOR/Hall | Ceiling Beige Drywall | 0.20 |
| 3/26/19-622 | INTERIOR/Hall | A Door White Wood | 0.00 |
| 3/26/19-623 | INTERIOR/Hall | A Door Casing Beige Metal | 0.09 |
| 3/26/19-624 | INTERIOR/Hall | B Door Beige Wood | 0.00 |
| 3/26/19-625 | INTERIOR/Hall | B Door Casing Beige Metal | 0.28 |
| 3/26/19-626 | INTERIOR/Hall | C Door Beige Wood | 0.00 |
| 3/26/19-627 | INTERIOR/Hall | C Door Casing Beige Metal | 0.07 |
| 3/26/19-628 | INTERIOR/Hall | Wall Cap Beige Wood | 0.01 |
| 3/26/19-629 | INTERIOR/Hall | B Baseboard Beige Wood | 0.10 |
| 3/26/19-630 | INTERIOR/Hall | C Baseboard Beige Wood | 0.26 |
| 3/26/19-631 | INTERIOR/Hall | D Baseboard Beige Wood | 0.20 |
| 3/26/19-632 | INTERIOR/Bathroom | A Wall Beige Drywall | 0.11 |
| 3/26/19-633 | INTERIOR/Bathroom | B Wall Beige Drywall | 0.00 |
| 3/26/19-634 | INTERIOR/Bathroom | C Wall Beige Drywall | 0.08 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 11 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1208 HUFFMAN AVENUE, APARTMENT B, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 26, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|--------------------------------------------------------------|--------------------------|---------------------------------|------------------------------------|
| 1208 HUFFMAN AVENUE, APARTMENT B (MEASURED 3/26/2019) | | | |
| 3/26/19-635 | INTERIOR/Bathroom | D Wall Beige Drywall | 0.00 |
| 3/26/19-636 | INTERIOR/Bathroom | Ceiling Beige Drywall | 0.00 |
| 3/26/19-637 | INTERIOR/Bathroom | A Door White Wood | 0.00 |
| 3/26/19-638 | INTERIOR/Bathroom | A Door Casing Beige Metal | 0.08 |
| 3/26/19-639 | INTERIOR/Bathroom | C Window Sill Brown Wood | 0.00 |
| 3/26/19-640 | INTERIOR/Bathroom | C Window Casing Brown Metal | 0.00 |
| 3/26/19-641 | INTERIOR/Bathroom | C Window Sash Brown Metal | 0.00 |
| 3/26/19-642 | INTERIOR/Bathroom | B Tub White Ceramic Tile | >1.00 |
| 3/26/19-643 | INTERIOR/Bathroom | C Tub White Ceramic Tile | >1.00 |
| 3/26/19-644 | INTERIOR/Bathroom | D Tub White Ceramic Tile | >1.00 |
| 3/26/19-645 | INTERIOR/Bathroom | A Wall Beige Drywall | 0.05 |
| 3/26/19-646 | INTERIOR/Bedroom SE | B Wall Beige Drywall | 0.05 |
| 3/26/19-647 | INTERIOR/Bedroom SE | C Wall Beige Drywall | 0.13 |
| 3/26/19-648 | INTERIOR/Bedroom SE | D Wall Beige Drywall | 0.09 |
| 3/26/19-649 | INTERIOR/Bedroom SE | Ceiling Beige Drywall | 0.02 |
| 3/26/19-650 | INTERIOR/Bedroom SE | A Door Varnish Wood | 0.02 |
| 3/26/19-651 | INTERIOR/Bedroom SE | A Door Casing Beige Metal | 0.05 |
| 3/26/19-652 | INTERIOR/Bedroom SE | D Door Beige Wood | 0.00 |
| 3/26/19-653 | INTERIOR/Bedroom SE | D Door Casing Beige Metal | 0.04 |
| 3/26/19-654 | INTERIOR/Bedroom SE | C Window Sill Brown Wood | 0.00 |
| 3/26/19-655 | INTERIOR/Bedroom SE | C Window Casing Brown Metal | 0.00 |
| 3/26/19-656 | INTERIOR/Bedroom SE | C Window Sash Brown Metal | 0.00 |
| 3/26/19-657 | INTERIOR/Bedroom SE | A Baseboard Beige Wood | 0.15 |
| 3/26/19-658 | INTERIOR/Bedroom SE | B Baseboard Beige Wood | 0.31 |
| 3/26/19-659 | INTERIOR/Bedroom SE | C Baseboard Beige Wood | 0.14 |
| 3/26/19-660 | INTERIOR/Bedroom SE | D Baseboard Beige Wood | 0.25 |
| 3/26/19-661 | INTERIOR/Bedroom Closet | A Wall Beige Drywall | 0.03 |
| 3/26/19-662 | INTERIOR/Bedroom Closet | B Wall Beige Drywall | 0.08 |
| 3/26/19-663 | INTERIOR/Bedroom Closet | C Wall Beige Drywall | 0.08 |
| 3/26/19-664 | INTERIOR/Bedroom Closet | D Wall Beige Drywall | 0.08 |
| 3/26/19-665 | INTERIOR/Bedroom Closet | Ceiling Beige Drywall | 0.10 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 11 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1208 HUFFMAN AVENUE, APARTMENT B, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 26, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|--------------------------------------------------------------|-------------------------|-----------------------------|------------------------------------|
| 1208 HUFFMAN AVENUE, APARTMENT B (MEASURED 3/26/2019) | | | |
| 3/26/19-666 | INTERIOR/Bedroom Closet | C Door White Wood | 0.03 |
| 3/26/19-667 | INTERIOR/Bedroom Closet | C Door Casing Beige Metal | 0.04 |
| 3/26/19-668 | INTERIOR/Bedroom Closet | Shelf Beige Wood | 0.00 |
| 3/26/19-669 | INTERIOR/Bedroom Closet | B Shelf Support Beige Wood | 0.01 |
| 3/26/19-670 | INTERIOR/Bedroom Closet | A Baseboard Beige Wood | 0.12 |
| 3/26/19-671 | INTERIOR/Bedroom Closet | B Baseboard Beige Wood | 0.09 |
| 3/26/19-672 | INTERIOR/Bedroom Closet | C Baseboard Beige Wood | 0.15 |
| 3/26/19-673 | INTERIOR/Bedroom Closet | D Baseboard Beige Wood | 0.09 |
| 3/26/19-674 | INTERIOR/Bedroom Closet | A Wall Beige Drywall | 0.00 |
| 3/26/19-675 | INTERIOR/Bedroom Closet | B Wall Beige Drywall | 0.00 |
| 3/26/19-676 | INTERIOR/Bedroom Closet | C Wall Beige Drywall | 0.00 |
| 3/26/19-677 | INTERIOR/Bedroom Closet | Ceiling Beige Drywall | 0.00 |
| 3/26/19-678 | INTERIOR/Bedroom Closet | D Door Beige Wood | 0.00 |
| 3/26/19-679 | INTERIOR/Bedroom Closet | D Door Casing Beige Metal | 0.02 |
| 3/26/19-680 | INTERIOR/Bedroom Closet | Shelf Beige Wood | 0.00 |
| 3/26/19-681 | INTERIOR/Bedroom Closet | Shelf Support Beige Wood | 0.01 |
| 3/26/19-682 | INTERIOR/Bedroom Closet | A Baseboard Beige Wood | 0.17 |
| 3/26/19-683 | INTERIOR/Bedroom Closet | B Baseboard Beige Wood | 0.13 |
| 3/26/19-684 | INTERIOR/Bedroom Closet | C Baseboard Beige Wood | 0.02 |
| 3/26/19-685 | INTERIOR/Bedroom 2 NE | A Wall Beige Drywall | 0.07 |
| 3/26/19-686 | INTERIOR/Bedroom 2 NE | B Wall Beige Drywall | 0.10 |
| 3/26/19-687 | INTERIOR/Bedroom 2 NE | C Wall Beige Drywall | 0.09 |
| 3/26/19-688 | INTERIOR/Bedroom 2 NE | D Wall Beige Drywall | 0.20 |
| 3/26/19-689 | INTERIOR/Bedroom 2 NE | Ceiling Beige Drywall | 0.09 |
| 3/26/19-690 | INTERIOR/Bedroom 2 NE | A Window Sill Brown Wood | 0.00 |
| 3/26/19-691 | INTERIOR/Bedroom 2 NE | A Window Casing Brown Metal | 0.00 |
| 3/26/19-692 | INTERIOR/Bedroom 2 NE | A Window Sash Brown Metal | 0.00 |
| 3/26/19-693 | INTERIOR/Bedroom 2 NE | C Door Beige Wood | 0.00 |
| 3/26/19-694 | INTERIOR/Bedroom 2 NE | C Door Casing Beige Metal | 0.02 |
| 3/26/19-695 | INTERIOR/Bedroom 2 NE | D Door Varnish Wood | 0.00 |
| 3/26/19-696 | INTERIOR/Bedroom 2 NE | D Door Casing Beige Metal | 0.05 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 11 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1208 HUFFMAN AVENUE, APARTMENT B, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 26, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|--------------------------------------------------------------|---------------------------|----------------------------------|------------------------------------|
| 1208 HUFFMAN AVENUE, APARTMENT B (MEASURED 3/26/2019) | | | |
| 3/26/19-697 | INTERIOR/Bedroom 2 NE | A Baseboard Beige Wood | 0.10 |
| 3/26/19-698 | INTERIOR/Bedroom 2 NE | B Baseboard Beige Wood | 0.03 |
| 3/26/19-699 | INTERIOR/Bedroom 2 NE | C Baseboard Beige Wood | 0.06 |
| 3/26/19-700 | INTERIOR/Bedroom 2 NE | D Baseboard Beige Wood | 0.06 |
| 3/26/19-701 | INTERIOR/Bedroom 2 Closet | A Wall Beige Drywall | 0.11 |
| 3/26/19-702 | INTERIOR/Bedroom 2 Closet | B Wall Beige Drywall | 0.08 |
| 3/26/19-703 | INTERIOR/Bedroom 2 Closet | C Wall Beige Drywall | 0.10 |
| 3/26/19-704 | INTERIOR/Bedroom 2 Closet | D Wall Beige Drywall | 0.09 |
| 3/26/19-705 | INTERIOR/Bedroom 2 Closet | Ceiling Beige Drywall | 0.07 |
| 3/26/19-706 | INTERIOR/Bedroom 2 Closet | D Door Varnish Wood | 0.01 |
| 3/26/19-707 | INTERIOR/Bedroom 2 Closet | D Door Casing Beige Metal | 0.04 |
| 3/26/19-708 | INTERIOR/Bedroom 2 Closet | Shelf Beige Wood | 0.00 |
| 3/26/19-709 | INTERIOR/Bedroom 2 Closet | A Shelf Support Beige Wood | 0.01 |
| 3/26/19-710 | INTERIOR/Bedroom 2 Closet | A Baseboard Beige Wood | 0.11 |
| 3/26/19-711 | INTERIOR/Bedroom 2 Closet | B Baseboard Beige Wood | 0.03 |
| 3/26/19-712 | INTERIOR/Bedroom 2 Closet | C Baseboard Beige Wood | 0.10 |
| 3/26/19-713 | INTERIOR/Bedroom 2 Closet | D Baseboard Beige Wood | 0.09 |
| 3/26/19-714 | EXTERIOR/Rear C | C Storm Door Drown Metal | 0.00 |
| 3/26/19-715 | EXTERIOR/Rear C | C Storm Door Casing Drown Metal | 0.00 |
| 3/26/19-716 | EXTERIOR/Rear C | C Lintel White Metal POOR | 1.30 |
| 3/26/19-717 | EXTERIOR/Rear C | C Door Beige Metal | 1.43 |
| 3/26/19-718 | EXTERIOR/Rear C | C Door Casing Beige Metal | 0.00 |
| 3/26/19-719 | EXTERIOR/Rear C | C Window Casing Brown Metal | 0.00 |
| 3/26/19-720 | EXTERIOR/Rear C | C Window Sash Brown Metal | 0.00 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 12: LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1210 HUFFMAN AVENUE, COMMON AREAS, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 26 & 27, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|------------------------------------------------------------------|--------------------------|-----------------------------|------------------------------------|
| 1210 HUFFMAN AVENUE, COMMON (MEASURED 3/26 & 27/2019) | | | |
| 3/26/19-721 | INTERIOR/Hall | A Wall Beige Drywall | 0.13 |
| 3/26/19-722 | INTERIOR/Hall | B Wall Beige Drywall | 0.06 |
| 3/26/19-723 | INTERIOR/Hall | C Wall Beige Drywall | 0.18 |
| 3/26/19-724 | INTERIOR/Hall | D Wall Beige Drywall | 0.14 |
| 3/26/19-725 | INTERIOR/Hall | Ceiling Beige Drywall | 0.12 |
| 3/26/19-726 | INTERIOR/Hall | A Basement Door Beige Wood | 0.03 |
| 3/26/19-727 | INTERIOR/Hall | A Door Casing Beige Metal | 0.04 |
| 3/26/19-728 | INTERIOR/Hall | B Door Beige Metal | 0.00 |
| 3/26/19-729 | INTERIOR/Hall | B Door Casing Beige Metal | 0.00 |
| 3/26/19-732 | INTERIOR/Hall | D Door Grey Metal | 0.00 |
| 3/26/19-733 | INTERIOR/Hall | D Door Casing Beige Metal | 0.00 |
| 3/26/19-734 | INTERIOR/Hall | A Window Sill Beige Wood | 0.00 |
| 3/26/19-735 | INTERIOR/Hall | B Stringer Beige Wood | 0.04 |
| 3/26/19-736 | INTERIOR/Hall | D Stringer Beige Wood | 0.06 |
| 3/26/19-737 | INTERIOR/Hall | Stair Tread Varnish Wood | 0.04 |
| 3/26/19-738 | INTERIOR/Hall | Riser Beige Wood | 0.98 |
| 3/26/19-739 | INTERIOR/Hall | Handrail Beige Wood | 0.14 |
| 3/27/19-003 | INTERIOR/Basement | A Wall Beige Drywall | >1.00 |
| 3/27/19-004 | INTERIOR/Basement | B Wall Beige Drywall | 0.66 |
| 3/27/19-005 | INTERIOR/Basement | C Wall Beige Drywall | 0.63 |
| 3/27/19-006 | INTERIOR/Basement | D Wall Beige Drywall | >1.00 |
| 3/27/19-007 | INTERIOR/Basement | Ceiling Beige Drywall | 0.59 |
| 3/27/19-008 | INTERIOR/Basement | B Trim Beige Wood | 0.64 |
| 3/27/19-009 | INTERIOR/Basement | D Trim Beige Wood | 0.35 |
| 3/27/19-010 | INTERIOR/Basement | Handrail Grey Wood | 0.25 |
| 3/27/19-011 | INTERIOR/Basement | B Stringer Grey Wood | 0.49 |
| 3/27/19-012 | INTERIOR/Basement | D Stringer Grey Wood | 0.44 |
| 3/27/19-013 | INTERIOR/Basement | Stair Tread Grey Wood | 0.80 |
| 3/27/19-014 | INTERIOR/Basement | Riser Grey Wood | 0.84 |
| 3/27/19-015 | INTERIOR/Basement | A Beam Grey Steel | 0.69 |
| 3/27/19-016 | INTERIOR/Basement | A Post Grey Steel | 0.92 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 12 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1210 HUFFMAN AVENUE, COMMON AREAS, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 26 & 27, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|------------------------------------------------------------------|------------------------------|------------------------------|------------------------------------|
| 1210 HUFFMAN AVENUE, COMMON (MEASURED 3/26 & 27/2019) | | | |
| 3/27/19-017 | INTERIOR/Basement | C Beam Grey Steel | 0.45 |
| 3/27/19-018 | INTERIOR/Basement | C Post Grey Steel | 0.37 |
| 3/27/19-019 | INTERIOR/Basement | Cage Wall Brown Wood | 0.05 |
| 3/27/19-196 | INTERIOR/Stairs | B Wall Beige Drywall | 0.15 |
| 3/27/19-197 | INTERIOR/Stairs | C Wall Beige Drywall | 0.12 |
| 3/27/19-198 | INTERIOR/Stairs | D Wall Beige Drywall | 0.31 |
| 3/27/19-199 | INTERIOR/Stairs | Ceiling Beige Drywall | 0.18 |
| 3/27/19-200 | INTERIOR/Stairs | Handrail Varnish Wood | 0.00 |
| 3/27/19-201 | INTERIOR/Stairs | B Door Beige Metal | 0.02 |
| 3/27/19-202 | INTERIOR/Stairs | B Door Casing Beige Metal | 0.07 |
| 3/27/19-203 | INTERIOR/Stairs | C Door Beige Metal | 0.02 |
| 3/27/19-204 | INTERIOR/Stairs | C Door Casing Beige Metal | 0.29 |
| 3/27/19-215 | INTERIOR/Stairs | C Baseboard Beige Wood | 0.07 |
| 3/27/19-216 | INTERIOR/Stairs | D Baseboard Beige Wood | 0.10 |
| 3/27/19-205 | INTERIOR/Stair Closet | B Wall Beige Drywall | 0.00 |
| 3/27/19-206 | INTERIOR/Stair Closet | C Wall Beige Drywall | 0.06 |
| 3/27/19-207 | INTERIOR/Stair Closet | D Wall Beige Drywall | >1.00 |
| 3/27/19-208 | INTERIOR/Stair Closet | Ceiling Beige Drywall | >1.00 |
| 3/27/19-209 | INTERIOR/Stair Closet | A Door Varnish Wood | 0.01 |
| 3/27/19-210 | INTERIOR/Stair Closet | A Door Casing Beige Metal | 0.09 |
| 3/27/19-211 | INTERIOR/Stair Closet | Shelf Beige Wood | 0.07 |
| 3/27/19-212 | INTERIOR/Stair Closet | B Shelf Support Beige Wood | 0.12 |
| 3/27/19-213 | INTERIOR/Stair Closet | A Baseboard Beige Wood | 0.08 |
| 3/27/19-214 | INTERIOR/Stair Closet | D Baseboard Beige Wood | 0.10 |
| 3/26/19-730 | EXTERIOR/Hall | C Door Grey Metal | 0.00 |
| 3/26/19-731 | EXTERIOR/Hall | C Door Casing Beige Metal | 0.00 |
| 3/26/19-740 | EXTERIOR/Front A | A Door Grey Metal | 0.00 |
| 3/26/19-741 | EXTERIOR/Front A | A Door Trim Tan Metal | 2.30 |
| 3/26/19-742 | EXTERIOR/Front A | A Window Casing Brown Metal | 0.00 |
| 3/26/19-743 | EXTERIOR/Front A | A Window Sash Brown Metal | 0.00 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 13: LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1210 HUFFMAN AVENUE, APARTMENT A, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 27, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|------------------------------------------------------------|----------------------|-----------------------------|------------------------------------|
| 1210 HUFFMAN AVENUE, APARTMENT A (MEASURED 27/2019) | | | |
| 3/27/19-020 | INTERIOR/Living Room | A Wall Beige Drywall | 0.05 |
| 3/27/19-021 | INTERIOR/Living Room | B Wall Beige Drywall | 0.11 |
| 3/27/19-022 | INTERIOR/Living Room | C Wall Beige Drywall | 0.36 |
| 3/27/19-023 | INTERIOR/Living Room | D Wall Beige Drywall | 0.00 |
| 3/27/19-024 | INTERIOR/Living Room | Ceiling Beige Drywall | 0.02 |
| 3/27/19-025 | INTERIOR/Living Room | A Window Sill Beige Wood | 0.00 |
| 3/27/19-026 | INTERIOR/Living Room | A Window Casing Brown Metal | 0.00 |
| 3/27/19-027 | INTERIOR/Living Room | A Window Sash Brown Metal | 0.00 |
| 3/27/19-028 | INTERIOR/Living Room | D Door Beige Metal | 0.00 |
| 3/27/19-029 | INTERIOR/Living Room | D Door Casing Beige Wood | 0.00 |
| 3/27/19-030 | INTERIOR/Living Room | A Baseboard Beige Wood | 0.04 |
| 3/27/19-031 | INTERIOR/Living Room | B Baseboard Beige Wood | 0.12 |
| 3/27/19-032 | INTERIOR/Living Room | C Baseboard Beige Wood | 0.06 |
| 3/27/19-033 | INTERIOR/Living Room | D Baseboard Beige Wood | 0.17 |
| 3/27/19-034 | INTERIOR/Dining Room | A Wall Beige Drywall | 0.26 |
| 3/27/19-035 | INTERIOR/Dining Room | B Wall Beige Drywall | 0.09 |
| 3/27/19-036 | INTERIOR/Dining Room | C Wall Beige Drywall | 0.14 |
| 3/27/19-037 | INTERIOR/Dining Room | D Wall Beige Drywall | 0.09 |
| 3/27/19-038 | INTERIOR/Dining Room | Ceiling Beige Drywall | 0.13 |
| 3/27/19-039 | INTERIOR/Dining Room | A Window Sill Beige Wood | 0.00 |
| 3/27/19-040 | INTERIOR/Dining Room | A Window Casing Brown Metal | 0.00 |
| 3/27/19-041 | INTERIOR/Dining Room | A Window Sash Brown Metal | 0.00 |
| 3/27/19-042 | INTERIOR/Dining Room | B Window Sill Beige Wood | 0.00 |
| 3/27/19-043 | INTERIOR/Dining Room | B Window Casing Brown Metal | 0.00 |
| 3/27/19-044 | INTERIOR/Dining Room | B Window Sash Brown Metal | 0.00 |
| 3/27/19-045 | INTERIOR/Dining Room | A Baseboard Beige Wood | 0.34 |
| 3/27/19-046 | INTERIOR/Dining Room | B Baseboard Beige Wood | 0.10 |
| 3/27/19-047 | INTERIOR/Dining Room | C Baseboard Beige Wood | 0.10 |
| 3/27/19-048 | INTERIOR/Dining Room | D Baseboard Beige Wood | 0.01 |
| 3/27/19-049 | INTERIOR/Dining Room | C Door Casing Beige Wood | 0.12 |
| 3/27/19-050 | INTERIOR/Dining Room | C Door Trim Beige Wood | 0.01 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 13 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1210 HUFFMAN AVENUE, APARTMENT A, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 27, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|------------------------------------------------------------|-----------------------|-----------------------------|------------------------------------|
| 1210 HUFFMAN AVENUE, APARTMENT A (MEASURED 27/2019) | | | |
| 3/27/19-051 | INTERIOR/Kitchen | A Wall Beige Drywall | 0.10 |
| 3/27/19-052 | INTERIOR/Kitchen | B Wall Beige Drywall | 0.10 |
| 3/27/19-053 | INTERIOR/Kitchen | C Wall Beige Drywall | 0.00 |
| 3/27/19-054 | INTERIOR/Kitchen | D Wall Beige Drywall | 0.22 |
| 3/27/19-055 | INTERIOR/Kitchen | Ceiling Beige Drywall | 0.34 |
| 3/27/19-056 | INTERIOR/Kitchen | A Door Beige Metal | 0.00 |
| 3/27/19-057 | INTERIOR/Kitchen | A Door Casing Beige Wood | 0.00 |
| 3/27/19-058 | INTERIOR/Kitchen | B Window Sill Beige Wood | 0.00 |
| 3/27/19-059 | INTERIOR/Kitchen | B Window Casing Brown Metal | 0.00 |
| 3/27/19-060 | INTERIOR/Kitchen | B Window Sash Brown Metal | 0.00 |
| 3/27/19-061 | INTERIOR/Kitchen | C Cabinet Varnish Wood | 0.00 |
| 3/27/19-062 | INTERIOR/Hall | B Wall Beige Drywall | 0.13 |
| 3/27/19-063 | INTERIOR/Hall | C Wall Beige Drywall | 0.05 |
| 3/27/19-064 | INTERIOR/Hall | D Wall Beige Drywall | 0.05 |
| 3/27/19-065 | INTERIOR/Hall | B Door Brown Wood | 0.00 |
| 3/27/19-066 | INTERIOR/Hall | B Door Casing Beige Wood | 0.09 |
| 3/27/19-067 | INTERIOR/Hall | C Door Brown Wood | 0.00 |
| 3/27/19-068 | INTERIOR/Hall | C Door Casing Beige Wood | 0.07 |
| 3/27/19-069 | INTERIOR/Hall | A Door Brown Wood | 0.07 |
| 3/27/19-070 | INTERIOR/Hall | A Door Casing Beige Wood | 0.16 |
| 3/27/19-071 | INTERIOR/Hall | A Baseboard Beige Wood | 0.04 |
| 3/27/19-072 | INTERIOR/Hall | A Wall Beige Wood | 0.28 |
| 3/27/19-073 | INTERIOR/Hall | Ceiling Beige Drywall | 0.10 |
| 3/27/19-074 | INTERIOR/Hall | B Baseboard Beige Wood | 0.11 |
| 3/27/19-075 | INTERIOR/Hall | C Baseboard Beige Wood | 0.06 |
| 3/27/19-076 | INTERIOR/Hall | D Baseboard Beige Wood | 0.06 |
| 3/27/19-077 | INTERIOR/Bedroom 1 NE | A Wall Beige Drywall | 0.05 |
| 3/27/19-078 | INTERIOR/Bedroom 1 NE | B Wall Beige Drywall | 0.06 |
| 3/27/19-079 | INTERIOR/Bedroom 1 NE | C Wall Beige Drywall | 0.06 |
| 3/27/19-080 | INTERIOR/Bedroom 1 NE | D Wall Beige Drywall | 0.01 |
| 3/27/19-081 | INTERIOR/Bedroom 1 NE | Ceiling Beige Drywall | 0.09 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 13 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1210 HUFFMAN AVENUE, APARTMENT A, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 27, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|------------------------------------------------------------|---------------------------|-----------------------------|------------------------------------|
| 1210 HUFFMAN AVENUE, APARTMENT A (MEASURED 27/2019) | | | |
| 3/27/19-082 | INTERIOR/Bedroom 1 NE | B Window Sill Beige Wood | 0.00 |
| 3/27/19-083 | INTERIOR/Bedroom 1 NE | B Window Casing Brown Metal | 0.00 |
| 3/27/19-084 | INTERIOR/Bedroom 1 NE | B Window Sash Brown Metal | 0.00 |
| 3/27/19-085 | INTERIOR/Bedroom 1 NE | D Door Brown Wood | 0.00 |
| 3/27/19-086 | INTERIOR/Bedroom 1 NE | D Door Casing Beige Wood | 0.07 |
| 3/27/19-087 | INTERIOR/Bedroom 1 NE | A Baseboard Beige Wood | 0.22 |
| 3/27/19-088 | INTERIOR/Bedroom 1 NE | B Baseboard Beige Wood | 0.04 |
| 3/27/19-089 | INTERIOR/Bedroom 1 NE | C Baseboard Beige Wood | 0.09 |
| 3/27/19-090 | INTERIOR/Bedroom 1 NE | D Baseboard Beige Wood | 0.09 |
| 3/27/19-091 | INTERIOR/Bedroom 1 Closet | A Wall Beige Drywall | 0.09 |
| 3/27/19-092 | INTERIOR/Bedroom 1 Closet | B Wall Beige Drywall | 0.12 |
| 3/27/19-093 | INTERIOR/Bedroom 1 Closet | C Wall Beige Drywall | 0.09 |
| 3/27/19-094 | INTERIOR/Bedroom 1 Closet | D Wall Beige Drywall | 0.09 |
| 3/27/19-095 | INTERIOR/Bedroom 1 Closet | Ceiling Beige Drywall | 0.07 |
| 3/27/19-096 | INTERIOR/Bedroom 1 Closet | B Door Brown Wood | 0.04 |
| 3/27/19-097 | INTERIOR/Bedroom 1 Closet | B Door Casing Beige Wood | 0.06 |
| 3/27/19-098 | INTERIOR/Bedroom 1 Closet | Shelf Beige Wood | 0.57 |
| 3/27/19-099 | INTERIOR/Bedroom 1 Closet | A Shelf Support Beige Wood | 0.03 |
| 3/27/19-100 | INTERIOR/Bedroom 1 Closet | A Baseboard Beige Wood | 0.06 |
| 3/27/19-101 | INTERIOR/Bedroom 1 Closet | B Baseboard Beige Wood | 0.07 |
| 3/27/19-102 | INTERIOR/Bedroom 1 Closet | C Baseboard Beige Wood | 0.10 |
| 3/27/19-103 | INTERIOR/Bedroom 1 Closet | D Baseboard Beige Wood | 0.01 |
| 3/27/19-104 | INTERIOR/Bedroom 2 SE | A Wall Beige Drywall | 0.01 |
| 3/27/19-105 | INTERIOR/Bedroom 2 SE | B Wall Beige Drywall | 0.08 |
| 3/27/19-106 | INTERIOR/Bedroom 2 SE | C Wall Beige Drywall | 0.08 |
| 3/27/19-107 | INTERIOR/Bedroom 2 SE | D Wall Beige Drywall | 0.07 |
| 3/27/19-108 | INTERIOR/Bedroom 2 SE | Ceiling Beige Drywall | 0.05 |
| 3/27/19-109 | INTERIOR/Bedroom 2 SE | B Window Sill Beige Wood | 0.00 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 13 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1210 HUFFMAN AVENUE, APARTMENT A, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 27, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|------------------------------------------------------------|------------------------------|-----------------------------|------------------------------------|
| 1210 HUFFMAN AVENUE, APARTMENT A (MEASURED 27/2019) | | | |
| 3/27/19-110 | INTERIOR/Bedroom 2 SE | B Window Casing Brown Metal | 0.00 |
| 3/27/19-111 | INTERIOR/Bedroom 2 SE | B Window Sash Brown Metal | 0.00 |
| 3/27/19-112 | INTERIOR/Bedroom 2 SE | D Door Brown Wood | 0.00 |
| 3/27/19-113 | INTERIOR/Bedroom 2 SE | D Door Casing Beige Wood | 0.14 |
| 3/27/19-114 | INTERIOR/Bedroom 2 Closet SW | A Wall Beige Drywall | 0.07 |
| 3/27/19-115 | INTERIOR/Bedroom 2 Closet SW | B Wall Beige Drywall | 0.19 |
| 3/27/19-116 | INTERIOR/Bedroom 2 Closet SW | C Wall Beige Drywall | 0.05 |
| 3/27/19-117 | INTERIOR/Bedroom 2 Closet SW | D Wall Beige Drywall | 0.04 |
| 3/27/19-118 | INTERIOR/Bedroom 2 Closet SW | Ceiling Beige Drywall | 0.03 |
| 3/27/19-119 | INTERIOR/Bedroom 2 Closet SW | B Door Brown Wood | 0.05 |
| 3/27/19-120 | INTERIOR/Bedroom 2 Closet SW | B Door Casing Beige Wood | 0.07 |
| 3/27/19-127 | INTERIOR/Bedroom 2 Closet SW | Shelf Beige Wood | 0.02 |
| 3/27/19-128 | INTERIOR/Bedroom 2 Closet SW | C Shelf Support Beige Wood | 0.05 |
| 3/27/19-129 | INTERIOR/Bedroom 2 Closet SW | A Baseboard Beige Wood | 0.03 |
| 3/27/19-130 | INTERIOR/Bedroom 2 Closet SW | B Baseboard Beige Wood | 0.05 |
| 3/27/19-131 | INTERIOR/Bedroom 2 Closet SW | C Baseboard Beige Wood | 0.07 |
| 3/27/19-132 | INTERIOR/Bedroom 2 Closet SW | D Baseboard Beige Wood | 0.01 |
| 3/27/19-133 | INTERIOR/Bedroom 2 Closet NW | A Wall Beige Drywall | 0.06 |
| 3/27/19-134 | INTERIOR/Bedroom 2 Closet NW | B Wall Beige Drywall | 0.02 |
| 3/27/19-135 | INTERIOR/Bedroom 2 Closet NW | C Wall Beige Drywall | 0.07 |
| 3/27/19-136 | INTERIOR/Bedroom 2 Closet NW | D Wall Beige Drywall | 0.02 |
| 3/27/19-137 | INTERIOR/Bedroom 2 Closet NW | Ceiling Beige Drywall | 0.11 |
| 3/27/19-138 | INTERIOR/Bedroom 2 Closet NW | B Door Brown Wood | 0.01 |
| 3/27/19-139 | INTERIOR/Bedroom 2 Closet NW | B Door Casing Beige Wood | 0.24 |
| 3/27/19-140 | INTERIOR/Bedroom 2 Closet NW | Shelf Beige Wood | 0.04 |
| 3/27/19-141 | INTERIOR/Bedroom 2 Closet NW | C Shelf Support Beige Wood | 0.00 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 13 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1210 HUFFMAN AVENUE, APARTMENT A, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 27, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|------------------------------------------------------------|------------------------------|-----------------------------|------------------------------------|
| 1210 HUFFMAN AVENUE, APARTMENT A (MEASURED 27/2019) | | | |
| 3/27/19-142 | INTERIOR/Bedroom 2 Closet NW | A Baseboard Beige Wood | 0.04 |
| 3/27/19-143 | INTERIOR/Bedroom 2 Closet NW | B Baseboard Beige Wood | 0.08 |
| 3/27/19-144 | INTERIOR/Bedroom 2 Closet NW | C Baseboard Beige Wood | 0.03 |
| 3/27/19-145 | INTERIOR/Bedroom 2 Closet NW | D Baseboard Beige Wood | 0.04 |
| 3/27/19-146 | INTERIOR/Bathroom | A Wall Beige Drywall | 0.00 |
| 3/27/19-147 | INTERIOR/Bathroom | B Wall Beige Drywall | 0.00 |
| 3/27/19-148 | INTERIOR/Bathroom | C Wall Beige Drywall | 0.07 |
| 3/27/19-149 | INTERIOR/Bathroom | D Wall Beige Drywall | 0.00 |
| 3/27/19-150 | INTERIOR/Bathroom | Ceiling Beige Drywall | 0.02 |
| 3/27/19-151 | INTERIOR/Bathroom | A Door Brown Wood | 0.00 |
| 3/27/19-152 | INTERIOR/Bathroom | A Door Casing Beige Metal | 0.03 |
| 3/27/19-153 | INTERIOR/Bathroom | D Window Sill Beige Wood | 0.00 |
| 3/27/19-154 | INTERIOR/Bathroom | D Window Casing Brown Metal | 0.00 |
| 3/27/19-155 | INTERIOR/Bathroom | D Window Sash Brown Metal | 0.00 |
| 3/27/19-156 | INTERIOR/Bathroom | A Tub White Ceramic Tile | 0.01 |
| 3/27/19-157 | INTERIOR/Bathroom | C Tub White Ceramic Tile | 0.01 |
| 3/27/19-158 | INTERIOR/Bathroom | D Tub White Ceramic Tile | 0.01 |
| 3/27/19-159 | INTERIOR/Bathroom Closet | B Wall Beige Drywall | 0.00 |
| 3/27/19-160 | INTERIOR/Bathroom Closet | C Wall Beige Drywall | 0.00 |
| 3/27/19-161 | INTERIOR/Bathroom Closet | D Wall Beige Drywall | 0.01 |
| 3/27/19-162 | INTERIOR/Bathroom Closet | A Door Brown Wood | 0.00 |
| 3/27/19-163 | INTERIOR/Bathroom Closet | Ceiling Beige Drywall | 0.00 |
| 3/27/19-164 | INTERIOR/Bathroom Closet | A Door Casing Beige Metal | 0.01 |
| 3/27/19-165 | INTERIOR/Bathroom Closet | Shelf Beige Wood | 0.03 |
| 3/27/19-166 | INTERIOR/Bathroom Closet | D Shelf Support Beige Wood | 0.02 |
| 3/27/19-167 | INTERIOR/Bathroom Closet | B Baseboard Beige Wood | 0.04 |
| 3/27/19-168 | INTERIOR/Bathroom Closet | C Baseboard Beige Wood | 0.01 |
| 3/27/19-169 | INTERIOR/Bathroom Closet | D Baseboard Beige Wood | 0.06 |
| 3/27/19-170 | INTERIOR/Hall D Closet | A Wall Beige Drywall | 0.11 |
| 3/27/19-171 | INTERIOR/Hall D Closet | B Wall Beige Drywall | 0.10 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 13 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1210 HUFFMAN AVENUE, APARTMENT A, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 27, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|------------------------------------------------------------|--------------------------------|-----------------------------|------------------------------------|
| 1210 HUFFMAN AVENUE, APARTMENT A (MEASURED 27/2019) | | | |
| 3/27/19-172 | INTERIOR/Hall D Closet | C Wall Beige Drywall | 0.11 |
| 3/27/19-173 | INTERIOR/Hall D Closet | D Wall Beige Drywall | 0.09 |
| 3/27/19-174 | INTERIOR/Hall D Closet | Ceiling Beige Drywall | 0.14 |
| 3/27/19-175 | INTERIOR/Hall D Closet | C Door Beige Wood | 0.01 |
| 3/27/19-176 | INTERIOR/Hall D Closet | C Door Casing Beige Metal | 0.08 |
| 3/27/19-177 | INTERIOR/Hall D Closet | Shelf Beige Wood | 0.19 |
| 3/27/19-178 | INTERIOR/Hall D Closet | D Shelf Support Beige Wood | 0.01 |
| 3/27/19-179 | INTERIOR/Hall D Closet | A Baseboard Beige Wood | 0.07 |
| 3/27/19-180 | INTERIOR/Hall D Closet | B Baseboard Beige Wood | 0.10 |
| 3/27/19-181 | INTERIOR/Hall D Closet | C Baseboard Beige Wood | 0.07 |
| 3/27/19-182 | INTERIOR/Hall D Closet | D Baseboard Beige Wood | 0.07 |
| 3/27/19-183 | INTERIOR/Hall NW Closet | A Wall Beige Drywall | >1.00 |
| 3/27/19-184 | INTERIOR/Hall NW Closet | B Wall Beige Drywall | 0.06 |
| 3/27/19-185 | INTERIOR/Hall NW Closet | C Wall Beige Drywall | 0.09 |
| 3/27/19-186 | INTERIOR/Hall NW Closet | D Wall Beige Drywall | 0.05 |
| 3/27/19-187 | INTERIOR/Hall NW Closet | Ceiling Beige Drywall | 0.04 |
| 3/27/19-188 | INTERIOR/Hall NW Closet | B Door Brown Wood | 0.01 |
| 3/27/19-189 | INTERIOR/Hall NW Closet | B Door Casing Beige Metal | 0.07 |
| 3/27/19-190 | INTERIOR/Hall NW Closet | Shelf Beige Wood | 0.03 |
| 3/27/19-191 | INTERIOR/Hall NW Closet | D Shelf Support Beige Wood | 0.04 |
| 3/27/19-192 | INTERIOR/Hall NW Closet | A Baseboard Beige Wood | 0.03 |
| 3/27/19-193 | INTERIOR/Hall NW Closet | B Baseboard Beige Wood | 0.14 |
| 3/27/19-194 | INTERIOR/Hall NW Closet | C Baseboard Beige Wood | 0.08 |
| 3/27/19-195 | INTERIOR/Hall NW Closet | D Baseboard Beige Wood | 0.09 |
| 3/27/19-392 | EXTERIOR/Front A | A Window Casing Brown Metal | 0.00 |
| 3/27/19-392 | EXTERIOR/Front A | A Window Sash Brown Metal | 0.00 |
| 3/27/19-392 | EXTERIOR/Front B | B Window Casing Brown Metal | 0.00 |
| 3/27/19-392 | EXTERIOR/Front B | B Window Sash Brown Metal | 0.00 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 14: LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1210 HUFFMAN AVENUE, APARTMENT B, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 27, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|------------------------------------------------------------|----------------------|-----------------------------|------------------------------------|
| 1210 HUFFMAN AVENUE, APARTMENT B (MEASURED 27/2019) | | | |
| 3/27/19-217 | INTERIOR/Living Room | A Wall Beige Drywall | 0.32 |
| 3/27/19-218 | INTERIOR/Living Room | B Wall Beige Drywall | 0.48 |
| 3/27/19-219 | INTERIOR/Living Room | C Wall Beige Drywall | 0.37 |
| 3/27/19-220 | INTERIOR/Living Room | D Wall Beige Drywall | 0.44 |
| 3/27/19-221 | INTERIOR/Living Room | Ceiling Beige Drywall | 0.04 |
| 3/27/19-222 | INTERIOR/Living Room | A Window Sill Beige Wood | 0.00 |
| 3/27/19-223 | INTERIOR/Living Room | A Window Casing Brown Metal | 0.00 |
| 3/27/19-224 | INTERIOR/Living Room | A Window Sash Brown Metal | 0.00 |
| 3/27/19-225 | INTERIOR/Living Room | D Door Beige Metal | 0.00 |
| 3/27/19-226 | INTERIOR/Living Room | D Door Casing Beige Wood | 0.20 |
| 3/27/19-227 | INTERIOR/Living Room | D Shelf Beige Wood | 0.15 |
| 3/27/19-228 | INTERIOR/Living Room | D Shelf Support Beige Wood | 0.47 |
| 3/27/19-229 | INTERIOR/Living Room | A Baseboard Beige Wood | 0.04 |
| 3/27/19-230 | INTERIOR/Living Room | B Baseboard Beige Wood | 0.04 |
| 3/27/19-231 | INTERIOR/Living Room | C Baseboard Beige Wood | 0.17 |
| 3/27/19-232 | INTERIOR/Living Room | D Baseboard Beige Wood | 0.04 |
| 3/27/19-233 | INTERIOR/Living Room | A Crown Molding Beige Wood | 0.01 |
| 3/27/19-234 | INTERIOR/Living Room | B Crown Molding Beige Wood | 0.14 |
| 3/27/19-235 | INTERIOR/Living Room | C Crown Molding Beige Wood | 0.02 |
| 3/27/19-236 | INTERIOR/Living Room | D Crown Molding Beige Wood | 0.14 |
| 3/27/19-237 | INTERIOR/Dining Room | A Wall Beige Drywall | 0.53 |
| 3/27/19-238 | INTERIOR/Dining Room | B Wall Beige Drywall | 0.50 |
| 3/27/19-239 | INTERIOR/Dining Room | C Wall Beige Drywall | 0.45 |
| 3/27/19-240 | INTERIOR/Dining Room | D Wall Beige Drywall | 0.42 |
| 3/27/19-241 | INTERIOR/Dining Room | Ceiling Beige Drywall | 0.06 |
| 3/27/19-242 | INTERIOR/Dining Room | A Window Sill Beige Wood | 0.00 |
| 3/27/19-243 | INTERIOR/Dining Room | A Window Casing Brown Metal | 0.00 |
| 3/27/19-244 | INTERIOR/Dining Room | A Window Sash Brown Metal | 0.00 |
| 3/27/19-245 | INTERIOR/Dining Room | B Window Sill Beige Wood | 0.00 |
| 3/27/19-246 | INTERIOR/Dining Room | B Window Casing Brown Metal | 0.00 |
| 3/27/19-247 | INTERIOR/Dining Room | B Window Sash Brown Metal | 0.00 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 14 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1210 HUFFMAN AVENUE, APARTMENT B, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 27, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|------------------------------------------------------------|----------------------|---------------------------------|------------------------------------|
| 1210 HUFFMAN AVENUE, APARTMENT B (MEASURED 27/2019) | | | |
| 3/27/19-248 | INTERIOR/Dining Room | C Door Trim Beige Wood | 0.03 |
| 3/27/19-249 | INTERIOR/Dining Room | C Door Jamb Beige Wood | 0.32 |
| 3/27/19-250 | INTERIOR/Dining Room | A Baseboard Beige Wood | 0.13 |
| 3/27/19-251 | INTERIOR/Dining Room | B Baseboard Beige Wood | 0.07 |
| 3/27/19-252 | INTERIOR/Dining Room | C Baseboard Beige Wood | 0.07 |
| 3/27/19-253 | INTERIOR/Dining Room | A Crown Molding Beige Wood | 0.15 |
| 3/27/19-254 | INTERIOR/Dining Room | B Crown Molding Beige Wood | 0.07 |
| 3/27/19-255 | INTERIOR/Dining Room | C Crown Molding Beige Wood | 0.09 |
| 3/27/19-256 | INTERIOR/Dining Room | D Crown Molding Beige Wood | 0.27 |
| 3/27/19-257 | INTERIOR/Kitchen | A Wall Beige Drywall | 0.20 |
| 3/27/19-258 | INTERIOR/Kitchen | B Wall Beige Drywall | 0.16 |
| 3/27/19-259 | INTERIOR/Kitchen | C Wall Beige Drywall | 0.00 |
| 3/27/19-260 | INTERIOR/Kitchen | D Wall Beige Drywall | 0.28 |
| 3/27/19-261 | INTERIOR/Kitchen | Ceiling Beige Drywall | 0.07 |
| 3/27/19-262 | INTERIOR/Kitchen | A Door Jamb Beige Wood | 0.32 |
| 3/27/19-263 | INTERIOR/Kitchen | A Door Trim Beige Wood | 0.23 |
| 3/27/19-264 | INTERIOR/Kitchen | B Window Sill Beige Wood | 0.00 |
| 3/27/19-265 | INTERIOR/Kitchen | B Window Casing White Vinyl | 0.00 |
| 3/27/19-266 | INTERIOR/Kitchen | B Window Sash White Vinyl | 0.00 |
| 3/27/19-267 | INTERIOR/Kitchen | C Cabinet Varnish Wood | 0.00 |
| 3/27/19-268 | INTERIOR/Kitchen | B cabinet Varnish Wood | 0.00 |
| 3/27/19-269 | INTERIOR/Hall | B Wall Beige Drywall | 0.43 |
| 3/27/19-270 | INTERIOR/Hall | C Wall Beige Drywall | 0.47 |
| 3/27/19-271 | INTERIOR/Hall | D Wall Beige Drywall | 0.33 |
| 3/27/19-272 | INTERIOR/Hall | Ceiling Beige Drywall | 0.02 |
| 3/27/19-273 | INTERIOR/Hall | B Door Beige Metal | 0.00 |
| 3/27/19-274 | INTERIOR/Hall | B Door Casing Beige Wood | >1.00 |
| 3/27/19-275 | INTERIOR/Hall | D Door Beige Metal | 0.00 |
| 3/27/19-276 | INTERIOR/Hall | D Door Casing Beige Wood | >1.00 |
| 3/27/19-277 | INTERIOR/Hall | B Baseboard Beige Wood | 0.19 |
| 3/27/19-278 | INTERIOR/Hall | C Baseboard Beige Wood | 0.07 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 14 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1210 HUFFMAN AVENUE, APARTMENT B, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 27, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|------------------------------------------------------------|----------------------------------|------------------------------|------------------------------------|
| 1210 HUFFMAN AVENUE, APARTMENT B (MEASURED 27/2019) | | | |
| 3/27/19-279 | INTERIOR/Hall | D Baseboard Beige Wood | 0.07 |
| 3/27/19-280 | INTERIOR/Hall | B Crown Molding Beige Wood | 0.09 |
| 3/27/19-281 | INTERIOR/Hall | C Crown Molding Beige Wood | 0.12 |
| 3/27/19-282 | INTERIOR/Hall | D Crown Molding Beige Wood | 0.24 |
| 3/27/19-283 | INTERIOR/Bedroom 1 NE | A Wall Beige Drywall | 0.11 |
| 3/27/19-284 | INTERIOR/Bedroom 1 NE | B Wall Beige Drywall | 0.49 |
| 3/27/19-285 | INTERIOR/Bedroom 1 NE | C Wall Beige Drywall | 0.23 |
| 3/27/19-286 | INTERIOR/Bedroom 1 NE | D Wall Beige Drywall | 0.02 |
| 3/27/19-287 | INTERIOR/Bedroom 1 NE | Ceiling Beige Drywall | 0.10 |
| 3/27/19-288 | INTERIOR/Bedroom 1 NE | A Window Sill Beige Wood | 0.00 |
| 3/27/19-289 | INTERIOR/Bedroom 1 NE | A Window Casing Brown Metal | 0.00 |
| 3/27/19-290 | INTERIOR/Bedroom 1 NE | A Window Sash Brown Metal | 0.00 |
| 3/27/19-291 | INTERIOR/Bedroom 1 NE | D Door Beige Wood | 0.00 |
| 3/27/19-292 | INTERIOR/Bedroom 1 NE | D Door Casing Beige Metal | 0.11 |
| 3/27/19-293 | INTERIOR/Bedroom 1 NE | A Baseboard Beige Wood | 0.05 |
| 3/27/19-294 | INTERIOR/Bedroom 1 NE | B Baseboard Beige Wood | 0.16 |
| 3/27/19-295 | INTERIOR/Bedroom 1 NE | C Baseboard Beige Wood | 0.05 |
| 3/27/19-296 | INTERIOR/Bedroom 1 NE | D Baseboard Beige Wood | 0.11 |
| 3/27/19-297 | INTERIOR/Bedroom 1 Closet | A Wall Beige Drywall | 0.14 |
| 3/27/19-298 | INTERIOR/Bedroom 1 Closet | B Wall Beige Drywall | 0.15 |
| 3/27/19-299 | INTERIOR/Bedroom 1 Closet | C Wall Beige Drywall | >1.00 |
| 3/27/19-300 | INTERIOR/Bedroom 1 Closet | D Wall Beige Drywall | 0.05 |
| 3/27/19-301 | INTERIOR/Bedroom 1 Closet | Ceiling Beige Drywall | >1.00 |
| 3/27/19-302 | INTERIOR/Bedroom 1 Closet | C Door Beige Wood | 0.00 |
| 3/27/19-303 | INTERIOR/Bedroom 1 Closet | C Door Casing Beige Metal | 0.12 |
| 3/27/19-304 | INTERIOR/Bedroom 1 Closet | Shelf Beige Wood | 0.09 |
| 3/27/19-305 | INTERIOR/Bedroom 1 Closet | A Shelf Support Beige Wood | 0.07 |
| 3/27/19-306 | INTERIOR/Bedroom 1 Closet | A Baseboard Beige Wood | 0.09 |
| 3/27/19-307 | INTERIOR/Bedroom 1 Closet | B Baseboard Beige Wood | 0.14 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 14 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1210 HUFFMAN AVENUE, APARTMENT B, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 27, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm²) |
|------------------------------------------------------------|----------------------------------|----------------------------------|-----------------------------------------|
| 1210 HUFFMAN AVENUE, APARTMENT B (MEASURED 27/2019) | | | |
| 3/27/19-308 | INTERIOR/Bedroom 1 Closet | C Baseboard Beige Wood | 0.12 |
| 3/27/19-309 | INTERIOR/Bedroom 1 Closet | D Baseboard Beige Wood | 0.13 |
| 3/27/19-310 | INTERIOR/Bedroom 2 SE | A Wall Beige Drywall | 0.38 |
| 3/27/19-311 | INTERIOR/Bedroom 2 SE | B Wall Beige Drywall | 0.65 |
| 3/27/19-312 | INTERIOR/Bedroom 2 SE | C Wall Beige Drywall | 0.50 |
| 3/27/19-313 | INTERIOR/Bedroom 2 SE | D Wall Beige Drywall | 0.41 |
| 3/27/19-314 | INTERIOR/Bedroom 2 SE | Ceiling Beige Drywall | 0.10 |
| 3/27/19-315 | INTERIOR/Bedroom 2 SE | B Window Sill Beige Wood | 0.00 |
| 3/27/19-316 | INTERIOR/Bedroom 2 SE | B Window Casing Brown Metal | 0.00 |
| 3/27/19-317 | INTERIOR/Bedroom 2 SE | B Window Sash Brown Metal | 0.00 |
| 3/27/19-318 | INTERIOR/Bedroom 2 SE | D Closet Door Varnish Wood | 0.05 |
| 3/27/19-319 | INTERIOR/Bedroom 2 SE | D Closet Door Casing Beige Metal | 0.12 |
| 3/27/19-320 | INTERIOR/Bedroom 2 SE | D Closet Door Jamb Beige Wood | 0.13 |
| 3/27/19-321 | INTERIOR/Bedroom 2 SE | D Door Beige Wood | 0.02 |
| 3/27/19-322 | INTERIOR/Bedroom 2 SE | D Door Casing Beige Metal | 0.20 |
| 3/27/19-323 | INTERIOR/Bedroom 2 SE | A Baseboard Beige Wood | 0.05 |
| 3/27/19-324 | INTERIOR/Bedroom 2 SE | B Baseboard Beige Wood | 0.16 |
| 3/27/19-325 | INTERIOR/Bedroom 2 SE | C Baseboard Beige Wood | 0.06 |
| 3/27/19-326 | INTERIOR/Bedroom 2 SE | D Baseboard Beige Wood | 0.04 |
| 3/27/19-327 | INTERIOR/Bedroom 2 Closet | A Wall Beige Drywall | 0.41 |
| 3/27/19-328 | INTERIOR/Bedroom 2 Closet | B Wall Beige Drywall | 0.21 |
| 3/27/19-329 | INTERIOR/Bedroom 2 Closet | C Wall Beige Drywall | 0.26 |
| 3/27/19-330 | INTERIOR/Bedroom 2 Closet | D Wall Beige Drywall | >1.00 |
| 3/27/19-331 | INTERIOR/Bedroom 2 Closet | Ceiling Beige Drywall | >1.00 |
| 3/27/19-332 | INTERIOR/Bedroom 2 Closet | B Door Varnish Wood | 0.02 |
| 3/27/19-333 | INTERIOR/Bedroom 2 Closet | B Door Casing Beige Wood | 0.20 |
| 3/27/19-334 | INTERIOR/Bedroom 2 Closet | D Door Casing Beige Wood | 0.14 |
| 3/27/19-335 | INTERIOR/Bedroom 2 Closet | Shelf Beige Wood | 0.11 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 14 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1210 HUFFMAN AVENUE, APARTMENT B, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 27, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|------------------------------------------------------------|---------------------------|---------------------------------|------------------------------------|
| 1210 HUFFMAN AVENUE, APARTMENT B (MEASURED 27/2019) | | | |
| 3/27/19-336 | INTERIOR/Bedroom 2 Closet | C Shelf Support Beige Wood | 0.13 |
| 3/27/19-337 | INTERIOR/Bedroom 2 Closet | A Baseboard Beige Wood | 0.06 |
| 3/27/19-338 | INTERIOR/Bedroom 2 Closet | B Baseboard Beige Wood | 0.06 |
| 3/27/19-339 | INTERIOR/Bedroom 2 Closet | C Baseboard Beige Wood | 0.05 |
| 3/27/19-340 | INTERIOR/Bedroom 2 Closet | D Baseboard Beige Wood | 0.14 |
| 3/27/19-341 | INTERIOR/Bathroom | A Wall Beige Drywall | 0.05 |
| 3/27/19-342 | INTERIOR/Bathroom | B Wall Beige Drywall | 0.07 |
| 3/27/19-343 | INTERIOR/Bathroom | C Wall Beige Drywall | 0.03 |
| 3/27/19-344 | INTERIOR/Bathroom | D Wall Beige Drywall | 0.00 |
| 3/27/19-345 | INTERIOR/Bathroom | Ceiling Beige Drywall | 0.04 |
| 3/27/19-346 | INTERIOR/Bathroom | A Door Beige Wood | 0.00 |
| 3/27/19-347 | INTERIOR/Bathroom | A Door Casing Beige Metal | 0.12 |
| 3/27/19-348 | INTERIOR/Bathroom | D Door Beige Wood | 0.07 |
| 3/27/19-349 | INTERIOR/Bathroom | D Door Casing Beige Metal | 0.12 |
| 3/27/19-350 | INTERIOR/Bathroom | D Window Sill Beige Wood | 0.00 |
| 3/27/19-351 | INTERIOR/Bathroom | D Window Casing Brown Metal | 0.00 |
| 3/27/19-352 | INTERIOR/Bathroom | D Window Sash Brown Metal | 0.00 |
| 3/27/19-353 | INTERIOR/Bathroom | A Tub White Ceramic Tile | >1.00 |
| 3/27/19-355 | INTERIOR/Bathroom | C Tub White Ceramic Tile | >1.00 |
| 3/27/19-356 | INTERIOR/Bathroom | D Tub White Ceramic Tile | >1.00 |
| 3/27/19-357 | INTERIOR/Bathroom Closet | A Wall Beige Drywall | 0.00 |
| 3/27/19-358 | INTERIOR/Bathroom Closet | C Wall Beige Drywall | 0.01 |
| 3/27/19-359 | INTERIOR/Bathroom Closet | D Wall Beige Drywall | 0.02 |
| 3/27/19-360 | INTERIOR/Bathroom Closet | Ceiling Beige Drywall | 0.02 |
| 3/27/19-361 | INTERIOR/Bathroom Closet | B Door Beige Wood | 0.00 |
| 3/27/19-362 | INTERIOR/Bathroom Closet | B Door Casing Beige Metal | 0.13 |
| 3/27/19-363 | INTERIOR/Bathroom Closet | Shelf Beige Wood | 0.06 |
| 3/27/19-364 | INTERIOR/Bathroom Closet | A Shelf Support Beige Wood | 0.03 |
| 3/27/19-365 | INTERIOR/Laundry | A Wall Beige Drywall | 0.10 |
| 3/27/19-366 | INTERIOR/Laundry | B Wall Beige Drywall | >1.00 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

TABLE 14 (CONTINUED): LEAD CONCENTRATIONS MEASURED WITH XRF SPECTRUM ANALYZER AT 1210 HUFFMAN AVENUE, APARTMENT B, DAYTON, OHIO, SAMPLED BY HELIX ENVIRONMENTAL, INC., MARCH 27, 2019.

| Date-Measurement No. | Sample Location | Description | Lead Content (mg/cm ²) |
|------------------------------------------------------------|--------------------------------|------------------------------|------------------------------------|
| 1210 HUFFMAN AVENUE, APARTMENT B (MEASURED 27/2019) | | | |
| 3/27/19-367 | INTERIOR/Laundry | C Wall Beige Drywall | 0.32 |
| 3/27/19-368 | INTERIOR/Laundry | D Wall Beige Drywall | >1.00 |
| 3/27/19-369 | INTERIOR/Laundry | A Wall Beige Drywall | 0.05 |
| 3/27/19-370 | INTERIOR/Laundry | Ceiling Beige Drywall | >1.00 |
| 3/27/19-371 | INTERIOR/Laundry | B Door Casing Beige Metal | 0.09 |
| 3/27/19-372 | INTERIOR/Laundry | B Door Jamb Beige Wood | 0.06 |
| 3/27/19-373 | INTERIOR/Laundry | C Door Beige Wood | 0.00 |
| 3/27/19-374 | INTERIOR/Laundry | B Door Casing Beige Metal | 0.11 |
| 3/27/19-375 | INTERIOR/Laundry | B Shelf Beige Wood | 0.01 |
| 3/27/19-376 | INTERIOR/Laundry | B Shelf Support Beige Wood | 0.16 |
| 3/27/19-377 | INTERIOR/Laundry | C Baseboard Beige Wood | 0.12 |
| 3/27/19-378 | INTERIOR/Laundry | D Baseboard Beige Wood | 0.21 |
| 3/27/19-379 | INTERIOR/Laundry | A Baseboard Beige Wood | 0.03 |
| 3/27/19-380 | INTERIOR/Hall NW Closet | A Wall Beige Drywall | >1.00 |
| 3/27/19-381 | INTERIOR/Hall NW Closet | B Wall Beige Drywall | 0.17 |
| 3/27/19-382 | INTERIOR/Hall NW Closet | C Wall Beige Drywall | >1.00 |
| 3/27/19-383 | INTERIOR/Hall NW Closet | D Wall Beige Drywall | >1.00 |
| 3/27/19-384 | INTERIOR/Hall NW Closet | B Door Beige Wood | 0.00 |
| 3/27/19-385 | INTERIOR/Hall Closet | B Door Casing Beige Metal | 0.20 |
| 3/27/19-386 | INTERIOR/Hall Closet | Ceiling Beige Drywall | >1.00 |
| 3/27/19-387 | INTERIOR/Hall Closet | Shelf Beige Wood | 0.08 |
| 3/27/19-388 | INTERIOR/Hall Closet | C Shelf Support Beige Wood | 0.10 |
| 3/27/19-389 | INTERIOR/Hall Closet | A Baseboard Beige Wood | 0.11 |
| 3/27/19-390 | INTERIOR/Hall Closet | B Baseboard Beige Wood | 0.10 |
| 3/27/19-391 | INTERIOR/Hall Closet | C Baseboard Beige Wood | 0.09 |
| 3/27/19-392 | INTERIOR/Hall Closet | D Baseboard Beige Wood | 0.16 |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

6. DISCUSSION AND RECOMMENDATIONS

A total of 2,274 lead measurements were made with the XRF Analyzer, including both paint film locations and quality assurance samples. Of these, only 113 measurements indicated lead concentrations above 1 mg/cm², the HUD definition of Lead-Based Paint. A significant number of elevated lead levels were associated with white ceramic tiles above kitchen sinks and around bathtubs. Lead-Based Paint was measured in each apartment in one or more locations.

The relatively low number of Lead-Based Paint measurements is an indication that past efforts to reduce the number of identified Lead-Based Paint hazards in the building have been successful. Additional abatement, however, is still needed to ensure that all apartments are free from “Lead-Based Paint” hazards.

XRF measurements indicate that Lead-Based Paint is present on the following surfaces:

9 Parnell Avenue, Apartment A

| LOCATION | COMPONENT | CONDITION |
|---------------------------|-------------------------------|-----------|
| INTERIOR/ Kitchen | B Wall Beige Drywall | FAIR |
| INTERIOR/ Kitchen | A Door Casing Beige Metal | FAIR |
| INTERIOR/ Kitchen | C Door Casing Beige Metal | FAIR |
| INTERIOR/ Living Room | B Door Beige Metal | FAIR |
| INTERIOR/ Bathroom | B Tub White Ceramic Tile | GOOD |
| INTERIOR/ Bathroom | C Tub White Ceramic Tile | GOOD |
| INTERIOR/ Bathroom | D Tub White Ceramic Tile | GOOD |
| INTERIOR/Bedroom 1 Closet | D Baseboard Beige Wood | FAIR |
| INTERIOR/Hall Closet | A Wall Beige Drywall | FAIR |
| EXTERIOR/ Rear C | C Lintel White Metal | POOR |
| EXTERIOR/ Rear C | C Door Casing Beige Metal | GOOD |
| EXTERIOR/Porch | D Wall Painted Brick White | GOOD |
| EXTERIOR/Porch | Storm Door Casing Brown Metal | GOOD |
| EXTERIOR/Porch | Door White Metal | GOOD |

9 Parnell Avenue, Apartment B

| LOCATION | COMPONENT | CONDITION |
|--------------------|--------------------------|-----------|
| INTERIOR/ Bathroom | B Tub White Ceramic Tile | GOOD |
| INTERIOR/ Bathroom | C Tub White Ceramic Tile | GOOD |
| INTERIOR/ Bathroom | D Tub White Ceramic Tile | GOOD |
| EXTERIOR/Porch | A Wall White Brick | GOOD |
| EXTERIOR/Porch | B Wall White Brick | GOOD |
| EXTERIOR/Porch | C Wall White Brick | GOOD |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

11 Parnell Avenue, Apartment A

| LOCATION | COMPONENT | CONDITION |
|------------------------------|---------------------------------|-----------|
| INTERIOR/ Kitchen | B Wall White Ceramic | FAIR |
| INTERIOR/ Living Room Closet | A Door Casing Beige Metal | FAIR |
| INTERIOR/ Basement | A Wall Beige Concrete | FAIR |
| INTERIOR/ Hall | A Door Casing Beige Metal | FAIR |
| INTERIOR/ Hall | D Door Casing Beige Metal | FAIR |
| INTERIOR/ Hall | Wall Cap Beige Wood | FAIR |
| INTERIOR/ Bathroom | B Tub White Ceramic Tile | GOOD |
| INTERIOR/ Bathroom | C Tub White Ceramic Tile | GOOD |
| INTERIOR/ Bathroom | D Tub White Ceramic Tile | GOOD |
| INTERIOR/Bedroom 1 Closet | C Door Casing Beige Metal | GOOD |
| EXTERIOR/Porch | C Wall White Brick | GOOD |
| EXTERIOR/Rear C | D Storm Door Casing White Metal | GOOD |
| EXTERIOR/Rear C | D Door White Metal | GOOD |

11 Parnell Avenue, Apartment B

| LOCATION | COMPONENT | CONDITION |
|------------------------------|---------------------------|-----------|
| INTERIOR/ Kitchen | A Door Casing Beige Metal | FAIR |
| INTERIOR/ Living Room | C Baseboard Beige Wood | FAIR |
| INTERIOR/ Living Room Closet | B Wall Beige Drywall | FAIR |
| INTERIOR/ Living Room Closet | Ceiling Beige Drywall | FAIR |
| INTERIOR/ Basement | C Wall Beige Concrete | FAIR |
| INTERIOR/ Stairs | B Stringer Brown Wood | GOOD |
| INTERIOR/ Stairs | Riser Brown Wood | GOOD |
| INTERIOR/ Bathroom | B Tub White Ceramic Tile | GOOD |
| INTERIOR/ Bathroom | C Tub White Ceramic Tile | GOOD |
| INTERIOR/ Bathroom | D Tub White Ceramic Tile | GOOD |
| INTERIOR/Bedroom 1 SW | D Door Casing Beige Metal | FAIR |
| INTERIOR/Bedroom 1 Closet | A Wall Beige Plaster | FAIR |
| INTERIOR/Bedroom 1 Closet | B Wall Beige Plaster | FAIR |
| INTERIOR/Bedroom 1 Closet | C Wall Beige Plaster | FAIR |
| INTERIOR/Bedroom 1 Closet | Ceiling Beige Plaster | FAIR |
| INTERIOR/Hall Closet | C Wall Beige Plaster | FAIR |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

1202 Huffman Avenue, Apartment A

| LOCATION | COMPONENT | CONDITION |
|-------------------|---------------------------|-----------|
| INTERIOR/Kitchen | B Wall White Ceramic | GOOD |
| INTERIOR/Bathroom | C Wall White Ceramic | GOOD |
| INTERIOR/Bathroom | B Wall White Ceramic | GOOD |
| INTERIOR/Bathroom | D Wall White Ceramic | GOOD |
| EXTERIOR/Rear C | C Door Casing Beige Metal | FAIR |
| EXTERIOR/Rear C | Lintel White Metal | POOR |

1202 Huffman Avenue, Apartment B

| LOCATION | COMPONENT | CONDITION |
|-------------------|--------------------------|-----------|
| INTERIOR/Kitchen | A Wall Beige Drywall | GOOD |
| INTERIOR/Basement | A Wall Beige Concrete | GOOD |
| EXTERIOR/Rear C | C Door Casing Beige Wood | GOOD |

1204 Huffman Avenue, Apartment A

| LOCATION | COMPONENT | CONDITION |
|------------------|---------------------------|-----------|
| EXTERIOR/Front A | A Door Casing White Metal | FAIR |
| EXTERIOR/Front A | D Wall White Brick | FAIR |
| EXTERIOR/Front A | C Wall White Brick | FAIR |

1204 Huffman Avenue, Apartment B

| LOCATION | COMPONENT | CONDITION |
|----------------------|---------------------------|-----------|
| INTERIOR/Kitchen | A Door Casing Beige Metal | FAIR |
| INTERIOR/Living Room | C Door Casing Beige Metal | FAIR |
| INTERIOR/Bathroom | B Tub White Ceramic Tile | GOOD |
| INTERIOR/Bathroom | C Tub White Ceramic Tile | GOOD |
| INTERIOR/Bathroom | D Tub White Ceramic Tile | GOOD |
| EXTERIOR/Front A | C Wall White Brick | GOOD |
| EXTERIOR/Front A | D Wall White Brick | GOOD |
| EXTERIOR/Front A | D Door Casing White Metal | FAIR |
| EXTERIOR/Front A | D Door Lintel Beige Steel | FAIR |
| EXTERIOR/Front A | Trim Tan Wood | FAIR |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

1208 Huffman Avenue, Apartment A

| LOCATION | COMPONENT | CONDITION |
|-------------------------|---------------------------|-----------|
| INTERIOR/Kitchen | B Wall White Ceramic | GOOD |
| INTERIOR/Basement | A Wall White Concrete | FAIR |
| INTERIOR/Basement | C Wall White Concrete | FAIR |
| INTERIOR/Bathroom | B Tub White Ceramic Tile | GOOD |
| INTERIOR/Bathroom | C Tub White Ceramic Tile | GOOD |
| INTERIOR/Bathroom | D Tub White Ceramic Tile | GOOD |
| INTERIOR/Bedroom Closet | A Wall Beige Drywall | FAIR |
| INTERIOR/Hall Closet | C Wall Beige Drywall | FAIR |
| INTERIOR/Hall Closet | D Wall Beige Drywall | FAIR |
| INTERIOR/Hall Closet | Ceiling Beige Drywall | FAIR |
| INTERIOR/Bedroom 2 N | C Door Casing Beige Metal | FAIR |
| INTERIOR/Bedroom Closet | A Wall Beige Drywall | FAIR |
| INTERIOR/Bedroom Closet | Ceiling Beige Drywall | FAIR |
| EXTERIOR/Rear C | C Door Casing Beige Metal | FAIR |
| EXTERIOR/Rear C | C Lintel White Steel | FAIR |

1208 Huffman Avenue, Apartment B

| LOCATION | COMPONENT | CONDITION |
|-------------------|---------------------------|-----------|
| INTERIOR/Bathroom | B Tub White Ceramic Tile | GOOD |
| INTERIOR/Bathroom | C Tub White Ceramic Tile | GOOD |
| INTERIOR/Bathroom | D Tub White Ceramic Tile | GOOD |
| EXTERIOR/Rear C | C Lintel White Metal POOR | POOR |
| EXTERIOR/Rear C | C Door Beige Metal | FAIR |

1210 Huffman Avenue, Common Areas

| LOCATION | COMPONENT | CONDITION |
|-----------------------|-----------------------|-----------|
| INTERIOR/Basement | A Wall Beige Drywall | FAIR |
| INTERIOR/Basement | D Wall Beige Drywall | FAIR |
| INTERIOR/Stair Closet | D Wall Beige Drywall | FAIR |
| INTERIOR/Stair Closet | Ceiling Beige Drywall | FAIR |
| EXTERIOR/Front A | A Door Trim Tan Metal | FAIR |

1210 Huffman Avenue, Apartment A

| LOCATION | COMPONENT | CONDITION |
|-------------------------|----------------------|-----------|
| INTERIOR/Hall NW Closet | A Wall Beige Drywall | FAIR |

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

1210 Huffman Avenue, Apartment B

| LOCATION | COMPONENT | CONDITION |
|---------------------------|--------------------------|-----------|
| INTERIOR/Hall | B Door Casing Beige Wood | FAIR |
| INTERIOR/Hall | D Door Casing Beige Wood | FAIR |
| INTERIOR/Bedroom 1 Closet | C Wall Beige Drywall | FAIR |
| INTERIOR/Bedroom 1 Closet | Ceiling Beige Drywall | FAIR |
| INTERIOR/Bedroom 2 Closet | D Wall Beige Drywall | FAIR |
| INTERIOR/Bedroom 2 Closet | Ceiling Beige Drywall | FAIR |
| INTERIOR/Bathroom | A Wall White Ceramic | GOOD |
| INTERIOR/Bathroom | C Wall White Ceramic | GOOD |
| INTERIOR/Bathroom | D Wall White Ceramic | GOOD |
| INTERIOR/Laundry | B Wall Beige Drywall | FAIR |
| INTERIOR/Laundry | D Wall Beige Drywall | FAIR |
| INTERIOR/Laundry | Ceiling Beige Drywall | FAIR |
| INTERIOR/Hall NW Closet | A Wall Beige Drywall | FAIR |
| INTERIOR/Hall NW Closet | C Wall Beige Drywall | FAIR |
| INTERIOR/Hall NW Closet | D Wall Beige Drywall | FAIR |
| INTERIOR/Hall Closet | Ceiling Beige Drywall | FAIR |

Based on the sampling results, Helix Environmental, Inc. recommends:

- 5. Schedule Lead-Based Paint abatement during upcoming renovations of the inspected apartments and common spaces.** Lead-Based Paint abatement can reduce the potential for lead poisoning in children six years old and younger. Abatement can use several methods to achieve a “permanent” removal of a Lead-Based Paint hazard: paint removal, encapsulation, enclosure or replacement. It may be necessary to temporarily remove tenants from the apartment in order to perform abatement depending on the location of the lead abatement and the time needed to perform the abatement and cleaning of the work area.
- 6. Consider airborne lead exposure monitoring whenever abatement is performed in an occupied unit.** Measurements should be made using calibrated sampling equipment under the supervision of a Certified Industrial Hygienist. Laboratory analyses should be performed by an AIHA-accredited industrial hygiene laboratory to ensure valid measurement results.
- 7. Hire an independent licensed consultant to perform clearance inspections and surface sampling after abatement to document that the abatement was performed as designed, and that surface contamination levels are less than the clearance criteria before the contractor is allowed to remove engineering controls or containments.** Lead clearance inspections and testing must be performed by an Ohio-licensed Lead Paint Inspector or Lead Risk Assessor.

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

- 8. Until the identified Lead-Based Paint hazards have been abated, maintain paint in an undamaged condition by painting damaged paint to stabilize it from further deterioration, and by correcting water intrusions where necessary. Paint in an intact or good condition presents little potential for lead poisoning in children six years and younger.**

7. APPENDICES

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

APPENDIX A: MEASUREMENT RESULTS

| Date | Reading | Mode | LiveTime | Match1 | MN1 | Pass/Fail | Pass Fail St: Pb | Pb +/- | Time |
|-----------|---------|--------------|----------|----------|------|-----------|------------------|--------|----------|
| 25-Mar-19 | 1 | Standardiza | 26.38 | 0.019724 | 230 | -0.033301 | PASS | | 8:48:43 |
| 25-Mar-19 | 2 | Lead Paint I | 5.09 | 0 | 0 | | Negative | 0 | 9:05:17 |
| 25-Mar-19 | 3 | Lead Paint I | 5.02 | 0 | 0 | | Negative | 0 | 9:10:30 |
| 25-Mar-19 | 4 | Lead Paint I | 5.04 | 0 | 0 | | Negative | 0 | 9:11:10 |
| 25-Mar-19 | 5 | Lead Paint I | 5.16 | 0.29 | 0.16 | surface | Negative | 0.29 | 9:17:30 |
| 25-Mar-19 | 6 | Lead Paint I | 5.22 | 0.29 | 0.24 | surface | Negative | 0.29 | 9:18:48 |
| 25-Mar-19 | 7 | Lead Paint I | 5.03 | 0 | 0 | | Negative | 0 | 9:20:28 |
| 25-Mar-19 | 8 | Lead Paint I | 6.17 | 0.2 | 0.16 | surface | Negative | 0.2 | 9:22:35 |
| 25-Mar-19 | 9 | Lead Paint I | 6.1 | 0.05 | 0.11 | | Negative | 0.05 | 9:24:24 |
| 25-Mar-19 | 10 | Lead Paint I | 5.42 | 0 | 0 | | Negative | 0 | 9:25:06 |
| 25-Mar-19 | 11 | Lead Paint I | 2.42 | > 3.73 | 0.73 | surface | Positive | 3.73 | 9:28:36 |
| 25-Mar-19 | 12 | Lead Paint I | 5.35 | 0.13 | 0.1 | surface | Negative | 0.13 | 9:30:41 |
| 25-Mar-19 | 13 | Lead Paint I | 5.38 | 0 | 0 | | Negative | 0 | 9:32:42 |
| 25-Mar-19 | 14 | Lead Paint I | 25.21 | 0.25 | 0.07 | surface | Negative | 0.25 | 9:34:10 |
| 25-Mar-19 | 15 | Lead Paint I | 5.13 | 0 | 0 | | Negative | 0 | 9:36:31 |
| 25-Mar-19 | 16 | Lead Paint I | 5.1 | 0 | 0.01 | | Negative | 0 | 9:36:50 |
| 25-Mar-19 | 17 | Lead Paint I | 24.84 | 0.03 | 0.03 | surface | Negative | 0.03 | 9:40:52 |
| 25-Mar-19 | 18 | Lead Paint I | 5.15 | 0.08 | 0.13 | | Negative | 0.08 | 9:41:41 |
| 25-Mar-19 | 19 | Lead Paint I | 6.16 | 0.04 | 0.07 | | Negative | 0.04 | 9:42:06 |
| 25-Mar-19 | 20 | Lead Paint I | 5.17 | 0 | 0 | | Negative | 0 | 9:42:31 |
| 25-Mar-19 | 21 | Lead Paint I | 6.05 | 0.01 | 0.04 | | Negative | 0.01 | 9:49:37 |
| 25-Mar-19 | 22 | Lead Paint I | 5.02 | 0 | 0 | | Negative | 0 | 9:50:05 |
| 25-Mar-19 | 23 | Lead Paint I | 5.13 | 0 | 0 | | Negative | 0 | 9:50:31 |
| 25-Mar-19 | 24 | Lead Paint I | 5.21 | 0 | 0 | | Negative | 0 | 9:56:55 |
| 25-Mar-19 | 25 | Lead Paint I | 5.24 | 0 | 0 | | Negative | 0 | 9:57:38 |
| 25-Mar-19 | 26 | Lead Paint I | 5.24 | 0 | 0 | | Negative | 0 | 9:58:05 |
| 25-Mar-19 | 27 | Lead Paint I | 6.12 | 0.03 | 0.05 | | Negative | 0.03 | 10:03:05 |
| 25-Mar-19 | 28 | Lead Paint I | 6.09 | 0.49 | 0.18 | surface | Negative | 0.49 | 10:03:44 |
| 25-Mar-19 | 29 | Lead Paint I | 5.97 | 0 | 0 | | Negative | 0 | 10:04:12 |
| 25-Mar-19 | 30 | Lead Paint I | 5.25 | 0 | 0.01 | | Negative | 0 | 10:04:34 |
| 25-Mar-19 | 31 | Lead Paint I | 5.13 | 0 | 0 | | Negative | 0 | 10:11:13 |
| 25-Mar-19 | 32 | Lead Paint I | 6.08 | 0 | 0 | | Negative | 0 | 10:11:35 |
| 25-Mar-19 | 33 | Lead Paint I | 5.09 | 0 | 0 | | Negative | 0 | 10:11:57 |
| 25-Mar-19 | 34 | Lead Paint I | 5.2 | 0.14 | 0.17 | | Negative | 0.14 | 10:18:32 |
| 25-Mar-19 | 35 | Lead Paint I | 5.42 | 0 | 0 | | Negative | 0 | 10:19:25 |
| 25-Mar-19 | 36 | Lead Paint I | 6.05 | 0 | 0.02 | | Negative | 0 | 10:19:44 |
| 25-Mar-19 | 37 | Lead Paint I | 5.1 | 0.01 | 0.03 | | Negative | 0.01 | 10:20:21 |
| 25-Mar-19 | 38 | Lead Paint I | 5.34 | 0 | 0 | | Negative | 0 | 10:21:08 |
| 25-Mar-19 | 39 | Lead Paint I | 5.14 | 0.09 | 0.08 | surface | Negative | 0.09 | 10:21:28 |
| 25-Mar-19 | 40 | Lead Paint I | 11.13 | 0.05 | 0.03 | surface | Negative | 0.05 | 10:28:52 |
| 25-Mar-19 | 41 | Lead Paint I | 5.27 | 0.07 | 0.06 | surface | Negative | 0.07 | 10:29:31 |
| 25-Mar-19 | 42 | Lead Paint I | 6.14 | 0.06 | 0.06 | surface | Negative | 0.06 | 10:29:50 |
| 25-Mar-19 | 43 | Lead Paint I | 5.17 | 0.08 | 0.07 | surface | Negative | 0.08 | 10:30:08 |
| 25-Mar-19 | 44 | Lead Paint I | 5.31 | 0.11 | 0.07 | surface | Negative | 0.11 | 10:30:39 |
| 25-Mar-19 | 45 | Lead Paint I | 6.04 | 0.05 | 0.08 | | Negative | 0.05 | 10:31:02 |
| 25-Mar-19 | 46 | Lead Paint I | 6.13 | 0.38 | 0.13 | surface | Negative | 0.38 | 10:31:23 |
| 25-Mar-19 | 47 | Lead Paint I | 5.04 | 0.39 | 0.13 | surface | Negative | 0.39 | 10:32:02 |
| 25-Mar-19 | 48 | Lead Paint I | 6.11 | 0.44 | 0.13 | surface | Negative | 0.44 | 10:32:26 |
| 25-Mar-19 | 49 | Lead Paint I | 6.14 | 0.32 | 0.11 | surface | Negative | 0.32 | 10:32:54 |
| 25-Mar-19 | 50 | Lead Paint I | 5.83 | 0.4 | 0.15 | surface | Negative | 0.4 | 10:33:27 |
| 25-Mar-19 | 51 | Lead Paint I | 3.39 | 0 | 0 | | Insufficient | 0 | 10:43:38 |
| 25-Mar-19 | 52 | Lead Paint I | 5.8 | 0.05 | 0.04 | surface | Negative | 0.05 | 10:44:34 |
| 25-Mar-19 | 53 | Lead Paint I | 5.73 | 0 | 0 | | Negative | 0 | 10:45:53 |
| 25-Mar-19 | 54 | Lead Paint I | 5.96 | 0.14 | 0.08 | surface | Negative | 0.14 | 10:46:17 |
| 25-Mar-19 | 55 | Lead Paint I | 5.96 | 0.02 | 0.02 | | Negative | 0.02 | 10:46:40 |

| | | | | | | | | | |
|-----------|-----|--------------|-------------|------|--------------|----------|------|------|----------|
| 25-Mar-19 | 56 | Lead Paint I | 5.16 | 0.07 | 0.05 surface | Negative | 0.07 | 0.02 | 10:47:02 |
| 25-Mar-19 | 57 | Lead Paint I | 6.05 | 0 | 0 | Negative | 0 | 0 | 10:47:39 |
| 25-Mar-19 | 58 | Lead Paint I | 5.17 | 0 | 0 | Negative | 0 | 0 | 10:48:13 |
| 25-Mar-19 | 59 | Lead Paint I | 5.17 | 0 | 0 | Negative | 0 | 0 | 10:48:37 |
| 25-Mar-19 | 60 | Lead Paint I | 5.1 | 0 | 0 | Negative | 0 | 0 | 10:48:57 |
| 25-Mar-19 | 61 | Lead Paint I | 5.15 | 0 | 0 | Negative | 0 | 0 | 10:49:16 |
| 25-Mar-19 | 62 | Lead Paint I | 5.71 | 0.06 | 0.13 | Negative | 0.06 | 0.06 | 10:49:40 |
| 25-Mar-19 | 63 | Lead Paint I | 5.31 | 0.13 | 0.09 surface | Negative | 0.13 | 0.04 | 10:50:01 |
| 25-Mar-19 | 64 | Lead Paint I | 5.04 | 0.16 | 0.1 surface | Negative | 0.16 | 0.05 | 10:50:29 |
| 25-Mar-19 | 65 | Lead Paint I | 6.08 | 0.04 | 0.03 surface | Negative | 0.04 | 0.02 | 10:50:47 |
| 25-Mar-19 | 66 | Lead Paint I | 16.38 | 0.09 | 0.15 | Negative | 0.09 | 0.07 | 11:08:50 |
| 25-Mar-19 | 67 | Lead Paint I | 5.29 | 0.14 | 0.2 | Negative | 0.14 | 0.1 | 11:09:35 |
| 25-Mar-19 | 68 | Lead Paint I | 10.85 | 0.06 | 0.06 surface | Negative | 0.06 | 0.03 | 11:09:54 |
| 25-Mar-19 | 69 | Lead Paint I | 5.22 | 0.07 | 0.09 | Negative | 0.07 | 0.05 | 11:10:35 |
| 25-Mar-19 | 70 | Lead Paint I | 5.96 | 0.09 | 0.07 surface | Negative | 0.09 | 0.03 | 11:11:07 |
| 25-Mar-19 | 71 | Lead Paint I | 5.85 | 0.09 | 0.06 surface | Negative | 0.09 | 0.03 | 11:11:39 |
| 25-Mar-19 | 72 | Lead Paint I | 5.88 | 0.16 | 0.1 surface | Negative | 0.16 | 0.05 | 11:12:13 |
| 25-Mar-19 | 73 | Lead Paint I | 5.5 | 0.05 | 0.22 | Negative | 0.05 | 0.11 | 11:12:35 |
| 25-Mar-19 | 74 | Lead Paint I | 5.73 | 0 | 0 | Negative | 0 | 0 | 11:12:55 |
| 25-Mar-19 | 75 | Lead Paint I | 5.65 | 0 | 0 | Negative | 0 | 0 | 11:13:26 |
| 25-Mar-19 | 76 | Lead Paint I | 5.01 | 0.69 | 0.27 surface | Negative | 0.69 | 0.14 | 11:13:51 |
| 25-Mar-19 | 77 | Lead Paint I | 5.07 | 0.61 | 0.2 surface | Negative | 0.61 | 0.1 | 11:14:13 |
| 25-Mar-19 | 78 | Lead Paint I | 6.09 | 0.53 | 0.19 surface | Negative | 0.53 | 0.1 | 11:14:36 |
| 25-Mar-19 | 79 | Lead Paint I | 6.1 | 0.11 | 0.1 surface | Negative | 0.11 | 0.05 | 11:15:22 |
| 25-Mar-19 | 80 | Lead Paint I | 24.6 | 0.11 | 0.04 surface | Negative | 0.11 | 0.02 | 11:15:41 |
| 25-Mar-19 | 81 | Lead Paint I | 25.09 | 0.09 | 0.07 surface | Negative | 0.09 | 0.04 | 11:16:22 |
| 25-Mar-19 | 82 | Lead Paint I | 5.25 | 0.11 | 0.17 | Negative | 0.11 | 0.09 | 11:17:05 |
| 25-Mar-19 | 83 | Lead Paint I | 5.01 | 0.03 | 0.05 | Negative | 0.03 | 0.02 | 11:17:23 |
| 25-Mar-19 | 84 | Lead Paint I | 5.99 | 0.02 | 0.07 | Negative | 0.02 | 0.04 | 11:17:58 |
| 25-Mar-19 | 85 | Lead Paint I | 5.3 | 0.13 | 0.1 surface | Negative | 0.13 | 0.05 | 11:18:20 |
| 25-Mar-19 | 86 | Lead Paint I | 5.86 | 0.42 | 0.19 surface | Negative | 0.42 | 0.1 | 11:18:59 |
| 25-Mar-19 | 87 | Lead Paint I | 5 | 0.57 | 0.21 surface | Negative | 0.57 | 0.11 | 11:19:19 |
| 25-Mar-19 | 88 | Lead Paint I | 5.11 | 0.63 | 0.26 surface | Negative | 0.63 | 0.13 | 11:19:43 |
| 25-Mar-19 | 89 | Lead Paint I | 5.98 | 0.58 | 0.2 surface | Negative | 0.58 | 0.1 | 11:20:05 |
| 25-Mar-19 | 90 | Lead Paint I | 5 | 0.02 | 0.08 | Negative | 0.02 | 0.04 | 11:20:29 |
| 25-Mar-19 | 91 | Lead Paint I | 5.1 | 0.07 | 0.07 surface | Negative | 0.07 | 0.03 | 11:20:47 |
| 25-Mar-19 | 92 | Lead Paint I | 5.84 | 0.01 | 0.04 | Negative | 0.01 | 0.02 | 11:21:09 |
| 25-Mar-19 | 93 | Lead Paint I | 5.42 | 0.17 | 0.1 surface | Negative | 0.17 | 0.05 | 11:21:33 |
| 25-Mar-19 | 94 | Lead Paint I | 5.02 | 0.49 | 0.27 surface | Negative | 0.49 | 0.13 | 11:22:05 |
| 25-Mar-19 | 95 | Lead Paint I | 8.76 | 0.44 | 0.46 | Negative | 0.44 | 0.23 | 11:22:33 |
| 25-Mar-19 | 96 | Lead Paint I | 5.22 | 0 | 0 | Negative | 0 | 0 | 11:22:54 |
| 25-Mar-19 | 97 | Lead Paint I | 24.91 | 0 | 0.01 | Negative | 0 | 0 | 11:23:22 |
| 25-Mar-19 | 98 | Lead Paint I | 5.29 | 0 | 0.01 | Negative | 0 | 0 | 11:24:05 |
| 25-Mar-19 | 99 | Lead Paint I | 6.04 | 0.01 | 0.04 | Negative | 0.01 | 0.02 | 11:24:25 |
| 25-Mar-19 | 100 | Lead Paint I | 5.33 | 0.19 | 0.11 surface | Negative | 0.19 | 0.06 | 11:24:45 |
| 25-Mar-19 | 101 | Lead Paint I | 5.22 | 0 | 0 | Negative | 0 | 0 | 11:25:05 |
| 25-Mar-19 | 102 | Lead Paint I | 5.03 | 0 | 0 | Negative | 0 | 0 | 11:25:32 |
| 25-Mar-19 | 103 | Lead Paint I | 5.21 | 0 | 0 | Negative | 0 | 0 | 11:25:57 |
| 25-Mar-19 | 104 | Lead Paint I | 5.22 | 0 | 0 | Negative | 0 | 0 | 11:26:15 |
| 25-Mar-19 | 105 | Lead Paint I | 5 > 1.00 | | 0.02 | Positive | 1 | 0.01 | 11:26:41 |
| 25-Mar-19 | 106 | Lead Paint I | 6.93 > 1.00 | | 0.02 | Positive | 1 | 0.01 | 11:27:15 |
| 25-Mar-19 | 107 | Lead Paint I | 5.84 > 1.00 | | 0.02 | Positive | 1 | 0.01 | 11:27:43 |
| 25-Mar-19 | 108 | Lead Paint I | 19.87 | 0.06 | 0.04 surface | Negative | 0.06 | 0.02 | 11:42:12 |
| 25-Mar-19 | 109 | Lead Paint I | 5.14 | 0.02 | 0.04 | Negative | 0.02 | 0.02 | 11:42:49 |
| 25-Mar-19 | 110 | Lead Paint I | 24.93 | 0.06 | 0.04 surface | Negative | 0.06 | 0.02 | 11:43:25 |
| 25-Mar-19 | 111 | Lead Paint I | 25.12 | 0.07 | 0.06 surface | Negative | 0.07 | 0.03 | 11:44:12 |

| | | | | | | | | | |
|-----------|-----|--------------|-------|------|--------------|----------|------|------|----------|
| 25-Mar-19 | 112 | Lead Paint I | 8.49 | 0.03 | 0.05 | Negative | 0.03 | 0.03 | 11:44:54 |
| 25-Mar-19 | 113 | Lead Paint I | 6.11 | 0.03 | 0.08 | Negative | 0.03 | 0.04 | 11:45:29 |
| 25-Mar-19 | 114 | Lead Paint I | 5.32 | 0.17 | 0.13 surface | Negative | 0.17 | 0.07 | 11:45:51 |
| 25-Mar-19 | 115 | Lead Paint I | 5.84 | 0.01 | 0.04 | Negative | 0.01 | 0.02 | 11:46:17 |
| 25-Mar-19 | 116 | Lead Paint I | 5.16 | 0.16 | 0.1 surface | Negative | 0.16 | 0.05 | 11:46:40 |
| 25-Mar-19 | 117 | Lead Paint I | 5.15 | 0 | 0 | Negative | 0 | 0 | 11:47:08 |
| 25-Mar-19 | 118 | Lead Paint I | 5.28 | 0 | 0 | Negative | 0 | 0 | 11:47:38 |
| 25-Mar-19 | 119 | Lead Paint I | 5.15 | 0 | 0 | Negative | 0 | 0 | 11:47:55 |
| 25-Mar-19 | 120 | Lead Paint I | 6.02 | 0 | 0 | Negative | 0 | 0 | 11:48:32 |
| 25-Mar-19 | 121 | Lead Paint I | 5.17 | 0 | 0 | Negative | 0 | 0 | 11:48:57 |
| 25-Mar-19 | 122 | Lead Paint I | 5.22 | 0 | 0 | Negative | 0 | 0 | 11:49:15 |
| 25-Mar-19 | 123 | Lead Paint I | 6.13 | 0.13 | 0.09 surface | Negative | 0.13 | 0.04 | 11:49:48 |
| 25-Mar-19 | 124 | Lead Paint I | 5.98 | 0.17 | 0.1 surface | Negative | 0.17 | 0.05 | 11:50:43 |
| 25-Mar-19 | 125 | Lead Paint I | 6.05 | 0.11 | 0.08 surface | Negative | 0.11 | 0.04 | 11:51:20 |
| 25-Mar-19 | 126 | Lead Paint I | 6.12 | 0.11 | 0.08 surface | Negative | 0.11 | 0.04 | 11:51:56 |
| 25-Mar-19 | 127 | Lead Paint I | 5.17 | 0 | 0 | Negative | 0 | 0 | 11:52:34 |
| 25-Mar-19 | 128 | Lead Paint I | 5.16 | 0 | 0 | Negative | 0 | 0 | 11:53:17 |
| 25-Mar-19 | 129 | Lead Paint I | 6.13 | 0 | 0 | Negative | 0 | 0 | 11:53:43 |
| 25-Mar-19 | 130 | Lead Paint I | 5.1 | 0 | 0 | Negative | 0 | 0 | 11:54:12 |
| 25-Mar-19 | 131 | Lead Paint I | 6.09 | 0 | 0 | Negative | 0 | 0 | 11:54:42 |
| 25-Mar-19 | 132 | Lead Paint I | 5.99 | 0.03 | 0.08 | Negative | 0.03 | 0.04 | 11:55:06 |
| 25-Mar-19 | 133 | Lead Paint I | 5.32 | 0.26 | 0.12 surface | Negative | 0.26 | 0.06 | 11:55:38 |
| 25-Mar-19 | 134 | Lead Paint I | 6.05 | 0.12 | 0.07 surface | Negative | 0.12 | 0.04 | 11:56:22 |
| 25-Mar-19 | 135 | Lead Paint I | 5.89 | 0.24 | 0.11 surface | Negative | 0.24 | 0.05 | 11:57:04 |
| 25-Mar-19 | 136 | Lead Paint I | 6.06 | 0.17 | 0.09 surface | Negative | 0.17 | 0.05 | 11:57:29 |
| 25-Mar-19 | 137 | Lead Paint I | 5.08 | 0.19 | 0.11 surface | Negative | 0.19 | 0.05 | 11:58:06 |
| 25-Mar-19 | 138 | Lead Paint I | 6.12 | 0.09 | 0.06 surface | Negative | 0.09 | 0.03 | 11:58:55 |
| 25-Mar-19 | 139 | Lead Paint I | 5.95 | 0.12 | 0.06 surface | Negative | 0.12 | 0.03 | 11:59:23 |
| 25-Mar-19 | 140 | Lead Paint I | 5.18 | 0 | 0 | Negative | 0 | 0 | 12:00:08 |
| 25-Mar-19 | 141 | Lead Paint I | 5.16 | 0 | 0 | Negative | 0 | 0 | 12:00:25 |
| 25-Mar-19 | 142 | Lead Paint I | 5.13 | 0 | 0 | Negative | 0 | 0 | 12:00:46 |
| 25-Mar-19 | 143 | Lead Paint I | 5.15 | 0 | 0 | Negative | 0 | 0 | 12:01:05 |
| 25-Mar-19 | 144 | Lead Paint I | 6.09 | 0.08 | 0.06 surface | Negative | 0.08 | 0.03 | 12:01:28 |
| 25-Mar-19 | 145 | Lead Paint I | 9.42 | 0.79 | 0.19 surface | Negative | 0.79 | 0.09 | 12:01:47 |
| 25-Mar-19 | 146 | Lead Paint I | 5.64 | 0.02 | 0.07 | Negative | 0.02 | 0.04 | 12:02:18 |
| 25-Mar-19 | 147 | Lead Paint I | 5.4 | 0.12 | 0.08 surface | Negative | 0.12 | 0.04 | 12:03:46 |
| 25-Mar-19 | 148 | Lead Paint I | 5.03 | 0.1 | 0.24 | Negative | 0.1 | 0.12 | 12:04:14 |
| 25-Mar-19 | 149 | Lead Paint I | 5.26 | 0.06 | 0.18 | Negative | 0.06 | 0.09 | 12:04:31 |
| 25-Mar-19 | 150 | Lead Paint I | 11.12 | 0.06 | 0.09 | Negative | 0.06 | 0.05 | 12:04:50 |
| 25-Mar-19 | 151 | Lead Paint I | 5.21 | 0.06 | 0.12 | Negative | 0.06 | 0.06 | 12:05:18 |
| 25-Mar-19 | 152 | Lead Paint I | 5.21 | 0.01 | 0.03 | Negative | 0.01 | 0.02 | 12:05:43 |
| 25-Mar-19 | 153 | Lead Paint I | 5.6 | 0.02 | 0.06 | Negative | 0.02 | 0.03 | 12:06:04 |
| 25-Mar-19 | 154 | Lead Paint I | 5.34 | 0.29 | 0.17 surface | Negative | 0.29 | 0.09 | 12:06:25 |
| 25-Mar-19 | 155 | Lead Paint I | 5.87 | 0 | 0 | Negative | 0 | 0 | 12:06:50 |
| 25-Mar-19 | 156 | Lead Paint I | 5.33 | 0.15 | 0.11 surface | Negative | 0.15 | 0.06 | 12:07:08 |
| 25-Mar-19 | 157 | Lead Paint I | 5.08 | 0 | 0 | Negative | 0 | 0 | 12:07:30 |
| 25-Mar-19 | 158 | Lead Paint I | 5.22 | 0 | 0 | Negative | 0 | 0 | 12:07:48 |
| 25-Mar-19 | 159 | Lead Paint I | 5.21 | 0 | 0 | Negative | 0 | 0 | 12:08:05 |
| 25-Mar-19 | 160 | Lead Paint I | 5.09 | 0 | 0 | Negative | 0 | 0 | 12:08:25 |
| 25-Mar-19 | 161 | Lead Paint I | 5.15 | 0 | 0 | Negative | 0 | 0 | 12:08:42 |
| 25-Mar-19 | 162 | Lead Paint I | 5.06 | 0 | 0 | Negative | 0 | 0 | 12:09:10 |
| 25-Mar-19 | 163 | Lead Paint I | 5.03 | 0.16 | 0.12 surface | Negative | 0.16 | 0.06 | 12:09:41 |
| 25-Mar-19 | 164 | Lead Paint I | 5.94 | 0.12 | 0.1 surface | Negative | 0.12 | 0.05 | 12:10:04 |
| 25-Mar-19 | 165 | Lead Paint I | 5.88 | 0.11 | 0.08 surface | Negative | 0.11 | 0.04 | 12:10:30 |
| 25-Mar-19 | 166 | Lead Paint I | 6.13 | 0.05 | 0.05 surface | Negative | 0.05 | 0.03 | 12:10:55 |
| 25-Mar-19 | 167 | Lead Paint I | 5.02 | 0 | 0 | Negative | 0 | 0 | 12:11:30 |

| | | | | | | | | | |
|-----------|-----|--------------|------------|----------|---------------|--------------|------|------|----------|
| 25-Mar-19 | 168 | Lead Paint I | 5.17 | 0 | 0 | Negative | 0 | 0 | 12:11:47 |
| 25-Mar-19 | 169 | Lead Paint I | 6.11 | 0 | 0 | Negative | 0 | 0 | 12:12:04 |
| 25-Mar-19 | 170 | Lead Paint I | 5.11 | 0 | 0 | Negative | 0 | 0 | 12:12:22 |
| 25-Mar-19 | 171 | Lead Paint I | 5.15 | 0 | 0 | Negative | 0 | 0 | 12:12:40 |
| 25-Mar-19 | 172 | Lead Paint I | 6.02 | 0 | 0.03 | Negative | 0 | 0.01 | 12:13:01 |
| 25-Mar-19 | 173 | Lead Paint I | 5.33 | 0.13 | 0.07 surface | Negative | 0.13 | 0.03 | 12:13:19 |
| 25-Mar-19 | 174 | Lead Paint I | 5.84 | 0.12 | 0.08 surface | Negative | 0.12 | 0.04 | 12:14:00 |
| 25-Mar-19 | 175 | Lead Paint I | 6.1 | 0.11 | 0.06 surface | Negative | 0.11 | 0.03 | 12:14:30 |
| 25-Mar-19 | 176 | Lead Paint I | 5.97 | 0.1 | 0.07 surface | Negative | 0.1 | 0.04 | 12:15:11 |
| 25-Mar-19 | 177 | Lead Paint I | 5.04 | 0.05 | 0.05 surface | Negative | 0.05 | 0.02 | 12:15:36 |
| 25-Mar-19 | 178 | Lead Paint I | 5.02 | 0.12 | 0.09 surface | Negative | 0.12 | 0.04 | 12:15:59 |
| 25-Mar-19 | 179 | Lead Paint I | 5.9 | 0.15 | 0.07 surface | Negative | 0.15 | 0.04 | 12:16:18 |
| 25-Mar-19 | 180 | Lead Paint I | 5.09 | 0 | 0 | Negative | 0 | 0 | 12:17:14 |
| 25-Mar-19 | 181 | Lead Paint I | 16.87 | 1.08 | 0.09 surface | Positive | 1.08 | 0.04 | 12:17:36 |
| 25-Mar-19 | 182 | Standardiza | 26.33 | 0.019717 | 227 -0.010762 | PASS | | | 13:30:57 |
| 25-Mar-19 | 183 | Lead Paint I | 6.15 | 0 | 0 | Negative | 0 | 0 | 13:35:31 |
| 25-Mar-19 | 184 | Lead Paint I | 24.96 | 0.16 | 0.12 | Insufficient | 0.16 | 0.06 | 13:36:40 |
| 25-Mar-19 | 185 | Lead Paint I | 5.1 > 1.00 | | 0.23 | Positive | 1 | 0.11 | 13:38:15 |
| 25-Mar-19 | 186 | Lead Paint I | 5.22 | 0 | 0 | Negative | 0 | 0 | 13:38:49 |
| 25-Mar-19 | 187 | Lead Paint I | 25.01 | 0.18 | 0.14 | Negative | 0.18 | 0.07 | 13:39:10 |
| 25-Mar-19 | 188 | Lead Paint I | 2.91 | 0.11 | 0.19 | Negative | 0.11 | 0.09 | 13:40:07 |
| 25-Mar-19 | 189 | Lead Paint I | 24.6 | 0.1 | 0.07 surface | Negative | 0.1 | 0.04 | 13:40:35 |
| 25-Mar-19 | 190 | Lead Paint I | 5.27 | 0 | 0 | Negative | 0 | 0 | 13:41:24 |
| 25-Mar-19 | 191 | Lead Paint I | 5.04 | 0 | 0 | Negative | 0 | 0 | 13:41:53 |
| 25-Mar-19 | 192 | Lead Paint I | 7.69 | 0.06 | 0.06 surface | Negative | 0.06 | 0.03 | 13:42:13 |
| 25-Mar-19 | 193 | Lead Paint I | 5.39 | 0 | 0 | Negative | 0 | 0 | 13:42:38 |
| 25-Mar-19 | 194 | Lead Paint I | 5.1 | 0 | 0 | Negative | 0 | 0 | 13:42:56 |
| 25-Mar-19 | 195 | Lead Paint I | 5.13 | 0 | 0 | Negative | 0 | 0 | 13:43:17 |
| 25-Mar-19 | 196 | Lead Paint I | 5 | 0 | 0.01 | Negative | 0 | 0 | 13:43:45 |
| 25-Mar-19 | 197 | Lead Paint I | 5.8 | 0 | 0 | Negative | 0 | 0 | 13:44:10 |
| 25-Mar-19 | 198 | Lead Paint I | 5.11 | 0 | 0 | Negative | 0 | 0 | 13:44:39 |
| 25-Mar-19 | 199 | Lead Paint I | 5.23 | 0 | 0 | Negative | 0 | 0 | 13:45:04 |
| 25-Mar-19 | 200 | Lead Paint I | 5.14 | 0.24 | 0.55 | Negative | 0.24 | 0.28 | 13:45:24 |
| 25-Mar-19 | 201 | Lead Paint I | 6.35 | 0.28 | 0.51 | Negative | 0.28 | 0.26 | 13:46:00 |
| 25-Mar-19 | 202 | Lead Paint I | 5.25 | 0.01 | 0.01 | Negative | 0.01 | 0 | 13:46:25 |
| 25-Mar-19 | 203 | Lead Paint I | 25.1 | 0.04 | 0.04 | Negative | 0.04 | 0.02 | 13:46:50 |
| 25-Mar-19 | 204 | Lead Paint I | 5.13 | 0 | 0 | Negative | 0 | 0 | 13:47:42 |
| 25-Mar-19 | 205 | Lead Paint I | 5.24 | 0 | 0 | Negative | 0 | 0 | 13:48:14 |
| 25-Mar-19 | 206 | Lead Paint I | 5.19 | 0 | 0 | Negative | 0 | 0 | 13:48:34 |
| 25-Mar-19 | 207 | Lead Paint I | 5.1 | 0 | 0 | Negative | 0 | 0 | 13:49:05 |
| 25-Mar-19 | 208 | Lead Paint I | 5.21 | 0 | 0 | Negative | 0 | 0 | 13:49:22 |
| 25-Mar-19 | 209 | Lead Paint I | 5.15 | 0 | 0 | Negative | 0 | 0 | 13:49:40 |
| 25-Mar-19 | 210 | Lead Paint I | 5.94 | 0 | 0.02 | Negative | 0 | 0.01 | 13:50:11 |
| 25-Mar-19 | 211 | Lead Paint I | 14.63 | 0.19 | 0.12 surface | Negative | 0.19 | 0.06 | 13:50:32 |
| 25-Mar-19 | 212 | Lead Paint I | 5.4 | 0 | 0 | Negative | 0 | 0 | 13:51:07 |
| 25-Mar-19 | 213 | Lead Paint I | 5.08 | 0 | 0 | Negative | 0 | 0 | 13:51:28 |
| 25-Mar-19 | 214 | Lead Paint I | 8.59 | 0.07 | 0.05 surface | Negative | 0.07 | 0.03 | 13:52:07 |
| 25-Mar-19 | 215 | Lead Paint I | 25.04 | 0.15 | 0.04 surface | Negative | 0.15 | 0.02 | 13:52:48 |
| 25-Mar-19 | 216 | Lead Paint I | 15.57 | 0.09 | 0.04 surface | Negative | 0.09 | 0.02 | 13:53:38 |
| 25-Mar-19 | 217 | Lead Paint I | 24.87 | 0.08 | 0.03 surface | Negative | 0.08 | 0.02 | 13:54:16 |
| 25-Mar-19 | 218 | Lead Paint I | 6.1 | 0.01 | 0.03 | Negative | 0.01 | 0.01 | 13:55:07 |
| 25-Mar-19 | 219 | Lead Paint I | 6.04 | 0.06 | 0.07 | Negative | 0.06 | 0.03 | 13:55:29 |
| 25-Mar-19 | 220 | Lead Paint I | 5.18 | 0.04 | 0.08 | Negative | 0.04 | 0.04 | 13:56:29 |
| 25-Mar-19 | 221 | Lead Paint I | 5.25 | 0.01 | 0.02 | Negative | 0.01 | 0.01 | 13:56:52 |
| 25-Mar-19 | 222 | Lead Paint I | 5.14 | 0.02 | 0.04 | Negative | 0.02 | 0.02 | 13:57:13 |
| 25-Mar-19 | 223 | Lead Paint I | 5.16 | 0.05 | 0.08 | Negative | 0.05 | 0.04 | 13:57:35 |

| | | | | | | | | | |
|-----------|-----|--------------|-------|---------|---------------|----------|------|------|----------|
| 25-Mar-19 | 224 | Lead Paint I | 5.14 | 0.03 | 0.06 | Negative | 0.03 | 0.03 | 13:57:52 |
| 25-Mar-19 | 225 | Lead Paint I | 6.05 | 0.06 | 0.06 | Negative | 0.06 | 0.03 | 13:58:23 |
| 25-Mar-19 | 226 | Lead Paint I | 6.1 | 0.06 | 0.08 | Negative | 0.06 | 0.04 | 13:58:42 |
| 25-Mar-19 | 227 | Lead Paint I | 6.04 | 0.03 | 0.04 | Negative | 0.03 | 0.02 | 13:59:02 |
| 25-Mar-19 | 228 | Lead Paint I | 5.86 | 0.12 | 0.09 surface | Negative | 0.12 | 0.04 | 13:59:25 |
| 25-Mar-19 | 229 | Lead Paint I | 6.04 | 0.03 | 0.04 | Negative | 0.03 | 0.02 | 13:59:48 |
| 25-Mar-19 | 230 | Lead Paint I | 5.02 | 0.15 | 0.12 surface | Negative | 0.15 | 0.06 | 14:00:08 |
| 25-Mar-19 | 231 | Lead Paint I | 5.37 | 0.02 | 0.04 | Negative | 0.02 | 0.02 | 14:02:30 |
| 25-Mar-19 | 232 | Lead Paint I | 5.45 | 0.01 | 0.02 | Negative | 0.01 | 0.01 | 14:02:56 |
| 25-Mar-19 | 233 | Lead Paint I | 5.43 | 0.06 | 0.06 surface | Negative | 0.06 | 0.03 | 14:03:21 |
| 25-Mar-19 | 234 | Lead Paint I | 5.28 | > 1.00 | 0.03 | Positive | 1 | 0.01 | 14:03:47 |
| 25-Mar-19 | 235 | Lead Paint I | 5.18 | 0 | 0 | Negative | 0 | 0 | 14:04:17 |
| 25-Mar-19 | 236 | Standardiza | 26.4 | 0.01972 | 227 -0.011934 | PASS | | | 14:08:34 |
| 25-Mar-19 | 237 | Lead Paint I | 5.9 | 0 | 0 | Negative | 0 | 0 | 14:09:56 |
| 25-Mar-19 | 238 | Lead Paint I | 5.06 | 0 | 0 | Negative | 0 | 0 | 14:10:33 |
| 25-Mar-19 | 239 | Lead Paint I | 5.97 | 1.18 | 0.16 surface | Positive | 1.18 | 0.08 | 14:11:01 |
| 25-Mar-19 | 240 | Lead Paint I | 8.75 | 0 | 0.01 | Negative | 0 | 0.01 | 14:11:42 |
| 25-Mar-19 | 241 | Lead Paint I | 24.96 | 0.02 | 0.02 | Negative | 0.02 | 0.01 | 14:12:34 |
| 25-Mar-19 | 242 | Lead Paint I | 4.1 | 0.01 | 0.02 | Negative | 0.01 | 0.01 | 14:13:34 |
| 25-Mar-19 | 243 | Lead Paint I | 5.36 | > 1.00 | 0.05 | Positive | 1 | 0.02 | 14:14:05 |
| 25-Mar-19 | 244 | Lead Paint I | 24.98 | 0.05 | 0.05 | Negative | 0.05 | 0.03 | 14:15:03 |
| 25-Mar-19 | 245 | Lead Paint I | 25.03 | 0.07 | 0.05 surface | Negative | 0.07 | 0.03 | 14:15:49 |
| 25-Mar-19 | 246 | Lead Paint I | 15.62 | 0.05 | 0.08 | Negative | 0.05 | 0.04 | 14:16:39 |
| 25-Mar-19 | 247 | Lead Paint I | 24.79 | 0.05 | 0.03 surface | Negative | 0.05 | 0.02 | 14:17:15 |
| 25-Mar-19 | 248 | Lead Paint I | 5.76 | 0 | 0 | Negative | 0 | 0 | 14:18:11 |
| 25-Mar-19 | 249 | Lead Paint I | 6.05 | 0.19 | 0.14 surface | Negative | 0.19 | 0.07 | 14:18:36 |
| 25-Mar-19 | 250 | Lead Paint I | 5.01 | 0.21 | 0.18 surface | Negative | 0.21 | 0.09 | 14:19:00 |
| 25-Mar-19 | 251 | Lead Paint I | 5.88 | 0.06 | 0.06 | Negative | 0.06 | 0.03 | 14:19:18 |
| 25-Mar-19 | 252 | Lead Paint I | 5.58 | 0 | 0.01 | Negative | 0 | 0 | 14:19:38 |
| 25-Mar-19 | 253 | Lead Paint I | 5.08 | 0.07 | 0.08 | Negative | 0.07 | 0.04 | 14:20:04 |
| 25-Mar-19 | 254 | Lead Paint I | 5.02 | 0.06 | 0.08 | Negative | 0.06 | 0.04 | 14:20:24 |
| 25-Mar-19 | 255 | Lead Paint I | 5.14 | 0.06 | 0.07 | Negative | 0.06 | 0.03 | 14:20:46 |
| 25-Mar-19 | 256 | Lead Paint I | 5.63 | 0 | 0.01 | Negative | 0 | 0 | 14:21:06 |
| 25-Mar-19 | 257 | Lead Paint I | 7.53 | 0.13 | 0.23 | Negative | 0.13 | 0.12 | 14:21:41 |
| 25-Mar-19 | 258 | Lead Paint I | 12.3 | 0.06 | 0.07 | Negative | 0.06 | 0.04 | 14:22:08 |
| 25-Mar-19 | 259 | Lead Paint I | 25.96 | 0.03 | 0.03 surface | Negative | 0.03 | 0.01 | 14:22:34 |
| 25-Mar-19 | 260 | Lead Paint I | 5.2 | 0 | 0 | Negative | 0 | 0 | 14:23:21 |
| 25-Mar-19 | 261 | Lead Paint I | 5.24 | 0.02 | 0.04 | Negative | 0.02 | 0.02 | 14:23:38 |
| 25-Mar-19 | 262 | Lead Paint I | 6.17 | 0 | 0 | Negative | 0 | 0 | 14:24:15 |
| 25-Mar-19 | 263 | Lead Paint I | 5.42 | 0.12 | 0.1 surface | Negative | 0.12 | 0.05 | 14:24:37 |
| 25-Mar-19 | 264 | Lead Paint I | 6.03 | 0 | 0 | Negative | 0 | 0 | 14:25:02 |
| 25-Mar-19 | 265 | Lead Paint I | 5.38 | 0.19 | 0.12 surface | Negative | 0.19 | 0.06 | 14:25:24 |
| 25-Mar-19 | 266 | Lead Paint I | 6.12 | 0 | 0.01 | Negative | 0 | 0 | 14:25:54 |
| 25-Mar-19 | 267 | Lead Paint I | 5.33 | 0.07 | 0.08 | Negative | 0.07 | 0.04 | 14:26:19 |
| 25-Mar-19 | 268 | Lead Paint I | 5.26 | 0 | 0 | Negative | 0 | 0 | 14:26:49 |
| 25-Mar-19 | 269 | Lead Paint I | 5.18 | 0 | 0 | Negative | 0 | 0 | 14:27:09 |
| 25-Mar-19 | 270 | Lead Paint I | 5.27 | 0 | 0 | Negative | 0 | 0 | 14:28:00 |
| 25-Mar-19 | 271 | Lead Paint I | 5.22 | 0 | 0 | Negative | 0 | 0 | 14:28:22 |
| 25-Mar-19 | 272 | Lead Paint I | 5.31 | 0 | 0 | Negative | 0 | 0 | 14:28:47 |
| 25-Mar-19 | 273 | Lead Paint I | 5.06 | 0 | 0 | Negative | 0 | 0 | 14:29:10 |
| 25-Mar-19 | 274 | Lead Paint I | 25.42 | 0.06 | 0.04 surface | Negative | 0.06 | 0.02 | 14:29:30 |
| 25-Mar-19 | 275 | Lead Paint I | 5.2 | 0.08 | 0.14 | Negative | 0.08 | 0.07 | 14:30:26 |
| 25-Mar-19 | 276 | Lead Paint I | 6.29 | 0.33 | 0.57 | Negative | 0.33 | 0.28 | 14:30:46 |
| 25-Mar-19 | 277 | Lead Paint I | 5.2 | 0.13 | 0.23 | Negative | 0.13 | 0.12 | 14:31:10 |
| 25-Mar-19 | 278 | Lead Paint I | 14.59 | 0.1 | 0.11 | Negative | 0.1 | 0.06 | 14:31:30 |
| 25-Mar-19 | 279 | Lead Paint I | 5.24 | 0.05 | 0.07 | Negative | 0.05 | 0.03 | 14:32:02 |

| | | | | | | | | | |
|-----------|-----|--------------|-------|------|--------------|----------|------|------|----------|
| 25-Mar-19 | 280 | Lead Paint I | 5.11 | 0 | 0.01 | Negative | 0 | 0 | 14:32:27 |
| 25-Mar-19 | 281 | Lead Paint I | 5.4 | 0.06 | 0.07 | Negative | 0.06 | 0.04 | 14:32:46 |
| 25-Mar-19 | 282 | Lead Paint I | 5.06 | 0 | 0 | Negative | 0 | 0 | 14:33:10 |
| 25-Mar-19 | 283 | Lead Paint I | 5.41 | 0.16 | 0.14 surface | Negative | 0.16 | 0.07 | 14:33:29 |
| 25-Mar-19 | 284 | Lead Paint I | 5.11 | 0 | 0 | Negative | 0 | 0 | 14:33:49 |
| 25-Mar-19 | 285 | Lead Paint I | 5.25 | 0 | 0 | Negative | 0 | 0 | 14:34:09 |
| 25-Mar-19 | 286 | Lead Paint I | 5.1 | 0 | 0 | Negative | 0 | 0 | 14:34:56 |
| 25-Mar-19 | 287 | Lead Paint I | 5.13 | 0.12 | 0.11 surface | Negative | 0.12 | 0.05 | 14:35:30 |
| 25-Mar-19 | 288 | Lead Paint I | 5.16 | 0.04 | 0.04 | Negative | 0.04 | 0.02 | 14:35:52 |
| 25-Mar-19 | 289 | Lead Paint I | 7.49 | 0.06 | 0.05 surface | Negative | 0.06 | 0.02 | 14:36:15 |
| 25-Mar-19 | 290 | Lead Paint I | 8.73 | 0.02 | 0.02 surface | Negative | 0.02 | 0.01 | 14:36:44 |
| 25-Mar-19 | 291 | Lead Paint I | 5.17 | 0.06 | 0.06 surface | Negative | 0.06 | 0.03 | 14:37:07 |
| 25-Mar-19 | 292 | Lead Paint I | 5.02 | 0.01 | 0.01 | Negative | 0.01 | 0 | 14:37:31 |
| 25-Mar-19 | 293 | Lead Paint I | 5.32 | 0.12 | 0.08 surface | Negative | 0.12 | 0.04 | 14:37:52 |
| 25-Mar-19 | 294 | Lead Paint I | 5.82 | 0.05 | 0.05 | Negative | 0.05 | 0.03 | 14:38:30 |
| 25-Mar-19 | 295 | Lead Paint I | 6.09 | 0.07 | 0.05 surface | Negative | 0.07 | 0.02 | 14:38:55 |
| 25-Mar-19 | 296 | Lead Paint I | 5.08 | 0.02 | 0.1 | Negative | 0.02 | 0.05 | 14:40:03 |
| 25-Mar-19 | 297 | Lead Paint I | 5.4 | 0.22 | 0.13 surface | Negative | 0.22 | 0.06 | 14:40:22 |
| 25-Mar-19 | 298 | Lead Paint I | 6.41 | 0.07 | 0.06 surface | Negative | 0.07 | 0.03 | 14:40:51 |
| 25-Mar-19 | 299 | Lead Paint I | 11 | 0.12 | 0.07 surface | Negative | 0.12 | 0.03 | 14:41:13 |
| 25-Mar-19 | 300 | Lead Paint I | 24.73 | 0.1 | 0.04 surface | Negative | 0.1 | 0.02 | 14:41:46 |
| 25-Mar-19 | 301 | Lead Paint I | 5.21 | 0.07 | 0.05 surface | Negative | 0.07 | 0.02 | 14:42:37 |
| 25-Mar-19 | 302 | Lead Paint I | 5.2 | 0.11 | 0.08 surface | Negative | 0.11 | 0.04 | 14:43:03 |
| 25-Mar-19 | 303 | Lead Paint I | 6.07 | 0.07 | 0.09 | Negative | 0.07 | 0.05 | 14:43:27 |
| 25-Mar-19 | 304 | Lead Paint I | 6.03 | 0.04 | 0.05 | Negative | 0.04 | 0.03 | 14:43:49 |
| 25-Mar-19 | 305 | Lead Paint I | 6.16 | 0.06 | 0.07 | Negative | 0.06 | 0.04 | 14:44:15 |
| 25-Mar-19 | 306 | Lead Paint I | 11.04 | 0.31 | 0.2 surface | Negative | 0.31 | 0.1 | 14:44:42 |
| 25-Mar-19 | 307 | Lead Paint I | 24.87 | 0.1 | 0.04 surface | Negative | 0.1 | 0.02 | 14:45:12 |
| 25-Mar-19 | 308 | Lead Paint I | 11.05 | 0.1 | 0.08 surface | Negative | 0.1 | 0.04 | 14:45:54 |
| 25-Mar-19 | 309 | Lead Paint I | 10.97 | 0.22 | 0.15 surface | Negative | 0.22 | 0.07 | 14:46:21 |
| 25-Mar-19 | 310 | Lead Paint I | 13.08 | 0.06 | 0.04 surface | Negative | 0.06 | 0.02 | 14:46:47 |
| 25-Mar-19 | 311 | Lead Paint I | 5.1 | 0 | 0 | Negative | 0 | 0 | 14:47:18 |
| 25-Mar-19 | 312 | Lead Paint I | 6.6 | 0.3 | 0.33 | Negative | 0.3 | 0.17 | 14:47:38 |
| 25-Mar-19 | 313 | Lead Paint I | 5.22 | 0 | 0 | Negative | 0 | 0 | 14:48:08 |
| 25-Mar-19 | 314 | Lead Paint I | 5.19 | 0 | 0 | Negative | 0 | 0 | 14:48:30 |
| 25-Mar-19 | 315 | Lead Paint I | 5.13 | 0 | 0 | Negative | 0 | 0 | 14:48:59 |
| 25-Mar-19 | 316 | Lead Paint I | 5.07 | 0 | 0.02 | Negative | 0 | 0.01 | 14:49:27 |
| 25-Mar-19 | 317 | Lead Paint I | 5.43 | 0.09 | 0.08 surface | Negative | 0.09 | 0.04 | 14:49:44 |
| 25-Mar-19 | 318 | Lead Paint I | 5.14 | 0.15 | 0.09 surface | Negative | 0.15 | 0.05 | 14:50:16 |
| 25-Mar-19 | 319 | Lead Paint I | 7.55 | 0.22 | 0.09 surface | Negative | 0.22 | 0.05 | 14:50:36 |
| 25-Mar-19 | 320 | Lead Paint I | 13.36 | 0.14 | 0.05 surface | Negative | 0.14 | 0.02 | 14:51:06 |
| 25-Mar-19 | 321 | Lead Paint I | 5.16 | 0.14 | 0.08 surface | Negative | 0.14 | 0.04 | 14:51:40 |
| 25-Mar-19 | 322 | Lead Paint I | 5.07 | 0.09 | 0.05 surface | Negative | 0.09 | 0.03 | 14:51:58 |
| 25-Mar-19 | 323 | Lead Paint I | 5.81 | 0.06 | 0.06 | Negative | 0.06 | 0.03 | 14:52:27 |
| 25-Mar-19 | 324 | Lead Paint I | 5.99 | 0.08 | 0.07 surface | Negative | 0.08 | 0.03 | 14:52:56 |
| 25-Mar-19 | 325 | Lead Paint I | 8.28 | 1.13 | 0.13 surface | Positive | 1.13 | 0.06 | 14:54:02 |
| 25-Mar-19 | 326 | Lead Paint I | 5.03 | 0 | 0 | Negative | 0 | 0 | 14:54:26 |
| 25-Mar-19 | 327 | Lead Paint I | 5.34 | 0 | 0 | Negative | 0 | 0 | 14:55:47 |
| 25-Mar-19 | 328 | Lead Paint I | 5.29 | 1.75 | 0.58 surface | Positive | 1.75 | 0.29 | 14:56:09 |
| 25-Mar-19 | 329 | Lead Paint I | 24.85 | 0.97 | 0.13 surface | Negative | 0.97 | 0.07 | 14:56:31 |
| 25-Mar-19 | 330 | Lead Paint I | 5.01 | 0 | 0 | Negative | 0 | 0 | 14:57:28 |
| 25-Mar-19 | 331 | Lead Paint I | 5.87 | 0 | 0.01 | Negative | 0 | 0 | 14:58:14 |
| 25-Mar-19 | 332 | Lead Paint I | 5.19 | 0 | 0 | Negative | 0 | 0 | 14:58:42 |
| 25-Mar-19 | 333 | Lead Paint I | 5.16 | 0 | 0 | Negative | 0 | 0 | 14:59:00 |
| 25-Mar-19 | 334 | Lead Paint I | 5.63 | 0 | 0.01 | Negative | 0 | 0 | 14:59:38 |
| 25-Mar-19 | 335 | Lead Paint I | 5.93 | 0 | 0 | Negative | 0 | 0 | 15:00:05 |

| | | | | | | | | | |
|-----------|-----|--------------|-------|------|--------------|----------|------|------|----------|
| 25-Mar-19 | 336 | Lead Paint I | 5.18 | 0 | 0 | Negative | 0 | 0 | 15:00:49 |
| 25-Mar-19 | 337 | Lead Paint I | 5.18 | 0 | 0 | Negative | 0 | 0 | 15:01:19 |
| 25-Mar-19 | 338 | Lead Paint I | 6.06 | 1.51 | 0.34 surface | Positive | 1.51 | 0.17 | 15:01:48 |
| 25-Mar-19 | 339 | Lead Paint I | 25.46 | 1.12 | 0.13 surface | Positive | 1.12 | 0.07 | 15:02:09 |
| 25-Mar-19 | 340 | Lead Paint I | 5.11 | 0 | 0 | Negative | 0 | 0 | 15:03:29 |
| 25-Mar-19 | 341 | Lead Paint I | 5.13 | 0 | 0 | Negative | 0 | 0 | 15:03:48 |
| 25-Mar-19 | 342 | Lead Paint I | 5.14 | 0 | 0 | Negative | 0 | 0 | 15:04:22 |
| 25-Mar-19 | 343 | Lead Paint I | 5.18 | 0 | 0 | Negative | 0 | 0 | 15:05:12 |
| 25-Mar-19 | 344 | Lead Paint I | 5.95 | 0 | 0 | Negative | 0 | 0 | 15:05:44 |
| 25-Mar-19 | 345 | Lead Paint I | 5.19 | 0 | 0 | Negative | 0 | 0 | 15:06:03 |
| 25-Mar-19 | 346 | Lead Paint I | 5.05 | 0 | 0 | Negative | 0 | 0 | 15:06:36 |
| 25-Mar-19 | 347 | Lead Paint I | 2.89 | 0.06 | 0.14 | Negative | 0.06 | 0.07 | 15:07:00 |
| 25-Mar-19 | 348 | Lead Paint I | 6.43 | 0.03 | 0.05 | Negative | 0.03 | 0.03 | 15:07:30 |
| 25-Mar-19 | 349 | Lead Paint I | 2.9 | 0.02 | 0.06 | Negative | 0.02 | 0.03 | 15:07:58 |
| 25-Mar-19 | 350 | Lead Paint I | 5.62 | 0 | 0 | Negative | 0 | 0 | 15:08:38 |
| 25-Mar-19 | 351 | Lead Paint I | 5.08 | 0 | 0 | Negative | 0 | 0 | 15:08:57 |
| 25-Mar-19 | 352 | Lead Paint I | 5.06 | 0 | 0 | Negative | 0 | 0 | 15:09:23 |
| 25-Mar-19 | 353 | Lead Paint I | 5.19 | 0 | 0 | Negative | 0 | 0 | 15:09:48 |
| 25-Mar-19 | 354 | Lead Paint I | 5.14 | 0 | 0 | Negative | 0 | 0 | 15:10:10 |
| 25-Mar-19 | 355 | Lead Paint I | 15.71 | 1.09 | 0.09 surface | Positive | 1.09 | 0.04 | 15:11:43 |
| 25-Mar-19 | 356 | Lead Paint I | 5.1 | 0 | 0 | Negative | 0 | 0 | 15:12:46 |

| Date | Reading | Mode | LiveTime | Match1 | MN1 | Pass/Fail | Pass Fail Stz Pb | Pb +/- | Time |
|-----------|---------|--------------|----------|---------|------|-----------|------------------|--------|---------|
| 26-Mar-19 | 1 | Standardiza | 26.37 | 0.01972 | 229 | -0.013409 | PASS | | 8:46:51 |
| 26-Mar-19 | 2 | Lead Paint I | 5.13 | 0 | 0 | | Negative | 0 | 8:52:07 |
| 26-Mar-19 | 3 | Lead Paint I | 5.27 | 0.01 | 0.01 | | Negative | 0.01 | 8:53:00 |
| 26-Mar-19 | 4 | Lead Paint I | 7.59 | 0.01 | 0.01 | | Negative | 0.01 | 8:53:30 |
| 26-Mar-19 | 5 | Lead Paint I | 19.19 | 0.12 | 0.21 | | Negative | 0.12 | 8:53:50 |
| 26-Mar-19 | 6 | Lead Paint I | 5.22 | 0 | 0 | | Negative | 0 | 8:54:25 |
| 26-Mar-19 | 7 | Lead Paint I | 5.25 | 0 | 0 | | Negative | 0 | 8:54:42 |
| 26-Mar-19 | 8 | Lead Paint I | 5.14 | 0 | 0 | | Negative | 0 | 8:55:05 |
| 26-Mar-19 | 9 | Lead Paint I | 6.43 | 0.22 | 0.39 | | Negative | 0.22 | 8:55:22 |
| 26-Mar-19 | 10 | Lead Paint I | 5.2 | 0 | 0 | | Negative | 0 | 8:55:44 |
| 26-Mar-19 | 11 | Lead Paint I | 5.01 | 0 | 0 | | Negative | 0 | 8:56:08 |
| 26-Mar-19 | 12 | Lead Paint I | 5.15 | 0 | 0 | | Negative | 0 | 8:56:33 |
| 26-Mar-19 | 13 | Lead Paint I | 5.87 | 0 | 0.01 | | Negative | 0 | 8:56:57 |
| 26-Mar-19 | 14 | Lead Paint I | 5.52 | 0 | 0 | | Negative | 0 | 8:57:16 |
| 26-Mar-19 | 15 | Lead Paint I | 5.59 | 0 | 0 | | Negative | 0 | 8:57:37 |
| 26-Mar-19 | 16 | Lead Paint I | 5.79 | 0 | 0 | | Negative | 0 | 8:58:06 |
| 26-Mar-19 | 17 | Lead Paint I | 5.99 | 0 | 0 | | Negative | 0 | 8:58:29 |
| 26-Mar-19 | 18 | Lead Paint I | 5.73 | 0 | 0 | | Negative | 0 | 8:58:59 |
| 26-Mar-19 | 19 | Lead Paint I | 6.04 | 0 | 0 | | Negative | 0 | 8:59:24 |
| 26-Mar-19 | 20 | Lead Paint I | 25.04 | 0.04 | 0.04 | | Negative | 0.04 | 8:59:57 |
| 26-Mar-19 | 21 | Lead Paint I | 5.25 | 0 | 0.01 | | Negative | 0 | 9:00:48 |
| 26-Mar-19 | 22 | Lead Paint I | 24.87 | 0.11 | 0.07 | surface | Negative | 0.11 | 9:01:14 |
| 26-Mar-19 | 23 | Lead Paint I | 5.2 | 0 | 0 | | Negative | 0 | 9:01:57 |
| 26-Mar-19 | 24 | Lead Paint I | 5.28 | 0.07 | 0.15 | | Negative | 0.07 | 9:02:23 |
| 26-Mar-19 | 25 | Lead Paint I | 5.07 | 0.02 | 0.02 | surface | Negative | 0.02 | 9:02:52 |
| 26-Mar-19 | 26 | Lead Paint I | 5.25 | 0 | 0 | | Negative | 0 | 9:03:19 |
| 26-Mar-19 | 27 | Lead Paint I | 5.2 | 0 | 0 | | Negative | 0 | 9:03:42 |
| 26-Mar-19 | 28 | Lead Paint I | 5.03 | 0.01 | 0.02 | | Negative | 0.01 | 9:04:10 |
| 26-Mar-19 | 29 | Lead Paint I | 5.24 | 0 | 0 | | Negative | 0 | 9:04:38 |
| 26-Mar-19 | 30 | Lead Paint I | 5.17 | 0 | 0 | | Negative | 0 | 9:04:59 |
| 26-Mar-19 | 31 | Lead Paint I | 5.41 | 0 | 0 | | Negative | 0 | 9:05:29 |
| 26-Mar-19 | 32 | Lead Paint I | 5.22 | 0 | 0 | | Negative | 0 | 9:05:47 |
| 26-Mar-19 | 33 | Lead Paint I | 5.06 | 0 | 0.01 | | Negative | 0 | 9:06:08 |
| 26-Mar-19 | 34 | Lead Paint I | 7.77 | 0.13 | 0.1 | surface | Negative | 0.13 | 9:06:25 |
| 26-Mar-19 | 35 | Lead Paint I | 5.99 | 0 | 0 | | Negative | 0 | 9:06:54 |
| 26-Mar-19 | 36 | Lead Paint I | 5.96 | 0 | 0 | | Negative | 0 | 9:07:20 |
| 26-Mar-19 | 37 | Lead Paint I | 5.88 | 0 | 0 | | Negative | 0 | 9:07:48 |
| 26-Mar-19 | 38 | Lead Paint I | 5.16 | 0 | 0 | | Negative | 0 | 9:08:29 |
| 26-Mar-19 | 39 | Lead Paint I | 5.17 | 0.14 | 0.27 | | Negative | 0.14 | 9:09:07 |
| 26-Mar-19 | 40 | Lead Paint I | 12.02 | 0.07 | 0.05 | surface | Negative | 0.07 | 9:09:32 |
| 26-Mar-19 | 41 | Lead Paint I | 5.2 | 0.06 | 0.07 | | Negative | 0.06 | 9:09:59 |
| 26-Mar-19 | 42 | Lead Paint I | 24.83 | 0.06 | 0.03 | surface | Negative | 0.06 | 9:10:25 |
| 26-Mar-19 | 43 | Lead Paint I | 5.16 | 0.07 | 0.09 | | Negative | 0.07 | 9:11:07 |
| 26-Mar-19 | 44 | Lead Paint I | 5.07 | 0 | 0 | | Negative | 0 | 9:11:29 |
| 26-Mar-19 | 45 | Lead Paint I | 5.33 | 0.14 | 0.1 | surface | Negative | 0.14 | 9:11:46 |
| 26-Mar-19 | 46 | Lead Paint I | 6.08 | 0 | 0 | | Negative | 0 | 9:12:41 |
| 26-Mar-19 | 47 | Lead Paint I | 5.88 | 0 | 0 | | Negative | 0 | 9:13:22 |
| 26-Mar-19 | 48 | Lead Paint I | 6.02 | 0 | 0 | | Negative | 0 | 9:14:12 |
| 26-Mar-19 | 49 | Lead Paint I | 5.96 | 0.17 | 0.1 | surface | Negative | 0.17 | 9:15:08 |
| 26-Mar-19 | 50 | Lead Paint I | 5.04 | 0.05 | 0.06 | | Negative | 0.05 | 9:15:33 |
| 26-Mar-19 | 51 | Lead Paint I | 6.16 | 0.01 | 0.02 | | Negative | 0.01 | 9:16:26 |
| 26-Mar-19 | 52 | Lead Paint I | 5.21 | 0.01 | 0.02 | | Negative | 0.01 | 9:16:49 |
| 26-Mar-19 | 53 | Lead Paint I | 8.54 | 0.04 | 0.06 | | Negative | 0.04 | 9:17:11 |
| 26-Mar-19 | 54 | Lead Paint I | 5.06 | 0 | 0 | | Negative | 0 | 9:17:32 |
| 26-Mar-19 | 55 | Lead Paint I | 5.15 | 0 | 0 | | Negative | 0 | 9:17:51 |

| | | | | | | | | | |
|-----------|-----|--------------|-------|------|--------------|----------|------|------|---------|
| 26-Mar-19 | 56 | Lead Paint I | 6.04 | 0.02 | 0.04 | Negative | 0.02 | 0.02 | 9:18:16 |
| 26-Mar-19 | 57 | Lead Paint I | 5.07 | 0.03 | 0.05 | Negative | 0.03 | 0.03 | 9:18:37 |
| 26-Mar-19 | 58 | Lead Paint I | 5.02 | 0.07 | 0.13 | Negative | 0.07 | 0.06 | 9:18:59 |
| 26-Mar-19 | 59 | Lead Paint I | 5.85 | 0.05 | 0.15 | Negative | 0.05 | 0.07 | 9:19:39 |
| 26-Mar-19 | 60 | Lead Paint I | 10.26 | 0.23 | 0.14 surface | Negative | 0.23 | 0.07 | 9:20:03 |
| 26-Mar-19 | 61 | Lead Paint I | 6.06 | 0 | 0 | Negative | 0 | 0 | 9:20:31 |
| 26-Mar-19 | 62 | Lead Paint I | 6.01 | 0.07 | 0.05 surface | Negative | 0.07 | 0.03 | 9:20:57 |
| 26-Mar-19 | 63 | Lead Paint I | 6.01 | 0.16 | 0.1 surface | Negative | 0.16 | 0.05 | 9:21:18 |
| 26-Mar-19 | 64 | Lead Paint I | 6.06 | 0.16 | 0.09 surface | Negative | 0.16 | 0.05 | 9:21:38 |
| 26-Mar-19 | 65 | Lead Paint I | 6.11 | 0.06 | 0.04 surface | Negative | 0.06 | 0.02 | 9:22:05 |
| 26-Mar-19 | 66 | Lead Paint I | 5.3 | 0.01 | 0.02 | Negative | 0.01 | 0.01 | 9:22:37 |
| 26-Mar-19 | 67 | Lead Paint I | 5.21 | 0 | 0.01 | Negative | 0 | 0 | 9:22:59 |
| 26-Mar-19 | 68 | Lead Paint I | 5.17 | 0.03 | 0.07 | Negative | 0.03 | 0.03 | 9:23:35 |
| 26-Mar-19 | 69 | Lead Paint I | 5.13 | 0.25 | 0.54 | Negative | 0.25 | 0.27 | 9:23:52 |
| 26-Mar-19 | 70 | Lead Paint I | 5.26 | 0.09 | 0.15 | Negative | 0.09 | 0.08 | 9:24:16 |
| 26-Mar-19 | 71 | Lead Paint I | 22.78 | 0.16 | 0.1 surface | Negative | 0.16 | 0.05 | 9:24:37 |
| 26-Mar-19 | 72 | Lead Paint I | 5.79 | 0 | 0 | Negative | 0 | 0 | 9:25:30 |
| 26-Mar-19 | 73 | Lead Paint I | 5.01 | 0.07 | 0.11 | Negative | 0.07 | 0.06 | 9:25:51 |
| 26-Mar-19 | 74 | Lead Paint I | 6.06 | 0.07 | 0.15 | Negative | 0.07 | 0.08 | 9:26:11 |
| 26-Mar-19 | 75 | Lead Paint I | 5.68 | 0 | 0 | Negative | 0 | 0 | 9:26:32 |
| 26-Mar-19 | 76 | Lead Paint I | 5.04 | 0 | 0 | Negative | 0 | 0 | 9:26:55 |
| 26-Mar-19 | 77 | Lead Paint I | 5.7 | 0 | 0.01 | Negative | 0 | 0 | 9:27:21 |
| 26-Mar-19 | 78 | Lead Paint I | 6.11 | 0.05 | 0.09 | Negative | 0.05 | 0.04 | 9:27:42 |
| 26-Mar-19 | 79 | Lead Paint I | 5.02 | 0.06 | 0.11 | Negative | 0.06 | 0.05 | 9:28:04 |
| 26-Mar-19 | 80 | Lead Paint I | 5.04 | 0.21 | 0.53 | Negative | 0.21 | 0.26 | 9:28:28 |
| 26-Mar-19 | 81 | Lead Paint I | 5.22 | 0 | 0 | Negative | 0 | 0 | 9:29:04 |
| 26-Mar-19 | 82 | Lead Paint I | 7.58 | 0.3 | 0.51 | Negative | 0.3 | 0.26 | 9:29:21 |
| 26-Mar-19 | 83 | Lead Paint I | 5.03 | 0 | 0 | Negative | 0 | 0 | 9:29:42 |
| 26-Mar-19 | 84 | Lead Paint I | 5.2 | 0 | 0 | Negative | 0 | 0 | 9:30:01 |
| 26-Mar-19 | 85 | Lead Paint I | 5.15 | 0 | 0 | Negative | 0 | 0 | 9:30:20 |
| 26-Mar-19 | 86 | Lead Paint I | 5.94 | 0 | 0 | Negative | 0 | 0 | 9:30:44 |
| 26-Mar-19 | 87 | Lead Paint I | 5.05 | 0 | 0 | Negative | 0 | 0 | 9:31:03 |
| 26-Mar-19 | 88 | Lead Paint I | 5.06 | 0 | 0 | Negative | 0 | 0 | 9:31:25 |
| 26-Mar-19 | 89 | Lead Paint I | 5.37 | 0 | 0 | Negative | 0 | 0 | 9:31:42 |
| 26-Mar-19 | 90 | Lead Paint I | 5.08 | 0 | 0 | Negative | 0 | 0 | 9:32:01 |
| 26-Mar-19 | 91 | Lead Paint I | 5.29 | 0 | 0 | Negative | 0 | 0 | 9:32:18 |
| 26-Mar-19 | 92 | Lead Paint I | 6.11 | 0.06 | 0.16 | Negative | 0.06 | 0.08 | 9:32:37 |
| 26-Mar-19 | 93 | Lead Paint I | 5.14 | 0 | 0 | Negative | 0 | 0 | 9:33:02 |
| 26-Mar-19 | 94 | Lead Paint I | 5.16 | 0 | 0 | Negative | 0 | 0 | 9:33:25 |
| 26-Mar-19 | 95 | Lead Paint I | 6.05 | 0 | 0 | Negative | 0 | 0 | 9:33:49 |
| 26-Mar-19 | 96 | Lead Paint I | 5.14 | 0 | 0 | Negative | 0 | 0 | 9:34:11 |
| 26-Mar-19 | 97 | Lead Paint I | 5.17 | 0 | 0 | Negative | 0 | 0 | 9:34:28 |
| 26-Mar-19 | 98 | Lead Paint I | 5.17 | 0 | 0 | Negative | 0 | 0 | 9:34:58 |
| 26-Mar-19 | 99 | Lead Paint I | 5.14 | 0 | 0 | Negative | 0 | 0 | 9:35:17 |
| 26-Mar-19 | 100 | Lead Paint I | 5.12 | 0 | 0 | Negative | 0 | 0 | 9:35:38 |
| 26-Mar-19 | 101 | Lead Paint I | 5.29 | 0 | 0 | Negative | 0 | 0 | 9:35:56 |
| 26-Mar-19 | 102 | Lead Paint I | 5.25 | 0 | 0 | Negative | 0 | 0 | 9:36:12 |
| 26-Mar-19 | 103 | Lead Paint I | 5.46 | 0 | 0 | Negative | 0 | 0 | 9:36:33 |
| 26-Mar-19 | 104 | Lead Paint I | 5.49 | 0 | 0 | Negative | 0 | 0 | 9:36:52 |
| 26-Mar-19 | 105 | Lead Paint I | 5.54 | 0 | 0 | Negative | 0 | 0 | 9:37:10 |
| 26-Mar-19 | 106 | Lead Paint I | 5.18 | 0 | 0 | Negative | 0 | 0 | 9:37:29 |
| 26-Mar-19 | 107 | Lead Paint I | 5.27 | 0 | 0 | Negative | 0 | 0 | 9:37:51 |
| 26-Mar-19 | 108 | Lead Paint I | 5.02 | 0 | 0 | Negative | 0 | 0 | 9:38:29 |
| 26-Mar-19 | 109 | Lead Paint I | 5.3 | 0 | 0 | Negative | 0 | 0 | 9:38:47 |
| 26-Mar-19 | 110 | Lead Paint I | 6.16 | 0 | 0 | Negative | 0 | 0 | 9:39:20 |
| 26-Mar-19 | 111 | Lead Paint I | 5.16 | 0.04 | 0.07 | Negative | 0.04 | 0.03 | 9:39:38 |

| | | | | | | | | | |
|-----------|-----|--------------|------|------|--------------|----------|------|------|----------|
| 26-Mar-19 | 112 | Lead Paint I | 5.19 | 0 | 0 | Negative | 0 | 0 | 9:40:00 |
| 26-Mar-19 | 113 | Lead Paint I | 5.14 | 0 | 0 | Negative | 0 | 0 | 9:40:24 |
| 26-Mar-19 | 114 | Lead Paint I | 5.28 | 0 | 0 | Negative | 0 | 0 | 9:40:45 |
| 26-Mar-19 | 115 | Lead Paint I | 5.13 | 0 | 0 | Negative | 0 | 0 | 9:41:05 |
| 26-Mar-19 | 116 | Lead Paint I | 5.34 | 0 | 0 | Negative | 0 | 0 | 9:41:24 |
| 26-Mar-19 | 117 | Lead Paint I | 5.08 | 0 | 0 | Negative | 0 | 0 | 9:41:57 |
| 26-Mar-19 | 118 | Lead Paint I | 5.19 | 0 | 0 | Negative | 0 | 0 | 9:42:20 |
| 26-Mar-19 | 119 | Lead Paint I | 5.17 | 0 | 0 | Negative | 0 | 0 | 9:42:40 |
| 26-Mar-19 | 120 | Lead Paint I | 5.12 | 0 | 0 | Negative | 0 | 0 | 9:43:22 |
| 26-Mar-19 | 121 | Lead Paint I | 5.03 | 0 | 0 | Negative | 0 | 0 | 9:43:57 |
| 26-Mar-19 | 122 | Lead Paint I | 5.07 | 0 | 0 | Negative | 0 | 0 | 9:44:30 |
| 26-Mar-19 | 123 | Lead Paint I | 5.14 | 0 | 0 | Negative | 0 | 0 | 9:45:02 |
| 26-Mar-19 | 124 | Lead Paint I | 5.26 | 0 | 0 | Negative | 0 | 0 | 9:45:49 |
| 26-Mar-19 | 125 | Lead Paint I | 5.01 | 0 | 0 | Negative | 0 | 0 | 9:46:25 |
| 26-Mar-19 | 126 | Lead Paint I | 5.31 | 0 | 0 | Negative | 0 | 0 | 9:46:49 |
| 26-Mar-19 | 127 | Lead Paint I | 5.15 | 0 | 0 | Negative | 0 | 0 | 9:47:08 |
| 26-Mar-19 | 128 | Lead Paint I | 6.14 | 0.13 | 0.11 surface | Negative | 0.13 | 0.06 | 9:47:31 |
| 26-Mar-19 | 129 | Lead Paint I | 5.1 | 0 | 0 | Negative | 0 | 0 | 9:47:52 |
| 26-Mar-19 | 130 | Lead Paint I | 5.15 | 0 | 0 | Negative | 0 | 0 | 9:48:09 |
| 26-Mar-19 | 131 | Lead Paint I | 5.25 | 0 | 0 | Negative | 0 | 0 | 9:48:27 |
| 26-Mar-19 | 132 | Lead Paint I | 5.65 | 0 | 0 | Negative | 0 | 0 | 9:48:50 |
| 26-Mar-19 | 133 | Lead Paint I | 5.07 | 0 | 0 | Negative | 0 | 0 | 9:49:20 |
| 26-Mar-19 | 134 | Lead Paint I | 5.23 | 0 | 0 | Negative | 0 | 0 | 9:50:53 |
| 26-Mar-19 | 135 | Lead Paint I | 5.24 | 0 | 0 | Negative | 0 | 0 | 9:51:20 |
| 26-Mar-19 | 136 | Lead Paint I | 5.12 | 0 | 0 | Negative | 0 | 0 | 9:51:39 |
| 26-Mar-19 | 137 | Lead Paint I | 5.11 | 0 | 0 | Negative | 0 | 0 | 9:52:06 |
| 26-Mar-19 | 138 | Lead Paint I | 5.19 | 0 | 0 | Negative | 0 | 0 | 9:52:34 |
| 26-Mar-19 | 139 | Lead Paint I | 5.29 | 0 | 0 | Negative | 0 | 0 | 9:52:53 |
| 26-Mar-19 | 140 | Lead Paint I | 5.17 | 0 | 0 | Negative | 0 | 0 | 9:53:09 |
| 26-Mar-19 | 141 | Lead Paint I | 5.23 | 0 | 0 | Negative | 0 | 0 | 9:53:44 |
| 26-Mar-19 | 142 | Lead Paint I | 5.14 | 0 | 0 | Negative | 0 | 0 | 9:54:04 |
| 26-Mar-19 | 143 | Lead Paint I | 5.23 | 0 | 0 | Negative | 0 | 0 | 9:54:25 |
| 26-Mar-19 | 144 | Lead Paint I | 5.51 | 0 | 0 | Negative | 0 | 0 | 9:54:42 |
| 26-Mar-19 | 145 | Lead Paint I | 5.05 | 0 | 0 | Negative | 0 | 0 | 9:55:10 |
| 26-Mar-19 | 146 | Lead Paint I | 5.13 | 0 | 0 | Negative | 0 | 0 | 9:55:45 |
| 26-Mar-19 | 147 | Lead Paint I | 5.13 | 0 | 0 | Negative | 0 | 0 | 9:56:14 |
| 26-Mar-19 | 148 | Lead Paint I | 6.09 | 0 | 0 | Negative | 0 | 0 | 9:56:38 |
| 26-Mar-19 | 149 | Lead Paint I | 5.19 | 0 | 0 | Negative | 0 | 0 | 9:57:18 |
| 26-Mar-19 | 150 | Lead Paint I | 5.19 | 0 | 0 | Negative | 0 | 0 | 9:57:38 |
| 26-Mar-19 | 151 | Lead Paint I | 5.27 | 0 | 0 | Negative | 0 | 0 | 9:57:58 |
| 26-Mar-19 | 152 | Lead Paint I | 7.55 | 0.1 | 0.33 | Negative | 0.1 | 0.16 | 9:58:18 |
| 26-Mar-19 | 153 | Lead Paint I | 5.15 | 0 | 0 | Negative | 0 | 0 | 9:58:41 |
| 26-Mar-19 | 154 | Lead Paint I | 5.4 | 0 | 0 | Negative | 0 | 0 | 9:59:15 |
| 26-Mar-19 | 155 | Lead Paint I | 5.31 | 0 | 0 | Negative | 0 | 0 | 9:59:34 |
| 26-Mar-19 | 156 | Lead Paint I | 5.26 | 0 | 0 | Negative | 0 | 0 | 9:59:51 |
| 26-Mar-19 | 157 | Lead Paint I | 5.05 | 0 | 0 | Negative | 0 | 0 | 10:00:11 |
| 26-Mar-19 | 158 | Lead Paint I | 5.33 | 0 | 0 | Negative | 0 | 0 | 10:00:28 |
| 26-Mar-19 | 159 | Lead Paint I | 5.01 | 0 | 0 | Negative | 0 | 0 | 10:00:48 |
| 26-Mar-19 | 160 | Lead Paint I | 5.28 | 0 | 0 | Negative | 0 | 0 | 10:01:06 |
| 26-Mar-19 | 161 | Lead Paint I | 6.06 | 0 | 0 | Negative | 0 | 0 | 10:01:40 |
| 26-Mar-19 | 162 | Lead Paint I | 6.07 | 0 | 0 | Negative | 0 | 0 | 10:02:01 |
| 26-Mar-19 | 163 | Lead Paint I | 6.12 | 0 | 0 | Negative | 0 | 0 | 10:02:29 |
| 26-Mar-19 | 164 | Lead Paint I | 5.99 | 0 | 0 | Negative | 0 | 0 | 10:02:58 |
| 26-Mar-19 | 165 | Lead Paint I | 6.18 | 0 | 0 | Negative | 0 | 0 | 10:03:34 |
| 26-Mar-19 | 166 | Lead Paint I | 5.29 | 0 | 0 | Negative | 0 | 0 | 10:03:54 |
| 26-Mar-19 | 167 | Lead Paint I | 5.2 | 0 | 0 | Negative | 0 | 0 | 10:04:19 |

| | | | | | | | | | |
|-----------|-----|--------------|-------|--------|--------------|----------|------|------|----------|
| 26-Mar-19 | 168 | Lead Paint I | 5.27 | 0 | 0 | Negative | 0 | 0 | 10:04:51 |
| 26-Mar-19 | 169 | Lead Paint I | 5.27 | 0 | 0 | Negative | 0 | 0 | 10:05:13 |
| 26-Mar-19 | 170 | Lead Paint I | 5.03 | 0 | 0 | Negative | 0 | 0 | 10:05:34 |
| 26-Mar-19 | 171 | Lead Paint I | 5.28 | 0 | 0 | Negative | 0 | 0 | 10:05:53 |
| 26-Mar-19 | 172 | Lead Paint I | 5.7 | 0 | 0 | Negative | 0 | 0 | 10:06:24 |
| 26-Mar-19 | 173 | Lead Paint I | 5.13 | 0 | 0 | Negative | 0 | 0 | 10:06:49 |
| 26-Mar-19 | 174 | Lead Paint I | 5.17 | 0 | 0 | Negative | 0 | 0 | 10:07:51 |
| 26-Mar-19 | 175 | Lead Paint I | 5.07 | 0 | 0 | Negative | 0 | 0 | 10:08:25 |
| 26-Mar-19 | 176 | Lead Paint I | 6.11 | 0 | 0 | Negative | 0 | 0 | 10:08:52 |
| 26-Mar-19 | 177 | Lead Paint I | 5.06 | 0 | 0 | Negative | 0 | 0 | 10:09:52 |
| 26-Mar-19 | 178 | Lead Paint I | 23.71 | 1.06 | 0.07 surface | Positive | 1.06 | 0.04 | 10:10:14 |
| 26-Mar-19 | 179 | Lead Paint I | 24.26 | 0.15 | 0.2 | Negative | 0.15 | 0.1 | 10:15:19 |
| 26-Mar-19 | 180 | Lead Paint I | 5.23 | 0 | 0 | Negative | 0 | 0 | 10:16:21 |
| 26-Mar-19 | 181 | Lead Paint I | 6.39 | 0.33 | 0.33 surface | Negative | 0.33 | 0.16 | 10:17:33 |
| 26-Mar-19 | 182 | Lead Paint I | 9.97 | 0.31 | 0.4 | Negative | 0.31 | 0.2 | 10:18:05 |
| 26-Mar-19 | 183 | Lead Paint I | 5.17 | 0 | 0 | Negative | 0 | 0 | 10:18:28 |
| 26-Mar-19 | 184 | Lead Paint I | 5.09 | 0 | 0 | Negative | 0 | 0 | 10:18:48 |
| 26-Mar-19 | 185 | Lead Paint I | 5.55 | 0.01 | 0.01 | Negative | 0.01 | 0.01 | 10:19:37 |
| 26-Mar-19 | 186 | Lead Paint I | 5.59 | 0 | 0 | Negative | 0 | 0 | 10:20:02 |
| 26-Mar-19 | 187 | Lead Paint I | 5.97 | 0 | 0 | Negative | 0 | 0 | 10:20:22 |
| 26-Mar-19 | 188 | Lead Paint I | 5.17 | 0.38 | 0.43 | Negative | 0.38 | 0.21 | 10:20:57 |
| 26-Mar-19 | 189 | Lead Paint I | 24.87 | 0.39 | 0.13 surface | Negative | 0.39 | 0.06 | 10:21:22 |
| 26-Mar-19 | 190 | Lead Paint I | 5.11 | 0.19 | 0.19 | Negative | 0.19 | 0.1 | 10:22:15 |
| 26-Mar-19 | 191 | Lead Paint I | 6.35 | 0 | 0.01 | Negative | 0 | 0 | 10:22:33 |
| 26-Mar-19 | 192 | Lead Paint I | 5.16 | 0.06 | 0.16 | Negative | 0.06 | 0.08 | 10:22:57 |
| 26-Mar-19 | 193 | Lead Paint I | 5.04 | 0 | 0 | Negative | 0 | 0 | 10:23:24 |
| 26-Mar-19 | 194 | Lead Paint I | 5.14 | 0 | 0 | Negative | 0 | 0 | 10:23:45 |
| 26-Mar-19 | 195 | Lead Paint I | 5.2 | 0 | 0 | Negative | 0 | 0 | 10:24:02 |
| 26-Mar-19 | 196 | Lead Paint I | 5.11 | 0 | 0 | Negative | 0 | 0 | 10:24:29 |
| 26-Mar-19 | 197 | Lead Paint I | 5.18 | 0 | 0 | Negative | 0 | 0 | 10:24:48 |
| 26-Mar-19 | 198 | Lead Paint I | 5.1 | 0 | 0 | Negative | 0 | 0 | 10:25:04 |
| 26-Mar-19 | 199 | Lead Paint I | 5.82 | 0 | 0 | Negative | 0 | 0 | 10:25:36 |
| 26-Mar-19 | 200 | Lead Paint I | 15.95 | > 1.00 | 0.1 | Positive | 1 | 0.05 | 10:26:01 |
| 26-Mar-19 | 201 | Lead Paint I | 5.2 | 0 | 0 | Negative | 0 | 0 | 10:26:53 |
| 26-Mar-19 | 202 | Lead Paint I | 5.35 | 0 | 0 | Negative | 0 | 0 | 10:27:10 |
| 26-Mar-19 | 203 | Lead Paint I | 6.06 | 0 | 0 | Negative | 0 | 0 | 10:27:40 |
| 26-Mar-19 | 204 | Lead Paint I | 8.9 | > 1.00 | 0.25 | Positive | 1 | 0.12 | 10:27:56 |
| 26-Mar-19 | 205 | Lead Paint I | 5.06 | 0.18 | 0.23 | Negative | 0.18 | 0.12 | 10:28:55 |
| 26-Mar-19 | 206 | Lead Paint I | 5.11 | 0.04 | 0.13 | Negative | 0.04 | 0.06 | 10:30:04 |
| 26-Mar-19 | 207 | Lead Paint I | 6.04 | 0 | 0 | Negative | 0 | 0 | 10:30:40 |
| 26-Mar-19 | 208 | Lead Paint I | 5.97 | 0.03 | 0.05 | Negative | 0.03 | 0.03 | 10:31:22 |
| 26-Mar-19 | 209 | Lead Paint I | 13.16 | 0.51 | 0.12 surface | Negative | 0.51 | 0.06 | 10:32:06 |
| 26-Mar-19 | 210 | Lead Paint I | 8.69 | 0.19 | 0.09 surface | Negative | 0.19 | 0.04 | 10:32:36 |
| 26-Mar-19 | 211 | Lead Paint I | 13.34 | 0.13 | 0.06 surface | Negative | 0.13 | 0.03 | 10:33:00 |
| 26-Mar-19 | 212 | Lead Paint I | 5.16 | 0.15 | 0.11 surface | Negative | 0.15 | 0.05 | 10:33:30 |
| 26-Mar-19 | 213 | Lead Paint I | 24.98 | 0.26 | 0.06 surface | Negative | 0.26 | 0.03 | 10:33:52 |
| 26-Mar-19 | 214 | Lead Paint I | 5.92 | 0.02 | 0.05 | Negative | 0.02 | 0.03 | 10:34:41 |
| 26-Mar-19 | 215 | Lead Paint I | 5.37 | 0.14 | 0.1 surface | Negative | 0.14 | 0.05 | 10:35:00 |
| 26-Mar-19 | 216 | Lead Paint I | 5.03 | 0.07 | 0.07 | Negative | 0.07 | 0.04 | 10:35:20 |
| 26-Mar-19 | 217 | Lead Paint I | 5.11 | 0.13 | 0.11 surface | Negative | 0.13 | 0.05 | 10:35:41 |
| 26-Mar-19 | 218 | Lead Paint I | 24.79 | 0.33 | 0.07 surface | Negative | 0.33 | 0.03 | 10:36:38 |
| 26-Mar-19 | 219 | Lead Paint I | 24.75 | 0.24 | 0.06 surface | Negative | 0.24 | 0.03 | 10:37:24 |
| 26-Mar-19 | 220 | Lead Paint I | 5.25 | 0.17 | 0.11 surface | Negative | 0.17 | 0.05 | 10:38:03 |
| 26-Mar-19 | 221 | Lead Paint I | 6.37 | 0.18 | 0.07 surface | Negative | 0.18 | 0.03 | 10:38:25 |
| 26-Mar-19 | 222 | Lead Paint I | 17.51 | 0.38 | 0.08 surface | Negative | 0.38 | 0.04 | 10:38:43 |
| 26-Mar-19 | 223 | Lead Paint I | 5.87 | 0.14 | 0.08 surface | Negative | 0.14 | 0.04 | 10:39:34 |

| | | | | | | | | | | |
|-----------|-----|--------------|-------|--------|------|---------|----------|------|------|----------|
| 26-Mar-19 | 224 | Lead Paint I | 6.05 | 0.37 | 0.14 | surface | Negative | 0.37 | 0.07 | 10:39:53 |
| 26-Mar-19 | 225 | Lead Paint I | 5.09 | 0.29 | 0.13 | surface | Negative | 0.29 | 0.06 | 10:40:25 |
| 26-Mar-19 | 226 | Lead Paint I | 5.99 | 0.11 | 0.06 | surface | Negative | 0.11 | 0.03 | 10:41:19 |
| 26-Mar-19 | 227 | Lead Paint I | 5.82 | 0.04 | 0.03 | surface | Negative | 0.04 | 0.02 | 10:41:47 |
| 26-Mar-19 | 228 | Lead Paint I | 6.03 | 0.06 | 0.04 | surface | Negative | 0.06 | 0.02 | 10:42:10 |
| 26-Mar-19 | 229 | Lead Paint I | 5.95 | 0.08 | 0.05 | surface | Negative | 0.08 | 0.02 | 10:42:28 |
| 26-Mar-19 | 230 | Lead Paint I | 5.36 | 0.03 | 0.03 | surface | Negative | 0.03 | 0.01 | 10:42:52 |
| 26-Mar-19 | 231 | Lead Paint I | 5.36 | 0.05 | 0.05 | surface | Negative | 0.05 | 0.03 | 10:43:18 |
| 26-Mar-19 | 232 | Lead Paint I | 5.17 | 0 | 0 | | Negative | 0 | 0 | 10:43:41 |
| 26-Mar-19 | 233 | Lead Paint I | 5.2 | 0 | 0 | | Negative | 0 | 0 | 10:44:05 |
| 26-Mar-19 | 234 | Lead Paint I | 6.15 | 0 | 0 | | Negative | 0 | 0 | 10:44:30 |
| 26-Mar-19 | 235 | Lead Paint I | 5.19 | 0 | 0 | | Negative | 0 | 0 | 10:45:00 |
| 26-Mar-19 | 236 | Lead Paint I | 21.27 | 0.36 | 0.15 | surface | Negative | 0.36 | 0.07 | 10:45:40 |
| 26-Mar-19 | 237 | Lead Paint I | 25.12 | 0.36 | 0.13 | surface | Negative | 0.36 | 0.06 | 10:46:17 |
| 26-Mar-19 | 238 | Lead Paint I | 24.96 | 0.24 | 0.06 | surface | Negative | 0.24 | 0.03 | 10:47:00 |
| 26-Mar-19 | 239 | Lead Paint I | 5.18 | 0.01 | 0.01 | | Negative | 0.01 | 0 | 10:47:45 |
| 26-Mar-19 | 240 | Lead Paint I | 5.78 | 0 | 0.01 | | Negative | 0 | 0 | 10:48:02 |
| 26-Mar-19 | 241 | Lead Paint I | 6.08 | 0.03 | 0.05 | | Negative | 0.03 | 0.02 | 10:48:24 |
| 26-Mar-19 | 242 | Lead Paint I | 5.01 | 0.06 | 0.1 | | Negative | 0.06 | 0.05 | 10:48:45 |
| 26-Mar-19 | 243 | Lead Paint I | 5.7 | 0 | 0 | | Negative | 0 | 0 | 10:49:04 |
| 26-Mar-19 | 244 | Lead Paint I | 5.04 | 0.44 | 0.17 | surface | Negative | 0.44 | 0.08 | 10:49:25 |
| 26-Mar-19 | 245 | Lead Paint I | 5.68 | 0 | 0 | | Negative | 0 | 0 | 10:49:46 |
| 26-Mar-19 | 246 | Lead Paint I | 5.06 | 0.04 | 0.07 | | Negative | 0.04 | 0.03 | 10:50:06 |
| 26-Mar-19 | 247 | Lead Paint I | 5.04 | 0 | 0.02 | | Negative | 0 | 0.01 | 10:50:34 |
| 26-Mar-19 | 248 | Lead Paint I | 5.26 | 0.01 | 0.04 | | Negative | 0.01 | 0.02 | 10:51:12 |
| 26-Mar-19 | 249 | Lead Paint I | 18.13 | 0.22 | 0.1 | surface | Negative | 0.22 | 0.05 | 10:51:56 |
| 26-Mar-19 | 250 | Lead Paint I | 8.45 | 0.43 | 0.24 | surface | Negative | 0.43 | 0.12 | 10:52:30 |
| 26-Mar-19 | 251 | Lead Paint I | 5.26 | 0.26 | 0.22 | surface | Negative | 0.26 | 0.11 | 10:52:53 |
| 26-Mar-19 | 252 | Lead Paint I | 25.92 | 0.43 | 0.11 | surface | Negative | 0.43 | 0.06 | 10:53:11 |
| 26-Mar-19 | 253 | Lead Paint I | 22.53 | 0.05 | 0.05 | surface | Negative | 0.05 | 0.03 | 10:53:53 |
| 26-Mar-19 | 254 | Lead Paint I | 5.93 | 0 | 0.01 | | Negative | 0 | 0 | 10:54:39 |
| 26-Mar-19 | 255 | Lead Paint I | 5.34 | 0.1 | 0.12 | | Negative | 0.1 | 0.06 | 10:54:57 |
| 26-Mar-19 | 256 | Lead Paint I | 5.01 | 0 | 0.02 | | Negative | 0 | 0.01 | 10:55:16 |
| 26-Mar-19 | 257 | Lead Paint I | 5.32 | 0.02 | 0.04 | | Negative | 0.02 | 0.02 | 10:55:32 |
| 26-Mar-19 | 258 | Lead Paint I | 5.56 | 0.02 | 0.06 | | Negative | 0.02 | 0.03 | 10:55:52 |
| 26-Mar-19 | 259 | Lead Paint I | 5.37 | 0.06 | 0.1 | | Negative | 0.06 | 0.05 | 10:56:10 |
| 26-Mar-19 | 260 | Lead Paint I | 6.05 | 0.06 | 0.15 | | Negative | 0.06 | 0.08 | 10:56:27 |
| 26-Mar-19 | 261 | Lead Paint I | 6.17 | 0.31 | 0.51 | | Negative | 0.31 | 0.25 | 10:57:26 |
| 26-Mar-19 | 262 | Lead Paint I | 6.13 | 0.11 | 0.13 | | Negative | 0.11 | 0.06 | 10:57:55 |
| 26-Mar-19 | 263 | Lead Paint I | 6.12 | 0.06 | 0.08 | | Negative | 0.06 | 0.04 | 10:58:25 |
| 26-Mar-19 | 264 | Lead Paint I | 24.65 | 0.05 | 0.05 | surface | Negative | 0.05 | 0.02 | 10:58:51 |
| 26-Mar-19 | 265 | Lead Paint I | 5.13 | 0.07 | 0.19 | | Negative | 0.07 | 0.1 | 10:59:35 |
| 26-Mar-19 | 266 | Lead Paint I | 6.4 | 0.11 | 0.16 | | Negative | 0.11 | 0.08 | 10:59:58 |
| 26-Mar-19 | 267 | Lead Paint I | 24.81 | 0.14 | 0.2 | | Negative | 0.14 | 0.1 | 11:00:25 |
| 26-Mar-19 | 268 | Lead Paint I | 5.22 | 0.15 | 0.15 | | Negative | 0.15 | 0.08 | 11:01:10 |
| 26-Mar-19 | 269 | Lead Paint I | 5.11 | 0.05 | 0.14 | | Negative | 0.05 | 0.07 | 11:01:30 |
| 26-Mar-19 | 270 | Lead Paint I | 5.19 | 0 | 0 | | Negative | 0 | 0 | 11:01:54 |
| 26-Mar-19 | 271 | Lead Paint I | 6.05 | 0 | 0 | | Negative | 0 | 0 | 11:02:12 |
| 26-Mar-19 | 272 | Lead Paint I | 5.94 | 0 | 0.01 | | Negative | 0 | 0.01 | 11:02:36 |
| 26-Mar-19 | 273 | Lead Paint I | 25.65 | 0.1 | 0.06 | surface | Negative | 0.1 | 0.03 | 11:02:57 |
| 26-Mar-19 | 274 | Lead Paint I | 14.54 | > 1.00 | 0.01 | | Positive | 1 | 0 | 11:03:39 |
| 26-Mar-19 | 275 | Lead Paint I | 6.83 | > 1.00 | 0.01 | | Positive | 1 | 0 | 11:04:21 |
| 26-Mar-19 | 276 | Lead Paint I | 5.86 | > 1.00 | 0.01 | | Positive | 1 | 0.01 | 11:04:54 |
| 26-Mar-19 | 277 | Lead Paint I | 25.9 | 0.39 | 0.1 | surface | Negative | 0.39 | 0.05 | 11:05:32 |
| 26-Mar-19 | 278 | Lead Paint I | 24.89 | 0.46 | 0.1 | surface | Negative | 0.46 | 0.05 | 11:06:19 |
| 26-Mar-19 | 279 | Lead Paint I | 5.12 | 0.23 | 0.13 | surface | Negative | 0.23 | 0.06 | 11:07:07 |

| | | | | | | | | | | |
|-----------|-----|--------------|-------|------|------|---------|----------|------|------|----------|
| 26-Mar-19 | 280 | Lead Paint I | 24.81 | 0.22 | 0.08 | surface | Negative | 0.22 | 0.04 | 11:07:29 |
| 26-Mar-19 | 281 | Lead Paint I | 24.9 | 0.02 | 0.02 | surface | Negative | 0.02 | 0.01 | 11:08:15 |
| 26-Mar-19 | 282 | Lead Paint I | 5.96 | 0 | 0 | | Negative | 0 | 0 | 11:09:08 |
| 26-Mar-19 | 283 | Lead Paint I | 5.14 | 0 | 0 | | Negative | 0 | 0 | 11:09:32 |
| 26-Mar-19 | 284 | Lead Paint I | 5.16 | 0 | 0 | | Negative | 0 | 0 | 11:09:55 |
| 26-Mar-19 | 285 | Lead Paint I | 5.03 | 0.01 | 0.04 | | Negative | 0.01 | 0.02 | 11:10:43 |
| 26-Mar-19 | 286 | Lead Paint I | 5.16 | 0.07 | 0.07 | surface | Negative | 0.07 | 0.03 | 11:11:04 |
| 26-Mar-19 | 287 | Lead Paint I | 5.09 | 0.06 | 0.07 | | Negative | 0.06 | 0.04 | 11:11:57 |
| 26-Mar-19 | 288 | Lead Paint I | 25.64 | 0.09 | 0.04 | surface | Negative | 0.09 | 0.02 | 11:12:17 |
| 26-Mar-19 | 289 | Lead Paint I | 7.31 | 0.4 | 0.55 | | Negative | 0.4 | 0.27 | 11:13:25 |
| 26-Mar-19 | 290 | Lead Paint I | 5.05 | 0.14 | 0.14 | | Negative | 0.14 | 0.07 | 11:14:13 |
| 26-Mar-19 | 291 | Lead Paint I | 5.07 | 0.13 | 0.14 | | Negative | 0.13 | 0.07 | 11:14:56 |
| 26-Mar-19 | 292 | Lead Paint I | 5.33 | 0.05 | 0.08 | | Negative | 0.05 | 0.04 | 11:16:25 |
| 26-Mar-19 | 293 | Lead Paint I | 7.57 | 0.68 | 0.28 | surface | Negative | 0.68 | 0.14 | 11:16:50 |
| 26-Mar-19 | 294 | Lead Paint I | 5.15 | 0.3 | 0.23 | surface | Negative | 0.3 | 0.11 | 11:17:15 |
| 26-Mar-19 | 295 | Lead Paint I | 25.04 | 0.67 | 0.18 | surface | Negative | 0.67 | 0.09 | 11:17:41 |
| 26-Mar-19 | 296 | Lead Paint I | 13.41 | 0.33 | 0.16 | surface | Negative | 0.33 | 0.08 | 11:18:26 |
| 26-Mar-19 | 297 | Lead Paint I | 5.09 | 0 | 0.02 | | Negative | 0 | 0.01 | 11:19:04 |
| 26-Mar-19 | 298 | Lead Paint I | 5.14 | 0.21 | 0.23 | | Negative | 0.21 | 0.11 | 11:19:23 |
| 26-Mar-19 | 299 | Lead Paint I | 6.01 | 0.07 | 0.07 | surface | Negative | 0.07 | 0.03 | 11:20:27 |
| 26-Mar-19 | 300 | Lead Paint I | 12.1 | 0.06 | 0.05 | surface | Negative | 0.06 | 0.02 | 11:21:04 |
| 26-Mar-19 | 301 | Lead Paint I | 5.37 | 0.05 | 0.06 | | Negative | 0.05 | 0.03 | 11:23:58 |
| 26-Mar-19 | 302 | Lead Paint I | 2.9 | 0.02 | 0.04 | | Negative | 0.02 | 0.02 | 11:24:31 |
| 26-Mar-19 | 303 | Lead Paint I | 2.92 | 0.03 | 0.06 | | Negative | 0.03 | 0.03 | 11:24:55 |
| 26-Mar-19 | 304 | Lead Paint I | 6.41 | 0.01 | 0.02 | | Negative | 0.01 | 0.01 | 11:25:24 |
| 26-Mar-19 | 305 | Lead Paint I | 6.07 | 0.03 | 0.04 | | Negative | 0.03 | 0.02 | 11:25:56 |
| 26-Mar-19 | 306 | Lead Paint I | 5.93 | 0.07 | 0.07 | surface | Negative | 0.07 | 0.03 | 11:26:17 |
| 26-Mar-19 | 307 | Lead Paint I | 5.1 | 0 | 0 | | Negative | 0 | 0 | 11:26:42 |
| 26-Mar-19 | 308 | Lead Paint I | 5.35 | 0.06 | 0.07 | | Negative | 0.06 | 0.03 | 11:26:59 |
| 26-Mar-19 | 309 | Lead Paint I | 11.08 | 0.57 | 0.24 | surface | Negative | 0.57 | 0.12 | 11:27:41 |
| 26-Mar-19 | 310 | Lead Paint I | 7.23 | 0.58 | 0.21 | surface | Negative | 0.58 | 0.11 | 11:28:13 |
| 26-Mar-19 | 311 | Lead Paint I | 6.34 | 0.68 | 0.3 | surface | Negative | 0.68 | 0.15 | 11:28:42 |
| 26-Mar-19 | 312 | Lead Paint I | 16.31 | 0.73 | 0.18 | surface | Negative | 0.73 | 0.09 | 11:29:00 |
| 26-Mar-19 | 313 | Lead Paint I | 12.09 | 0.09 | 0.07 | surface | Negative | 0.09 | 0.03 | 11:29:35 |
| 26-Mar-19 | 314 | Lead Paint I | 5.04 | 0.02 | 0.04 | | Negative | 0.02 | 0.02 | 11:30:06 |
| 26-Mar-19 | 315 | Lead Paint I | 5.21 | 0 | 0 | | Negative | 0 | 0 | 11:30:30 |
| 26-Mar-19 | 316 | Lead Paint I | 6.15 | 0 | 0 | | Negative | 0 | 0 | 11:30:54 |
| 26-Mar-19 | 317 | Lead Paint I | 6.26 | 0.06 | 0.09 | | Negative | 0.06 | 0.04 | 11:31:36 |
| 26-Mar-19 | 318 | Lead Paint I | 5.95 | 0.01 | 0.04 | | Negative | 0.01 | 0.02 | 11:32:02 |
| 26-Mar-19 | 319 | Lead Paint I | 5.39 | 0.19 | 0.25 | | Negative | 0.19 | 0.12 | 11:32:26 |
| 26-Mar-19 | 320 | Lead Paint I | 5.83 | 0 | 0 | | Negative | 0 | 0 | 11:33:54 |
| 26-Mar-19 | 321 | Lead Paint I | 5.16 | 0 | 0 | | Negative | 0 | 0 | 11:34:17 |
| 26-Mar-19 | 322 | Lead Paint I | 23.54 | 0.98 | 0.11 | surface | Negative | 0.98 | 0.06 | 11:34:59 |
| 26-Mar-19 | 323 | Lead Paint I | 6 | 0 | 0 | | Negative | 0 | 0 | 11:35:52 |
| 26-Mar-19 | 324 | Lead Paint I | 5.34 | 0 | 0 | | Negative | 0 | 0 | 11:36:17 |
| 26-Mar-19 | 325 | Lead Paint I | 5.12 | 0 | 0 | | Negative | 0 | 0 | 11:37:04 |
| 26-Mar-19 | 326 | Lead Paint I | 5.29 | 0 | 0 | | Negative | 0 | 0 | 11:37:22 |
| 26-Mar-19 | 327 | Lead Paint I | 5.09 | 0 | 0 | | Negative | 0 | 0 | 11:37:53 |
| 26-Mar-19 | 328 | Lead Paint I | 5.17 | 0 | 0 | | Negative | 0 | 0 | 11:38:12 |
| 26-Mar-19 | 329 | Lead Paint I | 6.11 | 0 | 0 | | Negative | 0 | 0 | 11:38:32 |
| 26-Mar-19 | 330 | Lead Paint I | 5.66 | 0 | 0 | | Negative | 0 | 0 | 11:38:50 |
| 26-Mar-19 | 331 | Lead Paint I | 5.13 | 0 | 0 | | Negative | 0 | 0 | 11:39:20 |
| 26-Mar-19 | 332 | Lead Paint I | 5.18 | 0 | 0 | | Negative | 0 | 0 | 11:39:38 |
| 26-Mar-19 | 333 | Lead Paint I | 5.04 | 0.55 | 0.13 | surface | Negative | 0.55 | 0.07 | 11:40:02 |
| 26-Mar-19 | 334 | Lead Paint I | 5.19 | 0 | 0 | | Negative | 0 | 0 | 11:41:48 |
| 26-Mar-19 | 335 | Lead Paint I | 5.23 | 0 | 0 | | Negative | 0 | 0 | 11:42:07 |

| | | | | | | | | | |
|-----------|-----|--------------|--------------|----------|---------------|----------|------|------|----------|
| 26-Mar-19 | 336 | Lead Paint I | 5.74 | 0 | 0 | Negative | 0 | 0 | 11:42:31 |
| 26-Mar-19 | 337 | Lead Paint I | 6.09 | 0 | 0 | Negative | 0 | 0 | 11:42:50 |
| 26-Mar-19 | 338 | Lead Paint I | 5.35 | 0 | 0 | Negative | 0 | 0 | 11:43:11 |
| 26-Mar-19 | 339 | Lead Paint I | 5.13 | 1.61 | 0.43 surface | Positive | 1.61 | 0.21 | 11:43:30 |
| 26-Mar-19 | 340 | Lead Paint I | 5.27 | 0 | 0 | Negative | 0 | 0 | 11:43:57 |
| 26-Mar-19 | 341 | Lead Paint I | 9.95 > 1.43 | | 0.43 surface | Positive | 1.43 | 0.22 | 11:44:18 |
| 26-Mar-19 | 342 | Lead Paint I | 7.5 > 1.52 | | 0.51 surface | Positive | 1.52 | 0.26 | 11:44:45 |
| 26-Mar-19 | 343 | Lead Paint I | 17.92 > 1.31 | | 0.31 surface | Positive | 1.31 | 0.16 | 11:45:07 |
| 26-Mar-19 | 344 | Lead Paint I | 7.49 > 1.56 | | 0.55 surface | Positive | 1.56 | 0.28 | 11:45:39 |
| 26-Mar-19 | 345 | Lead Paint I | 5.7 | 0 | 0 | Negative | 0 | 0 | 11:45:58 |
| 26-Mar-19 | 346 | Lead Paint I | 5.17 | 0 | 0 | Negative | 0 | 0 | 11:46:16 |
| 26-Mar-19 | 347 | Lead Paint I | 5.39 | 0 | 0 | Negative | 0 | 0 | 11:46:43 |
| 26-Mar-19 | 348 | Lead Paint I | 5.14 | 1.61 | 0.44 surface | Positive | 1.61 | 0.22 | 11:47:10 |
| 26-Mar-19 | 349 | Lead Paint I | 5.13 | 1.75 | 0.72 surface | Positive | 1.75 | 0.36 | 11:47:35 |
| 26-Mar-19 | 350 | Lead Paint I | 5.21 | 2.52 | 1.04 surface | Positive | 2.52 | 0.52 | 11:47:55 |
| 26-Mar-19 | 351 | Lead Paint I | 5.09 | 0 | 0 | Negative | 0 | 0 | 11:48:13 |
| 26-Mar-19 | 352 | Lead Paint I | 5.1 | 0 | 0 | Negative | 0 | 0 | 11:48:44 |
| 26-Mar-19 | 353 | Lead Paint I | 5.22 | 0 | 0 | Negative | 0 | 0 | 11:49:08 |
| 26-Mar-19 | 354 | Lead Paint I | 16.9 > 1.69 | | 0.67 surface | Positive | 1.69 | 0.34 | 11:49:37 |
| 26-Mar-19 | 355 | Lead Paint I | 5.41 | 0 | 0 | Negative | 0 | 0 | 11:50:13 |
| 26-Mar-19 | 356 | Lead Paint I | 5.31 | 0 | 0 | Negative | 0 | 0 | 11:50:44 |
| 26-Mar-19 | 357 | Lead Paint I | 6.12 | 0 | 0 | Negative | 0 | 0 | 11:51:49 |
| 26-Mar-19 | 358 | Lead Paint I | 23.8 | 1.05 | 0.07 surface | Positive | 1.05 | 0.03 | 11:52:09 |
| 26-Mar-19 | 359 | Standardiza | 26.9 | 0.019716 | 227 -0.030843 | PASS | | | 12:50:01 |
| 26-Mar-19 | 360 | Lead Paint I | 5.09 | 0 | 0 | Negative | 0 | 0 | 12:55:36 |
| 26-Mar-19 | 361 | Lead Paint I | 6.04 | 0 | 0 | Negative | 0 | 0 | 12:58:01 |
| 26-Mar-19 | 362 | Lead Paint I | 5.22 | 0 | 0 | Negative | 0 | 0 | 12:58:20 |
| 26-Mar-19 | 363 | Lead Paint I | 5.11 | 0 | 0 | Negative | 0 | 0 | 12:58:45 |
| 26-Mar-19 | 364 | Lead Paint I | 5.33 | 0 | 0.01 | Negative | 0 | 0 | 12:59:18 |
| 26-Mar-19 | 365 | Lead Paint I | 5.23 | 1.46 | 0.43 surface | Positive | 1.46 | 0.21 | 12:59:54 |
| 26-Mar-19 | 366 | Lead Paint I | 22.32 | 1.14 | 0.14 surface | Positive | 1.14 | 0.07 | 13:03:00 |
| 26-Mar-19 | 367 | Lead Paint I | 5.17 | 0 | 0 | Negative | 0 | 0 | 13:03:44 |
| 26-Mar-19 | 368 | Lead Paint I | 12.2 | 0.04 | 0.11 | Negative | 0.04 | 0.06 | 13:06:01 |
| 26-Mar-19 | 369 | Lead Paint I | 23.45 | 0.21 | 0.22 | Negative | 0.21 | 0.11 | 13:06:40 |
| 26-Mar-19 | 370 | Lead Paint I | 24.84 | 0.13 | 0.2 | Negative | 0.13 | 0.1 | 13:07:28 |
| 26-Mar-19 | 371 | Lead Paint I | 5.21 | 0 | 0 | Negative | 0 | 0 | 13:08:12 |
| 26-Mar-19 | 372 | Lead Paint I | 5.23 | 0 | 0 | Negative | 0 | 0 | 13:08:30 |
| 26-Mar-19 | 373 | Lead Paint I | 5.03 | 0 | 0 | Negative | 0 | 0 | 13:08:57 |
| 26-Mar-19 | 374 | Lead Paint I | 5.26 | 0.21 | 0.5 | Negative | 0.21 | 0.25 | 13:09:14 |
| 26-Mar-19 | 375 | Lead Paint I | 5.27 | 0 | 0 | Negative | 0 | 0 | 13:09:36 |
| 26-Mar-19 | 376 | Lead Paint I | 5.28 | 0 | 0 | Negative | 0 | 0 | 13:09:54 |
| 26-Mar-19 | 377 | Lead Paint I | 5.24 > 1.00 | | 0.04 | Positive | 1 | 0.02 | 13:10:14 |
| 26-Mar-19 | 378 | Lead Paint I | 5.73 | 0 | 0 | Negative | 0 | 0 | 13:10:43 |
| 26-Mar-19 | 379 | Lead Paint I | 5.8 | 0 | 0 | Negative | 0 | 0 | 13:11:03 |
| 26-Mar-19 | 380 | Lead Paint I | 5.55 | 0 | 0 | Negative | 0 | 0 | 13:11:22 |
| 26-Mar-19 | 381 | Lead Paint I | 13.41 | 0.08 | 0.07 surface | Negative | 0.08 | 0.03 | 13:11:57 |
| 26-Mar-19 | 382 | Lead Paint I | 6.57 | 0.12 | 0.26 | Negative | 0.12 | 0.13 | 13:12:29 |
| 26-Mar-19 | 383 | Lead Paint I | 16.85 | 0.13 | 0.21 | Negative | 0.13 | 0.1 | 13:12:55 |
| 26-Mar-19 | 384 | Lead Paint I | 25.22 | 0.38 | 0.33 | Negative | 0.38 | 0.16 | 13:13:30 |
| 26-Mar-19 | 385 | Lead Paint I | 20.16 | 0.09 | 0.07 surface | Negative | 0.09 | 0.03 | 13:14:16 |
| 26-Mar-19 | 386 | Lead Paint I | 5.1 | 0 | 0 | Negative | 0 | 0 | 13:15:05 |
| 26-Mar-19 | 387 | Lead Paint I | 5.21 | 0 | 0 | Negative | 0 | 0 | 13:15:23 |
| 26-Mar-19 | 388 | Lead Paint I | 5.2 | 0 | 0 | Negative | 0 | 0 | 13:16:02 |
| 26-Mar-19 | 389 | Lead Paint I | 5.06 | 0 | 0 | Negative | 0 | 0 | 13:16:28 |
| 26-Mar-19 | 390 | Lead Paint I | 5.18 | 0 | 0 | Negative | 0 | 0 | 13:16:49 |
| 26-Mar-19 | 391 | Lead Paint I | 5.19 | 0 | 0 | Negative | 0 | 0 | 13:17:08 |

| | | | | | | | | | |
|-----------|-----|--------------|-------------|------|--------------|----------|------|------|----------|
| 26-Mar-19 | 392 | Lead Paint I | 5.36 | 0 | 0 | Negative | 0 | 0 | 13:17:35 |
| 26-Mar-19 | 393 | Lead Paint I | 5.3 | 0 | 0 | Negative | 0 | 0 | 13:17:51 |
| 26-Mar-19 | 394 | Lead Paint I | 5.07 | 0 | 0 | Negative | 0 | 0 | 13:18:12 |
| 26-Mar-19 | 395 | Lead Paint I | 5.28 | 0.09 | 0.18 | Negative | 0.09 | 0.09 | 13:18:30 |
| 26-Mar-19 | 396 | Lead Paint I | 5.03 | 0.26 | 0.58 | Negative | 0.26 | 0.29 | 13:18:57 |
| 26-Mar-19 | 397 | Lead Paint I | 5 | 0.01 | 0.03 | Negative | 0.01 | 0.01 | 13:19:26 |
| 26-Mar-19 | 398 | Lead Paint I | 6.03 | 0 | 0 | Negative | 0 | 0 | 13:19:54 |
| 26-Mar-19 | 399 | Lead Paint I | 6.05 | 0.09 | 0.32 | Negative | 0.09 | 0.16 | 13:20:17 |
| 26-Mar-19 | 400 | Lead Paint I | 15.65 | 0.17 | 0.07 surface | Negative | 0.17 | 0.03 | 13:20:54 |
| 26-Mar-19 | 401 | Lead Paint I | 5.16 | 0.15 | 0.14 surface | Negative | 0.15 | 0.07 | 13:21:30 |
| 26-Mar-19 | 402 | Lead Paint I | 9.86 | 0.24 | 0.16 surface | Negative | 0.24 | 0.08 | 13:21:47 |
| 26-Mar-19 | 403 | Lead Paint I | 12.12 | 0.17 | 0.11 | Negative | 0.17 | 0.05 | 13:22:17 |
| 26-Mar-19 | 404 | Lead Paint I | 7.53 | 0.11 | 0.07 surface | Negative | 0.11 | 0.03 | 13:22:52 |
| 26-Mar-19 | 405 | Lead Paint I | 6.07 | 0.07 | 0.07 | Negative | 0.07 | 0.04 | 13:23:21 |
| 26-Mar-19 | 406 | Lead Paint I | 6.12 | 0.01 | 0.03 | Negative | 0.01 | 0.01 | 13:23:45 |
| 26-Mar-19 | 407 | Lead Paint I | 5.92 | 0 | 0 | Negative | 0 | 0 | 13:24:06 |
| 26-Mar-19 | 408 | Lead Paint I | 5.44 | 0.09 | 0.08 surface | Negative | 0.09 | 0.04 | 13:24:24 |
| 26-Mar-19 | 409 | Lead Paint I | 5.06 | 0.01 | 0.03 | Negative | 0.01 | 0.02 | 13:25:22 |
| 26-Mar-19 | 410 | Lead Paint I | 5.02 | 0.03 | 0.07 | Negative | 0.03 | 0.03 | 13:26:03 |
| 26-Mar-19 | 411 | Lead Paint I | 5.06 | 0.03 | 0.05 | Negative | 0.03 | 0.02 | 13:27:02 |
| 26-Mar-19 | 412 | Lead Paint I | 5.13 | 0 | 0 | Negative | 0 | 0 | 13:27:54 |
| 26-Mar-19 | 413 | Lead Paint I | 5.14 | 0 | 0 | Negative | 0 | 0 | 13:28:14 |
| 26-Mar-19 | 414 | Lead Paint I | 7.56 | 0.01 | 0.03 | Negative | 0.01 | 0.01 | 13:28:34 |
| 26-Mar-19 | 415 | Lead Paint I | 11.01 | 0 | 0.02 | Negative | 0 | 0.01 | 13:28:56 |
| 26-Mar-19 | 416 | Lead Paint I | 5.16 | 0.01 | 0.05 | Negative | 0.01 | 0.02 | 13:29:20 |
| 26-Mar-19 | 417 | Lead Paint I | 6.07 | 0.05 | 0.06 | Negative | 0.05 | 0.03 | 13:29:49 |
| 26-Mar-19 | 418 | Lead Paint I | 5.05 | 0.04 | 0.07 | Negative | 0.04 | 0.03 | 13:30:09 |
| 26-Mar-19 | 419 | Lead Paint I | 6 | 0.05 | 0.04 surface | Negative | 0.05 | 0.02 | 13:30:32 |
| 26-Mar-19 | 420 | Lead Paint I | 5.9 | 0.02 | 0.03 | Negative | 0.02 | 0.01 | 13:30:51 |
| 26-Mar-19 | 421 | Lead Paint I | 5.75 | 0.03 | 0.03 surface | Negative | 0.03 | 0.02 | 13:31:12 |
| 26-Mar-19 | 422 | Lead Paint I | 5.91 | 0.07 | 0.07 surface | Negative | 0.07 | 0.03 | 13:31:30 |
| 26-Mar-19 | 423 | Lead Paint I | 5.4 | 0.03 | 0.02 surface | Negative | 0.03 | 0.01 | 13:31:51 |
| 26-Mar-19 | 424 | Lead Paint I | 5.41 | 0.1 | 0.08 surface | Negative | 0.1 | 0.04 | 13:32:32 |
| 26-Mar-19 | 425 | Lead Paint I | 25 > 1.00 | | 0.04 | Positive | 1 | 0.02 | 13:33:00 |
| 26-Mar-19 | 426 | Lead Paint I | 6.06 | 0.02 | 0.03 | Negative | 0.02 | 0.02 | 13:33:51 |
| 26-Mar-19 | 427 | Lead Paint I | 4.06 > 1.00 | | 0.15 | Positive | 1 | 0.08 | 13:34:19 |
| 26-Mar-19 | 428 | Lead Paint I | 5.21 | 0.05 | 0.08 | Negative | 0.05 | 0.04 | 13:34:46 |
| 26-Mar-19 | 429 | Lead Paint I | 5.98 | 0.04 | 0.03 surface | Negative | 0.04 | 0.01 | 13:35:08 |
| 26-Mar-19 | 430 | Lead Paint I | 5.29 | 0.02 | 0.02 | Negative | 0.02 | 0.01 | 13:35:31 |
| 26-Mar-19 | 431 | Lead Paint I | 5.6 | 0.01 | 0.02 | Negative | 0.01 | 0.01 | 13:35:59 |
| 26-Mar-19 | 432 | Lead Paint I | 5.22 | 0.01 | 0.01 | Negative | 0.01 | 0 | 13:36:49 |
| 26-Mar-19 | 433 | Lead Paint I | 8.73 | 0.27 | 0.42 | Negative | 0.27 | 0.21 | 13:37:09 |
| 26-Mar-19 | 434 | Lead Paint I | 24.83 | 0.16 | 0.16 surface | Negative | 0.16 | 0.08 | 13:37:31 |
| 26-Mar-19 | 435 | Lead Paint I | 5.19 | 0.15 | 0.28 | Negative | 0.15 | 0.14 | 13:38:17 |
| 26-Mar-19 | 436 | Lead Paint I | 5.01 | 0.03 | 0.08 | Negative | 0.03 | 0.04 | 13:38:51 |
| 26-Mar-19 | 437 | Lead Paint I | 5.02 | 0.05 | 0.11 | Negative | 0.05 | 0.06 | 13:39:09 |
| 26-Mar-19 | 438 | Lead Paint I | 5.63 | 0 | 0 | Negative | 0 | 0 | 13:39:27 |
| 26-Mar-19 | 439 | Lead Paint I | 5.02 | 0.23 | 0.24 | Negative | 0.23 | 0.12 | 13:39:46 |
| 26-Mar-19 | 440 | Lead Paint I | 5.7 | 0 | 0 | Negative | 0 | 0 | 13:40:08 |
| 26-Mar-19 | 441 | Lead Paint I | 5.63 | 0 | 0 | Negative | 0 | 0 | 13:40:34 |
| 26-Mar-19 | 442 | Lead Paint I | 5.05 | 0.02 | 0.04 | Negative | 0.02 | 0.02 | 13:40:58 |
| 26-Mar-19 | 443 | Lead Paint I | 5.07 | 0.01 | 0.04 | Negative | 0.01 | 0.02 | 13:41:21 |
| 26-Mar-19 | 444 | Lead Paint I | 5.02 | 0.13 | 0.28 | Negative | 0.13 | 0.14 | 13:41:43 |
| 26-Mar-19 | 445 | Lead Paint I | 25.15 | 0.12 | 0.06 surface | Negative | 0.12 | 0.03 | 13:42:18 |
| 26-Mar-19 | 446 | Lead Paint I | 5.21 | 0.08 | 0.24 | Negative | 0.08 | 0.12 | 13:42:59 |
| 26-Mar-19 | 447 | Lead Paint I | 7.45 | 0.12 | 0.22 | Negative | 0.12 | 0.11 | 13:43:16 |

| | | | | | | | | | |
|-----------|-----|--------------|-------|--------|--------------|----------|------|------|----------|
| 26-Mar-19 | 448 | Lead Paint I | 19.92 | 0.19 | 0.23 | Negative | 0.19 | 0.12 | 13:43:35 |
| 26-Mar-19 | 449 | Lead Paint I | 5.16 | 0.18 | 0.24 | Negative | 0.18 | 0.12 | 13:44:10 |
| 26-Mar-19 | 450 | Lead Paint I | 5.91 | 0 | 0 | Negative | 0 | 0 | 13:44:34 |
| 26-Mar-19 | 451 | Lead Paint I | 5.4 | 0.14 | 0.18 | Negative | 0.14 | 0.09 | 13:44:53 |
| 26-Mar-19 | 452 | Lead Paint I | 5.16 | 0 | 0 | Negative | 0 | 0 | 13:45:16 |
| 26-Mar-19 | 453 | Lead Paint I | 6.51 | 0.12 | 0.28 | Negative | 0.12 | 0.14 | 13:45:32 |
| 26-Mar-19 | 454 | Lead Paint I | 5 | 0 | 0 | Negative | 0 | 0 | 13:45:57 |
| 26-Mar-19 | 455 | Lead Paint I | 5.32 | 0.12 | 0.36 | Negative | 0.12 | 0.18 | 13:46:14 |
| 26-Mar-19 | 456 | Lead Paint I | 6.01 | 0.01 | 0.04 | Negative | 0.01 | 0.02 | 13:46:33 |
| 26-Mar-19 | 457 | Lead Paint I | 5.06 | 0.02 | 0.05 | Negative | 0.02 | 0.02 | 13:47:03 |
| 26-Mar-19 | 458 | Lead Paint I | 5.04 | 0.11 | 0.16 | Negative | 0.11 | 0.08 | 13:47:26 |
| 26-Mar-19 | 459 | Lead Paint I | 5.12 | 0.1 | 0.15 | Negative | 0.1 | 0.08 | 13:47:50 |
| 26-Mar-19 | 460 | Lead Paint I | 25.13 | 0.2 | 0.2 surface | Negative | 0.2 | 0.1 | 13:48:16 |
| 26-Mar-19 | 461 | Lead Paint I | 5.23 | 0.14 | 0.4 | Negative | 0.14 | 0.2 | 13:48:58 |
| 26-Mar-19 | 462 | Lead Paint I | 25.12 | 0.14 | 0.1 surface | Negative | 0.14 | 0.05 | 13:49:18 |
| 26-Mar-19 | 463 | Lead Paint I | 5.26 | 0 | 0 | Negative | 0 | 0 | 13:49:59 |
| 26-Mar-19 | 464 | Lead Paint I | 25.03 | 0.22 | 0.13 surface | Negative | 0.22 | 0.06 | 13:50:16 |
| 26-Mar-19 | 465 | Lead Paint I | 5.87 | 0 | 0 | Negative | 0 | 0 | 13:51:04 |
| 26-Mar-19 | 466 | Lead Paint I | 25.42 | 0.06 | 0.03 | Negative | 0.06 | 0.02 | 13:51:23 |
| 26-Mar-19 | 467 | Lead Paint I | 5.78 | 0 | 0 | Negative | 0 | 0 | 13:52:21 |
| 26-Mar-19 | 468 | Lead Paint I | 5.21 | 0 | 0 | Negative | 0 | 0 | 13:52:43 |
| 26-Mar-19 | 469 | Lead Paint I | 5.22 | 0 | 0 | Negative | 0 | 0 | 13:53:02 |
| 26-Mar-19 | 470 | Lead Paint I | 12.07 | > 1.00 | 0.01 | Positive | 1 | 0.01 | 13:53:26 |
| 26-Mar-19 | 471 | Lead Paint I | 18.96 | > 1.00 | 0.01 | Positive | 1 | 0 | 13:54:08 |
| 26-Mar-19 | 472 | Lead Paint I | 15.87 | > 1.00 | 0.01 | Positive | 1 | 0.01 | 13:55:03 |
| 26-Mar-19 | 473 | Lead Paint I | 11.32 | > 1.00 | 0.09 | Positive | 1 | 0.04 | 13:55:48 |
| 26-Mar-19 | 474 | Lead Paint I | 14.13 | 0.08 | 0.07 surface | Negative | 0.08 | 0.04 | 13:56:59 |
| 26-Mar-19 | 475 | Lead Paint I | 5.14 | 0.1 | 0.3 | Negative | 0.1 | 0.15 | 13:57:28 |
| 26-Mar-19 | 476 | Lead Paint I | 5.14 | 0.35 | 0.53 | Negative | 0.35 | 0.27 | 13:57:48 |
| 26-Mar-19 | 477 | Lead Paint I | 24.54 | 0.19 | 0.19 | Negative | 0.19 | 0.1 | 13:58:09 |
| 26-Mar-19 | 478 | Lead Paint I | 7.54 | 0.17 | 0.16 surface | Negative | 0.17 | 0.08 | 13:58:52 |
| 26-Mar-19 | 479 | Lead Paint I | 5.15 | 0 | 0.01 | Negative | 0 | 0 | 13:59:16 |
| 26-Mar-19 | 480 | Lead Paint I | 5.48 | 0.15 | 0.2 | Negative | 0.15 | 0.1 | 13:59:33 |
| 26-Mar-19 | 481 | Lead Paint I | 5.69 | 0 | 0 | Negative | 0 | 0 | 13:59:53 |
| 26-Mar-19 | 482 | Lead Paint I | 12.4 | 0.12 | 0.12 | Negative | 0.12 | 0.06 | 14:00:11 |
| 26-Mar-19 | 483 | Lead Paint I | 5.99 | 0 | 0 | Negative | 0 | 0 | 14:00:39 |
| 26-Mar-19 | 484 | Lead Paint I | 5.21 | 0 | 0 | Negative | 0 | 0 | 14:01:09 |
| 26-Mar-19 | 485 | Lead Paint I | 6.07 | 0 | 0 | Negative | 0 | 0 | 14:01:28 |
| 26-Mar-19 | 486 | Lead Paint I | 5.01 | 0.29 | 0.38 | Negative | 0.29 | 0.19 | 14:02:07 |
| 26-Mar-19 | 487 | Lead Paint I | 5.03 | 0.07 | 0.15 | Negative | 0.07 | 0.07 | 14:02:29 |
| 26-Mar-19 | 488 | Lead Paint I | 5.07 | 0.1 | 0.11 | Negative | 0.1 | 0.06 | 14:02:52 |
| 26-Mar-19 | 489 | Lead Paint I | 6.11 | 0.09 | 0.1 | Negative | 0.09 | 0.05 | 14:03:37 |
| 26-Mar-19 | 490 | Lead Paint I | 19.99 | > 1.00 | 0.04 | Positive | 1 | 0.02 | 14:04:10 |
| 26-Mar-19 | 491 | Lead Paint I | 8.64 | 0.09 | 0.06 surface | Negative | 0.09 | 0.03 | 14:05:05 |
| 26-Mar-19 | 492 | Lead Paint I | 24.99 | 0.17 | 0.05 | Negative | 0.17 | 0.02 | 14:05:31 |
| 26-Mar-19 | 493 | Lead Paint I | 5.19 | 0.16 | 0.14 surface | Negative | 0.16 | 0.07 | 14:06:26 |
| 26-Mar-19 | 494 | Lead Paint I | 5.01 | 0.13 | 0.1 | Negative | 0.13 | 0.05 | 14:06:48 |
| 26-Mar-19 | 495 | Lead Paint I | 5.11 | 0 | 0.01 | Negative | 0 | 0 | 14:07:25 |
| 26-Mar-19 | 496 | Lead Paint I | 5.42 | 0.09 | 0.08 surface | Negative | 0.09 | 0.04 | 14:07:45 |
| 26-Mar-19 | 497 | Lead Paint I | 5.02 | 0.05 | 0.07 | Negative | 0.05 | 0.03 | 14:08:05 |
| 26-Mar-19 | 498 | Lead Paint I | 5.09 | 0.01 | 0.03 | Negative | 0.01 | 0.01 | 14:08:43 |
| 26-Mar-19 | 499 | Lead Paint I | 5.99 | 0.06 | 0.07 | Negative | 0.06 | 0.03 | 14:09:29 |
| 26-Mar-19 | 500 | Lead Paint I | 5.05 | 0.07 | 0.06 surface | Negative | 0.07 | 0.03 | 14:10:04 |
| 26-Mar-19 | 501 | Lead Paint I | 6.01 | 0.02 | 0.03 | Negative | 0.02 | 0.01 | 14:10:31 |
| 26-Mar-19 | 502 | Lead Paint I | 23.65 | 0.17 | 0.05 surface | Negative | 0.17 | 0.02 | 14:11:44 |
| 26-Mar-19 | 503 | Lead Paint I | 8.63 | > 1.00 | 0.1 | Positive | 1 | 0.05 | 14:12:26 |

| | | | | | | | | | | |
|-----------|-----|--------------|-------|----------|------|-----------|----------|------|----------|----------|
| 26-Mar-19 | 504 | Lead Paint I | 6.12 | > 1.00 | 0.15 | Positive | 1 | 0.08 | 14:13:06 | |
| 26-Mar-19 | 505 | Lead Paint I | 2.89 | > 1.00 | 0.07 | Positive | 1 | 0.03 | 14:14:03 | |
| 26-Mar-19 | 506 | Lead Paint I | 5.11 | 0.02 | 0.06 | Negative | 0.02 | 0.03 | 14:14:30 | |
| 26-Mar-19 | 507 | Lead Paint I | 6 | 0.06 | 0.06 | Negative | 0.06 | 0.03 | 14:14:57 | |
| 26-Mar-19 | 508 | Standardiza | 26.97 | 0.019723 | 227 | -0.031735 | PASS | | 14:19:14 | |
| 26-Mar-19 | 509 | Lead Paint I | 5.03 | 0 | 0 | Negative | 0 | 0 | 14:23:13 | |
| 26-Mar-19 | 510 | Lead Paint I | 5.02 | 0.09 | 0.09 | surface | Negative | 0.09 | 0.04 | 14:26:17 |
| 26-Mar-19 | 511 | Lead Paint I | 5.77 | 0.12 | 0.08 | surface | Negative | 0.12 | 0.04 | 14:26:36 |
| 26-Mar-19 | 512 | Lead Paint I | 5.02 | 0.07 | 0.1 | | Negative | 0.07 | 0.05 | 14:26:55 |
| 26-Mar-19 | 513 | Lead Paint I | 6.01 | 0.01 | 0.04 | | Negative | 0.01 | 0.02 | 14:27:32 |
| 26-Mar-19 | 514 | Lead Paint I | 5.46 | 0.09 | 0.08 | surface | Negative | 0.09 | 0.04 | 14:27:51 |
| 26-Mar-19 | 515 | Lead Paint I | 14.49 | 0.09 | 0.06 | surface | Negative | 0.09 | 0.03 | 14:28:15 |
| 26-Mar-19 | 516 | Lead Paint I | 24.77 | 0.12 | 0.09 | surface | Negative | 0.12 | 0.04 | 14:28:46 |
| 26-Mar-19 | 517 | Lead Paint I | 23.96 | 0.07 | 0.13 | | Negative | 0.07 | 0.07 | 14:29:31 |
| 26-Mar-19 | 518 | Lead Paint I | 25.96 | 0.09 | 0.07 | surface | Negative | 0.09 | 0.03 | 14:30:12 |
| 26-Mar-19 | 519 | Lead Paint I | 5.28 | 0.13 | 0.19 | | Negative | 0.13 | 0.09 | 14:30:56 |
| 26-Mar-19 | 520 | Lead Paint I | 5.15 | 0 | 0 | | Negative | 0 | 0 | 14:31:25 |
| 26-Mar-19 | 521 | Lead Paint I | 5.18 | 0 | 0 | | Negative | 0 | 0 | 14:31:54 |
| 26-Mar-19 | 522 | Lead Paint I | 5.24 | 0 | 0 | | Negative | 0 | 0 | 14:32:15 |
| 26-Mar-19 | 523 | Lead Paint I | 5.16 | 0.01 | 0.04 | | Negative | 0.01 | 0.02 | 14:32:34 |
| 26-Mar-19 | 524 | Lead Paint I | 11.41 | 0.07 | 0.06 | surface | Negative | 0.07 | 0.03 | 14:32:49 |
| 26-Mar-19 | 525 | Lead Paint I | 5.85 | 0 | 0 | | Negative | 0 | 0 | 14:33:22 |
| 26-Mar-19 | 526 | Lead Paint I | 7.73 | > 1.00 | 0.44 | | Positive | 1 | 0.22 | 14:33:42 |
| 26-Mar-19 | 527 | Lead Paint I | 5 | 0.08 | 0.12 | | Negative | 0.08 | 0.06 | 14:34:17 |
| 26-Mar-19 | 528 | Lead Paint I | 5.04 | 0.05 | 0.07 | | Negative | 0.05 | 0.04 | 14:34:39 |
| 26-Mar-19 | 529 | Lead Paint I | 6.09 | 0.01 | 0.04 | | Negative | 0.01 | 0.02 | 14:35:01 |
| 26-Mar-19 | 530 | Lead Paint I | 5.07 | 0.02 | 0.05 | | Negative | 0.02 | 0.03 | 14:35:31 |
| 26-Mar-19 | 531 | Lead Paint I | 5.17 | 0.14 | 0.11 | | Negative | 0.14 | 0.06 | 14:36:00 |
| 26-Mar-19 | 532 | Lead Paint I | 7.35 | > 1.00 | 0.07 | | Positive | 1 | 0.04 | 14:36:30 |
| 26-Mar-19 | 533 | Lead Paint I | 7.53 | 0.19 | 0.1 | surface | Negative | 0.19 | 0.05 | 14:37:04 |
| 26-Mar-19 | 534 | Lead Paint I | 7.48 | 0.09 | 0.06 | surface | Negative | 0.09 | 0.03 | 14:37:30 |
| 26-Mar-19 | 535 | Lead Paint I | 14.54 | 0.18 | 0.06 | surface | Negative | 0.18 | 0.03 | 14:37:50 |
| 26-Mar-19 | 536 | Lead Paint I | 7.55 | > 1.00 | 0.09 | | Positive | 1 | 0.05 | 14:38:20 |
| 26-Mar-19 | 537 | Lead Paint I | 5.87 | 0 | 0 | | Negative | 0 | 0 | 14:38:50 |
| 26-Mar-19 | 538 | Lead Paint I | 5.03 | 0.05 | 0.06 | | Negative | 0.05 | 0.03 | 14:39:18 |
| 26-Mar-19 | 539 | Lead Paint I | 5.06 | 0 | 0.01 | | Negative | 0 | 0 | 14:39:43 |
| 26-Mar-19 | 540 | Lead Paint I | 5.38 | 0.08 | 0.07 | surface | Negative | 0.08 | 0.03 | 14:40:02 |
| 26-Mar-19 | 541 | Lead Paint I | 5.02 | 0.18 | 0.11 | surface | Negative | 0.18 | 0.06 | 14:40:46 |
| 26-Mar-19 | 542 | Lead Paint I | 6.06 | 0.03 | 0.03 | | Negative | 0.03 | 0.02 | 14:41:10 |
| 26-Mar-19 | 543 | Lead Paint I | 5.02 | 0.06 | 0.06 | surface | Negative | 0.06 | 0.03 | 14:41:44 |
| 26-Mar-19 | 544 | Lead Paint I | 5 | 0.13 | 0.09 | surface | Negative | 0.13 | 0.05 | 14:42:15 |
| 26-Mar-19 | 545 | Lead Paint I | 5.27 | 0 | 0 | | Negative | 0 | 0 | 14:44:55 |
| 26-Mar-19 | 546 | Lead Paint I | 5.29 | 0 | 0 | | Negative | 0 | 0 | 14:45:17 |
| 26-Mar-19 | 547 | Lead Paint I | 24.54 | 0.26 | 0.23 | surface | Negative | 0.26 | 0.12 | 14:45:38 |
| 26-Mar-19 | 548 | Lead Paint I | 5.12 | 0.04 | 0.08 | | Negative | 0.04 | 0.04 | 14:46:24 |
| 26-Mar-19 | 549 | Lead Paint I | 25.09 | 0.23 | 0.2 | surface | Negative | 0.23 | 0.1 | 14:46:49 |
| 26-Mar-19 | 550 | Lead Paint I | 5.06 | 0 | 0 | | Negative | 0 | 0 | 14:48:48 |
| 26-Mar-19 | 551 | Lead Paint I | 5.3 | 0.08 | 0.16 | | Negative | 0.08 | 0.08 | 14:49:04 |
| 26-Mar-19 | 552 | Lead Paint I | 5.44 | 0 | 0 | | Negative | 0 | 0 | 14:49:25 |
| 26-Mar-19 | 553 | Lead Paint I | 5.37 | 0 | 0 | | Negative | 0 | 0 | 14:49:44 |
| 26-Mar-19 | 554 | Lead Paint I | 5.71 | 0 | 0 | | Negative | 0 | 0 | 14:50:18 |
| 26-Mar-19 | 555 | Lead Paint I | 5.87 | 0 | 0.01 | | Negative | 0 | 0 | 14:50:43 |
| 26-Mar-19 | 556 | Lead Paint I | 5.96 | 0 | 0 | | Negative | 0 | 0 | 14:51:05 |
| 26-Mar-19 | 557 | Lead Paint I | 5.19 | 0 | 0 | | Negative | 0 | 0 | 14:51:28 |
| 26-Mar-19 | 558 | Lead Paint I | 7.51 | 0.1 | 0.28 | | Negative | 0.1 | 0.14 | 14:51:56 |
| 26-Mar-19 | 559 | Lead Paint I | 5.22 | 0.06 | 0.18 | | Negative | 0.06 | 0.09 | 14:52:19 |

| | | | | | | | | | |
|-----------|-----|--------------|-------|------|--------------|----------|------|------|----------|
| 26-Mar-19 | 560 | Lead Paint I | 5.22 | 0.13 | 0.3 | Negative | 0.13 | 0.15 | 14:52:50 |
| 26-Mar-19 | 561 | Lead Paint I | 5.2 | 0.05 | 0.19 | Negative | 0.05 | 0.1 | 14:53:24 |
| 26-Mar-19 | 562 | Lead Paint I | 25.04 | 0.08 | 0.07 surface | Negative | 0.08 | 0.03 | 14:53:45 |
| 26-Mar-19 | 563 | Lead Paint I | 5.18 | 0.02 | 0.05 | Negative | 0.02 | 0.03 | 14:54:41 |
| 26-Mar-19 | 564 | Lead Paint I | 5.18 | 0 | 0 | Negative | 0 | 0 | 14:55:12 |
| 26-Mar-19 | 565 | Lead Paint I | 5.12 | 0 | 0 | Negative | 0 | 0 | 14:55:28 |
| 26-Mar-19 | 566 | Lead Paint I | 5.04 | 0 | 0 | Negative | 0 | 0 | 14:56:09 |
| 26-Mar-19 | 567 | Lead Paint I | 5.03 | 0 | 0 | Negative | 0 | 0 | 14:56:26 |
| 26-Mar-19 | 568 | Lead Paint I | 5.23 | 0 | 0 | Negative | 0 | 0 | 14:56:48 |
| 26-Mar-19 | 569 | Lead Paint I | 6.1 | 0 | 0.02 | Negative | 0 | 0.01 | 14:57:23 |
| 26-Mar-19 | 570 | Lead Paint I | 5.04 | 0.17 | 0.46 | Negative | 0.17 | 0.23 | 14:57:42 |
| 26-Mar-19 | 571 | Lead Paint I | 6.12 | 0.07 | 0.19 | Negative | 0.07 | 0.1 | 14:58:06 |
| 26-Mar-19 | 572 | Lead Paint I | 5.03 | 0.21 | 0.37 | Negative | 0.21 | 0.18 | 14:59:07 |
| 26-Mar-19 | 573 | Lead Paint I | 6.01 | 0 | 0 | Negative | 0 | 0 | 14:59:41 |
| 26-Mar-19 | 574 | Lead Paint I | 6.06 | 0.11 | 0.17 | Negative | 0.11 | 0.09 | 15:00:11 |
| 26-Mar-19 | 575 | Lead Paint I | 25.09 | 0.19 | 0.05 surface | Negative | 0.19 | 0.03 | 15:00:45 |
| 26-Mar-19 | 576 | Lead Paint I | 24.78 | 0.16 | 0.06 surface | Negative | 0.16 | 0.03 | 15:01:26 |
| 26-Mar-19 | 577 | Lead Paint I | 8.68 | 0.12 | 0.07 surface | Negative | 0.12 | 0.04 | 15:02:07 |
| 26-Mar-19 | 578 | Lead Paint I | 5.24 | 0.15 | 0.12 surface | Negative | 0.15 | 0.06 | 15:02:33 |
| 26-Mar-19 | 579 | Lead Paint I | 5.17 | 0.16 | 0.12 surface | Negative | 0.16 | 0.06 | 15:02:58 |
| 26-Mar-19 | 580 | Lead Paint I | 5.95 | 0.01 | 0.02 | Negative | 0.01 | 0.01 | 15:03:22 |
| 26-Mar-19 | 581 | Lead Paint I | 5.91 | 0 | 0.02 | Negative | 0 | 0.01 | 15:03:42 |
| 26-Mar-19 | 582 | Lead Paint I | 5.07 | 0.04 | 0.06 | Negative | 0.04 | 0.03 | 15:04:23 |
| 26-Mar-19 | 583 | Lead Paint I | 5.06 | 0.03 | 0.05 | Negative | 0.03 | 0.02 | 15:04:46 |
| 26-Mar-19 | 584 | Lead Paint I | 5.08 | 0.12 | 0.11 surface | Negative | 0.12 | 0.06 | 15:05:04 |
| 26-Mar-19 | 585 | Lead Paint I | 5.9 | 0.01 | 0.03 | Negative | 0.01 | 0.02 | 15:05:34 |
| 26-Mar-19 | 586 | Lead Paint I | 6.06 | 0.03 | 0.07 | Negative | 0.03 | 0.03 | 15:06:03 |
| 26-Mar-19 | 587 | Lead Paint I | 5.24 | 0.06 | 0.08 | Negative | 0.06 | 0.04 | 15:06:23 |
| 26-Mar-19 | 588 | Lead Paint I | 6.27 | 0.02 | 0.04 | Negative | 0.02 | 0.02 | 15:07:15 |
| 26-Mar-19 | 589 | Lead Paint I | 5.18 | 0 | 0 | Negative | 0 | 0 | 15:07:39 |
| 26-Mar-19 | 590 | Lead Paint I | 5.14 | 0.02 | 0.05 | Negative | 0.02 | 0.02 | 15:08:02 |
| 26-Mar-19 | 591 | Lead Paint I | 5.24 | 0 | 0.01 | Negative | 0 | 0.01 | 15:08:21 |
| 26-Mar-19 | 592 | Lead Paint I | 5.16 | 0 | 0.02 | Negative | 0 | 0.01 | 15:08:39 |
| 26-Mar-19 | 593 | Lead Paint I | 5.07 | 0 | 0 | Negative | 0 | 0 | 15:09:04 |
| 26-Mar-19 | 594 | Lead Paint I | 6.56 | 0.06 | 0.09 | Negative | 0.06 | 0.05 | 15:09:21 |
| 26-Mar-19 | 595 | Lead Paint I | 6.12 | 0.13 | 0.11 surface | Negative | 0.13 | 0.05 | 15:09:54 |
| 26-Mar-19 | 596 | Lead Paint I | 5.98 | 0.16 | 0.08 surface | Negative | 0.16 | 0.04 | 15:10:20 |
| 26-Mar-19 | 597 | Lead Paint I | 5.02 | 0.11 | 0.1 surface | Negative | 0.11 | 0.05 | 15:10:41 |
| 26-Mar-19 | 598 | Lead Paint I | 5.01 | 0.11 | 0.08 surface | Negative | 0.11 | 0.04 | 15:11:01 |
| 26-Mar-19 | 599 | Lead Paint I | 5.95 | 0.06 | 0.05 surface | Negative | 0.06 | 0.03 | 15:11:20 |
| 26-Mar-19 | 600 | Lead Paint I | 5.95 | 0.12 | 0.06 surface | Negative | 0.12 | 0.03 | 15:11:40 |
| 26-Mar-19 | 601 | Lead Paint I | 5.76 | 0.06 | 0.06 surface | Negative | 0.06 | 0.03 | 15:11:59 |
| 26-Mar-19 | 602 | Lead Paint I | 5.25 | 0.05 | 0.05 surface | Negative | 0.05 | 0.02 | 15:12:28 |
| 26-Mar-19 | 603 | Lead Paint I | 5.1 | 0.02 | 0.02 | Negative | 0.02 | 0.01 | 15:12:54 |
| 26-Mar-19 | 604 | Lead Paint I | 24.95 | 0.04 | 0.05 | Negative | 0.04 | 0.02 | 15:13:54 |
| 26-Mar-19 | 605 | Lead Paint I | 5.25 | 0.06 | 0.13 | Negative | 0.06 | 0.06 | 15:14:45 |
| 26-Mar-19 | 606 | Lead Paint I | 5.24 | 0.08 | 0.14 | Negative | 0.08 | 0.07 | 15:15:02 |
| 26-Mar-19 | 607 | Lead Paint I | 5.14 | 0.05 | 0.07 | Negative | 0.05 | 0.03 | 15:15:27 |
| 26-Mar-19 | 608 | Lead Paint I | 5.79 | 0 | 0.01 | Negative | 0 | 0 | 15:15:57 |
| 26-Mar-19 | 609 | Lead Paint I | 6.09 | 0.04 | 0.06 | Negative | 0.04 | 0.03 | 15:16:21 |
| 26-Mar-19 | 610 | Lead Paint I | 6.09 | 0.01 | 0.03 | Negative | 0.01 | 0.01 | 15:16:49 |
| 26-Mar-19 | 611 | Lead Paint I | 5.73 | 0.03 | 0.12 | Negative | 0.03 | 0.06 | 15:17:08 |
| 26-Mar-19 | 612 | Lead Paint I | 5.06 | 0.21 | 0.24 | Negative | 0.21 | 0.12 | 15:17:30 |
| 26-Mar-19 | 613 | Lead Paint I | 5.66 | 0.03 | 0.11 | Negative | 0.03 | 0.05 | 15:18:00 |
| 26-Mar-19 | 614 | Lead Paint I | 5.06 | 0.09 | 0.1 | Negative | 0.09 | 0.05 | 15:18:23 |
| 26-Mar-19 | 615 | Lead Paint I | 5.06 | 0.14 | 0.2 | Negative | 0.14 | 0.1 | 15:18:45 |

| | | | | | | | | | |
|-----------|-----|--------------|-------|--------|--------------|----------|------|------|----------|
| 26-Mar-19 | 616 | Lead Paint I | 5.02 | 0.23 | 0.33 | Negative | 0.23 | 0.17 | 15:19:14 |
| 26-Mar-19 | 617 | Lead Paint I | 6.08 | 0.23 | 0.49 | Negative | 0.23 | 0.25 | 15:20:24 |
| 26-Mar-19 | 618 | Lead Paint I | 5.88 | 0.08 | 0.15 | Negative | 0.08 | 0.08 | 15:20:50 |
| 26-Mar-19 | 619 | Lead Paint I | 11.07 | 0.06 | 0.05 surface | Negative | 0.06 | 0.03 | 15:21:08 |
| 26-Mar-19 | 620 | Lead Paint I | 11.03 | 0.04 | 0.04 surface | Negative | 0.04 | 0.02 | 15:21:32 |
| 26-Mar-19 | 621 | Lead Paint I | 6.37 | 0.2 | 0.28 | Negative | 0.2 | 0.14 | 15:21:58 |
| 26-Mar-19 | 622 | Lead Paint I | 5.92 | 0 | 0 | Negative | 0 | 0 | 15:22:22 |
| 26-Mar-19 | 623 | Lead Paint I | 12.47 | 0.09 | 0.09 surface | Negative | 0.09 | 0.04 | 15:22:44 |
| 26-Mar-19 | 624 | Lead Paint I | 5.01 | 0 | 0 | Negative | 0 | 0 | 15:23:26 |
| 26-Mar-19 | 625 | Lead Paint I | 5.29 | 0.28 | 0.4 | Negative | 0.28 | 0.2 | 15:23:45 |
| 26-Mar-19 | 626 | Lead Paint I | 5.08 | 0 | 0 | Negative | 0 | 0 | 15:24:05 |
| 26-Mar-19 | 627 | Lead Paint I | 11.06 | 0.07 | 0.06 surface | Negative | 0.07 | 0.03 | 15:24:22 |
| 26-Mar-19 | 628 | Lead Paint I | 5.04 | 0.01 | 0.07 | Negative | 0.01 | 0.03 | 15:24:55 |
| 26-Mar-19 | 629 | Lead Paint I | 6 | 0.1 | 0.11 | Negative | 0.1 | 0.06 | 15:25:19 |
| 26-Mar-19 | 630 | Lead Paint I | 5.11 | 0.26 | 0.5 | Negative | 0.26 | 0.25 | 15:25:45 |
| 26-Mar-19 | 631 | Lead Paint I | 5.12 | 0.2 | 0.28 | Negative | 0.2 | 0.14 | 15:26:11 |
| 26-Mar-19 | 632 | Lead Paint I | 18.88 | 0.11 | 0.13 | Negative | 0.11 | 0.07 | 15:27:21 |
| 26-Mar-19 | 633 | Lead Paint I | 5.14 | 0 | 0 | Negative | 0 | 0 | 15:27:55 |
| 26-Mar-19 | 634 | Lead Paint I | 5.21 | 0.08 | 0.08 surface | Negative | 0.08 | 0.04 | 15:28:19 |
| 26-Mar-19 | 635 | Lead Paint I | 5.19 | 0 | 0 | Negative | 0 | 0 | 15:28:40 |
| 26-Mar-19 | 636 | Lead Paint I | 5.24 | 0 | 0 | Negative | 0 | 0 | 15:29:01 |
| 26-Mar-19 | 637 | Lead Paint I | 5.12 | 0 | 0 | Negative | 0 | 0 | 15:29:21 |
| 26-Mar-19 | 638 | Lead Paint I | 8.86 | 0.08 | 0.07 surface | Negative | 0.08 | 0.03 | 15:29:38 |
| 26-Mar-19 | 639 | Lead Paint I | 5.05 | 0 | 0 | Negative | 0 | 0 | 15:30:07 |
| 26-Mar-19 | 640 | Lead Paint I | 5.17 | 0 | 0 | Negative | 0 | 0 | 15:30:26 |
| 26-Mar-19 | 641 | Lead Paint I | 5.2 | 0 | 0 | Negative | 0 | 0 | 15:30:50 |
| 26-Mar-19 | 642 | Lead Paint I | 19.93 | > 1.00 | 0.01 | Positive | 1 | 0 | 15:31:11 |
| 26-Mar-19 | 643 | Lead Paint I | 5.81 | > 1.00 | 0.02 | Positive | 1 | 0.01 | 15:32:07 |
| 26-Mar-19 | 644 | Lead Paint I | 19.28 | > 1.00 | 0.01 | Positive | 1 | 0.01 | 15:32:37 |
| 26-Mar-19 | 645 | Lead Paint I | 5.21 | 0.05 | 0.07 | Negative | 0.05 | 0.04 | 15:33:41 |
| 26-Mar-19 | 646 | Lead Paint I | 6.27 | 0.05 | 0.08 | Negative | 0.05 | 0.04 | 15:34:03 |
| 26-Mar-19 | 647 | Lead Paint I | 24.98 | 0.13 | 0.1 surface | Negative | 0.13 | 0.05 | 15:34:30 |
| 26-Mar-19 | 648 | Lead Paint I | 5.24 | 0.09 | 0.13 | Negative | 0.09 | 0.06 | 15:35:14 |
| 26-Mar-19 | 649 | Lead Paint I | 5.11 | 0.02 | 0.04 | Negative | 0.02 | 0.02 | 15:35:32 |
| 26-Mar-19 | 650 | Lead Paint I | 6.15 | 0.02 | 0.04 | Negative | 0.02 | 0.02 | 15:35:57 |
| 26-Mar-19 | 651 | Lead Paint I | 20.34 | 0.05 | 0.05 surface | Negative | 0.05 | 0.02 | 15:36:15 |
| 26-Mar-19 | 652 | Lead Paint I | 6.1 | 0 | 0 | Negative | 0 | 0 | 15:36:52 |
| 26-Mar-19 | 653 | Lead Paint I | 5.33 | 0.04 | 0.06 | Negative | 0.04 | 0.03 | 15:37:12 |
| 26-Mar-19 | 654 | Lead Paint I | 5.09 | 0 | 0 | Negative | 0 | 0 | 15:37:48 |
| 26-Mar-19 | 655 | Lead Paint I | 5.25 | 0 | 0 | Negative | 0 | 0 | 15:38:08 |
| 26-Mar-19 | 656 | Lead Paint I | 5.15 | 0 | 0 | Negative | 0 | 0 | 15:38:29 |
| 26-Mar-19 | 657 | Lead Paint I | 5.05 | 0.15 | 0.18 | Negative | 0.15 | 0.09 | 15:38:57 |
| 26-Mar-19 | 658 | Lead Paint I | 5.08 | 0.31 | 0.39 | Negative | 0.31 | 0.19 | 15:39:22 |
| 26-Mar-19 | 659 | Lead Paint I | 5.05 | 0.14 | 0.16 | Negative | 0.14 | 0.08 | 15:39:52 |
| 26-Mar-19 | 660 | Lead Paint I | 5.1 | 0.25 | 0.3 | Negative | 0.25 | 0.15 | 15:40:12 |
| 26-Mar-19 | 661 | Lead Paint I | 5.18 | 0.03 | 0.04 | Negative | 0.03 | 0.02 | 15:40:38 |
| 26-Mar-19 | 662 | Lead Paint I | 24.96 | 0.08 | 0.04 surface | Negative | 0.08 | 0.02 | 15:40:56 |
| 26-Mar-19 | 663 | Lead Paint I | 8.48 | 0.08 | 0.06 | Negative | 0.08 | 0.03 | 15:41:39 |
| 26-Mar-19 | 664 | Lead Paint I | 11.03 | 0.08 | 0.06 surface | Negative | 0.08 | 0.03 | 15:42:11 |
| 26-Mar-19 | 665 | Lead Paint I | 5.14 | 0.1 | 0.09 surface | Negative | 0.1 | 0.04 | 15:42:39 |
| 26-Mar-19 | 666 | Lead Paint I | 5.98 | 0.03 | 0.06 | Negative | 0.03 | 0.03 | 15:43:05 |
| 26-Mar-19 | 667 | Lead Paint I | 5.32 | 0.04 | 0.05 | Negative | 0.04 | 0.03 | 15:43:27 |
| 26-Mar-19 | 668 | Lead Paint I | 5.98 | 0 | 0 | Negative | 0 | 0 | 15:43:47 |
| 26-Mar-19 | 669 | Lead Paint I | 5.88 | 0.01 | 0.02 | Negative | 0.01 | 0.01 | 15:44:09 |
| 26-Mar-19 | 670 | Lead Paint I | 6.12 | 0.12 | 0.09 surface | Negative | 0.12 | 0.05 | 15:44:43 |
| 26-Mar-19 | 671 | Lead Paint I | 5.08 | 0.09 | 0.08 surface | Negative | 0.09 | 0.04 | 15:45:21 |

| | | | | | | | | | | |
|-----------|-----|--------------|-------|------|------|---------|----------|------|------|----------|
| 26-Mar-19 | 672 | Lead Paint I | 5.07 | 0.15 | 0.1 | surface | Negative | 0.15 | 0.05 | 15:45:52 |
| 26-Mar-19 | 673 | Lead Paint I | 6.05 | 0.09 | 0.07 | surface | Negative | 0.09 | 0.04 | 15:46:15 |
| 26-Mar-19 | 674 | Lead Paint I | 5.16 | 0 | 0 | | Negative | 0 | 0 | 15:46:58 |
| 26-Mar-19 | 675 | Lead Paint I | 5.2 | 0 | 0 | | Negative | 0 | 0 | 15:47:18 |
| 26-Mar-19 | 676 | Lead Paint I | 5.21 | 0 | 0 | | Negative | 0 | 0 | 15:47:41 |
| 26-Mar-19 | 677 | Lead Paint I | 5.21 | 0 | 0 | | Negative | 0 | 0 | 15:48:00 |
| 26-Mar-19 | 678 | Lead Paint I | 5.26 | 0 | 0 | | Negative | 0 | 0 | 15:48:20 |
| 26-Mar-19 | 679 | Lead Paint I | 5.37 | 0.02 | 0.03 | | Negative | 0.02 | 0.02 | 15:48:37 |
| 26-Mar-19 | 680 | Lead Paint I | 5.97 | 0 | 0 | | Negative | 0 | 0 | 15:48:57 |
| 26-Mar-19 | 681 | Lead Paint I | 5.98 | 0.01 | 0.03 | | Negative | 0.01 | 0.02 | 15:49:17 |
| 26-Mar-19 | 682 | Lead Paint I | 6.1 | 0.17 | 0.12 | surface | Negative | 0.17 | 0.06 | 15:49:45 |
| 26-Mar-19 | 683 | Lead Paint I | 5.09 | 0.13 | 0.1 | surface | Negative | 0.13 | 0.05 | 15:50:06 |
| 26-Mar-19 | 684 | Lead Paint I | 5.01 | 0.02 | 0.04 | | Negative | 0.02 | 0.02 | 15:50:23 |
| 26-Mar-19 | 685 | Lead Paint I | 5.17 | 0.07 | 0.13 | | Negative | 0.07 | 0.06 | 15:50:55 |
| 26-Mar-19 | 686 | Lead Paint I | 5.25 | 0.1 | 0.18 | | Negative | 0.1 | 0.09 | 15:51:17 |
| 26-Mar-19 | 687 | Lead Paint I | 24.91 | 0.09 | 0.06 | surface | Negative | 0.09 | 0.03 | 15:51:37 |
| 26-Mar-19 | 688 | Lead Paint I | 24.96 | 0.2 | 0.16 | surface | Negative | 0.2 | 0.08 | 15:52:30 |
| 26-Mar-19 | 689 | Lead Paint I | 24.96 | 0.09 | 0.06 | surface | Negative | 0.09 | 0.03 | 15:53:17 |
| 26-Mar-19 | 690 | Lead Paint I | 5.03 | 0 | 0.01 | | Negative | 0 | 0 | 15:54:08 |
| 26-Mar-19 | 691 | Lead Paint I | 5.19 | 0 | 0 | | Negative | 0 | 0 | 15:54:26 |
| 26-Mar-19 | 692 | Lead Paint I | 5.18 | 0 | 0 | | Negative | 0 | 0 | 15:54:47 |
| 26-Mar-19 | 693 | Lead Paint I | 6.06 | 0 | 0 | | Negative | 0 | 0 | 15:55:16 |
| 26-Mar-19 | 694 | Lead Paint I | 5.31 | 0.02 | 0.05 | | Negative | 0.02 | 0.02 | 15:55:31 |
| 26-Mar-19 | 695 | Lead Paint I | 5.8 | 0 | 0.02 | | Negative | 0 | 0.01 | 15:55:50 |
| 26-Mar-19 | 696 | Lead Paint I | 5.37 | 0.05 | 0.06 | | Negative | 0.05 | 0.03 | 15:56:09 |
| 26-Mar-19 | 697 | Lead Paint I | 5.04 | 0.1 | 0.12 | | Negative | 0.1 | 0.06 | 15:56:28 |
| 26-Mar-19 | 698 | Lead Paint I | 5 | 0.03 | 0.05 | | Negative | 0.03 | 0.03 | 15:56:53 |
| 26-Mar-19 | 699 | Lead Paint I | 5.05 | 0.06 | 0.08 | | Negative | 0.06 | 0.04 | 15:57:10 |
| 26-Mar-19 | 700 | Lead Paint I | 5.12 | 0.06 | 0.09 | | Negative | 0.06 | 0.05 | 15:57:34 |
| 26-Mar-19 | 701 | Lead Paint I | 5.14 | 0.11 | 0.1 | surface | Negative | 0.11 | 0.05 | 15:58:06 |
| 26-Mar-19 | 702 | Lead Paint I | 6.24 | 0.08 | 0.06 | surface | Negative | 0.08 | 0.03 | 15:58:23 |
| 26-Mar-19 | 703 | Lead Paint I | 8.41 | 0.1 | 0.06 | surface | Negative | 0.1 | 0.03 | 15:58:46 |
| 26-Mar-19 | 704 | Lead Paint I | 6.35 | 0.09 | 0.08 | surface | Negative | 0.09 | 0.04 | 15:59:09 |
| 26-Mar-19 | 705 | Lead Paint I | 10.98 | 0.07 | 0.05 | surface | Negative | 0.07 | 0.03 | 15:59:28 |
| 26-Mar-19 | 706 | Lead Paint I | 5.96 | 0.01 | 0.03 | | Negative | 0.01 | 0.02 | 15:59:55 |
| 26-Mar-19 | 707 | Lead Paint I | 5.46 | 0.04 | 0.05 | | Negative | 0.04 | 0.02 | 16:00:14 |
| 26-Mar-19 | 708 | Lead Paint I | 6.09 | 0 | 0 | | Negative | 0 | 0 | 16:00:35 |
| 26-Mar-19 | 709 | Lead Paint I | 6.06 | 0.01 | 0.03 | | Negative | 0.01 | 0.01 | 16:01:22 |
| 26-Mar-19 | 710 | Lead Paint I | 5.07 | 0.11 | 0.11 | | Negative | 0.11 | 0.06 | 16:02:05 |
| 26-Mar-19 | 711 | Lead Paint I | 5.06 | 0.03 | 0.06 | | Negative | 0.03 | 0.03 | 16:02:25 |
| 26-Mar-19 | 712 | Lead Paint I | 5.14 | 0.1 | 0.08 | surface | Negative | 0.1 | 0.04 | 16:03:06 |
| 26-Mar-19 | 713 | Lead Paint I | 5.09 | 0.09 | 0.09 | | Negative | 0.09 | 0.05 | 16:03:23 |
| 26-Mar-19 | 714 | Lead Paint I | 5.7 | 0 | 0 | | Negative | 0 | 0 | 16:04:55 |
| 26-Mar-19 | 715 | Lead Paint I | 5.08 | 0 | 0 | | Negative | 0 | 0 | 16:05:10 |
| 26-Mar-19 | 716 | Lead Paint I | 7.48 | 1.3 | 0.3 | surface | Positive | 1.3 | 0.15 | 16:05:31 |
| 26-Mar-19 | 717 | Lead Paint I | 5.31 | 1.43 | 0.41 | surface | Positive | 1.43 | 0.21 | 16:06:11 |
| 26-Mar-19 | 718 | Lead Paint I | 5.48 | 0 | 0 | | Negative | 0 | 0 | 16:06:32 |
| 26-Mar-19 | 719 | Lead Paint I | 6.13 | 0 | 0 | | Negative | 0 | 0 | 16:06:57 |
| 26-Mar-19 | 720 | Lead Paint I | 5.15 | 0 | 0 | | Negative | 0 | 0 | 16:07:29 |
| 26-Mar-19 | 721 | Lead Paint I | 7.25 | 0.13 | 0.11 | surface | Negative | 0.13 | 0.06 | 16:09:34 |
| 26-Mar-19 | 722 | Lead Paint I | 13.18 | 0.06 | 0.05 | surface | Negative | 0.06 | 0.02 | 16:09:55 |
| 26-Mar-19 | 723 | Lead Paint I | 9.95 | 0.18 | 0.2 | | Negative | 0.18 | 0.1 | 16:10:26 |
| 26-Mar-19 | 724 | Lead Paint I | 6.38 | 0.14 | 0.13 | surface | Negative | 0.14 | 0.07 | 16:10:49 |
| 26-Mar-19 | 725 | Lead Paint I | 5.13 | 0.12 | 0.18 | | Negative | 0.12 | 0.09 | 16:11:07 |
| 26-Mar-19 | 726 | Lead Paint I | 5.09 | 0.03 | 0.08 | | Negative | 0.03 | 0.04 | 16:11:32 |
| 26-Mar-19 | 727 | Lead Paint I | 5.36 | 0.04 | 0.17 | | Negative | 0.04 | 0.09 | 16:11:55 |

| | | | | | | | | | |
|-----------|-----|--------------|-------------|------|--------------|----------|------|------|----------|
| 26-Mar-19 | 728 | Lead Paint I | 5.09 | 0 | 0 | Negative | 0 | 0 | 16:12:16 |
| 26-Mar-19 | 729 | Lead Paint I | 5.2 | 0 | 0 | Negative | 0 | 0 | 16:12:34 |
| 26-Mar-19 | 730 | Lead Paint I | 5.84 | 0 | 0 | Negative | 0 | 0 | 16:13:00 |
| 26-Mar-19 | 731 | Lead Paint I | 5.47 | 0 | 0 | Negative | 0 | 0 | 16:13:20 |
| 26-Mar-19 | 732 | Lead Paint I | 5.5 | 0 | 0 | Negative | 0 | 0 | 16:13:47 |
| 26-Mar-19 | 733 | Lead Paint I | 5.34 | 0 | 0 | Negative | 0 | 0 | 16:14:05 |
| 26-Mar-19 | 734 | Lead Paint I | 6.05 | 0 | 0.01 | Negative | 0 | 0 | 16:15:24 |
| 26-Mar-19 | 735 | Lead Paint I | 6.09 | 0.04 | 0.05 | Negative | 0.04 | 0.03 | 16:15:50 |
| 26-Mar-19 | 736 | Lead Paint I | 5.88 | 0.06 | 0.06 | Negative | 0.06 | 0.03 | 16:16:09 |
| 26-Mar-19 | 737 | Lead Paint I | 5.84 | 0.04 | 0.15 | Negative | 0.04 | 0.07 | 16:16:29 |
| 26-Mar-19 | 738 | Lead Paint I | 24.36 | 0.98 | 0.21 surface | Negative | 0.98 | 0.11 | 16:16:47 |
| 26-Mar-19 | 739 | Lead Paint I | 5.08 | 0.14 | 0.44 | Negative | 0.14 | 0.22 | 16:17:34 |
| 26-Mar-19 | 740 | Lead Paint I | 5.63 | 0 | 0 | Negative | 0 | 0 | 16:18:04 |
| 26-Mar-19 | 741 | Lead Paint I | 5.11 > 2.30 | | 1.19 surface | Positive | 2.3 | 0.6 | 16:18:26 |
| 26-Mar-19 | 742 | Lead Paint I | 5.21 | 0 | 0 | Negative | 0 | 0 | 16:19:06 |
| 26-Mar-19 | 743 | Lead Paint I | 5.18 | 0 | 0 | Negative | 0 | 0 | 16:19:23 |
| 26-Mar-19 | 744 | Lead Paint I | 5.41 | 0 | 0 | Negative | 0 | 0 | 16:20:04 |
| 26-Mar-19 | 745 | Lead Paint I | 24.17 | 1.06 | 0.07 surface | Positive | 1.06 | 0.03 | 16:22:10 |
| 26-Mar-19 | 746 | Lead Paint I | 5.06 | 0 | 0 | Negative | 0 | 0 | 16:22:52 |

| Date | Reading | Mode | LiveTime | Match1 | MN1 | Pass/Fail | Pass Fail Stz Pb | Pb +/- | Time |
|-----------|---------|--------------|----------|----------|------|-----------|------------------|-----------|---------|
| 27-Mar-19 | 1 | Standardiza | 26.08 | 0.019721 | 227 | -0.012383 | PASS | | 8:43:14 |
| 27-Mar-19 | 2 | Lead Paint I | 5.34 | 0 | 0 | | Negative | 0 0 | 8:47:48 |
| 27-Mar-19 | 3 | Lead Paint I | 5.17 | > 1.00 | 0.15 | | Positive | 1 0.07 | 8:49:11 |
| 27-Mar-19 | 4 | Lead Paint I | 5.1 | 0.66 | 0.19 | | Negative | 0.66 0.09 | 8:49:41 |
| 27-Mar-19 | 5 | Lead Paint I | 5.19 | 0.63 | 0.18 | | Negative | 0.63 0.09 | 8:50:10 |
| 27-Mar-19 | 6 | Lead Paint I | 5.08 | > 1.00 | 0.2 | | Positive | 1 0.1 | 8:50:39 |
| 27-Mar-19 | 7 | Lead Paint I | 3.72 | 0.59 | 0.2 | | Negative | 0.59 0.1 | 8:51:10 |
| 27-Mar-19 | 8 | Lead Paint I | 5.95 | 0.64 | 0.14 | surface | Negative | 0.64 0.07 | 8:51:53 |
| 27-Mar-19 | 9 | Lead Paint I | 5.03 | 0.35 | 0.11 | surface | Negative | 0.35 0.06 | 8:52:17 |
| 27-Mar-19 | 10 | Lead Paint I | 5.79 | 0.25 | 0.09 | surface | Negative | 0.25 0.05 | 8:52:36 |
| 27-Mar-19 | 11 | Lead Paint I | 5.88 | 0.49 | 0.1 | surface | Negative | 0.49 0.05 | 8:53:01 |
| 27-Mar-19 | 12 | Lead Paint I | 5.84 | 0.44 | 0.1 | surface | Negative | 0.44 0.05 | 8:53:26 |
| 27-Mar-19 | 13 | Lead Paint I | 5.67 | 0.8 | 0.14 | surface | Negative | 0.8 0.07 | 8:53:45 |
| 27-Mar-19 | 14 | Lead Paint I | 8.94 | 0.84 | 0.12 | surface | Negative | 0.84 0.06 | 8:54:07 |
| 27-Mar-19 | 15 | Lead Paint I | 6.08 | 0.69 | 0.13 | surface | Negative | 0.69 0.06 | 8:54:55 |
| 27-Mar-19 | 16 | Lead Paint I | 24.21 | 0.92 | 0.08 | surface | Negative | 0.92 0.04 | 8:55:20 |
| 27-Mar-19 | 17 | Lead Paint I | 6.03 | 0.45 | 0.09 | surface | Negative | 0.45 0.05 | 8:56:18 |
| 27-Mar-19 | 18 | Lead Paint I | 5.03 | 0.37 | 0.09 | surface | Negative | 0.37 0.04 | 8:56:41 |
| 27-Mar-19 | 19 | Lead Paint I | 5.94 | 0.05 | 0.03 | surface | Negative | 0.05 0.01 | 8:57:05 |
| 27-Mar-19 | 20 | Lead Paint I | 9.92 | 0.05 | 0.07 | | Negative | 0.05 0.04 | 8:59:17 |
| 27-Mar-19 | 21 | Lead Paint I | 26.01 | 0.11 | 0.17 | | Negative | 0.11 0.09 | 9:00:34 |
| 27-Mar-19 | 22 | Lead Paint I | 9.77 | 0.36 | 0.45 | | Negative | 0.36 0.22 | 9:01:18 |
| 27-Mar-19 | 23 | Lead Paint I | 5.01 | 0 | 0.01 | | Negative | 0 0 | 9:01:43 |
| 27-Mar-19 | 24 | Lead Paint I | 5.16 | 0.02 | 0.06 | | Negative | 0.02 0.03 | 9:02:01 |
| 27-Mar-19 | 25 | Lead Paint I | 6.1 | 0 | 0 | | Negative | 0 0 | 9:02:34 |
| 27-Mar-19 | 26 | Lead Paint I | 5.24 | 0 | 0 | | Negative | 0 0 | 9:02:52 |
| 27-Mar-19 | 27 | Lead Paint I | 5.12 | 0 | 0 | | Negative | 0 0 | 9:03:12 |
| 27-Mar-19 | 28 | Lead Paint I | 5.42 | 0 | 0 | | Negative | 0 0 | 9:03:41 |
| 27-Mar-19 | 29 | Lead Paint I | 5.8 | 0 | 0 | | Negative | 0 0 | 9:04:06 |
| 27-Mar-19 | 30 | Lead Paint I | 5.12 | 0.04 | 0.07 | | Negative | 0.04 0.03 | 9:04:41 |
| 27-Mar-19 | 31 | Lead Paint I | 5.14 | 0.12 | 0.41 | | Negative | 0.12 0.21 | 9:05:14 |
| 27-Mar-19 | 32 | Lead Paint I | 5.09 | 0.06 | 0.1 | | Negative | 0.06 0.05 | 9:05:41 |
| 27-Mar-19 | 33 | Lead Paint I | 5.11 | 0.17 | 0.47 | | Negative | 0.17 0.23 | 9:06:06 |
| 27-Mar-19 | 34 | Lead Paint I | 25.09 | 0.26 | 0.3 | | Negative | 0.26 0.15 | 9:06:30 |
| 27-Mar-19 | 35 | Lead Paint I | 7.61 | 0.09 | 0.13 | | Negative | 0.09 0.07 | 9:07:14 |
| 27-Mar-19 | 36 | Lead Paint I | 19.36 | 0.14 | 0.19 | | Negative | 0.14 0.1 | 9:07:37 |
| 27-Mar-19 | 37 | Lead Paint I | 25.06 | 0.09 | 0.15 | | Negative | 0.09 0.07 | 9:08:13 |
| 27-Mar-19 | 38 | Lead Paint I | 15.85 | 0.13 | 0.24 | | Negative | 0.13 0.12 | 9:08:56 |
| 27-Mar-19 | 39 | Lead Paint I | 5.14 | 0 | 0 | | Negative | 0 0 | 9:09:28 |
| 27-Mar-19 | 40 | Lead Paint I | 5.16 | 0 | 0 | | Negative | 0 0 | 9:09:45 |
| 27-Mar-19 | 41 | Lead Paint I | 5.13 | 0 | 0 | | Negative | 0 0 | 9:10:02 |
| 27-Mar-19 | 42 | Lead Paint I | 5.15 | 0 | 0 | | Negative | 0 0 | 9:10:36 |
| 27-Mar-19 | 43 | Lead Paint I | 5.16 | 0 | 0 | | Negative | 0 0 | 9:10:54 |
| 27-Mar-19 | 44 | Lead Paint I | 5.29 | 0 | 0 | | Negative | 0 0 | 9:11:10 |
| 27-Mar-19 | 45 | Lead Paint I | 6.36 | 0.34 | 0.57 | | Negative | 0.34 0.29 | 9:11:38 |
| 27-Mar-19 | 46 | Lead Paint I | 6.11 | 0.1 | 0.21 | | Negative | 0.1 0.1 | 9:12:01 |
| 27-Mar-19 | 47 | Lead Paint I | 5.16 | 0.1 | 0.21 | | Negative | 0.1 0.1 | 9:12:51 |
| 27-Mar-19 | 48 | Lead Paint I | 5.19 | 0.01 | 0.01 | | Negative | 0.01 0 | 9:13:15 |
| 27-Mar-19 | 49 | Lead Paint I | 5.25 | 0.12 | 0.4 | | Negative | 0.12 0.2 | 9:13:58 |
| 27-Mar-19 | 50 | Lead Paint I | 5.09 | 0.01 | 0.01 | | Negative | 0.01 0 | 9:14:15 |
| 27-Mar-19 | 51 | Lead Paint I | 20.46 | 0.1 | 0.14 | | Negative | 0.1 0.07 | 9:14:34 |
| 27-Mar-19 | 52 | Lead Paint I | 5.29 | 0.1 | 0.24 | | Negative | 0.1 0.12 | 9:15:10 |
| 27-Mar-19 | 53 | Lead Paint I | 5.22 | 0 | 0 | | Negative | 0 0 | 9:15:27 |
| 27-Mar-19 | 54 | Lead Paint I | 24.87 | 0.22 | 0.23 | | Negative | 0.22 0.12 | 9:15:44 |
| 27-Mar-19 | 55 | Lead Paint I | 25.1 | 0.34 | 0.34 | | Negative | 0.34 0.17 | 9:16:27 |

| | | | | | | | | | |
|-----------|-----|--------------|-------|------|--------------|----------|------|------|---------|
| 27-Mar-19 | 56 | Lead Paint I | 5.15 | 0 | 0 | Negative | 0 | 0 | 9:17:16 |
| 27-Mar-19 | 57 | Lead Paint I | 5.21 | 0 | 0.01 | Negative | 0 | 0 | 9:17:36 |
| 27-Mar-19 | 58 | Lead Paint I | 5.09 | 0 | 0 | Negative | 0 | 0 | 9:17:59 |
| 27-Mar-19 | 59 | Lead Paint I | 5.14 | 0 | 0 | Negative | 0 | 0 | 9:18:17 |
| 27-Mar-19 | 60 | Lead Paint I | 5.15 | 0 | 0 | Negative | 0 | 0 | 9:18:34 |
| 27-Mar-19 | 61 | Lead Paint I | 5.88 | 0 | 0 | Negative | 0 | 0 | 9:18:57 |
| 27-Mar-19 | 62 | Lead Paint I | 11.06 | 0.13 | 0.28 | Negative | 0.13 | 0.14 | 9:19:27 |
| 27-Mar-19 | 63 | Lead Paint I | 5.26 | 0.05 | 0.12 | Negative | 0.05 | 0.06 | 9:19:53 |
| 27-Mar-19 | 64 | Lead Paint I | 6.33 | 0.05 | 0.08 | Negative | 0.05 | 0.04 | 9:20:12 |
| 27-Mar-19 | 65 | Lead Paint I | 5.12 | 0 | 0.01 | Negative | 0 | 0 | 9:20:42 |
| 27-Mar-19 | 66 | Lead Paint I | 7.59 | 0.09 | 0.13 | Negative | 0.09 | 0.06 | 9:20:59 |
| 27-Mar-19 | 67 | Lead Paint I | 5.05 | 0 | 0 | Negative | 0 | 0 | 9:21:49 |
| 27-Mar-19 | 68 | Lead Paint I | 5.31 | 0.07 | 0.14 | Negative | 0.07 | 0.07 | 9:22:06 |
| 27-Mar-19 | 69 | Lead Paint I | 5.91 | 0.07 | 0.31 | Negative | 0.07 | 0.15 | 9:22:29 |
| 27-Mar-19 | 70 | Lead Paint I | 25.71 | 0.16 | 0.09 surface | Negative | 0.16 | 0.05 | 9:22:47 |
| 27-Mar-19 | 71 | Lead Paint I | 5.14 | 0.04 | 0.06 | Negative | 0.04 | 0.03 | 9:23:32 |
| 27-Mar-19 | 72 | Lead Paint I | 8.66 | 0.28 | 0.5 | Negative | 0.28 | 0.25 | 9:23:50 |
| 27-Mar-19 | 73 | Lead Paint I | 7.51 | 0.1 | 0.24 | Negative | 0.1 | 0.12 | 9:24:11 |
| 27-Mar-19 | 74 | Lead Paint I | 6.11 | 0.11 | 0.16 | Negative | 0.11 | 0.08 | 9:24:33 |
| 27-Mar-19 | 75 | Lead Paint I | 5.12 | 0.06 | 0.11 | Negative | 0.06 | 0.05 | 9:26:57 |
| 27-Mar-19 | 76 | Lead Paint I | 5.16 | 0.06 | 0.09 | Negative | 0.06 | 0.04 | 9:27:20 |
| 27-Mar-19 | 77 | Lead Paint I | 8.66 | 0.05 | 0.09 | Negative | 0.05 | 0.04 | 9:27:48 |
| 27-Mar-19 | 78 | Lead Paint I | 5.2 | 0.06 | 0.25 | Negative | 0.06 | 0.12 | 9:28:11 |
| 27-Mar-19 | 79 | Lead Paint I | 25.08 | 0.06 | 0.07 | Negative | 0.06 | 0.03 | 9:28:27 |
| 27-Mar-19 | 80 | Lead Paint I | 5.18 | 0.01 | 0.04 | Negative | 0.01 | 0.02 | 9:29:10 |
| 27-Mar-19 | 81 | Lead Paint I | 14.49 | 0.09 | 0.09 | Negative | 0.09 | 0.04 | 9:29:27 |
| 27-Mar-19 | 82 | Lead Paint I | 6.09 | 0 | 0.01 | Negative | 0 | 0 | 9:30:01 |
| 27-Mar-19 | 83 | Lead Paint I | 5.06 | 0 | 0 | Negative | 0 | 0 | 9:30:21 |
| 27-Mar-19 | 84 | Lead Paint I | 5.27 | 0 | 0 | Negative | 0 | 0 | 9:30:38 |
| 27-Mar-19 | 85 | Lead Paint I | 5.07 | 0 | 0.01 | Negative | 0 | 0 | 9:31:01 |
| 27-Mar-19 | 86 | Lead Paint I | 14.97 | 0.07 | 0.08 | Negative | 0.07 | 0.04 | 9:31:18 |
| 27-Mar-19 | 87 | Lead Paint I | 5.12 | 0.22 | 0.53 | Negative | 0.22 | 0.27 | 9:31:50 |
| 27-Mar-19 | 88 | Lead Paint I | 5.09 | 0.04 | 0.09 | Negative | 0.04 | 0.04 | 9:32:14 |
| 27-Mar-19 | 89 | Lead Paint I | 5.05 | 0.09 | 0.18 | Negative | 0.09 | 0.09 | 9:32:38 |
| 27-Mar-19 | 90 | Lead Paint I | 5.1 | 0.09 | 0.36 | Negative | 0.09 | 0.18 | 9:32:59 |
| 27-Mar-19 | 91 | Lead Paint I | 16.8 | 0.09 | 0.04 surface | Negative | 0.09 | 0.02 | 9:33:33 |
| 27-Mar-19 | 92 | Lead Paint I | 5.24 | 0.12 | 0.1 surface | Negative | 0.12 | 0.05 | 9:34:04 |
| 27-Mar-19 | 93 | Lead Paint I | 11.68 | 0.09 | 0.08 surface | Negative | 0.09 | 0.04 | 9:34:25 |
| 27-Mar-19 | 94 | Lead Paint I | 5.22 | 0.09 | 0.12 | Negative | 0.09 | 0.06 | 9:34:50 |
| 27-Mar-19 | 95 | Lead Paint I | 21.55 | 0.07 | 0.03 surface | Negative | 0.07 | 0.02 | 9:35:08 |
| 27-Mar-19 | 96 | Lead Paint I | 5.05 | 0.04 | 0.11 | Negative | 0.04 | 0.06 | 9:35:44 |
| 27-Mar-19 | 97 | Lead Paint I | 5.37 | 0.06 | 0.06 | Negative | 0.06 | 0.03 | 9:36:02 |
| 27-Mar-19 | 98 | Lead Paint I | 5.91 | 0.57 | 0.13 surface | Negative | 0.57 | 0.06 | 9:36:20 |
| 27-Mar-19 | 99 | Lead Paint I | 6.09 | 0.03 | 0.05 | Negative | 0.03 | 0.03 | 9:36:41 |
| 27-Mar-19 | 100 | Lead Paint I | 5.02 | 0.06 | 0.07 | Negative | 0.06 | 0.03 | 9:37:09 |
| 27-Mar-19 | 101 | Lead Paint I | 6.11 | 0.07 | 0.06 surface | Negative | 0.07 | 0.03 | 9:37:31 |
| 27-Mar-19 | 102 | Lead Paint I | 6.06 | 0.1 | 0.08 surface | Negative | 0.1 | 0.04 | 9:37:51 |
| 27-Mar-19 | 103 | Lead Paint I | 5.03 | 0.01 | 0.02 | Negative | 0.01 | 0.01 | 9:38:11 |
| 27-Mar-19 | 104 | Lead Paint I | 6.38 | 0.01 | 0.01 | Negative | 0.01 | 0 | 9:38:42 |
| 27-Mar-19 | 105 | Lead Paint I | 5.23 | 0.08 | 0.22 | Negative | 0.08 | 0.11 | 9:39:01 |
| 27-Mar-19 | 106 | Lead Paint I | 5.21 | 0.08 | 0.17 | Negative | 0.08 | 0.09 | 9:39:23 |
| 27-Mar-19 | 107 | Lead Paint I | 6.35 | 0.07 | 0.16 | Negative | 0.07 | 0.08 | 9:39:40 |
| 27-Mar-19 | 108 | Lead Paint I | 19.05 | 0.05 | 0.05 surface | Negative | 0.05 | 0.02 | 9:40:02 |
| 27-Mar-19 | 109 | Lead Paint I | 5.19 | 0 | 0 | Negative | 0 | 0 | 9:40:55 |
| 27-Mar-19 | 110 | Lead Paint I | 5.22 | 0 | 0 | Negative | 0 | 0 | 9:41:13 |
| 27-Mar-19 | 111 | Lead Paint I | 5.15 | 0 | 0 | Negative | 0 | 0 | 9:41:30 |

| | | | | | | | | | |
|-----------|-----|--------------|-------|----------|---------------|----------|------|------|----------|
| 27-Mar-19 | 112 | Lead Paint I | 5.11 | 0 | 0.01 | Negative | 0 | 0 | 9:42:06 |
| 27-Mar-19 | 113 | Lead Paint I | 5.31 | 0.14 | 0.21 | Negative | 0.14 | 0.1 | 9:42:29 |
| 27-Mar-19 | 114 | Lead Paint I | 12.05 | 0.07 | 0.05 surface | Negative | 0.07 | 0.02 | 9:43:09 |
| 27-Mar-19 | 115 | Lead Paint I | 22.57 | 0.19 | 0.06 surface | Negative | 0.19 | 0.03 | 9:43:41 |
| 27-Mar-19 | 116 | Lead Paint I | 6.31 | 0.05 | 0.05 surface | Negative | 0.05 | 0.02 | 9:44:26 |
| 27-Mar-19 | 117 | Lead Paint I | 10.01 | 0.04 | 0.04 | Negative | 0.04 | 0.02 | 9:44:48 |
| 27-Mar-19 | 118 | Lead Paint I | 5.2 | 0.03 | 0.05 | Negative | 0.03 | 0.02 | 9:45:20 |
| 27-Mar-19 | 119 | Lead Paint I | 5.99 | 0.05 | 0.14 | Negative | 0.05 | 0.07 | 9:45:38 |
| 27-Mar-19 | 120 | Lead Paint I | 5.36 | 0.07 | 0.08 | Negative | 0.07 | 0.04 | 9:45:57 |
| 27-Mar-19 | 121 | Standardiza | 26.71 | 0.019721 | 227 -0.031856 | PASS | | | 9:50:43 |
| 27-Mar-19 | 122 | Lead Paint I | 6.02 | 0 | 0 | Negative | 0 | 0 | 9:52:04 |
| 27-Mar-19 | 123 | Lead Paint I | 6.02 | 0 | 0 | Negative | 0 | 0 | 9:52:52 |
| 27-Mar-19 | 124 | Lead Paint I | 6.12 | 0 | 0 | Negative | 0 | 0 | 9:53:27 |
| 27-Mar-19 | 125 | Lead Paint I | 16.82 | 1.08 | 0.08 surface | Positive | 1.08 | 0.04 | 9:54:01 |
| 27-Mar-19 | 126 | Lead Paint I | 5.27 | 0 | 0 | Negative | 0 | 0 | 9:55:01 |
| 27-Mar-19 | 127 | Lead Paint I | 5.92 | 0.02 | 0.04 | Negative | 0.02 | 0.02 | 9:57:01 |
| 27-Mar-19 | 128 | Lead Paint I | 5.99 | 0.05 | 0.07 | Negative | 0.05 | 0.03 | 9:57:20 |
| 27-Mar-19 | 129 | Lead Paint I | 5.01 | 0.03 | 0.05 | Negative | 0.03 | 0.02 | 9:57:43 |
| 27-Mar-19 | 130 | Lead Paint I | 5.11 | 0.05 | 0.06 | Negative | 0.05 | 0.03 | 9:58:06 |
| 27-Mar-19 | 131 | Lead Paint I | 5.97 | 0.07 | 0.07 | Negative | 0.07 | 0.04 | 9:58:29 |
| 27-Mar-19 | 132 | Lead Paint I | 5.12 | 0.01 | 0.03 | Negative | 0.01 | 0.01 | 9:58:49 |
| 27-Mar-19 | 133 | Lead Paint I | 24.78 | 0.06 | 0.04 surface | Negative | 0.06 | 0.02 | 9:59:36 |
| 27-Mar-19 | 134 | Lead Paint I | 5.22 | 0.02 | 0.04 | Negative | 0.02 | 0.02 | 10:00:17 |
| 27-Mar-19 | 135 | Lead Paint I | 25.16 | 0.07 | 0.03 surface | Negative | 0.07 | 0.02 | 10:00:35 |
| 27-Mar-19 | 136 | Lead Paint I | 6.33 | 0.02 | 0.04 | Negative | 0.02 | 0.02 | 10:01:21 |
| 27-Mar-19 | 137 | Lead Paint I | 5.24 | 0.11 | 0.09 surface | Negative | 0.11 | 0.05 | 10:01:41 |
| 27-Mar-19 | 138 | Lead Paint I | 5.03 | 0.01 | 0.03 | Negative | 0.01 | 0.01 | 10:02:06 |
| 27-Mar-19 | 139 | Lead Paint I | 5.32 | 0.24 | 0.35 | Negative | 0.24 | 0.17 | 10:02:23 |
| 27-Mar-19 | 140 | Lead Paint I | 5.05 | 0.04 | 0.06 | Negative | 0.04 | 0.03 | 10:02:41 |
| 27-Mar-19 | 141 | Lead Paint I | 5.07 | 0 | 0.02 | Negative | 0 | 0.01 | 10:03:00 |
| 27-Mar-19 | 142 | Lead Paint I | 5.05 | 0.04 | 0.06 | Negative | 0.04 | 0.03 | 10:03:21 |
| 27-Mar-19 | 143 | Lead Paint I | 5.06 | 0.08 | 0.11 | Negative | 0.08 | 0.05 | 10:03:41 |
| 27-Mar-19 | 144 | Lead Paint I | 6.16 | 0.03 | 0.04 | Negative | 0.03 | 0.02 | 10:04:00 |
| 27-Mar-19 | 145 | Lead Paint I | 5.86 | 0.04 | 0.06 | Negative | 0.04 | 0.03 | 10:04:20 |
| 27-Mar-19 | 146 | Lead Paint I | 5.22 | 0 | 0 | Negative | 0 | 0 | 10:04:49 |
| 27-Mar-19 | 147 | Lead Paint I | 7.62 | 0 | 0.01 | Negative | 0 | 0 | 10:05:03 |
| 27-Mar-19 | 148 | Lead Paint I | 13.15 | 0.07 | 0.2 | Negative | 0.07 | 0.1 | 10:05:26 |
| 27-Mar-19 | 149 | Lead Paint I | 5.23 | 0 | 0 | Negative | 0 | 0 | 10:05:53 |
| 27-Mar-19 | 150 | Lead Paint I | 24.96 | 0.02 | 0.04 | Negative | 0.02 | 0.02 | 10:06:13 |
| 27-Mar-19 | 151 | Lead Paint I | 5.06 | 0 | 0 | Negative | 0 | 0 | 10:06:59 |
| 27-Mar-19 | 152 | Lead Paint I | 5.07 | 0.03 | 0.05 | Negative | 0.03 | 0.03 | 10:07:17 |
| 27-Mar-19 | 153 | Lead Paint I | 5.1 | 0 | 0 | Negative | 0 | 0 | 10:07:41 |
| 27-Mar-19 | 154 | Lead Paint I | 5.17 | 0 | 0 | Negative | 0 | 0 | 10:07:59 |
| 27-Mar-19 | 155 | Lead Paint I | 5.21 | 0 | 0 | Negative | 0 | 0 | 10:08:15 |
| 27-Mar-19 | 156 | Lead Paint I | 12.79 | 0.01 | 0.01 | Negative | 0.01 | 0.01 | 10:08:33 |
| 27-Mar-19 | 157 | Lead Paint I | 9.7 | 0.01 | 0.02 | Negative | 0.01 | 0.01 | 10:09:05 |
| 27-Mar-19 | 158 | Lead Paint I | 11.06 | 0.01 | 0.01 | Negative | 0.01 | 0.01 | 10:09:45 |
| 27-Mar-19 | 159 | Lead Paint I | 5.19 | 0 | 0 | Negative | 0 | 0 | 10:10:40 |
| 27-Mar-19 | 160 | Lead Paint I | 5.24 | 0 | 0 | Negative | 0 | 0 | 10:10:59 |
| 27-Mar-19 | 161 | Lead Paint I | 5.34 | 0.01 | 0.04 | Negative | 0.01 | 0.02 | 10:11:27 |
| 27-Mar-19 | 162 | Lead Paint I | 5.17 | 0 | 0.01 | Negative | 0 | 0 | 10:11:45 |
| 27-Mar-19 | 163 | Lead Paint I | 5.3 | 0 | 0 | Negative | 0 | 0 | 10:12:27 |
| 27-Mar-19 | 164 | Lead Paint I | 5.37 | 0.01 | 0.02 | Negative | 0.01 | 0.01 | 10:12:49 |
| 27-Mar-19 | 165 | Lead Paint I | 5.07 | 0.03 | 0.07 | Negative | 0.03 | 0.04 | 10:13:16 |
| 27-Mar-19 | 166 | Lead Paint I | 5.02 | 0.02 | 0.06 | Negative | 0.02 | 0.03 | 10:13:38 |
| 27-Mar-19 | 167 | Lead Paint I | 5 | 0.04 | 0.05 | Negative | 0.04 | 0.02 | 10:14:05 |

| | | | | | | | | | |
|-----------|-----|--------------|-------|--------|--------------|----------|------|------|----------|
| 27-Mar-19 | 168 | Lead Paint I | 5.16 | 0.01 | 0.03 | Negative | 0.01 | 0.01 | 10:14:22 |
| 27-Mar-19 | 169 | Lead Paint I | 5.06 | 0.06 | 0.08 | Negative | 0.06 | 0.04 | 10:14:55 |
| 27-Mar-19 | 170 | Lead Paint I | 5.25 | 0.11 | 0.14 | Negative | 0.11 | 0.07 | 10:15:48 |
| 27-Mar-19 | 171 | Lead Paint I | 12.68 | 0.1 | 0.07 surface | Negative | 0.1 | 0.04 | 10:16:05 |
| 27-Mar-19 | 172 | Lead Paint I | 25.13 | 0.11 | 0.04 | Negative | 0.11 | 0.02 | 10:16:31 |
| 27-Mar-19 | 173 | Lead Paint I | 15.59 | 0.09 | 0.06 surface | Negative | 0.09 | 0.03 | 10:17:23 |
| 27-Mar-19 | 174 | Lead Paint I | 5.24 | 0.14 | 0.13 | Negative | 0.14 | 0.07 | 10:17:53 |
| 27-Mar-19 | 175 | Lead Paint I | 6.08 | 0.01 | 0.03 | Negative | 0.01 | 0.02 | 10:18:26 |
| 27-Mar-19 | 176 | Lead Paint I | 5.36 | 0.08 | 0.08 | Negative | 0.08 | 0.04 | 10:18:48 |
| 27-Mar-19 | 177 | Lead Paint I | 5.99 | 0.19 | 0.47 | Negative | 0.19 | 0.24 | 10:19:05 |
| 27-Mar-19 | 178 | Lead Paint I | 5.02 | 0.01 | 0.05 | Negative | 0.01 | 0.02 | 10:19:26 |
| 27-Mar-19 | 179 | Lead Paint I | 5.06 | 0.07 | 0.07 surface | Negative | 0.07 | 0.04 | 10:19:51 |
| 27-Mar-19 | 180 | Lead Paint I | 5.01 | 0.1 | 0.16 | Negative | 0.1 | 0.08 | 10:20:11 |
| 27-Mar-19 | 181 | Lead Paint I | 6.1 | 0.07 | 0.07 surface | Negative | 0.07 | 0.03 | 10:20:28 |
| 27-Mar-19 | 182 | Lead Paint I | 5.73 | 0.07 | 0.07 surface | Negative | 0.07 | 0.03 | 10:20:49 |
| 27-Mar-19 | 183 | Lead Paint I | 5.18 | > 1.00 | 0.07 | Positive | 1 | 0.04 | 10:21:25 |
| 27-Mar-19 | 184 | Lead Paint I | 7.63 | 0.06 | 0.06 surface | Negative | 0.06 | 0.03 | 10:21:48 |
| 27-Mar-19 | 185 | Lead Paint I | 24.72 | 0.09 | 0.04 surface | Negative | 0.09 | 0.02 | 10:22:14 |
| 27-Mar-19 | 186 | Lead Paint I | 24.61 | 0.05 | 0.03 surface | Negative | 0.05 | 0.01 | 10:22:56 |
| 27-Mar-19 | 187 | Lead Paint I | 5.2 | 0.04 | 0.06 | Negative | 0.04 | 0.03 | 10:23:37 |
| 27-Mar-19 | 188 | Lead Paint I | 5.03 | 0.01 | 0.05 | Negative | 0.01 | 0.03 | 10:24:03 |
| 27-Mar-19 | 189 | Lead Paint I | 8.66 | 0.07 | 0.1 | Negative | 0.07 | 0.05 | 10:24:22 |
| 27-Mar-19 | 190 | Lead Paint I | 6 | 0.03 | 0.04 | Negative | 0.03 | 0.02 | 10:24:43 |
| 27-Mar-19 | 191 | Lead Paint I | 5.05 | 0.04 | 0.1 | Negative | 0.04 | 0.05 | 10:25:02 |
| 27-Mar-19 | 192 | Lead Paint I | 6.07 | 0.03 | 0.04 | Negative | 0.03 | 0.02 | 10:25:38 |
| 27-Mar-19 | 193 | Lead Paint I | 5.03 | 0.14 | 0.22 | Negative | 0.14 | 0.11 | 10:26:01 |
| 27-Mar-19 | 194 | Lead Paint I | 6.12 | 0.08 | 0.08 | Negative | 0.08 | 0.04 | 10:26:26 |
| 27-Mar-19 | 195 | Lead Paint I | 5.1 | 0.09 | 0.1 | Negative | 0.09 | 0.05 | 10:26:51 |
| 27-Mar-19 | 196 | Lead Paint I | 6.34 | 0.15 | 0.15 | Negative | 0.15 | 0.08 | 10:27:50 |
| 27-Mar-19 | 197 | Lead Paint I | 5.24 | 0.12 | 0.31 | Negative | 0.12 | 0.15 | 10:28:21 |
| 27-Mar-19 | 198 | Lead Paint I | 5.2 | 0.31 | 0.61 | Negative | 0.31 | 0.31 | 10:28:38 |
| 27-Mar-19 | 199 | Lead Paint I | 25.02 | 0.18 | 0.08 surface | Negative | 0.18 | 0.04 | 10:28:58 |
| 27-Mar-19 | 200 | Lead Paint I | 5.61 | 0 | 0 | Negative | 0 | 0 | 10:30:26 |
| 27-Mar-19 | 201 | Lead Paint I | 5.81 | 0.02 | 0.07 | Negative | 0.02 | 0.04 | 10:31:04 |
| 27-Mar-19 | 202 | Lead Paint I | 5.35 | 0.07 | 0.09 | Negative | 0.07 | 0.04 | 10:32:05 |
| 27-Mar-19 | 203 | Lead Paint I | 5.07 | 0.02 | 0.07 | Negative | 0.02 | 0.03 | 10:32:48 |
| 27-Mar-19 | 204 | Lead Paint I | 15.73 | 0.29 | 0.22 surface | Negative | 0.29 | 0.11 | 10:33:10 |
| 27-Mar-19 | 205 | Lead Paint I | 5 | 0 | 0.01 | Negative | 0 | 0 | 10:33:48 |
| 27-Mar-19 | 206 | Lead Paint I | 4.07 | 0.06 | 0.08 | Negative | 0.06 | 0.04 | 10:34:09 |
| 27-Mar-19 | 207 | Lead Paint I | 7.56 | > 1.00 | 0.03 | Positive | 1 | 0.02 | 10:34:40 |
| 27-Mar-19 | 208 | Lead Paint I | 5.23 | > 1.00 | 0.07 | Positive | 1 | 0.04 | 10:35:14 |
| 27-Mar-19 | 209 | Lead Paint I | 5.73 | 0.01 | 0.03 | Negative | 0.01 | 0.02 | 10:35:43 |
| 27-Mar-19 | 210 | Lead Paint I | 5.38 | 0.09 | 0.07 surface | Negative | 0.09 | 0.04 | 10:36:00 |
| 27-Mar-19 | 211 | Lead Paint I | 5.79 | 0.07 | 0.05 surface | Negative | 0.07 | 0.03 | 10:36:27 |
| 27-Mar-19 | 212 | Lead Paint I | 6.11 | 0.12 | 0.07 surface | Negative | 0.12 | 0.04 | 10:36:47 |
| 27-Mar-19 | 213 | Lead Paint I | 5.18 | 0.08 | 0.08 | Negative | 0.08 | 0.04 | 10:37:36 |
| 27-Mar-19 | 214 | Lead Paint I | 5.93 | 0.1 | 0.05 surface | Negative | 0.1 | 0.02 | 10:37:57 |
| 27-Mar-19 | 215 | Lead Paint I | 5.09 | 0.07 | 0.07 | Negative | 0.07 | 0.04 | 10:38:38 |
| 27-Mar-19 | 216 | Lead Paint I | 5.96 | 0.1 | 0.1 surface | Negative | 0.1 | 0.05 | 10:39:03 |
| 27-Mar-19 | 217 | Lead Paint I | 6.45 | 0.32 | 0.26 surface | Negative | 0.32 | 0.13 | 10:39:54 |
| 27-Mar-19 | 218 | Lead Paint I | 13.17 | 0.48 | 0.45 surface | Negative | 0.48 | 0.22 | 10:40:19 |
| 27-Mar-19 | 219 | Lead Paint I | 10 | 0.37 | 0.46 | Negative | 0.37 | 0.23 | 10:40:51 |
| 27-Mar-19 | 220 | Lead Paint I | 8.73 | 0.44 | 0.5 | Negative | 0.44 | 0.25 | 10:41:17 |
| 27-Mar-19 | 221 | Lead Paint I | 5.26 | 0.04 | 0.06 | Negative | 0.04 | 0.03 | 10:41:39 |
| 27-Mar-19 | 222 | Lead Paint I | 5.12 | 0 | 0 | Negative | 0 | 0 | 10:42:06 |
| 27-Mar-19 | 223 | Lead Paint I | 6.13 | 0 | 0 | Negative | 0 | 0 | 10:42:27 |

| | | | | | | | | | |
|-----------|-----|--------------|-------|--------|--------------|----------|------|------|----------|
| 27-Mar-19 | 224 | Lead Paint I | 5.16 | 0 | 0 | Negative | 0 | 0 | 10:42:47 |
| 27-Mar-19 | 225 | Lead Paint I | 5.9 | 0 | 0 | Negative | 0 | 0 | 10:43:41 |
| 27-Mar-19 | 226 | Lead Paint I | 25.33 | 0.2 | 0.1 surface | Negative | 0.2 | 0.05 | 10:43:59 |
| 27-Mar-19 | 227 | Lead Paint I | 5.99 | 0.15 | 0.18 | Negative | 0.15 | 0.09 | 10:44:49 |
| 27-Mar-19 | 228 | Lead Paint I | 6.24 | 0.47 | 0.39 surface | Negative | 0.47 | 0.19 | 10:45:12 |
| 27-Mar-19 | 229 | Lead Paint I | 5.97 | 0.04 | 0.05 | Negative | 0.04 | 0.02 | 10:45:35 |
| 27-Mar-19 | 230 | Lead Paint I | 6.05 | 0.04 | 0.05 | Negative | 0.04 | 0.02 | 10:46:05 |
| 27-Mar-19 | 231 | Lead Paint I | 5.09 | 0.17 | 0.23 | Negative | 0.17 | 0.12 | 10:46:37 |
| 27-Mar-19 | 232 | Lead Paint I | 5.08 | 0.04 | 0.06 | Negative | 0.04 | 0.03 | 10:47:07 |
| 27-Mar-19 | 233 | Lead Paint I | 5.18 | 0.01 | 0.01 | Negative | 0.01 | 0 | 10:47:35 |
| 27-Mar-19 | 234 | Lead Paint I | 5.18 | 0.14 | 0.42 | Negative | 0.14 | 0.21 | 10:47:56 |
| 27-Mar-19 | 235 | Lead Paint I | 5.13 | 0.02 | 0.04 | Negative | 0.02 | 0.02 | 10:48:18 |
| 27-Mar-19 | 236 | Lead Paint I | 5.21 | 0.14 | 0.42 | Negative | 0.14 | 0.21 | 10:48:44 |
| 27-Mar-19 | 237 | Lead Paint I | 8.81 | 0.53 | 0.45 surface | Negative | 0.53 | 0.22 | 10:49:07 |
| 27-Mar-19 | 238 | Lead Paint I | 6.13 | 0.5 | 0.35 surface | Negative | 0.5 | 0.17 | 10:49:29 |
| 27-Mar-19 | 239 | Lead Paint I | 5.01 | 0.45 | 0.42 surface | Negative | 0.45 | 0.21 | 10:49:48 |
| 27-Mar-19 | 240 | Lead Paint I | 5.18 | 0.42 | 0.47 | Negative | 0.42 | 0.24 | 10:50:06 |
| 27-Mar-19 | 241 | Lead Paint I | 5.17 | 0.06 | 0.11 | Negative | 0.06 | 0.06 | 10:50:23 |
| 27-Mar-19 | 242 | Lead Paint I | 6.08 | 0 | 0 | Negative | 0 | 0 | 10:50:44 |
| 27-Mar-19 | 243 | Lead Paint I | 5.19 | 0 | 0 | Negative | 0 | 0 | 10:51:03 |
| 27-Mar-19 | 244 | Lead Paint I | 5.16 | 0 | 0 | Negative | 0 | 0 | 10:51:20 |
| 27-Mar-19 | 245 | Lead Paint I | 5.06 | 0 | 0 | Negative | 0 | 0 | 10:51:42 |
| 27-Mar-19 | 246 | Lead Paint I | 6.17 | 0 | 0 | Negative | 0 | 0 | 10:52:15 |
| 27-Mar-19 | 247 | Lead Paint I | 5.17 | 0 | 0 | Negative | 0 | 0 | 10:52:33 |
| 27-Mar-19 | 248 | Lead Paint I | 5.13 | 0.03 | 0.05 | Negative | 0.03 | 0.03 | 10:53:02 |
| 27-Mar-19 | 249 | Lead Paint I | 6.09 | 0.32 | 0.23 surface | Negative | 0.32 | 0.12 | 10:53:19 |
| 27-Mar-19 | 250 | Lead Paint I | 5.15 | 0.13 | 0.16 | Negative | 0.13 | 0.08 | 10:53:41 |
| 27-Mar-19 | 251 | Lead Paint I | 5.04 | 0.07 | 0.15 | Negative | 0.07 | 0.07 | 10:54:03 |
| 27-Mar-19 | 252 | Lead Paint I | 5.16 | 0.07 | 0.15 | Negative | 0.07 | 0.07 | 10:54:25 |
| 27-Mar-19 | 253 | Lead Paint I | 5.13 | 0.15 | 0.44 | Negative | 0.15 | 0.22 | 10:54:48 |
| 27-Mar-19 | 254 | Lead Paint I | 5.13 | 0.07 | 0.11 | Negative | 0.07 | 0.06 | 10:55:07 |
| 27-Mar-19 | 255 | Lead Paint I | 5.18 | 0.09 | 0.16 | Negative | 0.09 | 0.08 | 10:55:24 |
| 27-Mar-19 | 256 | Lead Paint I | 5.13 | 0.27 | 0.59 | Negative | 0.27 | 0.29 | 10:55:41 |
| 27-Mar-19 | 257 | Lead Paint I | 6.41 | 0.2 | 0.34 | Negative | 0.2 | 0.17 | 10:57:02 |
| 27-Mar-19 | 258 | Lead Paint I | 12.22 | 0.16 | 0.12 surface | Negative | 0.16 | 0.06 | 10:57:22 |
| 27-Mar-19 | 259 | Lead Paint I | 5.23 | 0 | 0 | Negative | 0 | 0 | 10:57:50 |
| 27-Mar-19 | 260 | Lead Paint I | 5.19 | 0.28 | 0.3 | Negative | 0.28 | 0.15 | 10:58:10 |
| 27-Mar-19 | 261 | Lead Paint I | 5.2 | 0.07 | 0.08 | Negative | 0.07 | 0.04 | 10:58:30 |
| 27-Mar-19 | 262 | Lead Paint I | 5.06 | 0.32 | 0.35 | Negative | 0.32 | 0.18 | 10:58:49 |
| 27-Mar-19 | 263 | Lead Paint I | 5.03 | 0.23 | 0.31 | Negative | 0.23 | 0.16 | 10:59:11 |
| 27-Mar-19 | 264 | Lead Paint I | 5.07 | 0 | 0 | Negative | 0 | 0 | 10:59:40 |
| 27-Mar-19 | 265 | Lead Paint I | 5.16 | 0 | 0 | Negative | 0 | 0 | 11:00:00 |
| 27-Mar-19 | 266 | Lead Paint I | 5.15 | 0 | 0 | Negative | 0 | 0 | 11:00:17 |
| 27-Mar-19 | 267 | Lead Paint I | 5.68 | 0 | 0 | Negative | 0 | 0 | 11:00:47 |
| 27-Mar-19 | 268 | Lead Paint I | 5.71 | 0 | 0.01 | Negative | 0 | 0 | 11:01:06 |
| 27-Mar-19 | 269 | Lead Paint I | 5.2 | 0.43 | 0.49 | Negative | 0.43 | 0.24 | 11:01:36 |
| 27-Mar-19 | 270 | Lead Paint I | 12.23 | 0.47 | 0.44 surface | Negative | 0.47 | 0.22 | 11:02:24 |
| 27-Mar-19 | 271 | Lead Paint I | 8.71 | 0.33 | 0.21 surface | Negative | 0.33 | 0.11 | 11:02:53 |
| 27-Mar-19 | 272 | Lead Paint I | 5.22 | 0.21 | 0.37 | Negative | 0.21 | 0.18 | 11:03:17 |
| 27-Mar-19 | 273 | Lead Paint I | 5.98 | 0 | 0.02 | Negative | 0 | 0.01 | 11:03:44 |
| 27-Mar-19 | 274 | Lead Paint I | 25.73 | > 1.00 | 0.06 | Positive | 1 | 0.03 | 11:04:02 |
| 27-Mar-19 | 275 | Lead Paint I | 6 | 0 | 0.03 | Negative | 0 | 0.01 | 11:05:03 |
| 27-Mar-19 | 276 | Lead Paint I | 25.51 | > 1.00 | 0.1 | Positive | 1 | 0.05 | 11:05:22 |
| 27-Mar-19 | 277 | Lead Paint I | 5.02 | 0.19 | 0.5 | Negative | 0.19 | 0.25 | 11:06:15 |
| 27-Mar-19 | 278 | Lead Paint I | 6.02 | 0.07 | 0.11 | Negative | 0.07 | 0.05 | 11:06:41 |
| 27-Mar-19 | 279 | Lead Paint I | 5.09 | 0.07 | 0.17 | Negative | 0.07 | 0.08 | 11:07:06 |

| | | | | | | | | | |
|-----------|-----|--------------|-------------|------|--------------|----------|------|------|----------|
| 27-Mar-19 | 280 | Lead Paint I | 5.12 | 0.09 | 0.19 | Negative | 0.09 | 0.1 | 11:07:36 |
| 27-Mar-19 | 281 | Lead Paint I | 5.24 | 0.12 | 0.32 | Negative | 0.12 | 0.16 | 11:07:54 |
| 27-Mar-19 | 282 | Lead Paint I | 5.05 | 0.24 | 0.55 | Negative | 0.24 | 0.28 | 11:08:12 |
| 27-Mar-19 | 283 | Lead Paint I | 15.82 | 0.11 | 0.1 surface | Negative | 0.11 | 0.05 | 11:09:01 |
| 27-Mar-19 | 284 | Lead Paint I | 13.41 | 0.49 | 0.49 | Negative | 0.49 | 0.25 | 11:09:36 |
| 27-Mar-19 | 285 | Lead Paint I | 24.91 | 0.23 | 0.17 surface | Negative | 0.23 | 0.08 | 11:10:02 |
| 27-Mar-19 | 286 | Lead Paint I | 7.61 | 0.02 | 0.04 | Negative | 0.02 | 0.02 | 11:10:47 |
| 27-Mar-19 | 287 | Lead Paint I | 9.97 | 0.1 | 0.1 | Negative | 0.1 | 0.05 | 11:11:07 |
| 27-Mar-19 | 288 | Lead Paint I | 6.1 | 0 | 0 | Negative | 0 | 0 | 11:11:56 |
| 27-Mar-19 | 289 | Lead Paint I | 5.18 | 0 | 0 | Negative | 0 | 0 | 11:12:21 |
| 27-Mar-19 | 290 | Lead Paint I | 5.2 | 0 | 0 | Negative | 0 | 0 | 11:12:43 |
| 27-Mar-19 | 291 | Lead Paint I | 5.03 | 0 | 0.01 | Negative | 0 | 0 | 11:13:16 |
| 27-Mar-19 | 292 | Lead Paint I | 5.32 | 0.11 | 0.09 surface | Negative | 0.11 | 0.05 | 11:13:33 |
| 27-Mar-19 | 293 | Lead Paint I | 5.12 | 0.05 | 0.06 | Negative | 0.05 | 0.03 | 11:13:57 |
| 27-Mar-19 | 294 | Lead Paint I | 5.03 | 0.16 | 0.19 | Negative | 0.16 | 0.1 | 11:14:24 |
| 27-Mar-19 | 295 | Lead Paint I | 5.1 | 0.05 | 0.06 | Negative | 0.05 | 0.03 | 11:14:52 |
| 27-Mar-19 | 296 | Lead Paint I | 6.1 | 0.11 | 0.14 | Negative | 0.11 | 0.07 | 11:15:19 |
| 27-Mar-19 | 297 | Lead Paint I | 11.05 | 0.14 | 0.11 | Negative | 0.14 | 0.05 | 11:15:57 |
| 27-Mar-19 | 298 | Lead Paint I | 4.03 | 0.15 | 0.17 | Negative | 0.15 | 0.08 | 11:16:31 |
| 27-Mar-19 | 299 | Lead Paint I | 8.7 > 1.00 | | 0.09 | Positive | 1 | 0.04 | 11:16:59 |
| 27-Mar-19 | 300 | Lead Paint I | 24.76 | 0.05 | 0.03 | Negative | 0.05 | 0.01 | 11:17:35 |
| 27-Mar-19 | 301 | Lead Paint I | 3.85 > 1.00 | | 0.1 | Positive | 1 | 0.05 | 11:18:26 |
| 27-Mar-19 | 302 | Lead Paint I | 5.11 | 0 | 0.01 | Negative | 0 | 0 | 11:18:57 |
| 27-Mar-19 | 303 | Lead Paint I | 5.39 | 0.12 | 0.08 surface | Negative | 0.12 | 0.04 | 11:19:16 |
| 27-Mar-19 | 304 | Lead Paint I | 6.1 | 0.09 | 0.07 surface | Negative | 0.09 | 0.04 | 11:19:34 |
| 27-Mar-19 | 305 | Lead Paint I | 5.03 | 0.07 | 0.05 surface | Negative | 0.07 | 0.03 | 11:19:54 |
| 27-Mar-19 | 306 | Lead Paint I | 5.02 | 0.09 | 0.08 surface | Negative | 0.09 | 0.04 | 11:20:37 |
| 27-Mar-19 | 307 | Lead Paint I | 5.09 | 0.14 | 0.12 surface | Negative | 0.14 | 0.06 | 11:20:59 |
| 27-Mar-19 | 308 | Lead Paint I | 5.11 | 0.12 | 0.1 surface | Negative | 0.12 | 0.05 | 11:21:18 |
| 27-Mar-19 | 309 | Lead Paint I | 5.14 | 0.13 | 0.1 surface | Negative | 0.13 | 0.05 | 11:21:36 |
| 27-Mar-19 | 310 | Lead Paint I | 24.56 | 0.38 | 0.11 surface | Negative | 0.38 | 0.06 | 11:22:22 |
| 27-Mar-19 | 311 | Lead Paint I | 14.65 | 0.65 | 0.34 surface | Negative | 0.65 | 0.17 | 11:23:07 |
| 27-Mar-19 | 312 | Lead Paint I | 21.52 | 0.5 | 0.17 surface | Negative | 0.5 | 0.09 | 11:23:37 |
| 27-Mar-19 | 313 | Lead Paint I | 24.88 | 0.41 | 0.14 surface | Negative | 0.41 | 0.07 | 11:24:20 |
| 27-Mar-19 | 314 | Lead Paint I | 5.23 | 0.1 | 0.15 | Negative | 0.1 | 0.07 | 11:25:01 |
| 27-Mar-19 | 315 | Lead Paint I | 5.11 | 0 | 0 | Negative | 0 | 0 | 11:25:40 |
| 27-Mar-19 | 316 | Lead Paint I | 5.18 | 0 | 0 | Negative | 0 | 0 | 11:25:58 |
| 27-Mar-19 | 317 | Lead Paint I | 5.18 | 0 | 0 | Negative | 0 | 0 | 11:26:15 |
| 27-Mar-19 | 318 | Lead Paint I | 5.9 | 0.05 | 0.11 | Negative | 0.05 | 0.05 | 11:26:49 |
| 27-Mar-19 | 319 | Lead Paint I | 5.09 | 0.12 | 0.17 | Negative | 0.12 | 0.09 | 11:27:10 |
| 27-Mar-19 | 320 | Lead Paint I | 5.07 | 0.13 | 0.1 surface | Negative | 0.13 | 0.05 | 11:27:28 |
| 27-Mar-19 | 321 | Lead Paint I | 5.11 | 0.02 | 0.07 | Negative | 0.02 | 0.04 | 11:27:49 |
| 27-Mar-19 | 322 | Lead Paint I | 23.06 | 0.2 | 0.09 surface | Negative | 0.2 | 0.04 | 11:28:06 |
| 27-Mar-19 | 323 | Lead Paint I | 5.03 | 0.05 | 0.06 | Negative | 0.05 | 0.03 | 11:28:47 |
| 27-Mar-19 | 324 | Lead Paint I | 5.04 | 0.16 | 0.22 | Negative | 0.16 | 0.11 | 11:29:07 |
| 27-Mar-19 | 325 | Lead Paint I | 5.06 | 0.06 | 0.1 | Negative | 0.06 | 0.05 | 11:29:29 |
| 27-Mar-19 | 326 | Lead Paint I | 5.03 | 0.04 | 0.06 | Negative | 0.04 | 0.03 | 11:29:52 |
| 27-Mar-19 | 327 | Lead Paint I | 5.05 | 0.41 | 0.21 | Negative | 0.41 | 0.11 | 11:30:17 |
| 27-Mar-19 | 328 | Lead Paint I | 5.27 | 0.21 | 0.11 | Negative | 0.21 | 0.06 | 11:30:52 |
| 27-Mar-19 | 329 | Lead Paint I | 24.98 | 0.26 | 0.07 surface | Negative | 0.26 | 0.03 | 11:32:50 |
| 27-Mar-19 | 330 | Lead Paint I | 5.21 > 1.00 | | 0.13 | Positive | 1 | 0.07 | 11:33:34 |
| 27-Mar-19 | 331 | Lead Paint I | 2.94 > 1.00 | | 0.06 | Positive | 1 | 0.03 | 11:34:00 |
| 27-Mar-19 | 332 | Lead Paint I | 5.01 | 0.02 | 0.05 | Negative | 0.02 | 0.03 | 11:34:26 |
| 27-Mar-19 | 333 | Lead Paint I | 5 | 0.2 | 0.14 surface | Negative | 0.2 | 0.07 | 11:34:45 |
| 27-Mar-19 | 334 | Lead Paint I | 5.04 | 0.14 | 0.1 surface | Negative | 0.14 | 0.05 | 11:35:03 |
| 27-Mar-19 | 335 | Lead Paint I | 5.96 | 0.11 | 0.07 surface | Negative | 0.11 | 0.03 | 11:35:22 |

| | | | | | | | | | | |
|-----------|-----|--------------|-------|--------|------|---------|----------|------|------|----------|
| 27-Mar-19 | 336 | Lead Paint I | 5.08 | 0.13 | 0.11 | surface | Negative | 0.13 | 0.05 | 11:35:47 |
| 27-Mar-19 | 337 | Lead Paint I | 5.04 | 0.06 | 0.06 | | Negative | 0.06 | 0.03 | 11:36:18 |
| 27-Mar-19 | 338 | Lead Paint I | 5.06 | 0.06 | 0.07 | | Negative | 0.06 | 0.03 | 11:36:36 |
| 27-Mar-19 | 339 | Lead Paint I | 5.04 | 0.05 | 0.06 | | Negative | 0.05 | 0.03 | 11:37:10 |
| 27-Mar-19 | 340 | Lead Paint I | 6.12 | 0.14 | 0.09 | surface | Negative | 0.14 | 0.05 | 11:39:38 |
| 27-Mar-19 | 341 | Lead Paint I | 5.22 | 0.05 | 0.13 | | Negative | 0.05 | 0.07 | 11:40:24 |
| 27-Mar-19 | 342 | Lead Paint I | 24.4 | 0.07 | 0.07 | | Negative | 0.07 | 0.03 | 11:40:44 |
| 27-Mar-19 | 343 | Lead Paint I | 8.25 | 0.03 | 0.04 | | Negative | 0.03 | 0.02 | 11:41:24 |
| 27-Mar-19 | 344 | Lead Paint I | 5.17 | 0 | 0 | | Negative | 0 | 0 | 11:41:46 |
| 27-Mar-19 | 345 | Lead Paint I | 18.02 | 0.04 | 0.04 | | Negative | 0.04 | 0.02 | 11:42:03 |
| 27-Mar-19 | 346 | Lead Paint I | 6.02 | 0 | 0 | | Negative | 0 | 0 | 11:42:50 |
| 27-Mar-19 | 347 | Lead Paint I | 5.12 | 0.12 | 0.13 | | Negative | 0.12 | 0.07 | 11:43:11 |
| 27-Mar-19 | 348 | Lead Paint I | 5.83 | 0.01 | 0.05 | | Negative | 0.01 | 0.03 | 11:43:33 |
| 27-Mar-19 | 349 | Lead Paint I | 14.94 | 0.12 | 0.08 | surface | Negative | 0.12 | 0.04 | 11:43:51 |
| 27-Mar-19 | 350 | Lead Paint I | 5.11 | 0 | 0 | | Negative | 0 | 0 | 11:44:24 |
| 27-Mar-19 | 351 | Lead Paint I | 5.18 | 0 | 0 | | Negative | 0 | 0 | 11:44:41 |
| 27-Mar-19 | 352 | Lead Paint I | 6.09 | 0 | 0 | | Negative | 0 | 0 | 11:44:58 |
| 27-Mar-19 | 353 | Lead Paint I | 5.89 | > 1.00 | 0.02 | | Positive | 1 | 0.01 | 11:45:22 |
| 27-Mar-19 | 354 | Lead Paint I | 16.42 | 0 | 0.01 | | Negative | 0 | 0.01 | 11:45:48 |
| 27-Mar-19 | 355 | Lead Paint I | 13.02 | > 1.00 | 0.01 | | Positive | 1 | 0 | 11:46:38 |
| 27-Mar-19 | 356 | Lead Paint I | 7.51 | > 1.00 | 0.02 | | Positive | 1 | 0.01 | 11:47:19 |
| 27-Mar-19 | 357 | Lead Paint I | 5.23 | 0 | 0.02 | | Negative | 0 | 0.01 | 11:48:08 |
| 27-Mar-19 | 358 | Lead Paint I | 15.68 | 0.01 | 0.02 | | Negative | 0.01 | 0.01 | 11:48:29 |
| 27-Mar-19 | 359 | Lead Paint I | 9.9 | 0.02 | 0.04 | | Negative | 0.02 | 0.02 | 11:49:01 |
| 27-Mar-19 | 360 | Lead Paint I | 5.23 | 0.02 | 0.05 | | Negative | 0.02 | 0.03 | 11:49:28 |
| 27-Mar-19 | 361 | Lead Paint I | 6.14 | 0 | 0.01 | | Negative | 0 | 0 | 11:49:47 |
| 27-Mar-19 | 362 | Lead Paint I | 5.35 | 0.13 | 0.11 | surface | Negative | 0.13 | 0.06 | 11:50:08 |
| 27-Mar-19 | 363 | Lead Paint I | 5.82 | 0.06 | 0.07 | | Negative | 0.06 | 0.03 | 11:50:26 |
| 27-Mar-19 | 364 | Lead Paint I | 6.09 | 0.03 | 0.03 | | Negative | 0.03 | 0.02 | 11:50:46 |
| 27-Mar-19 | 365 | Lead Paint I | 20.45 | 0.1 | 0.05 | | Negative | 0.1 | 0.02 | 11:51:17 |
| 27-Mar-19 | 366 | Lead Paint I | 7.37 | > 1.00 | 0.08 | | Positive | 1 | 0.04 | 11:52:14 |
| 27-Mar-19 | 367 | Lead Paint I | 5.18 | 0.32 | 0.27 | surface | Negative | 0.32 | 0.13 | 11:52:44 |
| 27-Mar-19 | 368 | Lead Paint I | 7.63 | > 1.00 | 0.14 | | Positive | 1 | 0.07 | 11:53:08 |
| 27-Mar-19 | 369 | Lead Paint I | 5.16 | 0.05 | 0.06 | | Negative | 0.05 | 0.03 | 11:53:37 |
| 27-Mar-19 | 370 | Lead Paint I | 5.22 | > 1.00 | 0.12 | | Positive | 1 | 0.06 | 11:54:06 |
| 27-Mar-19 | 371 | Lead Paint I | 5.18 | 0.09 | 0.14 | | Negative | 0.09 | 0.07 | 11:54:50 |
| 27-Mar-19 | 372 | Lead Paint I | 5.02 | 0.06 | 0.08 | | Negative | 0.06 | 0.04 | 11:55:08 |
| 27-Mar-19 | 373 | Lead Paint I | 6.1 | 0 | 0.01 | | Negative | 0 | 0 | 11:55:42 |
| 27-Mar-19 | 374 | Lead Paint I | 25.6 | 0.11 | 0.06 | surface | Negative | 0.11 | 0.03 | 11:56:00 |
| 27-Mar-19 | 375 | Lead Paint I | 5.97 | 0.01 | 0.03 | | Negative | 0.01 | 0.01 | 11:56:52 |
| 27-Mar-19 | 376 | Lead Paint I | 5.12 | 0.16 | 0.17 | | Negative | 0.16 | 0.09 | 11:57:11 |
| 27-Mar-19 | 377 | Lead Paint I | 5.11 | 0.12 | 0.15 | | Negative | 0.12 | 0.07 | 11:57:39 |
| 27-Mar-19 | 378 | Lead Paint I | 5.03 | 0.21 | 0.22 | | Negative | 0.21 | 0.11 | 11:58:00 |
| 27-Mar-19 | 379 | Lead Paint I | 5.09 | 0.03 | 0.04 | | Negative | 0.03 | 0.02 | 11:58:18 |
| 27-Mar-19 | 380 | Lead Paint I | 2.88 | > 1.00 | 0.19 | | Positive | 1 | 0.09 | 11:58:58 |
| 27-Mar-19 | 381 | Lead Paint I | 5.03 | 0.17 | 0.08 | | Negative | 0.17 | 0.04 | 11:59:19 |
| 27-Mar-19 | 382 | Lead Paint I | 2.94 | > 1.00 | 0.19 | | Positive | 1 | 0.1 | 11:59:45 |
| 27-Mar-19 | 383 | Lead Paint I | 2.67 | > 1.00 | 0.3 | | Positive | 1 | 0.15 | 12:00:05 |
| 27-Mar-19 | 384 | Lead Paint I | 5.14 | 0 | 0 | | Negative | 0 | 0 | 12:00:32 |
| 27-Mar-19 | 385 | Lead Paint I | 8.8 | 0.2 | 0.1 | surface | Negative | 0.2 | 0.05 | 12:00:54 |
| 27-Mar-19 | 386 | Lead Paint I | 4.09 | > 1.00 | 0.07 | | Positive | 1 | 0.03 | 12:01:24 |
| 27-Mar-19 | 387 | Lead Paint I | 6.06 | 0.08 | 0.07 | surface | Negative | 0.08 | 0.03 | 12:02:28 |
| 27-Mar-19 | 388 | Lead Paint I | 5.96 | 0.1 | 0.08 | surface | Negative | 0.1 | 0.04 | 12:02:52 |
| 27-Mar-19 | 389 | Lead Paint I | 6.1 | 0.11 | 0.09 | surface | Negative | 0.11 | 0.05 | 12:03:43 |
| 27-Mar-19 | 390 | Lead Paint I | 5.16 | 0.1 | 0.08 | surface | Negative | 0.1 | 0.04 | 12:04:13 |
| 27-Mar-19 | 391 | Lead Paint I | 5.06 | 0.09 | 0.07 | surface | Negative | 0.09 | 0.04 | 12:04:51 |

| | | | | | | | | |
|-----------|------------------|------|------|--------------|----------|------|------|----------|
| 27-Mar-19 | 392 Lead Paint I | 5.1 | 0.16 | 0.13 surface | Negative | 0.16 | 0.07 | 12:05:18 |
| 27-Mar-19 | 393 Lead Paint I | 5.11 | 0 | 0 | Negative | 0 | 0 | 12:06:52 |
| 27-Mar-19 | 394 Lead Paint I | 5.17 | 0 | 0 | Negative | 0 | 0 | 12:07:10 |
| 27-Mar-19 | 395 Lead Paint I | 5.18 | 0 | 0 | Negative | 0 | 0 | 12:07:36 |
| 27-Mar-19 | 396 Lead Paint I | 5.22 | 0 | 0 | Negative | 0 | 0 | 12:07:53 |
| 27-Mar-19 | 397 Lead Paint I | 5.24 | 1.18 | 0.17 surface | Positive | 1.18 | 0.08 | 12:09:36 |
| 27-Mar-19 | 398 Lead Paint I | 5.33 | 0 | 0 | Negative | 0 | 0 | 12:10:06 |

| Date | Reading | Mode | LiveTime | Match1 | MN1 | Pass/Fail | Pass Fail St: Pb | Pb +/- | Time |
|-----------|---------|--------------|----------|----------|------|-----------|------------------|--------|---------|
| 28-Mar-19 | 1 | Standardiza | 26.87 | 0.019716 | 228 | -0.012032 | PASS | | 8:34:42 |
| 28-Mar-19 | 2 | Lead Paint I | 5.34 | 0 | 0 | | Negative | 0 | 8:39:57 |
| 28-Mar-19 | 3 | Lead Paint I | 5.15 | 0 | 0 | | Negative | 0 | 8:44:27 |
| 28-Mar-19 | 4 | Lead Paint I | 5.24 | 0 | 0 | | Negative | 0 | 8:44:40 |
| 28-Mar-19 | 5 | Lead Paint I | 5.21 | 1.32 | 0.31 | surface | Positive | 1.32 | 8:44:57 |
| 28-Mar-19 | 6 | Lead Paint I | 5.19 | 0 | 0 | | Negative | 0 | 8:47:47 |
| 28-Mar-19 | 7 | Lead Paint I | 5.37 | 0 | 0 | | Negative | 0 | 8:48:03 |
| 28-Mar-19 | 8 | Lead Paint I | 5.36 | 0 | 0 | | Negative | 0 | 8:49:57 |
| 28-Mar-19 | 9 | Lead Paint I | 25.26 | > 1.00 | 0.46 | | Positive | 1 | 8:50:11 |
| 28-Mar-19 | 10 | Lead Paint I | 25.33 | 0.12 | 0.18 | | Negative | 0.12 | 8:51:06 |
| 28-Mar-19 | 11 | Lead Paint I | 5.18 | 0 | 0 | | Negative | 0 | 8:51:55 |
| 28-Mar-19 | 12 | Lead Paint I | 5.26 | 0 | 0 | | Negative | 0 | 8:52:12 |
| 28-Mar-19 | 13 | Lead Paint I | 5.18 | 0 | 0 | | Negative | 0 | 8:52:33 |
| 28-Mar-19 | 14 | Lead Paint I | 18.57 | > 1.00 | 0.07 | | Positive | 1 | 8:52:46 |
| 28-Mar-19 | 15 | Lead Paint I | 5.36 | 0 | 0 | | Negative | 0 | 8:55:08 |
| 28-Mar-19 | 16 | Lead Paint I | 25.76 | > 1.04 | 0.42 | | Positive | 1.04 | 8:55:22 |
| 28-Mar-19 | 17 | Lead Paint I | 5.87 | 0 | 0 | | Negative | 0 | 8:56:46 |
| 28-Mar-19 | 18 | Lead Paint I | 5.75 | 0 | 0 | | Negative | 0 | 8:57:04 |
| 28-Mar-19 | 19 | Lead Paint I | 5.82 | 0 | 0 | | Negative | 0 | 8:57:22 |
| 28-Mar-19 | 20 | Lead Paint I | 5.36 | 0 | 0 | | Negative | 0 | 8:59:16 |
| 28-Mar-19 | 21 | Lead Paint I | 8.77 | 1.44 | 0.42 | surface | Positive | 1.44 | 8:59:32 |
| 28-Mar-19 | 22 | Lead Paint I | 5.23 | 0.11 | 0.37 | | Negative | 0.11 | 9:01:11 |
| 28-Mar-19 | 23 | Lead Paint I | 19.98 | 0.05 | 0.06 | | Negative | 0.05 | 9:02:14 |
| 28-Mar-19 | 24 | Lead Paint I | 24.45 | 0.39 | 0.39 | | Negative | 0.39 | 9:02:59 |
| 28-Mar-19 | 25 | Lead Paint I | 14.56 | 0.49 | 0.43 | | Negative | 0.49 | 9:03:55 |
| 28-Mar-19 | 26 | Lead Paint I | 5.24 | 0 | 0 | | Negative | 0 | 9:04:25 |
| 28-Mar-19 | 27 | Lead Paint I | 5.15 | 0 | 0 | | Negative | 0 | 9:05:42 |
| 28-Mar-19 | 28 | Lead Paint I | 5.24 | 0 | 0 | | Negative | 0 | 9:06:13 |
| 28-Mar-19 | 29 | Lead Paint I | 5.21 | 0 | 0 | | Negative | 0 | 9:06:29 |
| 28-Mar-19 | 30 | Lead Paint I | 6.13 | 0 | 0 | | Negative | 0 | 9:09:44 |
| 28-Mar-19 | 31 | Lead Paint I | 5.17 | 0 | 0 | | Negative | 0 | 9:10:02 |
| 28-Mar-19 | 32 | Lead Paint I | 5.22 | 0 | 0 | | Negative | 0 | 9:10:23 |
| 28-Mar-19 | 33 | Lead Paint I | 10.69 | 1.98 | 0.98 | | Positive | 1.98 | 9:13:15 |
| 28-Mar-19 | 34 | Lead Paint I | 25.61 | 0.7 | 0.36 | surface | Negative | 0.7 | 9:13:39 |
| 28-Mar-19 | 35 | Lead Paint I | 5.04 | 0 | 0 | | Negative | 0 | 9:16:34 |
| 28-Mar-19 | 36 | Lead Paint I | 20.9 | 0.21 | 0.11 | surface | Negative | 0.21 | 9:16:47 |
| 28-Mar-19 | 37 | Lead Paint I | 5.05 | 0.23 | 0.54 | | Negative | 0.23 | 9:18:11 |
| 28-Mar-19 | 38 | Lead Paint I | 5.07 | 0.04 | 0.04 | | Negative | 0.04 | 9:18:34 |
| 28-Mar-19 | 39 | Lead Paint I | 5.2 | 0.06 | 0.09 | | Negative | 0.06 | 9:19:43 |
| 28-Mar-19 | 40 | Lead Paint I | 6.12 | 0.14 | 0.28 | | Negative | 0.14 | 9:20:10 |
| 28-Mar-19 | 41 | Lead Paint I | 5.13 | 0 | 0 | | Negative | 0 | 9:26:56 |
| 28-Mar-19 | 42 | Lead Paint I | 6.16 | 0 | 0 | | Negative | 0 | 9:27:22 |
| 28-Mar-19 | 43 | Lead Paint I | 5.19 | 0 | 0 | | Negative | 0 | 9:27:44 |
| 28-Mar-19 | 44 | Lead Paint I | 5.12 | 0 | 0 | | Negative | 0 | 9:28:01 |
| 28-Mar-19 | 45 | Lead Paint I | 5.09 | 0 | 0 | | Negative | 0 | 9:30:43 |
| 28-Mar-19 | 46 | Lead Paint I | 21.01 | 0.22 | 0.1 | surface | Negative | 0.22 | 9:31:05 |
| 28-Mar-19 | 47 | Lead Paint I | 6.04 | 0.06 | 0.06 | | Negative | 0.06 | 9:32:35 |
| 28-Mar-19 | 48 | Lead Paint I | 6.08 | 0.02 | 0.03 | | Negative | 0.02 | 9:32:55 |
| 28-Mar-19 | 49 | Lead Paint I | 6.06 | 0.04 | 0.06 | | Negative | 0.04 | 9:33:13 |
| 28-Mar-19 | 50 | Lead Paint I | 5.16 | 0 | 0 | | Negative | 0 | 9:33:38 |
| 28-Mar-19 | 51 | Lead Paint I | 5.91 | 0.51 | 0.11 | surface | Negative | 0.51 | 9:35:58 |
| 28-Mar-19 | 52 | Lead Paint I | 5.86 | 0.68 | 0.15 | surface | Negative | 0.68 | 9:37:30 |
| 28-Mar-19 | 53 | Lead Paint I | 5.89 | 0.43 | 0.11 | surface | Negative | 0.43 | 9:38:42 |
| 28-Mar-19 | 54 | Lead Paint I | 11.09 | 0.87 | 0.11 | surface | Negative | 0.87 | 9:39:41 |
| 28-Mar-19 | 55 | Lead Paint I | 6.07 | 0.38 | 0.08 | surface | Negative | 0.38 | 9:41:05 |
| 28-Mar-19 | 56 | Lead Paint I | 5.02 | 0.41 | 0.1 | surface | Negative | 0.41 | 9:43:22 |
| 28-Mar-19 | 57 | Lead Paint I | 5.03 | 0 | 0 | | Negative | 0 | 9:44:46 |

| | | | | | | | | | |
|-----------|-----|--------------|-------|--------|--------------|----------|------|------|----------|
| 28-Mar-19 | 58 | Lead Paint I | 5.26 | 0 | 0 | Negative | 0 | 0 | 9:45:10 |
| 28-Mar-19 | 59 | Lead Paint I | 5.24 | 0 | 0 | Negative | 0 | 0 | 9:45:31 |
| 28-Mar-19 | 60 | Lead Paint I | 5.22 | 0 | 0 | Negative | 0 | 0 | 9:45:49 |
| 28-Mar-19 | 61 | Lead Paint I | 12.15 | 0.17 | 0.19 | Negative | 0.17 | 0.09 | 9:50:11 |
| 28-Mar-19 | 62 | Lead Paint I | 20.1 | 0.11 | 0.18 | Negative | 0.11 | 0.09 | 9:51:14 |
| 28-Mar-19 | 63 | Lead Paint I | 25.04 | 0.06 | 0.05 surface | Negative | 0.06 | 0.03 | 9:51:49 |
| 28-Mar-19 | 64 | Lead Paint I | 22.48 | 0.35 | 0.3 | Negative | 0.35 | 0.15 | 9:54:15 |
| 28-Mar-19 | 65 | Lead Paint I | 5.82 | 0 | 0 | Negative | 0 | 0 | 9:55:14 |
| 28-Mar-19 | 66 | Lead Paint I | 5.23 | 0.08 | 0.13 | Negative | 0.08 | 0.06 | 9:57:22 |
| 28-Mar-19 | 67 | Lead Paint I | 5.05 | 0.04 | 0.05 | Negative | 0.04 | 0.02 | 9:58:25 |
| 28-Mar-19 | 68 | Lead Paint I | 5.62 | 0 | 0 | Negative | 0 | 0 | 9:58:56 |
| 28-Mar-19 | 69 | Lead Paint I | 6.16 | 0.14 | 0.13 surface | Negative | 0.14 | 0.06 | 10:02:53 |
| 28-Mar-19 | 70 | Lead Paint I | 5.04 | 0.08 | 0.08 surface | Negative | 0.08 | 0.04 | 10:03:26 |
| 28-Mar-19 | 71 | Lead Paint I | 5.97 | 0.13 | 0.16 | Negative | 0.13 | 0.08 | 10:03:45 |
| 28-Mar-19 | 72 | Lead Paint I | 24.88 | 0.07 | 0.06 surface | Negative | 0.07 | 0.03 | 10:05:29 |
| 28-Mar-19 | 73 | Lead Paint I | 25.15 | 0.1 | 0.14 | Negative | 0.1 | 0.07 | 10:06:42 |
| 28-Mar-19 | 74 | Lead Paint I | 9.95 | 0.15 | 0.2 | Negative | 0.15 | 0.1 | 10:07:37 |
| 28-Mar-19 | 75 | Lead Paint I | 5.21 | 0 | 0 | Negative | 0 | 0 | 10:08:00 |
| 28-Mar-19 | 76 | Lead Paint I | 5.05 | 0.02 | 0.06 | Negative | 0.02 | 0.03 | 10:08:22 |
| 28-Mar-19 | 77 | Lead Paint I | 26.86 | 0.16 | 0.05 surface | Negative | 0.16 | 0.03 | 10:08:41 |
| 28-Mar-19 | 78 | Lead Paint I | 6.05 | 0.02 | 0.04 | Negative | 0.02 | 0.02 | 10:09:28 |
| 28-Mar-19 | 79 | Lead Paint I | 5.3 | 0.13 | 0.17 | Negative | 0.13 | 0.08 | 10:09:48 |
| 28-Mar-19 | 80 | Lead Paint I | 6.08 | 0 | 0 | Negative | 0 | 0 | 10:10:15 |
| 28-Mar-19 | 81 | Lead Paint I | 7.73 | 0.14 | 0.13 surface | Negative | 0.14 | 0.07 | 10:10:30 |
| 28-Mar-19 | 82 | Lead Paint I | 5.12 | 0.36 | 0.52 | Negative | 0.36 | 0.26 | 10:10:50 |
| 28-Mar-19 | 83 | Lead Paint I | 5.04 | 0.03 | 0.06 | Negative | 0.03 | 0.03 | 10:11:14 |
| 28-Mar-19 | 84 | Lead Paint I | 5.07 | 0.03 | 0.05 | Negative | 0.03 | 0.03 | 10:11:42 |
| 28-Mar-19 | 85 | Lead Paint I | 5.14 | 0.16 | 0.38 | Negative | 0.16 | 0.19 | 10:12:02 |
| 28-Mar-19 | 86 | Lead Paint I | 6.37 | 0 | 0.01 | Negative | 0 | 0 | 10:12:30 |
| 28-Mar-19 | 87 | Lead Paint I | 5.21 | 0.03 | 0.06 | Negative | 0.03 | 0.03 | 10:12:48 |
| 28-Mar-19 | 88 | Lead Paint I | 25.04 | 0.04 | 0.09 | Negative | 0.04 | 0.04 | 10:13:07 |
| 28-Mar-19 | 89 | Lead Paint I | 5.04 | 0.05 | 0.13 | Negative | 0.05 | 0.06 | 10:13:47 |
| 28-Mar-19 | 90 | Lead Paint I | 5.26 | 0.15 | 0.21 | Negative | 0.15 | 0.1 | 10:14:04 |
| 28-Mar-19 | 91 | Lead Paint I | 5.91 | 0 | 0.02 | Negative | 0 | 0.01 | 10:14:23 |
| 28-Mar-19 | 92 | Lead Paint I | 17.21 | 0.21 | 0.11 surface | Negative | 0.21 | 0.06 | 10:14:43 |
| 28-Mar-19 | 93 | Lead Paint I | 5.1 | 0 | 0 | Negative | 0 | 0 | 10:15:22 |
| 28-Mar-19 | 94 | Lead Paint I | 5.1 | 0 | 0 | Negative | 0 | 0 | 10:15:43 |
| 28-Mar-19 | 95 | Lead Paint I | 5.18 | 0 | 0 | Negative | 0 | 0 | 10:15:59 |
| 28-Mar-19 | 96 | Lead Paint I | 19.66 | > 1.00 | 0.01 | Positive | 1 | 0.01 | 10:16:31 |
| 28-Mar-19 | 97 | Lead Paint I | 5.81 | > 1.00 | 0.02 | Positive | 1 | 0.01 | 10:17:19 |
| 28-Mar-19 | 98 | Lead Paint I | 19.51 | > 1.00 | 0.01 | Positive | 1 | 0 | 10:17:50 |
| 28-Mar-19 | 99 | Lead Paint I | 5.2 | 0.01 | 0.01 | Negative | 0.01 | 0 | 10:18:44 |
| 28-Mar-19 | 100 | Lead Paint I | 24.71 | 0.06 | 0.04 surface | Negative | 0.06 | 0.02 | 10:19:20 |
| 28-Mar-19 | 101 | Lead Paint I | 6.3 | 0 | 0.01 | Negative | 0 | 0 | 10:20:08 |
| 28-Mar-19 | 102 | Lead Paint I | 24.7 | 0.03 | 0.09 | Negative | 0.03 | 0.05 | 10:20:35 |
| 28-Mar-19 | 103 | Lead Paint I | 12.27 | 0.11 | 0.25 | Negative | 0.11 | 0.12 | 10:21:35 |
| 28-Mar-19 | 104 | Lead Paint I | 5.91 | 0 | 0 | Negative | 0 | 0 | 10:26:00 |
| 28-Mar-19 | 105 | Lead Paint I | 25.53 | 0.06 | 0.03 surface | Negative | 0.06 | 0.01 | 10:26:18 |
| 28-Mar-19 | 106 | Lead Paint I | 5.79 | 0 | 0 | Negative | 0 | 0 | 10:27:01 |
| 28-Mar-19 | 107 | Lead Paint I | 9.89 | 0.17 | 0.13 surface | Negative | 0.17 | 0.07 | 10:27:25 |
| 28-Mar-19 | 108 | Lead Paint I | 5.14 | 0 | 0 | Negative | 0 | 0 | 10:27:52 |
| 28-Mar-19 | 109 | Lead Paint I | 5.14 | 0 | 0 | Negative | 0 | 0 | 10:28:17 |
| 28-Mar-19 | 110 | Lead Paint I | 6.15 | 0 | 0 | Negative | 0 | 0 | 10:28:36 |
| 28-Mar-19 | 111 | Lead Paint I | 5.08 | 0.02 | 0.04 | Negative | 0.02 | 0.02 | 10:29:14 |
| 28-Mar-19 | 112 | Lead Paint I | 5.08 | 0.16 | 0.49 | Negative | 0.16 | 0.24 | 10:29:50 |
| 28-Mar-19 | 113 | Lead Paint I | 5.07 | 0.09 | 0.16 | Negative | 0.09 | 0.08 | 10:30:14 |
| 28-Mar-19 | 114 | Lead Paint I | 5.13 | 0.09 | 0.19 | Negative | 0.09 | 0.09 | 10:30:45 |
| 28-Mar-19 | 115 | Lead Paint I | 6.19 | 0.08 | 0.06 surface | Negative | 0.08 | 0.03 | 10:31:18 |

| | | | | | | | | | |
|-----------|-----|--------------|-------|----------|--------------|--------------|------|------|----------|
| 28-Mar-19 | 116 | Lead Paint I | 24.95 | 0.07 | 0.03 surface | Negative | 0.07 | 0.02 | 10:31:49 |
| 28-Mar-19 | 117 | Lead Paint I | 25.06 | 0.1 | 0.04 surface | Negative | 0.1 | 0.02 | 10:32:35 |
| 28-Mar-19 | 118 | Lead Paint I | 14.42 | 0.13 | 0.06 surface | Negative | 0.13 | 0.03 | 10:33:24 |
| 28-Mar-19 | 119 | Lead Paint I | 5.22 | 0.06 | 0.05 surface | Negative | 0.06 | 0.03 | 10:33:53 |
| 28-Mar-19 | 120 | Lead Paint I | 5.04 | 0 | 0.01 | Negative | 0 | 0 | 10:34:12 |
| 28-Mar-19 | 121 | Lead Paint I | 5.49 | 0.06 | 0.04 surface | Negative | 0.06 | 0.02 | 10:34:29 |
| 28-Mar-19 | 122 | Lead Paint I | 5.72 | 0.05 | 0.04 surface | Negative | 0.05 | 0.02 | 10:34:46 |
| 28-Mar-19 | 123 | Lead Paint I | 6.09 | 0.04 | 0.03 surface | Negative | 0.04 | 0.02 | 10:35:07 |
| 28-Mar-19 | 124 | Lead Paint I | 6.07 | 0.11 | 0.08 surface | Negative | 0.11 | 0.04 | 10:35:34 |
| 28-Mar-19 | 125 | Lead Paint I | 6.09 | 0.08 | 0.06 surface | Negative | 0.08 | 0.03 | 10:35:56 |
| 28-Mar-19 | 126 | Lead Paint I | 5.03 | 0.06 | 0.05 surface | Negative | 0.06 | 0.03 | 10:36:15 |
| 28-Mar-19 | 127 | Lead Paint I | 3.89 | > 1.00 | 0.18 | Positive | 1 | 0.09 | 10:36:32 |
| 28-Mar-19 | 128 | Lead Paint I | 6.45 | > 1.00 | 0.08 | Positive | 1 | 0.04 | 10:37:16 |
| 28-Mar-19 | 129 | Lead Paint I | 9.74 | 0.11 | 0.06 | Negative | 0.11 | 0.03 | 10:37:48 |
| 28-Mar-19 | 130 | Lead Paint I | 2.95 | 0.13 | 0.14 | Negative | 0.13 | 0.07 | 10:38:20 |
| 28-Mar-19 | 131 | Lead Paint I | 2.9 | 0.07 | 0.09 | Negative | 0.07 | 0.05 | 10:38:45 |
| 28-Mar-19 | 132 | Lead Paint I | 5.02 | 0.01 | 0.06 | Negative | 0.01 | 0.03 | 10:39:08 |
| 28-Mar-19 | 133 | Lead Paint I | 5.37 | 0.13 | 0.09 surface | Negative | 0.13 | 0.05 | 10:39:25 |
| 28-Mar-19 | 134 | Lead Paint I | 5.95 | 0.04 | 0.04 surface | Negative | 0.04 | 0.02 | 10:39:48 |
| 28-Mar-19 | 135 | Lead Paint I | 6.1 | 0.08 | 0.05 surface | Negative | 0.08 | 0.02 | 10:40:09 |
| 28-Mar-19 | 136 | Lead Paint I | 5.02 | 0.12 | 0.08 surface | Negative | 0.12 | 0.04 | 10:40:35 |
| 28-Mar-19 | 137 | Lead Paint I | 6.1 | 0.08 | 0.05 surface | Negative | 0.08 | 0.02 | 10:41:15 |
| 28-Mar-19 | 138 | Lead Paint I | 6.08 | 0.07 | 0.04 surface | Negative | 0.07 | 0.02 | 10:41:40 |
| 28-Mar-19 | 139 | Lead Paint I | 5.14 | 0 | 0.01 | Negative | 0 | 0 | 10:43:18 |
| 28-Mar-19 | 140 | Lead Paint I | 5.25 | 0.15 | 0.39 | Negative | 0.15 | 0.19 | 10:43:36 |
| 28-Mar-19 | 141 | Lead Paint I | 21.19 | 0.04 | 0.05 | Negative | 0.04 | 0.03 | 10:43:55 |
| 28-Mar-19 | 142 | Lead Paint I | 24.59 | 0.05 | 0.05 | Negative | 0.05 | 0.02 | 10:45:56 |
| 28-Mar-19 | 143 | Lead Paint I | 5.31 | 0 | 0 | Negative | 0 | 0 | 10:46:48 |
| 28-Mar-19 | 144 | Lead Paint I | 5.06 | 0 | 0 | Negative | 0 | 0 | 10:47:17 |
| 28-Mar-19 | 145 | Lead Paint I | 5.14 | 0 | 0 | Negative | 0 | 0 | 10:47:34 |
| 28-Mar-19 | 146 | Lead Paint I | 5.21 | 0 | 0 | Negative | 0 | 0 | 10:47:48 |
| 28-Mar-19 | 147 | Lead Paint I | 5.78 | 0 | 0 | Negative | 0 | 0 | 10:48:10 |
| 28-Mar-19 | 148 | Lead Paint I | 5.41 | 0.09 | 0.08 surface | Negative | 0.09 | 0.04 | 10:48:26 |
| 28-Mar-19 | 149 | Lead Paint I | 5.82 | 0.04 | 0.13 | Negative | 0.04 | 0.06 | 10:48:46 |
| 28-Mar-19 | 150 | Lead Paint I | 5.11 | 0.11 | 0.1 surface | Negative | 0.11 | 0.05 | 10:49:07 |
| 28-Mar-19 | 151 | Lead Paint I | 5.94 | 0.14 | 0.13 surface | Negative | 0.14 | 0.06 | 10:49:41 |
| 28-Mar-19 | 152 | Lead Paint I | 5.07 | 0.08 | 0.09 | Negative | 0.08 | 0.05 | 10:50:11 |
| 28-Mar-19 | 153 | Standardiza | 26.45 | 0.019717 | 228 | -0.0307 PASS | | | 10:53:54 |
| 28-Mar-19 | 154 | Lead Paint I | 5.37 | 0 | 0 | Negative | 0 | 0 | 10:58:25 |
| 28-Mar-19 | 155 | Lead Paint I | 5.09 | 0.05 | 0.08 | Negative | 0.05 | 0.04 | 11:01:02 |
| 28-Mar-19 | 156 | Lead Paint I | 5.05 | 0.07 | 0.1 | Negative | 0.07 | 0.05 | 11:01:25 |
| 28-Mar-19 | 157 | Lead Paint I | 19.1 | 0.1 | 0.04 surface | Negative | 0.1 | 0.02 | 11:01:54 |
| 28-Mar-19 | 158 | Lead Paint I | 5.19 | 0.19 | 0.12 surface | Negative | 0.19 | 0.06 | 11:02:28 |
| 28-Mar-19 | 159 | Lead Paint I | 6.06 | 0 | 0 | Negative | 0 | 0 | 11:02:56 |
| 28-Mar-19 | 160 | Lead Paint I | 5.15 | 0.28 | 0.25 surface | Negative | 0.28 | 0.12 | 11:03:13 |
| 28-Mar-19 | 161 | Lead Paint I | 5.3 | 0.11 | 0.08 | Negative | 0.11 | 0.04 | 11:03:35 |
| 28-Mar-19 | 162 | Lead Paint I | 6.1 | 0 | 0 | Negative | 0 | 0 | 11:04:07 |
| 28-Mar-19 | 163 | Lead Paint I | 5.37 | 0.11 | 0.09 surface | Negative | 0.11 | 0.05 | 11:04:25 |
| 28-Mar-19 | 164 | Lead Paint I | 6.05 | 0.1 | 0.07 surface | Negative | 0.1 | 0.03 | 11:05:00 |
| 28-Mar-19 | 165 | Lead Paint I | 5.03 | 0.06 | 0.06 | Negative | 0.06 | 0.03 | 11:05:19 |
| 28-Mar-19 | 166 | Lead Paint I | 5 | 0.07 | 0.06 surface | Negative | 0.07 | 0.03 | 11:06:02 |
| 28-Mar-19 | 167 | Lead Paint I | 5.01 | 0.06 | 0.05 surface | Negative | 0.06 | 0.03 | 11:06:36 |
| 28-Mar-19 | 168 | Lead Paint I | 5.07 | 0.05 | 0.04 surface | Negative | 0.05 | 0.02 | 11:07:16 |
| 28-Mar-19 | 169 | Lead Paint I | 5.92 | 0.03 | 0.03 | Negative | 0.03 | 0.01 | 11:07:37 |
| 28-Mar-19 | 170 | Lead Paint I | 5.77 | 0 | 0 | Negative | 0 | 0 | 11:08:52 |
| 28-Mar-19 | 171 | Lead Paint I | 5.17 | 0 | 0 | Negative | 0 | 0 | 11:09:13 |
| 28-Mar-19 | 172 | Lead Paint I | 5.93 | 0 | 0.01 | Negative | 0 | 0 | 11:09:34 |
| 28-Mar-19 | 173 | Lead Paint I | 5.16 | 0 | 0 | Negative | 0 | 0 | 11:10:03 |

| | | | | | | | | | |
|-----------|-----|--------------|-------|--------|--------------|----------|------|------|----------|
| 28-Mar-19 | 174 | Lead Paint I | 5.15 | 0 | 0 | Negative | 0 | 0 | 11:10:20 |
| 28-Mar-19 | 175 | Lead Paint I | 5.16 | 0 | 0 | Negative | 0 | 0 | 11:11:38 |
| 28-Mar-19 | 176 | Lead Paint I | 5.19 | 0 | 0 | Negative | 0 | 0 | 11:11:57 |
| 28-Mar-19 | 177 | Lead Paint I | 25.07 | > 1.00 | 0.19 | Positive | 1 | 0.1 | 11:12:15 |
| 28-Mar-19 | 178 | Lead Paint I | 5.23 | > 1.68 | 0.62 surface | Positive | 1.68 | 0.31 | 11:13:13 |
| 28-Mar-19 | 179 | Lead Paint I | 12.2 | > 1.90 | 0.86 surface | Positive | 1.9 | 0.43 | 11:13:38 |
| 28-Mar-19 | 180 | Lead Paint I | 7.51 | > 1.44 | 0.42 surface | Positive | 1.44 | 0.21 | 11:14:14 |
| 28-Mar-19 | 181 | Lead Paint I | 5.27 | 0 | 0.02 | Negative | 0 | 0.01 | 11:14:36 |
| 28-Mar-19 | 182 | Lead Paint I | 5.14 | 2.25 | 0.71 surface | Positive | 2.25 | 0.35 | 11:15:01 |
| 28-Mar-19 | 183 | Lead Paint I | 6.35 | 2.28 | 1.09 surface | Positive | 2.28 | 0.54 | 11:15:18 |
| 28-Mar-19 | 184 | Lead Paint I | 6.03 | 0 | 0.01 | Negative | 0 | 0 | 11:15:44 |
| 28-Mar-19 | 185 | Lead Paint I | 7.57 | > 1.91 | 0.85 surface | Positive | 1.91 | 0.43 | 11:16:13 |
| 28-Mar-19 | 186 | Lead Paint I | 15.81 | > 1.31 | 0.29 surface | Positive | 1.31 | 0.15 | 11:16:33 |
| 28-Mar-19 | 187 | Lead Paint I | 5.2 | > 2.07 | 0.95 surface | Positive | 2.07 | 0.48 | 11:17:13 |
| 28-Mar-19 | 188 | Lead Paint I | 5.84 | 0 | 0 | Negative | 0 | 0 | 11:17:37 |
| 28-Mar-19 | 189 | Lead Paint I | 5.05 | 0 | 0 | Negative | 0 | 0 | 11:17:54 |
| 28-Mar-19 | 190 | Lead Paint I | 6.02 | 0 | 0.01 | Negative | 0 | 0 | 11:18:14 |
| 28-Mar-19 | 191 | Lead Paint I | 5.15 | 0 | 0 | Negative | 0 | 0 | 11:18:34 |
| 28-Mar-19 | 192 | Lead Paint I | 5.19 | 0 | 0 | Negative | 0 | 0 | 11:18:52 |
| 28-Mar-19 | 193 | Lead Paint I | 5.17 | 0 | 0 | Negative | 0 | 0 | 11:19:10 |
| 28-Mar-19 | 194 | Lead Paint I | 5.18 | 0 | 0 | Negative | 0 | 0 | 11:19:34 |
| 28-Mar-19 | 195 | Lead Paint I | 5.17 | 0 | 0 | Negative | 0 | 0 | 11:19:54 |
| 28-Mar-19 | 196 | Lead Paint I | 5.11 | 0 | 0 | Negative | 0 | 0 | 11:20:15 |
| 28-Mar-19 | 197 | Lead Paint I | 20.36 | 0.02 | 0.03 | Negative | 0.02 | 0.02 | 11:20:33 |
| 28-Mar-19 | 198 | Lead Paint I | 8.77 | 0.09 | 0.11 | Negative | 0.09 | 0.06 | 11:21:20 |
| 28-Mar-19 | 199 | Lead Paint I | 24.56 | > 1.00 | 0.01 | Positive | 1 | 0.01 | 11:21:53 |
| 28-Mar-19 | 200 | Lead Paint I | 17.69 | 0.03 | 0.03 | Negative | 0.03 | 0.01 | 11:22:51 |
| 28-Mar-19 | 201 | Lead Paint I | 5.9 | 0 | 0.02 | Negative | 0 | 0.01 | 11:23:34 |
| 28-Mar-19 | 202 | Lead Paint I | 8.52 | 1.34 | 0.34 surface | Positive | 1.34 | 0.17 | 11:23:50 |
| 28-Mar-19 | 203 | Lead Paint I | 6.28 | 1.88 | 0.76 surface | Positive | 1.88 | 0.38 | 11:24:25 |
| 28-Mar-19 | 204 | Lead Paint I | 9.41 | 0.44 | 0.51 | Negative | 0.44 | 0.26 | 11:24:50 |
| 28-Mar-19 | 205 | Lead Paint I | 5.15 | 0.24 | 0.54 | Negative | 0.24 | 0.27 | 11:28:08 |
| 28-Mar-19 | 206 | Lead Paint I | 7.62 | 0.27 | 0.44 | Negative | 0.27 | 0.22 | 11:29:22 |
| 28-Mar-19 | 207 | Lead Paint I | 20.23 | 0.38 | 0.37 | Negative | 0.38 | 0.19 | 11:29:46 |
| 28-Mar-19 | 208 | Lead Paint I | 5.19 | 0 | 0 | Negative | 0 | 0 | 11:30:22 |
| 28-Mar-19 | 209 | Lead Paint I | 5.26 | 0 | 0 | Negative | 0 | 0 | 11:30:39 |
| 28-Mar-19 | 210 | Lead Paint I | 5.06 | 0 | 0 | Negative | 0 | 0 | 11:30:56 |
| 28-Mar-19 | 211 | Lead Paint I | 10.81 | 0.09 | 0.08 surface | Negative | 0.09 | 0.04 | 11:31:13 |
| 28-Mar-19 | 212 | Lead Paint I | 5.36 | 0 | 0 | Negative | 0 | 0 | 11:31:42 |
| 28-Mar-19 | 213 | Lead Paint I | 25.35 | 0.87 | 0.43 surface | Negative | 0.87 | 0.21 | 11:32:03 |
| 28-Mar-19 | 214 | Lead Paint I | 5.66 | 0 | 0 | Negative | 0 | 0 | 11:33:10 |
| 28-Mar-19 | 215 | Lead Paint I | 5.82 | 0 | 0 | Negative | 0 | 0 | 11:33:28 |
| 28-Mar-19 | 216 | Lead Paint I | 5.69 | 0 | 0.01 | Negative | 0 | 0 | 11:33:49 |
| 28-Mar-19 | 217 | Lead Paint I | 5.34 | > 1.00 | 0.02 | Positive | 1 | 0.01 | 11:34:11 |
| 28-Mar-19 | 218 | Lead Paint I | 5.28 | 0.18 | 0.47 | Negative | 0.18 | 0.24 | 11:34:44 |
| 28-Mar-19 | 219 | Lead Paint I | 24.09 | 0.4 | 0.29 surface | Negative | 0.4 | 0.14 | 11:35:02 |
| 28-Mar-19 | 220 | Lead Paint I | 25.11 | 0.63 | 0.49 | Negative | 0.63 | 0.24 | 11:35:47 |
| 28-Mar-19 | 221 | Lead Paint I | 9.86 | 0.49 | 0.49 | Negative | 0.49 | 0.25 | 11:36:32 |
| 28-Mar-19 | 222 | Lead Paint I | 5.18 | 0.1 | 0.15 | Negative | 0.1 | 0.08 | 11:36:53 |
| 28-Mar-19 | 223 | Lead Paint I | 5.18 | 0 | 0 | Negative | 0 | 0 | 11:37:19 |
| 28-Mar-19 | 224 | Lead Paint I | 5.23 | 0 | 0 | Negative | 0 | 0 | 11:37:36 |
| 28-Mar-19 | 225 | Lead Paint I | 6.11 | 0 | 0 | Negative | 0 | 0 | 11:37:53 |
| 28-Mar-19 | 226 | Lead Paint I | 5.06 | 0 | 0.01 | Negative | 0 | 0 | 11:38:28 |
| 28-Mar-19 | 227 | Lead Paint I | 5.17 | 0 | 0 | Negative | 0 | 0 | 11:38:45 |
| 28-Mar-19 | 228 | Lead Paint I | 5.12 | 0 | 0 | Negative | 0 | 0 | 11:39:02 |
| 28-Mar-19 | 229 | Lead Paint I | 24.39 | 0.75 | 0.37 surface | Negative | 0.75 | 0.19 | 11:39:36 |
| 28-Mar-19 | 230 | Lead Paint I | 5.23 | 0.13 | 0.4 | Negative | 0.13 | 0.2 | 11:40:19 |
| 28-Mar-19 | 231 | Lead Paint I | 5.99 | 0 | 0 | Negative | 0 | 0 | 11:40:38 |

| | | | | | | | | | |
|-----------|-----|--------------|-------|--------|--------------|----------|------|------|----------|
| 28-Mar-19 | 232 | Lead Paint I | 5.28 | 0.11 | 0.3 | Negative | 0.11 | 0.15 | 11:40:56 |
| 28-Mar-19 | 233 | Lead Paint I | 5.15 | 0.05 | 0.12 | Negative | 0.05 | 0.06 | 11:41:21 |
| 28-Mar-19 | 234 | Lead Paint I | 5.02 | 0.3 | 0.62 | Negative | 0.3 | 0.31 | 11:41:40 |
| 28-Mar-19 | 235 | Lead Paint I | 5.1 | 0.03 | 0.07 | Negative | 0.03 | 0.03 | 11:42:05 |
| 28-Mar-19 | 236 | Lead Paint I | 7.46 | 0.27 | 0.47 | Negative | 0.27 | 0.24 | 11:42:22 |
| 28-Mar-19 | 237 | Lead Paint I | 5.25 | 0.08 | 0.07 surface | Negative | 0.08 | 0.04 | 11:42:52 |
| 28-Mar-19 | 238 | Lead Paint I | 5.23 | 0.42 | 0.35 surface | Negative | 0.42 | 0.18 | 11:43:10 |
| 28-Mar-19 | 239 | Lead Paint I | 24.96 | 0.21 | 0.07 surface | Negative | 0.21 | 0.03 | 11:43:26 |
| 28-Mar-19 | 240 | Lead Paint I | 6.42 | 0.22 | 0.12 surface | Negative | 0.22 | 0.06 | 11:44:10 |
| 28-Mar-19 | 241 | Lead Paint I | 24.45 | 0.28 | 0.08 surface | Negative | 0.28 | 0.04 | 11:44:37 |
| 28-Mar-19 | 242 | Lead Paint I | 5.17 | 0.01 | 0.03 | Negative | 0.01 | 0.02 | 11:45:23 |
| 28-Mar-19 | 243 | Lead Paint I | 17.3 | > 1.00 | 0.11 | Positive | 1 | 0.05 | 11:45:40 |
| 28-Mar-19 | 244 | Lead Paint I | 5.94 | 0 | 0 | Negative | 0 | 0 | 11:46:16 |
| 28-Mar-19 | 245 | Lead Paint I | 5.13 | 0.09 | 0.15 | Negative | 0.09 | 0.07 | 11:46:37 |
| 28-Mar-19 | 246 | Lead Paint I | 5.03 | 0.07 | 0.07 surface | Negative | 0.07 | 0.04 | 11:47:15 |
| 28-Mar-19 | 247 | Lead Paint I | 5.08 | 0.17 | 0.13 surface | Negative | 0.17 | 0.06 | 11:48:38 |
| 28-Mar-19 | 248 | Lead Paint I | 6.09 | 0.16 | 0.37 | Negative | 0.16 | 0.18 | 11:49:07 |
| 28-Mar-19 | 249 | Lead Paint I | 5.08 | 0.2 | 0.12 surface | Negative | 0.2 | 0.06 | 11:49:41 |
| 28-Mar-19 | 250 | Lead Paint I | 5 | 0 | 0 | Negative | 0 | 0 | 11:50:26 |
| 28-Mar-19 | 251 | Lead Paint I | 25.03 | 0.02 | 0.03 | Negative | 0.02 | 0.02 | 11:50:42 |
| 28-Mar-19 | 252 | Lead Paint I | 5.16 | 0 | 0.01 | Negative | 0 | 0.01 | 11:51:26 |
| 28-Mar-19 | 253 | Lead Paint I | 5.13 | 0 | 0.03 | Negative | 0 | 0.01 | 11:51:42 |
| 28-Mar-19 | 254 | Lead Paint I | 5.1 | 0 | 0 | Negative | 0 | 0 | 11:51:57 |
| 28-Mar-19 | 255 | Lead Paint I | 5.06 | 0 | 0.02 | Negative | 0 | 0.01 | 11:52:17 |
| 28-Mar-19 | 256 | Lead Paint I | 7.77 | 0.11 | 0.09 surface | Negative | 0.11 | 0.04 | 11:52:33 |
| 28-Mar-19 | 257 | Lead Paint I | 5.94 | 0.53 | 0.16 surface | Negative | 0.53 | 0.08 | 11:52:53 |
| 28-Mar-19 | 258 | Lead Paint I | 5.98 | 0.08 | 0.08 | Negative | 0.08 | 0.04 | 11:53:33 |
| 28-Mar-19 | 259 | Lead Paint I | 5.01 | 0 | 0.02 | Negative | 0 | 0.01 | 11:53:51 |
| 28-Mar-19 | 260 | Lead Paint I | 5.05 | 0.1 | 0.1 | Negative | 0.1 | 0.05 | 11:54:10 |
| 28-Mar-19 | 261 | Lead Paint I | 5.92 | 0.23 | 0.07 surface | Negative | 0.23 | 0.04 | 11:54:27 |
| 28-Mar-19 | 262 | Lead Paint I | 6 | 0.3 | 0.12 surface | Negative | 0.3 | 0.06 | 11:54:47 |
| 28-Mar-19 | 263 | Lead Paint I | 5.91 | 0.37 | 0.1 surface | Negative | 0.37 | 0.05 | 11:55:05 |
| 28-Mar-19 | 264 | Lead Paint I | 5.14 | 0.63 | 0.18 surface | Negative | 0.63 | 0.09 | 11:55:40 |
| 28-Mar-19 | 265 | Lead Paint I | 5.17 | 0.64 | 0.17 surface | Negative | 0.64 | 0.09 | 11:56:20 |
| 28-Mar-19 | 266 | Lead Paint I | 5.2 | > 1.00 | 0.07 | Positive | 1 | 0.03 | 11:56:44 |
| 28-Mar-19 | 267 | Lead Paint I | 12.21 | 0.11 | 0.04 surface | Negative | 0.11 | 0.02 | 11:57:07 |
| 28-Mar-19 | 268 | Lead Paint I | 5.19 | 0 | 0 | Negative | 0 | 0 | 11:57:40 |
| 28-Mar-19 | 269 | Lead Paint I | 5.16 | 0 | 0 | Negative | 0 | 0 | 11:57:58 |
| 28-Mar-19 | 270 | Lead Paint I | 5.18 | 0 | 0 | Negative | 0 | 0 | 11:58:18 |
| 28-Mar-19 | 271 | Lead Paint I | 25.03 | 0.32 | 0.25 surface | Negative | 0.32 | 0.12 | 11:59:09 |
| 28-Mar-19 | 272 | Lead Paint I | 7.06 | 0 | 0.01 | Negative | 0 | 0 | 11:59:54 |
| 28-Mar-19 | 273 | Lead Paint I | 18.17 | 0.05 | 0.06 | Negative | 0.05 | 0.03 | 12:00:14 |
| 28-Mar-19 | 274 | Lead Paint I | 25.01 | 0.15 | 0.11 surface | Negative | 0.15 | 0.06 | 12:00:46 |
| 28-Mar-19 | 275 | Lead Paint I | 5.77 | 0.02 | 0.04 | Negative | 0.02 | 0.02 | 12:01:27 |
| 28-Mar-19 | 276 | Lead Paint I | 5.08 | 0.13 | 0.21 | Negative | 0.13 | 0.1 | 12:01:48 |
| 28-Mar-19 | 277 | Lead Paint I | 5.13 | 0.06 | 0.08 | Negative | 0.06 | 0.04 | 12:02:07 |
| 28-Mar-19 | 278 | Lead Paint I | 5.76 | 0 | 0 | Negative | 0 | 0 | 12:02:25 |
| 28-Mar-19 | 279 | Lead Paint I | 5.06 | 0.11 | 0.15 | Negative | 0.11 | 0.08 | 12:02:45 |
| 28-Mar-19 | 280 | Lead Paint I | 5.51 | 0 | 0 | Negative | 0 | 0 | 12:03:07 |
| 28-Mar-19 | 281 | Lead Paint I | 5.15 | 0.11 | 0.14 | Negative | 0.11 | 0.07 | 12:03:26 |
| 28-Mar-19 | 282 | Lead Paint I | 5.03 | 0.16 | 0.19 | Negative | 0.16 | 0.1 | 12:03:45 |
| 28-Mar-19 | 283 | Lead Paint I | 5.09 | 0.04 | 0.06 | Negative | 0.04 | 0.03 | 12:04:04 |
| 28-Mar-19 | 284 | Lead Paint I | 10.98 | 0.05 | 0.19 | Negative | 0.05 | 0.1 | 12:04:30 |
| 28-Mar-19 | 285 | Lead Paint I | 5.05 | 0 | 0.01 | Negative | 0 | 0 | 12:04:53 |
| 28-Mar-19 | 286 | Lead Paint I | 21.75 | 0.07 | 0.07 | Negative | 0.07 | 0.04 | 12:05:09 |
| 28-Mar-19 | 287 | Lead Paint I | 25.11 | 0.07 | 0.07 | Negative | 0.07 | 0.03 | 12:05:45 |
| 28-Mar-19 | 288 | Lead Paint I | 5.04 | 0 | 0 | Negative | 0 | 0 | 12:06:26 |
| 28-Mar-19 | 289 | Lead Paint I | 7.45 | > 1.00 | 0.16 | Positive | 1 | 0.08 | 12:06:43 |

| | | | | | | | | | |
|-----------|-----|--------------|-------|--------|--------------|----------|------|------|----------|
| 28-Mar-19 | 290 | Lead Paint I | 5.16 | 0 | 0 | Negative | 0 | 0 | 12:07:09 |
| 28-Mar-19 | 291 | Lead Paint I | 8.93 | 0.11 | 0.13 | Negative | 0.11 | 0.07 | 12:07:26 |
| 28-Mar-19 | 292 | Lead Paint I | 5.96 | 0 | 0 | Negative | 0 | 0 | 12:07:50 |
| 28-Mar-19 | 293 | Lead Paint I | 12.18 | > 1.00 | 0.11 | Positive | 1 | 0.05 | 12:08:06 |
| 28-Mar-19 | 294 | Lead Paint I | 24.44 | 1.27 | 0.7 | Positive | 1.27 | 0.35 | 12:08:36 |
| 28-Mar-19 | 295 | Lead Paint I | 5.09 | 0.09 | 0.12 | Negative | 0.09 | 0.06 | 12:09:21 |
| 28-Mar-19 | 296 | Lead Paint I | 5.1 | 0.11 | 0.17 | Negative | 0.11 | 0.09 | 12:09:40 |
| 28-Mar-19 | 297 | Lead Paint I | 5.15 | 0.05 | 0.11 | Negative | 0.05 | 0.05 | 12:09:59 |
| 28-Mar-19 | 298 | Lead Paint I | 5.19 | 0.01 | 0.01 | Negative | 0.01 | 0 | 12:10:20 |
| 28-Mar-19 | 299 | Lead Paint I | 25 | 0.18 | 0.2 | Negative | 0.18 | 0.1 | 12:10:36 |
| 28-Mar-19 | 300 | Lead Paint I | 5.25 | 0 | 0 | Negative | 0 | 0 | 12:11:21 |
| 28-Mar-19 | 301 | Lead Paint I | 25.01 | 0.23 | 0.23 surface | Negative | 0.23 | 0.11 | 12:11:40 |
| 28-Mar-19 | 302 | Lead Paint I | 5.2 | 0 | 0 | Negative | 0 | 0 | 12:12:22 |
| 28-Mar-19 | 303 | Lead Paint I | 5.94 | 0 | 0 | Negative | 0 | 0 | 12:12:41 |
| 28-Mar-19 | 304 | Lead Paint I | 5.37 | 0.17 | 0.28 | Negative | 0.17 | 0.14 | 12:13:00 |
| 28-Mar-19 | 305 | Lead Paint I | 5.08 | 0 | 0 | Negative | 0 | 0 | 12:13:20 |
| 28-Mar-19 | 306 | Lead Paint I | 5.15 | 0 | 0 | Negative | 0 | 0 | 12:13:37 |
| 28-Mar-19 | 307 | Lead Paint I | 5.14 | 0 | 0 | Negative | 0 | 0 | 12:13:54 |
| 28-Mar-19 | 308 | Lead Paint I | 5.65 | > 1.00 | 0.04 | Positive | 1 | 0.02 | 12:14:11 |
| 28-Mar-19 | 309 | Lead Paint I | 15.29 | > 1.00 | 0.01 | Positive | 1 | 0.01 | 12:14:35 |
| 28-Mar-19 | 310 | Lead Paint I | 20.11 | > 1.00 | 0.01 | Positive | 1 | 0 | 12:15:18 |
| 28-Mar-19 | 311 | Lead Paint I | 25.12 | 0.1 | 0.08 surface | Negative | 0.1 | 0.04 | 12:16:11 |
| 28-Mar-19 | 312 | Lead Paint I | 25.16 | 0.09 | 0.1 | Negative | 0.09 | 0.05 | 12:16:53 |
| 28-Mar-19 | 313 | Lead Paint I | 14.15 | 0.08 | 0.09 | Negative | 0.08 | 0.04 | 12:17:39 |
| 28-Mar-19 | 314 | Lead Paint I | 5.19 | 0.04 | 0.06 | Negative | 0.04 | 0.03 | 12:18:11 |
| 28-Mar-19 | 315 | Lead Paint I | 11.07 | 0.33 | 0.45 | Negative | 0.33 | 0.22 | 12:18:28 |
| 28-Mar-19 | 316 | Lead Paint I | 6.01 | 0 | 0 | Negative | 0 | 0 | 12:18:54 |
| 28-Mar-19 | 317 | Lead Paint I | 11.26 | 0.05 | 0.05 surface | Negative | 0.05 | 0.02 | 12:19:13 |
| 28-Mar-19 | 318 | Lead Paint I | 5.77 | 0.01 | 0.06 | Negative | 0.01 | 0.03 | 12:19:41 |
| 28-Mar-19 | 319 | Lead Paint I | 5.33 | 0.13 | 0.21 | Negative | 0.13 | 0.1 | 12:20:02 |
| 28-Mar-19 | 320 | Lead Paint I | 5.12 | 0 | 0.01 | Negative | 0 | 0 | 12:20:37 |
| 28-Mar-19 | 321 | Lead Paint I | 5.21 | 0 | 0 | Negative | 0 | 0 | 12:21:00 |
| 28-Mar-19 | 322 | Lead Paint I | 5.15 | 0 | 0 | Negative | 0 | 0 | 12:21:20 |
| 28-Mar-19 | 323 | Lead Paint I | 5.12 | 0.1 | 0.16 | Negative | 0.1 | 0.08 | 12:21:45 |
| 28-Mar-19 | 324 | Lead Paint I | 8.52 | 0.25 | 0.43 | Negative | 0.25 | 0.21 | 12:22:08 |
| 28-Mar-19 | 325 | Lead Paint I | 5.13 | 0.1 | 0.14 | Negative | 0.1 | 0.07 | 12:23:03 |
| 28-Mar-19 | 326 | Lead Paint I | 5.09 | 0.12 | 0.18 | Negative | 0.12 | 0.09 | 12:23:27 |
| 28-Mar-19 | 327 | Lead Paint I | 24.94 | 0.11 | 0.05 surface | Negative | 0.11 | 0.03 | 12:23:45 |
| 28-Mar-19 | 328 | Lead Paint I | 24.98 | 0.21 | 0.09 surface | Negative | 0.21 | 0.04 | 12:24:28 |
| 28-Mar-19 | 329 | Lead Paint I | 24.69 | 0.12 | 0.04 surface | Negative | 0.12 | 0.02 | 12:25:10 |
| 28-Mar-19 | 330 | Lead Paint I | 10.75 | 0.11 | 0.1 surface | Negative | 0.11 | 0.05 | 12:25:53 |
| 28-Mar-19 | 331 | Lead Paint I | 5.16 | 0.16 | 0.13 surface | Negative | 0.16 | 0.06 | 12:26:17 |
| 28-Mar-19 | 332 | Lead Paint I | 5.08 | 0 | 0 | Negative | 0 | 0 | 12:26:37 |
| 28-Mar-19 | 333 | Lead Paint I | 5.28 | > 1.00 | 0.08 | Positive | 1 | 0.04 | 12:26:54 |
| 28-Mar-19 | 334 | Lead Paint I | 5.93 | 0.06 | 0.08 | Negative | 0.06 | 0.04 | 12:27:16 |
| 28-Mar-19 | 335 | Lead Paint I | 5.9 | 0.03 | 0.07 | Negative | 0.03 | 0.03 | 12:27:35 |
| 28-Mar-19 | 336 | Lead Paint I | 6.07 | 0.03 | 0.04 | Negative | 0.03 | 0.02 | 12:28:05 |
| 28-Mar-19 | 337 | Lead Paint I | 5.1 | 0.03 | 0.04 | Negative | 0.03 | 0.02 | 12:28:33 |
| 28-Mar-19 | 338 | Lead Paint I | 6.08 | 0.07 | 0.07 surface | Negative | 0.07 | 0.03 | 12:28:57 |
| 28-Mar-19 | 339 | Lead Paint I | 5.05 | 0.08 | 0.08 | Negative | 0.08 | 0.04 | 12:30:23 |
| 28-Mar-19 | 340 | Lead Paint I | 6.11 | 0 | 0 | Negative | 0 | 0 | 12:30:55 |
| 28-Mar-19 | 341 | Lead Paint I | 5.06 | 0 | 0 | Negative | 0 | 0 | 12:31:16 |
| 28-Mar-19 | 342 | Lead Paint I | 5.14 | 0 | 0 | Negative | 0 | 0 | 12:31:32 |
| 28-Mar-19 | 343 | Lead Paint I | 5.15 | 0 | 0 | Negative | 0 | 0 | 12:31:56 |
| 28-Mar-19 | 344 | Lead Paint I | 5 | 0 | 0 | Negative | 0 | 0 | 12:32:17 |
| 28-Mar-19 | 345 | Lead Paint I | 6.1 | 0 | 0 | Negative | 0 | 0 | 12:32:34 |
| 28-Mar-19 | 346 | Lead Paint I | 5.17 | 0.19 | 0.2 | Negative | 0.19 | 0.1 | 12:32:52 |
| 28-Mar-19 | 347 | Lead Paint I | 5 | 0.01 | 0.03 | Negative | 0.01 | 0.01 | 12:33:11 |

| | | | | | | | | | | |
|-----------|-----|--------------|-------|------|------|---------|----------|------|------|----------|
| 28-Mar-19 | 348 | Lead Paint I | 6.05 | 0.09 | 0.08 | surface | Negative | 0.09 | 0.04 | 12:33:37 |
| 28-Mar-19 | 349 | Lead Paint I | 6.09 | 0.04 | 0.03 | surface | Negative | 0.04 | 0.02 | 12:33:55 |
| 28-Mar-19 | 350 | Lead Paint I | 6.12 | 0.08 | 0.08 | surface | Negative | 0.08 | 0.04 | 12:34:13 |
| 28-Mar-19 | 351 | Lead Paint I | 6.33 | 0.33 | 0.56 | | Negative | 0.33 | 0.28 | 12:34:42 |
| 28-Mar-19 | 352 | Lead Paint I | 13.45 | 0.26 | 0.4 | | Negative | 0.26 | 0.2 | 12:35:03 |
| 28-Mar-19 | 353 | Lead Paint I | 18.12 | 0.1 | 0.09 | surface | Negative | 0.1 | 0.05 | 12:35:30 |
| 28-Mar-19 | 354 | Lead Paint I | 6.21 | 0.21 | 0.41 | | Negative | 0.21 | 0.21 | 12:36:03 |
| 28-Mar-19 | 355 | Lead Paint I | 5.24 | 0.08 | 0.28 | | Negative | 0.08 | 0.14 | 12:36:21 |
| 28-Mar-19 | 356 | Lead Paint I | 5.1 | 0.02 | 0.04 | | Negative | 0.02 | 0.02 | 12:36:42 |
| 28-Mar-19 | 357 | Lead Paint I | 5.01 | 0 | 0 | | Negative | 0 | 0 | 12:36:59 |
| 28-Mar-19 | 358 | Lead Paint I | 5.19 | 0 | 0 | | Negative | 0 | 0 | 12:37:17 |
| 28-Mar-19 | 359 | Lead Paint I | 6.08 | 0 | 0.02 | | Negative | 0 | 0.01 | 12:37:33 |
| 28-Mar-19 | 360 | Lead Paint I | 25.37 | 0.1 | 0.05 | surface | Negative | 0.1 | 0.03 | 12:37:51 |
| 28-Mar-19 | 361 | Lead Paint I | 5.96 | 0.09 | 0.29 | | Negative | 0.09 | 0.14 | 12:38:35 |
| 28-Mar-19 | 362 | Lead Paint I | 6.54 | 0.08 | 0.1 | | Negative | 0.08 | 0.05 | 12:38:54 |
| 28-Mar-19 | 363 | Lead Paint I | 5.07 | 0.08 | 0.16 | | Negative | 0.08 | 0.08 | 12:39:17 |
| 28-Mar-19 | 364 | Lead Paint I | 6.04 | 0.05 | 0.06 | | Negative | 0.05 | 0.03 | 12:39:37 |
| 28-Mar-19 | 365 | Lead Paint I | 5.1 | 0.08 | 0.12 | | Negative | 0.08 | 0.06 | 12:39:57 |
| 28-Mar-19 | 366 | Lead Paint I | 5.06 | 0.11 | 0.1 | surface | Negative | 0.11 | 0.05 | 12:40:16 |
| 28-Mar-19 | 367 | Lead Paint I | 5.21 | 0.08 | 0.07 | surface | Negative | 0.08 | 0.04 | 12:40:39 |
| 28-Mar-19 | 368 | Lead Paint I | 11.04 | 0.09 | 0.05 | surface | Negative | 0.09 | 0.03 | 12:40:56 |
| 28-Mar-19 | 369 | Lead Paint I | 24.9 | 0.16 | 0.05 | surface | Negative | 0.16 | 0.03 | 12:41:21 |
| 28-Mar-19 | 370 | Lead Paint I | 25.71 | 0.18 | 0.05 | surface | Negative | 0.18 | 0.03 | 12:42:02 |
| 28-Mar-19 | 371 | Lead Paint I | 24.95 | 0.13 | 0.05 | surface | Negative | 0.13 | 0.02 | 12:42:44 |
| 28-Mar-19 | 372 | Lead Paint I | 6.13 | 0 | 0 | | Negative | 0 | 0 | 12:43:30 |
| 28-Mar-19 | 373 | Lead Paint I | 5.14 | 0.12 | 0.13 | | Negative | 0.12 | 0.07 | 12:43:46 |
| 28-Mar-19 | 374 | Lead Paint I | 6.05 | 0.01 | 0.04 | | Negative | 0.01 | 0.02 | 12:44:03 |
| 28-Mar-19 | 375 | Lead Paint I | 5.06 | 0.04 | 0.07 | | Negative | 0.04 | 0.03 | 12:44:22 |
| 28-Mar-19 | 376 | Lead Paint I | 5.13 | 0.06 | 0.07 | | Negative | 0.06 | 0.03 | 12:44:54 |
| 28-Mar-19 | 377 | Lead Paint I | 6.09 | 0.01 | 0.02 | | Negative | 0.01 | 0.01 | 12:45:21 |
| 28-Mar-19 | 378 | Lead Paint I | 5.92 | 0.05 | 0.06 | | Negative | 0.05 | 0.03 | 12:45:48 |
| 28-Mar-19 | 379 | Lead Paint I | 5.02 | 0.04 | 0.05 | | Negative | 0.04 | 0.02 | 12:46:09 |
| 28-Mar-19 | 380 | Lead Paint I | 6.39 | 1.15 | 0.15 | surface | Positive | 1.15 | 0.07 | 12:48:15 |
| 28-Mar-19 | 381 | Lead Paint I | 5.26 | 0 | 0 | | Negative | 0 | 0 | 12:48:40 |
| 28-Mar-19 | 382 | Lead Paint I | 7.5 | 1.14 | 0.14 | surface | Positive | 1.14 | 0.07 | 13:48:46 |
| 28-Mar-19 | 383 | Lead Paint I | 5.22 | 0 | 0 | | Negative | 0 | 0 | 13:49:10 |
| 28-Mar-19 | 384 | Lead Paint I | 5.76 | 0 | 0 | | Negative | 0 | 0 | 13:54:41 |
| 28-Mar-19 | 385 | Lead Paint I | 5.83 | 0 | 0 | | Negative | 0 | 0 | 13:55:03 |
| 28-Mar-19 | 386 | Lead Paint I | 21.46 | 0.13 | 0.06 | surface | Negative | 0.13 | 0.03 | 13:55:41 |
| 28-Mar-19 | 387 | Lead Paint I | 5.24 | 0.2 | 0.21 | | Negative | 0.2 | 0.11 | 13:56:19 |
| 28-Mar-19 | 388 | Lead Paint I | 16.78 | 0.31 | 0.16 | surface | Negative | 0.31 | 0.08 | 13:56:36 |
| 28-Mar-19 | 389 | Lead Paint I | 5.18 | 0.32 | 0.66 | | Negative | 0.32 | 0.33 | 13:57:07 |
| 28-Mar-19 | 390 | Lead Paint I | 5.31 | 0.07 | 0.14 | | Negative | 0.07 | 0.07 | 13:57:24 |
| 28-Mar-19 | 391 | Lead Paint I | 6 | 0.01 | 0.04 | | Negative | 0.01 | 0.02 | 13:57:48 |
| 28-Mar-19 | 392 | Lead Paint I | 5.34 | 0.1 | 0.08 | surface | Negative | 0.1 | 0.04 | 13:58:07 |
| 28-Mar-19 | 393 | Lead Paint I | 5.9 | 0 | 0 | | Negative | 0 | 0 | 13:58:27 |
| 28-Mar-19 | 394 | Lead Paint I | 5.94 | 0 | 0 | | Negative | 0 | 0 | 13:58:44 |
| 28-Mar-19 | 395 | Lead Paint I | 5.7 | 0 | 0 | | Negative | 0 | 0 | 13:59:02 |
| 28-Mar-19 | 396 | Lead Paint I | 5.8 | 0 | 0 | | Negative | 0 | 0 | 13:59:20 |
| 28-Mar-19 | 397 | Lead Paint I | 5.85 | 0 | 0 | | Negative | 0 | 0 | 13:59:39 |
| 28-Mar-19 | 398 | Lead Paint I | 5.15 | 0 | 0 | | Negative | 0 | 0 | 13:59:58 |
| 28-Mar-19 | 399 | Lead Paint I | 25.09 | 0.01 | 0.03 | | Negative | 0.01 | 0.02 | 14:00:30 |
| 28-Mar-19 | 400 | Lead Paint I | 24.43 | 0.02 | 0.04 | | Negative | 0.02 | 0.02 | 14:01:14 |
| 28-Mar-19 | 401 | Lead Paint I | 5.14 | 0 | 0 | | Negative | 0 | 0 | 14:02:11 |
| 28-Mar-19 | 402 | Lead Paint I | 5.22 | 0 | 0 | | Negative | 0 | 0 | 14:02:30 |
| 28-Mar-19 | 403 | Lead Paint I | 26.06 | 0 | 0.01 | | Negative | 0 | 0.01 | 14:02:47 |
| 28-Mar-19 | 404 | Lead Paint I | 5.16 | 0 | 0.01 | | Negative | 0 | 0 | 14:03:35 |
| 28-Mar-19 | 405 | Lead Paint I | 5.16 | 0 | 0 | | Negative | 0 | 0 | 14:03:52 |

| | | | | | | | | | |
|-----------|-----|--------------|-------|------|--------------|----------|------|------|----------|
| 28-Mar-19 | 406 | Lead Paint I | 6.1 | 0 | 0 | Negative | 0 | 0 | 14:04:11 |
| 28-Mar-19 | 407 | Lead Paint I | 5.2 | 0 | 0 | Negative | 0 | 0 | 14:04:38 |
| 28-Mar-19 | 408 | Lead Paint I | 5 | 0 | 0 | Negative | 0 | 0 | 14:04:52 |
| 28-Mar-19 | 409 | Lead Paint I | 5.15 | 0 | 0 | Negative | 0 | 0 | 14:05:06 |
| 28-Mar-19 | 410 | Lead Paint I | 5.73 | 0.01 | 0.05 | Negative | 0.01 | 0.02 | 14:05:32 |
| 28-Mar-19 | 411 | Lead Paint I | 5.42 | 0.16 | 0.13 surface | Negative | 0.16 | 0.06 | 14:05:50 |
| 28-Mar-19 | 412 | Lead Paint I | 5.88 | 0 | 0 | Negative | 0 | 0 | 14:06:09 |
| 28-Mar-19 | 413 | Lead Paint I | 5.86 | 0 | 0 | Negative | 0 | 0 | 14:06:28 |
| 28-Mar-19 | 414 | Lead Paint I | 5.04 | 0.08 | 0.09 | Negative | 0.08 | 0.05 | 14:06:49 |
| 28-Mar-19 | 415 | Lead Paint I | 5.1 | 0.06 | 0.07 | Negative | 0.06 | 0.04 | 14:07:12 |
| 28-Mar-19 | 416 | Lead Paint I | 5.11 | 0.15 | 0.24 | Negative | 0.15 | 0.12 | 14:07:40 |
| 28-Mar-19 | 417 | Lead Paint I | 5.12 | 0.09 | 0.1 | Negative | 0.09 | 0.05 | 14:08:06 |
| 28-Mar-19 | 418 | Lead Paint I | 16.78 | 0 | 0.02 | Negative | 0 | 0.01 | 14:09:00 |
| 28-Mar-19 | 419 | Lead Paint I | 13.3 | 0.02 | 0.06 | Negative | 0.02 | 0.03 | 14:09:37 |
| 28-Mar-19 | 420 | Lead Paint I | 5.19 | 0 | 0 | Negative | 0 | 0 | 14:10:04 |
| 28-Mar-19 | 421 | Lead Paint I | 3.99 | 0.01 | 0.05 | Negative | 0.01 | 0.02 | 14:10:23 |
| 28-Mar-19 | 422 | Lead Paint I | 5.14 | 0 | 0 | Negative | 0 | 0 | 14:10:50 |
| 28-Mar-19 | 423 | Lead Paint I | 5.08 | 0.04 | 0.16 | Negative | 0.04 | 0.08 | 14:11:09 |
| 28-Mar-19 | 424 | Lead Paint I | 5.47 | 0.1 | 0.08 surface | Negative | 0.1 | 0.04 | 14:11:26 |
| 28-Mar-19 | 425 | Lead Paint I | 5.99 | 0.02 | 0.03 | Negative | 0.02 | 0.01 | 14:11:43 |
| 28-Mar-19 | 426 | Lead Paint I | 6 | 0.05 | 0.06 | Negative | 0.05 | 0.03 | 14:12:05 |
| 28-Mar-19 | 427 | Lead Paint I | 5.12 | 0 | 0 | Negative | 0 | 0 | 14:12:56 |
| 28-Mar-19 | 428 | Lead Paint I | 5.08 | 0 | 0 | Negative | 0 | 0 | 14:13:14 |
| 28-Mar-19 | 429 | Lead Paint I | 5.2 | 0 | 0 | Negative | 0 | 0 | 14:13:33 |
| 28-Mar-19 | 430 | Lead Paint I | 5.16 | 0 | 0 | Negative | 0 | 0 | 14:13:50 |
| 28-Mar-19 | 431 | Lead Paint I | 5.1 | 0 | 0 | Negative | 0 | 0 | 14:14:07 |
| 28-Mar-19 | 432 | Lead Paint I | 5.97 | 0.09 | 0.07 surface | Negative | 0.09 | 0.03 | 14:14:28 |
| 28-Mar-19 | 433 | Lead Paint I | 5.01 | 0.12 | 0.09 surface | Negative | 0.12 | 0.05 | 14:14:47 |
| 28-Mar-19 | 434 | Lead Paint I | 5.79 | 0.08 | 0.07 surface | Negative | 0.08 | 0.04 | 14:15:06 |
| 28-Mar-19 | 435 | Lead Paint I | 5.05 | 0 | 0.01 | Negative | 0 | 0 | 14:15:41 |
| 28-Mar-19 | 436 | Lead Paint I | 5.35 | 0.07 | 0.05 surface | Negative | 0.07 | 0.03 | 14:15:58 |
| 28-Mar-19 | 437 | Lead Paint I | 5.91 | 0 | 0 | Negative | 0 | 0 | 14:16:15 |
| 28-Mar-19 | 438 | Lead Paint I | 5.83 | 0 | 0 | Negative | 0 | 0 | 14:16:41 |
| 28-Mar-19 | 439 | Lead Paint I | 5.7 | 0 | 0 | Negative | 0 | 0 | 14:17:01 |
| 28-Mar-19 | 440 | Lead Paint I | 5.74 | 0 | 0 | Negative | 0 | 0 | 14:17:19 |
| 28-Mar-19 | 441 | Lead Paint I | 6.07 | 0.59 | 0.11 surface | Negative | 0.59 | 0.05 | 14:17:38 |
| 28-Mar-19 | 442 | Lead Paint I | 6.14 | 0.39 | 0.08 surface | Negative | 0.39 | 0.04 | 14:18:03 |
| 28-Mar-19 | 443 | Lead Paint I | 5.24 | 0 | 0 | Negative | 0 | 0 | 14:18:23 |
| 28-Mar-19 | 444 | Lead Paint I | 5.15 | 0 | 0 | Negative | 0 | 0 | 14:18:40 |
| 28-Mar-19 | 445 | Lead Paint I | 5.15 | 0 | 0 | Negative | 0 | 0 | 14:18:58 |
| 28-Mar-19 | 446 | Lead Paint I | 5.13 | 0 | 0.01 | Negative | 0 | 0 | 14:19:58 |
| 28-Mar-19 | 447 | Lead Paint I | 5.24 | 0 | 0 | Negative | 0 | 0 | 14:20:23 |
| 28-Mar-19 | 448 | Lead Paint I | 5.24 | 0 | 0 | Negative | 0 | 0 | 14:20:40 |
| 28-Mar-19 | 449 | Lead Paint I | 6.18 | 0 | 0 | Negative | 0 | 0 | 14:20:58 |
| 28-Mar-19 | 450 | Lead Paint I | 5.64 | 0 | 0 | Negative | 0 | 0 | 14:21:18 |
| 28-Mar-19 | 451 | Lead Paint I | 6.12 | 0.06 | 0.05 surface | Negative | 0.06 | 0.03 | 14:21:42 |
| 28-Mar-19 | 452 | Lead Paint I | 6.13 | 0.17 | 0.14 surface | Negative | 0.17 | 0.07 | 14:22:04 |
| 28-Mar-19 | 453 | Lead Paint I | 5.62 | 0 | 0 | Negative | 0 | 0 | 14:22:22 |
| 28-Mar-19 | 454 | Lead Paint I | 6.04 | 0.04 | 0.05 | Negative | 0.04 | 0.03 | 14:22:41 |
| 28-Mar-19 | 455 | Lead Paint I | 5.07 | 0.11 | 0.09 surface | Negative | 0.11 | 0.04 | 14:23:00 |
| 28-Mar-19 | 456 | Lead Paint I | 5.98 | 0.15 | 0.11 surface | Negative | 0.15 | 0.05 | 14:23:22 |
| 28-Mar-19 | 457 | Lead Paint I | 5.06 | 0.11 | 0.1 surface | Negative | 0.11 | 0.05 | 14:24:54 |
| 28-Mar-19 | 458 | Lead Paint I | 5.62 | 0 | 0 | Negative | 0 | 0 | 14:25:22 |
| 28-Mar-19 | 459 | Lead Paint I | 5.19 | 0 | 0 | Negative | 0 | 0 | 14:25:51 |
| 28-Mar-19 | 460 | Lead Paint I | 5.2 | 0 | 0 | Negative | 0 | 0 | 14:26:08 |
| 28-Mar-19 | 461 | Lead Paint I | 5.18 | 0 | 0 | Negative | 0 | 0 | 14:26:25 |
| 28-Mar-19 | 462 | Lead Paint I | 5.18 | 0 | 0 | Negative | 0 | 0 | 14:26:43 |
| 28-Mar-19 | 463 | Lead Paint I | 5 | 0 | 0 | Negative | 0 | 0 | 14:26:59 |

| | | | | | | | | | |
|-----------|-----|--------------|-------|--------|--------------|----------|------|------|----------|
| 28-Mar-19 | 464 | Lead Paint I | 6.14 | 0.09 | 0.32 | Negative | 0.09 | 0.16 | 14:27:21 |
| 28-Mar-19 | 465 | Lead Paint I | 5.33 | 0.08 | 0.07 surface | Negative | 0.08 | 0.03 | 14:27:39 |
| 28-Mar-19 | 466 | Lead Paint I | 5.74 | 0.03 | 0.09 | Negative | 0.03 | 0.05 | 14:27:56 |
| 28-Mar-19 | 467 | Lead Paint I | 5.39 | 0.1 | 0.09 surface | Negative | 0.1 | 0.04 | 14:28:13 |
| 28-Mar-19 | 468 | Lead Paint I | 5.02 | 0.03 | 0.11 | Negative | 0.03 | 0.05 | 14:28:31 |
| 28-Mar-19 | 469 | Lead Paint I | 5.37 | 0.05 | 0.06 | Negative | 0.05 | 0.03 | 14:28:47 |
| 28-Mar-19 | 470 | Lead Paint I | 5.04 | 0.09 | 0.12 | Negative | 0.09 | 0.06 | 14:29:03 |
| 28-Mar-19 | 471 | Lead Paint I | 6.09 | 0.08 | 0.07 surface | Negative | 0.08 | 0.04 | 14:29:25 |
| 28-Mar-19 | 472 | Lead Paint I | 5.01 | 0.07 | 0.08 | Negative | 0.07 | 0.04 | 14:29:47 |
| 28-Mar-19 | 473 | Lead Paint I | 6.1 | 0.11 | 0.08 surface | Negative | 0.11 | 0.04 | 14:30:06 |
| 28-Mar-19 | 474 | Lead Paint I | 13.16 | 0.14 | 0.26 | Negative | 0.14 | 0.13 | 14:30:31 |
| 28-Mar-19 | 475 | Lead Paint I | 5.01 | 0.05 | 0.2 | Negative | 0.05 | 0.1 | 14:30:58 |
| 28-Mar-19 | 476 | Lead Paint I | 5.25 | 0 | 0.01 | Negative | 0 | 0 | 14:31:16 |
| 28-Mar-19 | 477 | Lead Paint I | 11.07 | 0.16 | 0.31 | Negative | 0.16 | 0.15 | 14:31:33 |
| 28-Mar-19 | 478 | Lead Paint I | 5.27 | 0.05 | 0.07 | Negative | 0.05 | 0.04 | 14:31:58 |
| 28-Mar-19 | 479 | Lead Paint I | 5.61 | 0.02 | 0.07 | Negative | 0.02 | 0.04 | 14:32:18 |
| 28-Mar-19 | 480 | Lead Paint I | 5.34 | 0.14 | 0.23 | Negative | 0.14 | 0.12 | 14:32:36 |
| 28-Mar-19 | 481 | Lead Paint I | 5.11 | 0 | 0 | Negative | 0 | 0 | 14:32:55 |
| 28-Mar-19 | 482 | Lead Paint I | 5.16 | 0 | 0 | Negative | 0 | 0 | 14:33:14 |
| 28-Mar-19 | 483 | Lead Paint I | 5.18 | 0 | 0 | Negative | 0 | 0 | 14:33:28 |
| 28-Mar-19 | 484 | Lead Paint I | 19.37 | > 1.00 | 0.01 | Positive | 1 | 0 | 14:33:45 |
| 28-Mar-19 | 485 | Lead Paint I | 5.88 | > 1.00 | 0.02 | Positive | 1 | 0.01 | 14:34:33 |
| 28-Mar-19 | 486 | Lead Paint I | 7.47 | > 1.00 | 0.04 | Positive | 1 | 0.02 | 14:35:03 |
| 28-Mar-19 | 487 | Lead Paint I | 5.22 | 0 | 0 | Negative | 0 | 0 | 14:35:38 |
| 28-Mar-19 | 488 | Lead Paint I | 5.31 | 0 | 0 | Negative | 0 | 0 | 14:35:54 |
| 28-Mar-19 | 489 | Lead Paint I | 5.18 | 0 | 0 | Negative | 0 | 0 | 14:36:13 |
| 28-Mar-19 | 490 | Lead Paint I | 5.16 | 0 | 0 | Negative | 0 | 0 | 14:36:34 |
| 28-Mar-19 | 491 | Lead Paint I | 5.18 | 0 | 0 | Negative | 0 | 0 | 14:36:50 |
| 28-Mar-19 | 492 | Lead Paint I | 5.94 | 0.02 | 0.06 | Negative | 0.02 | 0.03 | 14:37:09 |
| 28-Mar-19 | 493 | Lead Paint I | 5.41 | 0.05 | 0.09 | Negative | 0.05 | 0.04 | 14:37:26 |
| 28-Mar-19 | 494 | Lead Paint I | 6.1 | 0.03 | 0.09 | Negative | 0.03 | 0.05 | 14:37:44 |
| 28-Mar-19 | 495 | Lead Paint I | 5.39 | 0.03 | 0.04 | Negative | 0.03 | 0.02 | 14:38:03 |
| 28-Mar-19 | 496 | Lead Paint I | 5.1 | 0 | 0.01 | Negative | 0 | 0 | 14:38:22 |
| 28-Mar-19 | 497 | Lead Paint I | 5.19 | 0 | 0 | Negative | 0 | 0 | 14:38:40 |
| 28-Mar-19 | 498 | Lead Paint I | 5.08 | 0 | 0 | Negative | 0 | 0 | 14:38:54 |
| 28-Mar-19 | 499 | Lead Paint I | 5.05 | 0.04 | 0.08 | Negative | 0.04 | 0.04 | 14:39:13 |
| 28-Mar-19 | 500 | Lead Paint I | 6.14 | 0.13 | 0.17 | Negative | 0.13 | 0.08 | 14:39:35 |
| 28-Mar-19 | 501 | Lead Paint I | 5.02 | 0.12 | 0.15 | Negative | 0.12 | 0.07 | 14:39:59 |
| 28-Mar-19 | 502 | Lead Paint I | 5.05 | 0.07 | 0.1 | Negative | 0.07 | 0.05 | 14:40:22 |
| 28-Mar-19 | 503 | Lead Paint I | 5.19 | 0 | 0 | Negative | 0 | 0 | 14:40:48 |
| 28-Mar-19 | 504 | Lead Paint I | 5.16 | 0 | 0 | Negative | 0 | 0 | 14:41:15 |
| 28-Mar-19 | 505 | Lead Paint I | 5.87 | 0 | 0 | Negative | 0 | 0 | 14:41:34 |
| 28-Mar-19 | 506 | Lead Paint I | 5.16 | 0 | 0 | Negative | 0 | 0 | 14:41:55 |
| 28-Mar-19 | 507 | Lead Paint I | 5.12 | 0 | 0 | Negative | 0 | 0 | 14:42:14 |
| 28-Mar-19 | 508 | Lead Paint I | 6.09 | 0 | 0.01 | Negative | 0 | 0 | 14:42:31 |
| 28-Mar-19 | 509 | Lead Paint I | 5.43 | 0.05 | 0.04 surface | Negative | 0.05 | 0.02 | 14:42:49 |
| 28-Mar-19 | 510 | Lead Paint I | 5.84 | 0.01 | 0.03 | Negative | 0.01 | 0.02 | 14:43:09 |
| 28-Mar-19 | 511 | Lead Paint I | 6.07 | 0.02 | 0.02 | Negative | 0.02 | 0.01 | 14:43:27 |
| 28-Mar-19 | 512 | Lead Paint I | 5.24 | 0 | 0 | Negative | 0 | 0 | 14:44:00 |
| 28-Mar-19 | 513 | Lead Paint I | 5.22 | 0 | 0 | Negative | 0 | 0 | 14:44:21 |
| 28-Mar-19 | 514 | Lead Paint I | 5.11 | 0 | 0 | Negative | 0 | 0 | 14:44:40 |
| 28-Mar-19 | 515 | Lead Paint I | 5.15 | 0 | 0 | Negative | 0 | 0 | 14:44:57 |
| 28-Mar-19 | 516 | Lead Paint I | 5.96 | 0.01 | 0.03 | Negative | 0.01 | 0.01 | 14:45:16 |
| 28-Mar-19 | 517 | Lead Paint I | 5.43 | 0.07 | 0.05 surface | Negative | 0.07 | 0.03 | 14:45:36 |
| 28-Mar-19 | 518 | Lead Paint I | 5.88 | 0.07 | 0.07 surface | Negative | 0.07 | 0.03 | 14:45:54 |
| 28-Mar-19 | 519 | Lead Paint I | 6.12 | 0.06 | 0.05 surface | Negative | 0.06 | 0.03 | 14:46:13 |
| 28-Mar-19 | 520 | Lead Paint I | 6.03 | 0.03 | 0.03 | Negative | 0.03 | 0.02 | 14:46:37 |
| 28-Mar-19 | 521 | Lead Paint I | 6.06 | 0.03 | 0.03 | Negative | 0.03 | 0.01 | 14:46:58 |

| | | | | | | | | | | |
|-----------|-----|--------------|-------|----------|------|-----------|----------|------|------|----------|
| 28-Mar-19 | 522 | Lead Paint I | 6.12 | 0.05 | 0.04 | surface | Negative | 0.05 | 0.02 | 14:47:23 |
| 28-Mar-19 | 523 | Lead Paint I | 5.15 | 0 | 0 | | Negative | 0 | 0 | 14:47:48 |
| 28-Mar-19 | 524 | Lead Paint I | 5.07 | 0 | 0 | | Negative | 0 | 0 | 14:48:08 |
| 28-Mar-19 | 525 | Lead Paint I | 5.13 | 0 | 0 | | Negative | 0 | 0 | 14:48:35 |
| 28-Mar-19 | 526 | Lead Paint I | 6.21 | 0 | 0 | | Negative | 0 | 0 | 14:48:57 |
| 28-Mar-19 | 527 | Lead Paint I | 5.24 | 0 | 0 | | Negative | 0 | 0 | 14:49:15 |
| 28-Mar-19 | 528 | Lead Paint I | 5.19 | 0 | 0 | | Negative | 0 | 0 | 14:49:41 |
| 28-Mar-19 | 529 | Lead Paint I | 5.17 | 0 | 0 | | Negative | 0 | 0 | 14:50:11 |
| 28-Mar-19 | 530 | Lead Paint I | 5.14 | 0 | 0 | | Negative | 0 | 0 | 14:50:38 |
| 28-Mar-19 | 531 | Lead Paint I | 5.92 | 0.05 | 0.19 | | Negative | 0.05 | 0.09 | 14:51:00 |
| 28-Mar-19 | 532 | Lead Paint I | 5.31 | 0.13 | 0.09 | surface | Negative | 0.13 | 0.04 | 14:51:18 |
| 28-Mar-19 | 533 | Lead Paint I | 5.05 | 0 | 0 | | Negative | 0 | 0 | 14:51:38 |
| 28-Mar-19 | 534 | Lead Paint I | 5.39 | 0.02 | 0.02 | | Negative | 0.02 | 0.01 | 14:51:52 |
| 28-Mar-19 | 535 | Lead Paint I | 5.9 | 0.04 | 0.03 | surface | Negative | 0.04 | 0.02 | 14:52:10 |
| 28-Mar-19 | 536 | Lead Paint I | 5.87 | 0.15 | 0.15 | surface | Negative | 0.15 | 0.08 | 14:52:30 |
| 28-Mar-19 | 537 | Lead Paint I | 6.09 | 0.03 | 0.04 | | Negative | 0.03 | 0.02 | 14:52:54 |
| 28-Mar-19 | 538 | Lead Paint I | 6.13 | 0.1 | 0.09 | surface | Negative | 0.1 | 0.04 | 14:53:17 |
| 28-Mar-19 | 539 | Lead Paint I | 5.11 | 0 | 0 | | Negative | 0 | 0 | 14:53:45 |
| 28-Mar-19 | 540 | Lead Paint I | 5.2 | 0 | 0 | | Negative | 0 | 0 | 14:54:03 |
| 28-Mar-19 | 541 | Lead Paint I | 5.23 | 0 | 0 | | Negative | 0 | 0 | 14:54:22 |
| 28-Mar-19 | 542 | Lead Paint I | 5.08 | 0 | 0 | | Negative | 0 | 0 | 14:54:40 |
| 28-Mar-19 | 543 | Lead Paint I | 5.27 | 0 | 0 | | Negative | 0 | 0 | 14:55:00 |
| 28-Mar-19 | 544 | Standardiza | 26.98 | 0.019714 | 224 | -0.030007 | PASS | | | 14:58:22 |
| 28-Mar-19 | 545 | Lead Paint I | 5.06 | 0.02 | 0.09 | | Negative | 0.02 | 0.05 | 14:59:59 |
| 28-Mar-19 | 546 | Lead Paint I | 5.45 | 0.04 | 0.03 | surface | Negative | 0.04 | 0.02 | 15:00:17 |
| 28-Mar-19 | 547 | Lead Paint I | 5.74 | 0.01 | 0.02 | | Negative | 0.01 | 0.01 | 15:00:34 |
| 28-Mar-19 | 548 | Lead Paint I | 6.02 | 0.05 | 0.05 | | Negative | 0.05 | 0.03 | 15:00:52 |
| 28-Mar-19 | 549 | Lead Paint I | 5.98 | 0 | 0 | | Negative | 0 | 0 | 15:01:47 |
| 28-Mar-19 | 550 | Lead Paint I | 5.71 | 0 | 0 | | Negative | 0 | 0 | 15:02:46 |
| 28-Mar-19 | 551 | Lead Paint I | 5.12 | 0 | 0 | | Negative | 0 | 0 | 15:03:05 |
| 28-Mar-19 | 552 | Lead Paint I | 5.98 | 0 | 0 | | Negative | 0 | 0 | 15:03:22 |
| 28-Mar-19 | 553 | Lead Paint I | 6.05 | 0 | 0 | | Negative | 0 | 0 | 15:03:43 |
| 28-Mar-19 | 554 | Lead Paint I | 5.67 | 0 | 0 | | Negative | 0 | 0 | 15:04:02 |
| 28-Mar-19 | 555 | Lead Paint I | 5.16 | 0 | 0 | | Negative | 0 | 0 | 15:04:29 |
| 28-Mar-19 | 556 | Lead Paint I | 5.3 | 0.07 | 0.04 | surface | Negative | 0.07 | 0.02 | 15:04:52 |
| 28-Mar-19 | 557 | Lead Paint I | 5.68 | 0 | 0 | | Negative | 0 | 0 | 15:05:56 |
| 28-Mar-19 | 558 | Lead Paint I | 5.16 | 0 | 0 | | Negative | 0 | 0 | 15:06:36 |
| 28-Mar-19 | 559 | Lead Paint I | 5.23 | 0 | 0 | | Negative | 0 | 0 | 15:06:58 |
| 28-Mar-19 | 560 | Lead Paint I | 5.93 | 0 | 0 | | Negative | 0 | 0 | 15:07:14 |
| 28-Mar-19 | 561 | Lead Paint I | 5.79 | 0.01 | 0.01 | | Negative | 0.01 | 0 | 15:07:38 |
| 28-Mar-19 | 562 | Lead Paint I | 5.15 | 0 | 0 | | Negative | 0 | 0 | 15:08:02 |
| 28-Mar-19 | 563 | Lead Paint I | 5.1 | 0 | 0 | | Negative | 0 | 0 | 15:08:19 |
| 28-Mar-19 | 564 | Lead Paint I | 5.14 | 0.07 | 0.04 | surface | Negative | 0.07 | 0.02 | 15:08:38 |
| 28-Mar-19 | 565 | Lead Paint I | 6.09 | 0 | 0 | | Negative | 0 | 0 | 15:09:03 |
| 28-Mar-19 | 566 | Lead Paint I | 5.18 | 0 | 0 | | Negative | 0 | 0 | 15:09:22 |
| 28-Mar-19 | 567 | Lead Paint I | 5.17 | 0.17 | 0.08 | surface | Negative | 0.17 | 0.04 | 15:09:39 |
| 28-Mar-19 | 568 | Lead Paint I | 5.12 | 0 | 0 | | Negative | 0 | 0 | 15:10:03 |
| 28-Mar-19 | 569 | Lead Paint I | 5.14 | 0 | 0 | | Negative | 0 | 0 | 15:10:20 |
| 28-Mar-19 | 570 | Lead Paint I | 5.34 | 0.14 | 0.07 | surface | Negative | 0.14 | 0.03 | 15:10:43 |
| 28-Mar-19 | 571 | Lead Paint I | 5.16 | 0 | 0 | | Negative | 0 | 0 | 15:11:03 |
| 28-Mar-19 | 572 | Lead Paint I | 8.69 | 0.04 | 0.07 | | Negative | 0.04 | 0.03 | 15:11:22 |
| 28-Mar-19 | 573 | Lead Paint I | 16.86 | 0.03 | 0.03 | | Negative | 0.03 | 0.01 | 15:11:56 |
| 28-Mar-19 | 574 | Lead Paint I | 6.44 | 0.2 | 0.43 | | Negative | 0.2 | 0.22 | 15:12:34 |
| 28-Mar-19 | 575 | Lead Paint I | 5.02 | 0.01 | 0.01 | | Negative | 0.01 | 0 | 15:13:01 |
| 28-Mar-19 | 576 | Lead Paint I | 5.23 | 0.04 | 0.05 | | Negative | 0.04 | 0.03 | 15:13:21 |
| 28-Mar-19 | 577 | Lead Paint I | 5.84 | 0 | 0.02 | | Negative | 0 | 0.01 | 15:13:51 |
| 28-Mar-19 | 578 | Lead Paint I | 5.7 | 0 | 0 | | Negative | 0 | 0 | 15:14:16 |
| 28-Mar-19 | 579 | Lead Paint I | 5.26 | 0 | 0 | | Negative | 0 | 0 | 15:14:34 |

| | | | | | | | | |
|-----------|------------------|------|------|--------------|----------|------|------|----------|
| 28-Mar-19 | 580 Lead Paint I | 5.89 | 0 | 0 | Negative | 0 | 0 | 15:14:51 |
| 28-Mar-19 | 581 Lead Paint I | 6.05 | 0 | 0 | Negative | 0 | 0 | 15:15:13 |
| 28-Mar-19 | 582 Lead Paint I | 5.2 | 0 | 0 | Negative | 0 | 0 | 15:17:07 |
| 28-Mar-19 | 583 Lead Paint I | 7.5 | 1.15 | 0.14 surface | Positive | 1.15 | 0.07 | 15:17:38 |

| Date | Reading | Mode | LiveTime | Match1 | MN1 | Pass/Fail | Pass Fail St: Pb | Pb +/- | Time |
|-----------|---------|-----------------------|----------|---------|-----|--------------|------------------|-----------|---------|
| 29-Mar-19 | 1 | Standardization | 26 | 0.01972 | | 227 -0.01424 | PASS | | 8:36:50 |
| 29-Mar-19 | 2 | Lead Paint Inspection | 5.31 | 0 | | 0 | Negative | 0 0 | 8:41:10 |
| 29-Mar-19 | 3 | Lead Paint Inspection | 8.79 | 0.17 | | 0.15 surface | Negative | 0.17 0.08 | 8:47:36 |
| 29-Mar-19 | 4 | Lead Paint Inspection | 5.03 | 0 | | 0 | Negative | 0 0 | 8:48:05 |
| 29-Mar-19 | 5 | Lead Paint Inspection | 6.44 | 0.23 | | 0.15 surface | Negative | 0.23 0.08 | 8:48:30 |
| 29-Mar-19 | 6 | Lead Paint Inspection | 24.87 | 0.1 | | 0.07 surface | Negative | 0.1 0.03 | 8:48:52 |
| 29-Mar-19 | 7 | Lead Paint Inspection | 5.11 | 0 | | 0 | Negative | 0 0 | 8:49:34 |
| 29-Mar-19 | 8 | Lead Paint Inspection | 25.21 | > 1.00 | | 0.09 | Positive | 1 0.05 | 8:49:48 |
| 29-Mar-19 | 9 | Lead Paint Inspection | 5.28 | 0 | | 0 | Negative | 0 0 | 8:50:35 |
| 29-Mar-19 | 10 | Lead Paint Inspection | 5.21 | 0 | | 0 | Negative | 0 0 | 8:50:52 |
| 29-Mar-19 | 11 | Lead Paint Inspection | 5.03 | 0 | | 0 | Negative | 0 0 | 8:51:11 |
| 29-Mar-19 | 12 | Lead Paint Inspection | 5.8 | 0 | | 0 | Negative | 0 0 | 8:51:29 |
| 29-Mar-19 | 13 | Lead Paint Inspection | 5.92 | 0 | | 0.01 | Negative | 0 0 | 8:51:48 |
| 29-Mar-19 | 14 | Lead Paint Inspection | 5.81 | 0 | | 0 | Negative | 0 0 | 8:52:10 |
| 29-Mar-19 | 15 | Lead Paint Inspection | 5.08 | 0 | | 0 | Negative | 0 0 | 8:52:29 |
| 29-Mar-19 | 16 | Lead Paint Inspection | 19.98 | 0.02 | | 0.05 | Negative | 0.02 0.02 | 8:52:55 |
| 29-Mar-19 | 17 | Lead Paint Inspection | 25.39 | 0.04 | | 0.07 | Negative | 0.04 0.03 | 8:53:31 |
| 29-Mar-19 | 18 | Lead Paint Inspection | 5.22 | 0 | | 0 | Negative | 0 0 | 8:54:17 |
| 29-Mar-19 | 19 | Lead Paint Inspection | 5.31 | 0 | | 0 | Negative | 0 0 | 8:54:38 |
| 29-Mar-19 | 20 | Lead Paint Inspection | 5.17 | 0 | | 0 | Negative | 0 0 | 8:54:56 |
| 29-Mar-19 | 21 | Lead Paint Inspection | 5.21 | 0 | | 0 | Negative | 0 0 | 8:55:14 |
| 29-Mar-19 | 22 | Lead Paint Inspection | 5.25 | 0 | | 0 | Negative | 0 0 | 8:55:48 |
| 29-Mar-19 | 23 | Lead Paint Inspection | 5.18 | 0.03 | | 0.06 | Negative | 0.03 0.03 | 8:56:12 |
| 29-Mar-19 | 24 | Lead Paint Inspection | 5.21 | 0 | | 0 | Negative | 0 0 | 8:56:55 |
| 29-Mar-19 | 25 | Lead Paint Inspection | 5.16 | 0 | | 0 | Negative | 0 0 | 8:57:17 |
| 29-Mar-19 | 26 | Lead Paint Inspection | 5.22 | 0.07 | | 0.25 | Negative | 0.07 0.12 | 8:57:48 |
| 29-Mar-19 | 27 | Lead Paint Inspection | 5.18 | 0 | | 0 | Negative | 0 0 | 8:58:06 |
| 29-Mar-19 | 28 | Lead Paint Inspection | 5.24 | 0 | | 0 | Negative | 0 0 | 8:58:26 |
| 29-Mar-19 | 29 | Lead Paint Inspection | 5.06 | 0 | | 0.01 | Negative | 0 0 | 8:58:55 |
| 29-Mar-19 | 30 | Lead Paint Inspection | 5.28 | 0.15 | | 0.28 | Negative | 0.15 0.14 | 8:59:11 |
| 29-Mar-19 | 31 | Lead Paint Inspection | 5.16 | 0 | | 0 | Negative | 0 0 | 8:59:33 |
| 29-Mar-19 | 32 | Lead Paint Inspection | 5.02 | 0 | | 0 | Negative | 0 0 | 8:59:51 |
| 29-Mar-19 | 33 | Lead Paint Inspection | 5.11 | 0.4 | | 0.28 surface | Negative | 0.4 0.14 | 9:00:14 |
| 29-Mar-19 | 34 | Lead Paint Inspection | 5.13 | 0.45 | | 0.31 surface | Negative | 0.45 0.16 | 9:00:44 |
| 29-Mar-19 | 35 | Lead Paint Inspection | 24.64 | 1.02 | | 0.25 surface | Positive | 1.02 0.12 | 9:01:17 |
| 29-Mar-19 | 36 | Lead Paint Inspection | 5.98 | 0.34 | | 0.18 surface | Negative | 0.34 0.09 | 9:02:11 |
| 29-Mar-19 | 37 | Lead Paint Inspection | 25.12 | 0.08 | | 0.07 surface | Negative | 0.08 0.03 | 9:02:31 |
| 29-Mar-19 | 38 | Lead Paint Inspection | 24.36 | 0.04 | | 0.02 surface | Negative | 0.04 0.01 | 9:03:22 |
| 29-Mar-19 | 39 | Lead Paint Inspection | 8.56 | > 1.00 | | 0.08 | Positive | 1 0.04 | 9:04:03 |
| 29-Mar-19 | 40 | Lead Paint Inspection | 16.93 | 0.03 | | 0.03 | Negative | 0.03 0.02 | 9:04:31 |
| 29-Mar-19 | 41 | Lead Paint Inspection | 5.29 | 0.02 | | 0.03 | Negative | 0.02 0.02 | 9:05:05 |
| 29-Mar-19 | 42 | Lead Paint Inspection | 5.28 | > 1.00 | | 0.11 | Positive | 1 0.05 | 9:05:27 |
| 29-Mar-19 | 43 | Lead Paint Inspection | 5.97 | 0 | | 0 | Negative | 0 0 | 9:05:57 |
| 29-Mar-19 | 44 | Lead Paint Inspection | 5.37 | 0.17 | | 0.1 surface | Negative | 0.17 0.05 | 9:06:16 |
| 29-Mar-19 | 45 | Lead Paint Inspection | 5.09 | 0.21 | | 0.17 surface | Negative | 0.21 0.08 | 9:06:34 |
| 29-Mar-19 | 46 | Lead Paint Inspection | 5.09 | 0.12 | | 0.09 surface | Negative | 0.12 0.05 | 9:06:51 |
| 29-Mar-19 | 47 | Lead Paint Inspection | 5.15 | 0.13 | | 0.08 surface | Negative | 0.13 0.04 | 9:07:17 |
| 29-Mar-19 | 48 | Lead Paint Inspection | 5.98 | 0.41 | | 0.15 surface | Negative | 0.41 0.07 | 9:07:46 |
| 29-Mar-19 | 49 | Lead Paint Inspection | 5.05 | 0.13 | | 0.09 surface | Negative | 0.13 0.05 | 9:08:12 |
| 29-Mar-19 | 50 | Lead Paint Inspection | 5.06 | 0.36 | | 0.15 surface | Negative | 0.36 0.08 | 9:09:07 |
| 29-Mar-19 | 51 | Lead Paint Inspection | 5.19 | 0 | | 0 | Negative | 0 0 | 9:09:53 |
| 29-Mar-19 | 52 | Lead Paint Inspection | 5.16 | 0 | | 0 | Negative | 0 0 | 9:10:10 |
| 29-Mar-19 | 53 | Lead Paint Inspection | 5.19 | 0 | | 0 | Negative | 0 0 | 9:10:31 |
| 29-Mar-19 | 54 | Lead Paint Inspection | 5.12 | 0 | | 0 | Negative | 0 0 | 9:10:48 |
| 29-Mar-19 | 55 | Lead Paint Inspection | 5.23 | 0 | | 0 | Negative | 0 0 | 9:11:05 |
| 29-Mar-19 | 56 | Lead Paint Inspection | 6.02 | 0.02 | | 0.05 | Negative | 0.02 0.02 | 9:11:23 |
| 29-Mar-19 | 57 | Lead Paint Inspection | 5.35 | 0.1 | | 0.07 surface | Negative | 0.1 0.03 | 9:11:42 |
| 29-Mar-19 | 58 | Lead Paint Inspection | 5.9 | 0 | | 0 | Negative | 0 0 | 9:12:02 |
| 29-Mar-19 | 59 | Lead Paint Inspection | 5.83 | 0 | | 0 | Negative | 0 0 | 9:12:31 |
| 29-Mar-19 | 60 | Lead Paint Inspection | 5.85 | 0 | | 0 | Negative | 0 0 | 9:12:52 |
| 29-Mar-19 | 61 | Lead Paint Inspection | 5.57 | 0 | | 0 | Negative | 0 0 | 9:13:10 |
| 29-Mar-19 | 62 | Lead Paint Inspection | 6.06 | 0.13 | | 0.08 surface | Negative | 0.13 0.04 | 9:13:33 |
| 29-Mar-19 | 63 | Lead Paint Inspection | 5 | 0.01 | | 0.02 | Negative | 0.01 0.01 | 9:13:51 |
| 29-Mar-19 | 64 | Lead Paint Inspection | 5.03 | 0.06 | | 0.07 | Negative | 0.06 0.03 | 9:14:13 |
| 29-Mar-19 | 65 | Lead Paint Inspection | 6.09 | 0.58 | | 0.11 surface | Negative | 0.58 0.06 | 9:14:37 |

| | | | | | | | | | | |
|-----------|-----|-----------------------|-------|--------|------|---------|----------|------|------|---------|
| 29-Mar-19 | 66 | Lead Paint Inspection | 6.16 | 0.6 | 0.11 | surface | Negative | 0.6 | 0.06 | 9:15:02 |
| 29-Mar-19 | 67 | Lead Paint Inspection | 7.52 | 0.11 | 0.07 | surface | Negative | 0.11 | 0.04 | 9:15:24 |
| 29-Mar-19 | 68 | Lead Paint Inspection | 5.23 | 0 | 0 | | Negative | 0 | 0 | 9:15:45 |
| 29-Mar-19 | 69 | Lead Paint Inspection | 5.27 | > 1.00 | 0.19 | | Positive | 1 | 0.09 | 9:16:10 |
| 29-Mar-19 | 70 | Lead Paint Inspection | 5.27 | 0 | 0 | | Negative | 0 | 0 | 9:16:40 |
| 29-Mar-19 | 71 | Lead Paint Inspection | 5.14 | 0.04 | 0.04 | surface | Negative | 0.04 | 0.02 | 9:16:59 |
| 29-Mar-19 | 72 | Lead Paint Inspection | 8.74 | 0.06 | 0.2 | | Negative | 0.06 | 0.1 | 9:17:38 |
| 29-Mar-19 | 73 | Lead Paint Inspection | 7.59 | 0.02 | 0.04 | | Negative | 0.02 | 0.02 | 9:18:04 |
| 29-Mar-19 | 74 | Lead Paint Inspection | 5.22 | 0.03 | 0.11 | | Negative | 0.03 | 0.05 | 9:18:25 |
| 29-Mar-19 | 75 | Lead Paint Inspection | 5.05 | 0.07 | 0.14 | | Negative | 0.07 | 0.07 | 9:18:45 |
| 29-Mar-19 | 76 | Lead Paint Inspection | 5.81 | 0.02 | 0.05 | | Negative | 0.02 | 0.03 | 9:19:01 |
| 29-Mar-19 | 77 | Lead Paint Inspection | 23.87 | 1.02 | 0.15 | surface | Positive | 1.02 | 0.07 | 9:19:24 |
| 29-Mar-19 | 78 | Lead Paint Inspection | 5.85 | 0.74 | 0.21 | surface | Negative | 0.74 | 0.11 | 9:20:11 |
| 29-Mar-19 | 79 | Lead Paint Inspection | 5.69 | 0 | 0 | | Negative | 0 | 0 | 9:20:37 |
| 29-Mar-19 | 80 | Lead Paint Inspection | 23.26 | 1.07 | 0.13 | surface | Positive | 1.07 | 0.07 | 9:20:56 |
| 29-Mar-19 | 81 | Lead Paint Inspection | 5.93 | 0 | 0.03 | | Negative | 0 | 0.01 | 9:21:59 |
| 29-Mar-19 | 82 | Lead Paint Inspection | 5.04 | 0.5 | 0.22 | surface | Negative | 0.5 | 0.11 | 9:22:21 |
| 29-Mar-19 | 83 | Lead Paint Inspection | 5.08 | 0.45 | 0.22 | surface | Negative | 0.45 | 0.11 | 9:22:41 |
| 29-Mar-19 | 84 | Lead Paint Inspection | 5.03 | 0.61 | 0.22 | surface | Negative | 0.61 | 0.11 | 9:23:07 |
| 29-Mar-19 | 85 | Lead Paint Inspection | 5.29 | 0.05 | 0.17 | | Negative | 0.05 | 0.08 | 9:24:01 |
| 29-Mar-19 | 86 | Lead Paint Inspection | 14.67 | 0.03 | 0.06 | | Negative | 0.03 | 0.03 | 9:24:18 |
| 29-Mar-19 | 87 | Lead Paint Inspection | 5.21 | 0 | 0 | | Negative | 0 | 0 | 9:24:45 |
| 29-Mar-19 | 88 | Lead Paint Inspection | 5.25 | 0 | 0 | | Negative | 0 | 0 | 9:25:04 |
| 29-Mar-19 | 89 | Lead Paint Inspection | 25.05 | 0.07 | 0.15 | | Negative | 0.07 | 0.07 | 9:25:21 |
| 29-Mar-19 | 90 | Lead Paint Inspection | 5.18 | 0.02 | 0.07 | | Negative | 0.02 | 0.03 | 9:26:05 |
| 29-Mar-19 | 91 | Lead Paint Inspection | 6.58 | 0.23 | 0.17 | surface | Negative | 0.23 | 0.09 | 9:26:22 |
| 29-Mar-19 | 92 | Lead Paint Inspection | 5.93 | 0 | 0 | | Negative | 0 | 0 | 9:26:40 |
| 29-Mar-19 | 93 | Lead Paint Inspection | 8.98 | 0.22 | 0.15 | surface | Negative | 0.22 | 0.08 | 9:26:59 |
| 29-Mar-19 | 94 | Lead Paint Inspection | 6 | 0 | 0 | | Negative | 0 | 0 | 9:27:22 |
| 29-Mar-19 | 95 | Lead Paint Inspection | 5.42 | 0.19 | 0.16 | surface | Negative | 0.19 | 0.08 | 9:27:39 |
| 29-Mar-19 | 96 | Lead Paint Inspection | 5.91 | 0.2 | 0.16 | surface | Negative | 0.2 | 0.08 | 9:28:01 |
| 29-Mar-19 | 97 | Lead Paint Inspection | 5.05 | 0.07 | 0.06 | surface | Negative | 0.07 | 0.03 | 9:28:21 |
| 29-Mar-19 | 98 | Lead Paint Inspection | 5.04 | 0.4 | 0.19 | surface | Negative | 0.4 | 0.09 | 9:28:46 |
| 29-Mar-19 | 99 | Lead Paint Inspection | 6.21 | 0.58 | 0.3 | surface | Negative | 0.58 | 0.15 | 9:29:11 |
| 29-Mar-19 | 100 | Lead Paint Inspection | 5.3 | 0.02 | 0.05 | | Negative | 0.02 | 0.03 | 9:29:36 |
| 29-Mar-19 | 101 | Lead Paint Inspection | 5.26 | 0.06 | 0.14 | | Negative | 0.06 | 0.07 | 9:29:55 |
| 29-Mar-19 | 102 | Lead Paint Inspection | 5.24 | 0 | 0.01 | | Negative | 0 | 0 | 9:30:14 |
| 29-Mar-19 | 103 | Lead Paint Inspection | 5.23 | 0.05 | 0.11 | | Negative | 0.05 | 0.05 | 9:30:31 |
| 29-Mar-19 | 104 | Lead Paint Inspection | 5.16 | 0 | 0.01 | | Negative | 0 | 0 | 9:30:48 |
| 29-Mar-19 | 105 | Lead Paint Inspection | 5.04 | 0 | 0 | | Negative | 0 | 0 | 9:31:10 |
| 29-Mar-19 | 106 | Lead Paint Inspection | 7.75 | 0.15 | 0.1 | surface | Negative | 0.15 | 0.05 | 9:31:30 |
| 29-Mar-19 | 107 | Lead Paint Inspection | 5.1 | 0 | 0 | | Negative | 0 | 0 | 9:31:57 |
| 29-Mar-19 | 108 | Lead Paint Inspection | 5.18 | 0 | 0 | | Negative | 0 | 0 | 9:32:15 |
| 29-Mar-19 | 109 | Lead Paint Inspection | 5.17 | 0 | 0 | | Negative | 0 | 0 | 9:32:32 |
| 29-Mar-19 | 110 | Lead Paint Inspection | 14.97 | > 1.00 | 0.01 | | Positive | 1 | 0.01 | 9:32:51 |
| 29-Mar-19 | 111 | Lead Paint Inspection | 18.03 | > 1.00 | 0.01 | | Positive | 1 | 0 | 9:33:30 |
| 29-Mar-19 | 112 | Lead Paint Inspection | 6.56 | > 1.00 | 0.02 | | Positive | 1 | 0.01 | 9:34:24 |
| 29-Mar-19 | 113 | Lead Paint Inspection | 15.6 | 0.24 | 0.24 | surface | Negative | 0.24 | 0.12 | 9:34:59 |
| 29-Mar-19 | 114 | Lead Paint Inspection | 6.45 | 0.28 | 0.21 | surface | Negative | 0.28 | 0.11 | 9:35:28 |
| 29-Mar-19 | 115 | Lead Paint Inspection | 5.19 | 0.42 | 0.2 | surface | Negative | 0.42 | 0.1 | 9:35:48 |
| 29-Mar-19 | 116 | Lead Paint Inspection | 5.21 | 0.39 | 0.25 | surface | Negative | 0.39 | 0.12 | 9:36:05 |
| 29-Mar-19 | 117 | Lead Paint Inspection | 5.25 | 0 | 0.01 | | Negative | 0 | 0 | 9:36:22 |
| 29-Mar-19 | 118 | Lead Paint Inspection | 5.93 | 0 | 0 | | Negative | 0 | 0 | 9:36:52 |
| 29-Mar-19 | 119 | Lead Paint Inspection | 25.57 | 0.09 | 0.04 | surface | Negative | 0.09 | 0.02 | 9:37:13 |
| 29-Mar-19 | 120 | Lead Paint Inspection | 6 | 0.04 | 0.17 | | Negative | 0.04 | 0.09 | 9:38:00 |
| 29-Mar-19 | 121 | Lead Paint Inspection | 25.49 | > 1.00 | 0.09 | | Positive | 1 | 0.04 | 9:38:22 |
| 29-Mar-19 | 122 | Lead Paint Inspection | 6.12 | 0.32 | 0.15 | surface | Negative | 0.32 | 0.08 | 9:39:17 |
| 29-Mar-19 | 123 | Lead Paint Inspection | 5.19 | 0 | 0 | | Negative | 0 | 0 | 9:39:35 |
| 29-Mar-19 | 124 | Lead Paint Inspection | 5.15 | 0 | 0 | | Negative | 0 | 0 | 9:39:52 |
| 29-Mar-19 | 125 | Lead Paint Inspection | 19.22 | 0.5 | 0.12 | surface | Negative | 0.5 | 0.06 | 9:40:11 |
| 29-Mar-19 | 126 | Lead Paint Inspection | 5.17 | 0 | 0 | | Negative | 0 | 0 | 9:40:50 |
| 29-Mar-19 | 127 | Lead Paint Inspection | 5.12 | 0 | 0 | | Negative | 0 | 0 | 9:41:07 |
| 29-Mar-19 | 128 | Lead Paint Inspection | 4 | > 1.00 | 0.12 | | Positive | 1 | 0.06 | 9:41:39 |
| 29-Mar-19 | 129 | Lead Paint Inspection | 24.81 | > 1.00 | 0.06 | | Positive | 1 | 0.03 | 9:42:09 |
| 29-Mar-19 | 130 | Lead Paint Inspection | 5.22 | > 1.00 | 0.17 | | Positive | 1 | 0.09 | 9:43:03 |
| 29-Mar-19 | 131 | Lead Paint Inspection | 5.26 | 0.36 | 0.13 | surface | Negative | 0.36 | 0.07 | 9:43:30 |

| | | | | | | | | | |
|-----------|-----|-----------------------|-------|--------|--------------|----------|------|------|----------|
| 29-Mar-19 | 132 | Lead Paint Inspection | 5.22 | > 1.00 | 0.14 | Positive | 1 | 0.07 | 9:43:50 |
| 29-Mar-19 | 133 | Lead Paint Inspection | 5.05 | 0.34 | 0.21 surface | Negative | 0.34 | 0.11 | 9:44:21 |
| 29-Mar-19 | 134 | Lead Paint Inspection | 5.06 | 0.42 | 0.3 surface | Negative | 0.42 | 0.15 | 9:44:44 |
| 29-Mar-19 | 135 | Lead Paint Inspection | 5.04 | 0.48 | 0.21 surface | Negative | 0.48 | 0.11 | 9:45:09 |
| 29-Mar-19 | 136 | Lead Paint Inspection | 5.07 | 0.32 | 0.25 surface | Negative | 0.32 | 0.12 | 9:45:35 |
| 29-Mar-19 | 137 | Lead Paint Inspection | 5.04 | 0.02 | 0.07 | Negative | 0.02 | 0.03 | 9:46:01 |
| 29-Mar-19 | 138 | Lead Paint Inspection | 5.14 | 0.15 | 0.12 surface | Negative | 0.15 | 0.06 | 9:46:18 |
| 29-Mar-19 | 139 | Lead Paint Inspection | 6 | 0.39 | 0.11 surface | Negative | 0.39 | 0.05 | 9:46:37 |
| 29-Mar-19 | 140 | Lead Paint Inspection | 6.07 | 0.37 | 0.14 surface | Negative | 0.37 | 0.07 | 9:47:01 |
| 29-Mar-19 | 141 | Lead Paint Inspection | 5.03 | 0.49 | 0.19 surface | Negative | 0.49 | 0.1 | 9:47:25 |
| 29-Mar-19 | 142 | Lead Paint Inspection | 5.06 | 0.39 | 0.16 surface | Negative | 0.39 | 0.08 | 9:47:45 |
| 29-Mar-19 | 143 | Lead Paint Inspection | 5.86 | 0.23 | 0.09 surface | Negative | 0.23 | 0.05 | 9:48:15 |
| 29-Mar-19 | 144 | Lead Paint Inspection | 5.07 | 0.3 | 0.14 surface | Negative | 0.3 | 0.07 | 9:48:41 |
| 29-Mar-19 | 145 | Lead Paint Inspection | 13.27 | 0.05 | 0.04 surface | Negative | 0.05 | 0.02 | 9:49:26 |
| 29-Mar-19 | 146 | Lead Paint Inspection | 5.14 | 0.06 | 0.07 | Negative | 0.06 | 0.03 | 9:49:54 |
| 29-Mar-19 | 147 | Lead Paint Inspection | 5.2 | > 1.00 | 0.11 | Positive | 1 | 0.06 | 9:50:12 |
| 29-Mar-19 | 148 | Lead Paint Inspection | 6.1 | 0.13 | 0.14 | Negative | 0.13 | 0.07 | 9:50:38 |
| 29-Mar-19 | 149 | Lead Paint Inspection | 6.12 | 0 | 0.01 | Negative | 0 | 0 | 9:51:08 |
| 29-Mar-19 | 150 | Lead Paint Inspection | 5.39 | 0.05 | 0.04 surface | Negative | 0.05 | 0.02 | 9:51:43 |
| 29-Mar-19 | 151 | Lead Paint Inspection | 5.9 | 0.03 | 0.03 | Negative | 0.03 | 0.02 | 9:52:03 |
| 29-Mar-19 | 152 | Lead Paint Inspection | 5.05 | 0.05 | 0.06 | Negative | 0.05 | 0.03 | 9:52:34 |
| 29-Mar-19 | 153 | Lead Paint Inspection | 5.96 | 0.35 | 0.13 surface | Negative | 0.35 | 0.06 | 9:53:09 |
| 29-Mar-19 | 154 | Lead Paint Inspection | 5.06 | 0.33 | 0.14 surface | Negative | 0.33 | 0.07 | 9:53:29 |
| 29-Mar-19 | 155 | Lead Paint Inspection | 5.14 | 0.4 | 0.17 surface | Negative | 0.4 | 0.08 | 9:53:47 |
| 29-Mar-19 | 156 | Lead Paint Inspection | 5.25 | 0.01 | 0.04 | Negative | 0.01 | 0.02 | 9:54:18 |
| 29-Mar-19 | 157 | Lead Paint Inspection | 5.2 | 0 | 0 | Negative | 0 | 0 | 9:54:36 |
| 29-Mar-19 | 158 | Lead Paint Inspection | 5.23 | 0 | 0 | Negative | 0 | 0 | 9:54:58 |
| 29-Mar-19 | 159 | Lead Paint Inspection | 24.97 | 0.13 | 0.13 | Negative | 0.13 | 0.06 | 9:55:16 |
| 29-Mar-19 | 160 | Lead Paint Inspection | 5.21 | 0 | 0 | Negative | 0 | 0 | 9:55:59 |
| 29-Mar-19 | 161 | Lead Paint Inspection | 6.14 | 0.01 | 0.03 | Negative | 0.01 | 0.01 | 9:56:21 |
| 29-Mar-19 | 162 | Lead Paint Inspection | 5.14 | 0 | 0 | Negative | 0 | 0 | 9:56:39 |
| 29-Mar-19 | 163 | Lead Paint Inspection | 5.17 | 0 | 0 | Negative | 0 | 0 | 9:56:57 |
| 29-Mar-19 | 164 | Lead Paint Inspection | 5.17 | 0 | 0.02 | Negative | 0 | 0.01 | 9:57:52 |
| 29-Mar-19 | 165 | Lead Paint Inspection | 6.19 | 0 | 0 | Negative | 0 | 0 | 9:58:27 |
| 29-Mar-19 | 166 | Lead Paint Inspection | 5.21 | 0 | 0 | Negative | 0 | 0 | 9:58:45 |
| 29-Mar-19 | 167 | Lead Paint Inspection | 5.06 | 0.02 | 0.06 | Negative | 0.02 | 0.03 | 9:59:10 |
| 29-Mar-19 | 168 | Lead Paint Inspection | 5.4 | 0.1 | 0.08 surface | Negative | 0.1 | 0.04 | 9:59:27 |
| 29-Mar-19 | 169 | Lead Paint Inspection | 5.77 | 0 | 0 | Negative | 0 | 0 | 9:59:48 |
| 29-Mar-19 | 170 | Lead Paint Inspection | 6.56 | 0.08 | 0.07 surface | Negative | 0.08 | 0.03 | 10:00:06 |
| 29-Mar-19 | 171 | Lead Paint Inspection | 5.06 | 0.36 | 0.17 surface | Negative | 0.36 | 0.09 | 10:00:25 |
| 29-Mar-19 | 172 | Lead Paint Inspection | 5.1 | 0.31 | 0.15 surface | Negative | 0.31 | 0.07 | 10:00:44 |
| 29-Mar-19 | 173 | Lead Paint Inspection | 5.03 | 0.36 | 0.18 surface | Negative | 0.36 | 0.09 | 10:01:09 |
| 29-Mar-19 | 174 | Lead Paint Inspection | 5.06 | 0.35 | 0.2 surface | Negative | 0.35 | 0.1 | 10:01:34 |
| 29-Mar-19 | 175 | Lead Paint Inspection | 7.57 | 0.29 | 0.17 surface | Negative | 0.29 | 0.08 | 10:02:03 |
| 29-Mar-19 | 176 | Lead Paint Inspection | 25.02 | 0.2 | 0.06 surface | Negative | 0.2 | 0.03 | 10:02:22 |
| 29-Mar-19 | 177 | Lead Paint Inspection | 5.19 | 0.35 | 0.23 surface | Negative | 0.35 | 0.11 | 10:03:05 |
| 29-Mar-19 | 178 | Lead Paint Inspection | 5.31 | 0.02 | 0.03 | Negative | 0.02 | 0.01 | 10:03:23 |
| 29-Mar-19 | 179 | Lead Paint Inspection | 20.37 | 0.13 | 0.07 surface | Negative | 0.13 | 0.03 | 10:03:45 |
| 29-Mar-19 | 180 | Lead Paint Inspection | 5.13 | 0 | 0.01 | Negative | 0 | 0 | 10:04:23 |
| 29-Mar-19 | 181 | Lead Paint Inspection | 5.37 | 0.12 | 0.09 surface | Negative | 0.12 | 0.05 | 10:04:40 |
| 29-Mar-19 | 182 | Lead Paint Inspection | 5.01 | 0.07 | 0.09 | Negative | 0.07 | 0.05 | 10:04:56 |
| 29-Mar-19 | 183 | Lead Paint Inspection | 5.09 | 0.09 | 0.11 | Negative | 0.09 | 0.06 | 10:05:13 |
| 29-Mar-19 | 184 | Lead Paint Inspection | 5.09 | 0.29 | 0.13 surface | Negative | 0.29 | 0.07 | 10:05:39 |
| 29-Mar-19 | 185 | Lead Paint Inspection | 5.01 | 0.36 | 0.15 surface | Negative | 0.36 | 0.08 | 10:05:57 |
| 29-Mar-19 | 186 | Lead Paint Inspection | 5.12 | 0.52 | 0.2 surface | Negative | 0.52 | 0.1 | 10:06:23 |
| 29-Mar-19 | 187 | Lead Paint Inspection | 5.04 | 0.36 | 0.16 surface | Negative | 0.36 | 0.08 | 10:06:53 |
| 29-Mar-19 | 188 | Lead Paint Inspection | 5.3 | 0 | 0 | Negative | 0 | 0 | 10:07:17 |
| 29-Mar-19 | 189 | Lead Paint Inspection | 5.18 | 1.17 | 0.17 surface | Positive | 1.17 | 0.08 | 10:09:13 |
| 29-Mar-19 | 190 | Lead Paint Inspection | 5.32 | 0 | 0 | Negative | 0 | 0 | 10:09:36 |

APPENDIX B: PERFORMANCE CHARACTERISTIC SHEET

Performance Characteristic Sheet

EFFECTIVE DATE: December 1, 2006

EDITION NO.: 1

MANUFACTURER AND MODEL:

Make: *Innov-X Systems, Inc.*
 Models: *LBP4000 with software version 1.4 and higher*
 Source: *X-ray tube*

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

Inspection mode, variable reading time.

XRF CALIBRATION CHECK LIMITS:

1.0 to 1.1 mg/cm² (inclusive)

SUBSTRATE CORRECTION:

Not applicable

INCONCLUSIVE RANGE OR THRESHOLD:

| INSPECTION MODE READING DESCRIPTION | SUBSTRATE | INCONCLUSIVE RANGE (mg/cm ²) |
|-----------------------------------------------------------|-----------|---------------------------------------------|
| Results not corrected for substrate bias on any substrate | Brick | 0.6 to 1.1 |
| | Concrete | 0.6 to 1.1 |
| | Drywall | 0.6 to 1.1 |
| | Metal | 0.6 to 1.1 |
| | Plaster | 0.6 to 1.1 |
| | Wood | 0.6 to 1.1 |

BACKGROUND INFORMATION

EVALUATION DATA SOURCE AND DATE:

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated from the EPA/HUD evaluation using archived building components. Testing was conducted on 146 test locations, with two separate instruments, in December 2005.

OPERATING PARAMETERS:

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

XRF CALIBRATION CHECK:

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm² in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm² film).

If the average (rounded to 1 decimal place) of three readings is outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instrument into control before XRF testing proceeds.

SUBSTRATE CORRECTION VALUE COMPUTATION:

Chapter 7 of the HUD Guidelines provides guidance on correcting XRF results for substrate bias. Supplemental guidance for using the paint film nearest 1.0 mg/cm² for substrate correction is provided:

XRF results are corrected for substrate bias by subtracting from each XRF result a correction value determined separately in each house for single-family housing or in each development for multifamily housing, for each substrate. The correction value is an average of XRF readings taken over the NIST SRM paint film nearest to 1.0 mg/cm² at test locations that have been scraped bare of their paint covering. Compute the correction values as follows:

Using the same XRF instrument, take three readings on a bare substrate area covered with the NIST SRM paint film nearest 1 mg/cm². Repeat this procedure by taking three more readings on a second bare substrate area of the same substrate covered with the NIST SRM.

Compute the correction value for each substrate type where XRF readings indicate substrate correction is needed by computing the average of all six readings as shown below.

For each substrate type (the 1.02 mg/cm² NIST SRM is shown in this example; use the actual lead loading of the NIST SRM used for substrate correction):

$$\text{Correction value} = (1\text{st} + 2\text{nd} + 3\text{rd} + 4\text{th} + 5\text{th} + 6\text{th Reading}) / 6 - 1.02 \text{ mg/cm}^2$$

Repeat this procedure for each substrate requiring substrate correction in the house or housing development.

EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing.

Conduct XRF re-testing at the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below.

Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family and multi-family housing, a result is defined as a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

Calculate the average of the original XRF result and the retest XRF result for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF readings.

Compute the average of all ten re-test XRF readings.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Retest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

TESTING TIMES:

For the variable-time inspection paint test mode, the instrument continues to read until it has determined whether the result is positive or negative (with respect to the 1.0 mg/cm² Federal standard), with 95% confidence. The following table provides testing time information for this testing mode.

| Testing Times Using Variable Reading Time Inspection Mode (Seconds) | | | | | | |
|---------------------------------------------------------------------|-----------------------------|--------|-----------------------------|------------------------------------------------------------------|-----------------|----------|
| Substrate | All Data | | | Median for laboratory-measured lead levels (mg/cm ²) | | |
| | 25 th Percentile | Median | 75 th Percentile | Pb < 0.25 | 0.25 ≤ Pb < 1.0 | 1.0 ≤ Pb |
| Wood, Drywall | 2.1 | 2.3 | 5.4 | 2.2 | 5.4 | 2.2 |
| Metal | 2.6 | 3.2 | 5.3 | 2.7 | 5.1 | 5.1 |
| Brick, Concrete, Plaster | 3.1 | 4.0 | 5.7 | 3.2 | 4.0 | 5.9 |

CLASSIFICATION OF RESULTS:

When an inconclusive range is specified on the *Performance Characteristic Sheet*, XRF results are classified as positive if they are greater than the upper boundary of the inconclusive range, negative if they are less than the lower boundary of the inconclusive range, or inconclusive if in between. The inconclusive range includes both its upper and lower bounds. If the instrument reads "> x mg/cm²", the value "x" should be used for classification purposes, ignoring the ">". For example, a reading reported as ">1.0 mg/cm²" is classified as 1.0 mg/cm², or **inconclusive**. When the inconclusive range reported in this PCS is used to classify the readings obtained in the EPA/HUD evaluation, the following False Positive, False Negative and Inconclusive rates are obtained:

- FALSE POSITIVE RATE: 2.5% (2/80)
- FALSE NEGATIVE RATE: 1.9% (4/212)
- INCONCLUSIVE RATE: 16.4% (48/212)

DOCUMENTATION:

A document titled *Methodology for XRF Performance Characteristic Sheets* provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. For a copy of this document call the National Lead Information Center Clearinghouse at 1-800-424-LEAD.

This XRF Performance Characteristic Sheet was developed by the Midwest Research Institute (MRI) and QuanTech, Inc., under a contract between MRI and the XRF manufacturer. XRF Performance Characteristic Sheets were originally developed by the MRI under a grant from the U. S. Environmental Protection Agency and the U.S. Department of Housing and Urban Development. HUD has determined that the information provided here is acceptable when used as guidance in conjunction with Chapter 7, Lead-Based Paint Inspection, of HUD's *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*.

APPENDIX C: NIST CERTIFICATE OF ANALYSIS FOR SRM STANDARDS



National Institute of Standards & Technology

Certificate of Analysis

Standard Reference Material[®] 2573

Lead Paint Film for Building Surfaces (Nominal Pb 1.0 mg/cm²) (Color: Red)

This Standard Reference Material (SRM) is intended for validation of results from portable, hand-held, X-ray fluorescence analyzers, when testing for lead in paint coatings on interior and exterior building surfaces. A unit of SRM 2573 consists of a white polyester sheet, approximately 7.6 cm wide, 10.2 cm long, and 0.2 mm thick, coated with a single, red-colored paint layer, approximately 0.04 mm thick. Included is one unit of SRM 2570, which is coated with a lead-free, lacquer layer of the same thickness as a lead paint layer and is intended as a blank. All sheets are over-coated with a clear, thin, plastic laminate to protect the surface from abrasion.

Certified Values: The measurand is the total lead areic mass in cured paint for each level listed below [1]. A NIST certified value is a value for which NIST has the highest confidence in its accuracy, in that all known or suspected sources of bias have been investigated or taken into account [2]. Value assignment categories are based on the definitions of terms and modes used at NIST for certification of chemical reference materials [2]. The certified value is based on measurements by isotope dilution inductively coupled plasma mass spectrometry (ID-ICP-MS).

| Level | Color | Lead Areic Mass (mg/cm ²) |
|----------|---------------|------------------------------------------|
| SRM 2570 | White (blank) | < 0.001 |
| SRM 2573 | Red | 1.040 ± 0.064 |

The uncertainty associated with each certified value is an expanded uncertainty, U , and was evaluated in accordance with the ISO/JCGM Guides [3,4]. Because of variability in the paint film between different sheets of each SRM, the uncertainties are 95 % prediction intervals. The expanded uncertainty is calculated as $U = k u_c$, where u_c is intended to represent, at the level of one standard deviation, the combined uncertainty due to material variability and measurement uncertainty. The coverage factor, k , is determined from the Student's t -distribution corresponding to the calculated effective degrees of freedom and 95 % level of confidence. Metrological traceability is to the SI units for mass and length (expressed as milligrams per centimeter-squared).

Expiration of Certification: The certification of **SRM 2573** is valid, within the measurement uncertainty specified, until **01 July 2026**, provided the SRM is handled and stored in accordance with the instructions given in this certificate (see "Instructions for Use"). The certification is nullified if the SRM is damaged, contaminated, or otherwise modified.

Maintenance of SRM Certification: NIST will monitor this SRM over the period of its certification. If substantive technical changes occur that affect the certification before the expiration of this certificate, NIST will notify the purchaser. Registration (see attached sheet or register) will facilitate notification.

Coordination of technical measurements for the certification of this SRM was performed by G.C. Turk and J.D. Fassett of the NIST Chemical Sciences Division.

Measurements for value assignments of this SRM were performed by K.E. Murphy, J.R. Sieber, A.F. Marlow, L.J. Wood, P.R. Seo, and M. Lankosz of the NIST Chemical Sciences Division.

Carlos A. Gonzalez, Chief
Chemical Sciences Division

Gaithersburg, MD 20899
Certificate Issue Date: 14 April 2016
Certificate Revision History on Last Page

Steven J. Choquette, Acting Director
Office of Reference Materials

**LEAD-BASED PAINT INSPECTION, 21 PARNELL BUILDING, DAYTON, OHIO
MARCH 2019**

APPENDIX D: OHIO DEPARTMENT OF HEALTH LICENSE



OHIO DEPARTMENT OF HEALTH

246 North High Street
Columbus, Ohio 43215

614/466-3543
www.odh.ohio.gov

John R. Kasich/Governor

Richard Hodges/Director of Health

March 31, 2017

Ralph A Froehlich
Helix Environmental Inc
1 Elizabeth Place Suite 160H
Dayton OH 45417

RE: Lead Risk Assessor
License Number: LA000559
Expiration Date: 03/30/2019

Dear Ralph A Froehlich:

This letter and enclosed license approves your request to be licensed as a Lead Risk Assessor. You must present your license upon request at any project site while performing duties. A copy of your license is not acceptable as proof of licensure.

Please be aware of the rules and regulations governing your discipline for Ohio. If you choose to renew this license, you must take an Ohio approved refresher course appropriate for the discipline within 2 years of your previous training course. Please visit our website at www.odh.ohio.gov for information.

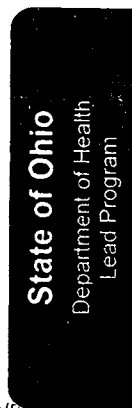
This license may be revoked by the Director of Health for violation of any of the requirements of 3701-32 of the Ohio Administrative Code.

If you have any questions, please call the Ohio Department of Health, Lead Poisoning Prevention Program at 1-877-668-5323.

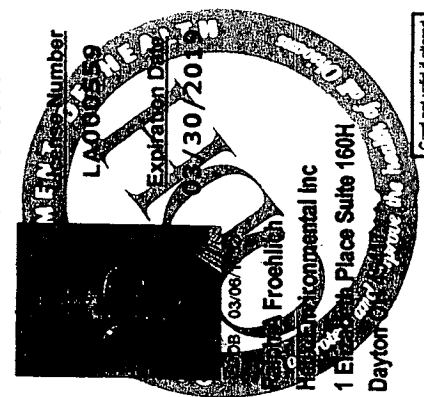
Sincerely,

Mark Needham, Supervisor
Lead Program
Bureau of Environmental Health and Radiation Protection
Office of Health Assurance and Licensing

Enclosure



Lead Risk Assessor



Card not valid if altered
This certification is issued pursuant of Chapter 3742 of the Revised Code and 3701-32 of the Ohio Administrative Code



Department of Health

Mike DeWine, Governor
Jon Husted, Lt. Governor

Amy Acton, MD, MPH, Director

April 03, 2019

Ralph A Froehlich
Helix Environmental Inc
1 Elizabeth Place Suite 160H
Dayton OH 45417

RE: Lead Risk Assessor
License Number: LA000559
Expiration Date: 04/01/2021

Dear Ralph A Froehlich:

This letter and enclosed license approves your request to be licensed as a Lead Risk Assessor. You must present your license upon request at any project site while performing duties. A copy of your license is not acceptable as proof of licensure.

Please be aware of the rules and regulations governing your discipline for Ohio. If you choose to renew this license, you must take an Ohio approved refresher course appropriate for the discipline within 2 years of your previous training course. Please visit our website at www.odh.ohio.gov for information.

This license may be revoked by the Director of Health for violation of any of the requirements of 3701-32 of the Ohio Administrative Code.

If you have any questions, please call the Ohio Department of Health, Lead Poisoning Prevention Program at (614) 466-1450.

Sincerely,

Shamus Estep, R.S.
Program Administrator
Bureau of Environmental Health and Radiation Protection

246 North High Street
Columbus, Ohio 43215 U.S.A.

614 | 466-3543
www.odh.ohio.gov

State of Ohio
Department of Health
Lead Program

Lead Risk Assessor

License Number
LA000559

Expiration Date
04/01/2021

DOB 03/06/1952

Ralph A Froehlich
Helix Environmental Inc
1 Elizabeth Place Suite 160H
Dayton OH 45417

Card not valid if altered

This certification is issued pursuant to Chapter 3742 of the Revised Code and 3701.32 of the Ohio Administrative Code

OLYMPUS

CERTIFICATE of COMPLETION

THIS ACKNOWLEDGES THAT

Ralph A. Froehlich

HAS SUCCESSFULLY COMPLETED ON NOVEMBER 03, 2015

RADIATION SAFETY FOR HANDHELD
XRF INSTRUMENT OPERATION
FOR POSITIVE MATERIAL IDENTIFICATION



*This certifies that the above named has completed the curriculum of
the Olympus Scientific Solutions Americas Radiation Safety &
Operator Training for field portable
X-Ray Fluorescence Spectrum Analyzers for the use of Positive
Material Identification inspections*



Edward Walker

Authorized Trainer
Olympus Scientific Solutions

Michael L. Tremblay

Corporate RSO
Olympus Scientific Solutions

THIS SHEET LEFT INTENTIONALLY BLANK

ASBESTOS INSPECTION REPORT

FOR

**Huffman/Parnell Apartment Building
21 Parnell Avenue
Dayton, Ohio**

Project Number: 18460-4

Prepared for:

**Greater Dayton Premier Management
400 Wayne Avenue
Dayton, Ohio 45401**

BY

**TURN-KEY ENVIRONMENTAL CONSULTANTS, INC.
714 East Monument Avenue
Dayton, Ohio 45402
(937) 335-8807**

**Inspection Conducted: March 25, 2019
Report Date: April 16, 2019**

TABLE OF CONTENTS

| | <u>Page</u> |
|----------------------------------------------------|--------------------|
| Section 1 Scope of Services..... | 2 |
| Section 2 Executive Summary..... | 4 |
| Section 3 Methodology..... | 6 |
| Section 4 Material Quantities of ACBM..... | 15 |
| Section 5 Estimated Abatement Costs..... | 16 |
| Section 6 Conclusions and Summary of Findings..... | 17 |

Appendices

Appendix A – Site Specific Work Plan

Appendix B – Inspector's Certifications

Appendix C – Asbestos Bulk Sample Log

Appendix D – Asbestos Inspection and Assessment Summary

Appendix E - Analytical Laboratory Reports

Appendix F – Sample Location Sketches

Appendix G – Photographs

Appendix H – 10-Day Notification Form and Instructions

1.0 SCOPE OF SERVICES

In March 2019, Greater Dayton Premier Management (GDPM) contracted with **Turn-Key Environmental Consultants, Inc. (TKEC)** to conduct a comprehensive building inspection for asbestos-containing materials (ACM) at the Huffman/Parnell Apartment Building located at 21 Parnell Ave., Dayton, Montgomery County, Ohio.

TKEC was authorized to conduct this assessment under the Notice to Proceed #1 under RFP #4, Phase I ESA, ACM-LBP Testing at the Huffman/Parnell – OH005-015A Property located at 21 Parnell Ave., Dayton, OH 45403, dated March 13, 2019. According to the Montgomery County Auditor, the building is owned by the Dayton Metropolitan Housing Authority, 400 Wayne Ave., Dayton, OH 45410-1110, phone no. 937-910-7637.

Our investigation was conducted in accordance with the Site-Specific Work Plan dated March 12, 2019 (See APPENDIX A - SITE SPECIFIC WORK PLAN), and by standard scientific, environmental and engineering practices. Asbestos sampling and assessment were performed by Ohio Certified Asbestos Hazard Evaluation Specialists. **TKEC's** Scope of Services included the following:

1. Perform asbestos sampling and assessment of building materials to be impacted by demolition/renovation activities by physically collecting a representative amount of homogeneous samples and having the samples analyzed by a certified laboratory. The samples will be analyzed using the polarized light microscopy (PLM) bulk method. Samples will be obtained from representative surfaces based on color, texture, date of installation and location. Destructive sampling methods were **not** employed to access behind walls and above ceilings. All waste generated during sampling activities (disposal of PPE, etc.) will be properly

- disposed of by TKEC.
2. Label each sample location in the field with a unique sample number to allow for easy identification of the ACM by the abatement contractor.
 3. Provide an asbestos survey report to the Client, which will include a brief discussion of the inspection, sampling methodology, type and extent of ACM, mapping, sampling locations, analytical test results and recommendations.

The purpose of the inspection was to identify those accessible building materials that may contain asbestos, collect and analyze bulk samples in accordance with EPA-recommended guidelines, and report the types, locations, and quantities of ACM present in the building that require abatement prior to their demolition/renovation.

Two (2) **TKEC** Ohio Environmental Protection Agency (OEPA) Certified Asbestos Hazard Evaluation Specialists conducted a detailed inspection of the Huffman/Parnell Ave. Apartment Building on March 25, 2019. They also collected representative bulk samples of suspect asbestos containing materials, documented the locations of those suspect materials, and quantified the materials in question. This report documents conditions of the Property as observed on that date.

2.0 EXECUTIVE SUMMARY

A total of fifty-five (55) bulk samples were collected from the Huffman/Parnell Apartment Building, all of which were analyzed for asbestos fiber content by Polarized Light Microscopy (PLM). Some of the samples were comprised of layers which resulted in a total of ninety-six (96) PLM analyses.

A two (2) story building with a full basement contains twelve (12) apartments and occupies approximately 15,672 SF is located on the property. Accessible areas of each apartment were inspected; however, samples were not collected from each apartment. Instead, materials were sampled that differed from previously sampled building components. The addresses of the apartments that comprise the subject property are as follows:

| | |
|---------------------------|----------------------------|
| 1202 Huffman Ave., Apt. A | 1202 Huffman Ave., Apt B |
| 1204 Huffman Ave., Apt, A | 1204 Huffman Ave., Apt, B* |
| 1208 Huffman Ave., Apt. A | 1208 Huffman Ave., Apt. B |
| 1210 Huffman Ave., Apt. A | 1210 Huffman Ave., Apt. B |
| 9 Parnell Ave., Apt. A* | 9 Parnell Ave., Apt. B* |
| 11 Parnell Ave., Apt A* | 11 Parnell Ave., Apt. B |

*Apartment units not sampled

A General Floor Plan that illustrates the building areas, the approximate sample locations, and locations of identified ACM, are included in Appendix F.

For sampling purposes, these areas were further divided into a total of ten (10) homogeneous areas. A Homogeneous Area is defined as “an area of asbestos containing building material (ACBM) or suspect ACBM which appears similar throughout in terms of color, texture, and date of application”. Seven (7) of the samples analyzed contained one percent (1%), or greater than one percent (>1%) asbestos, causing the materials to be classified as asbestos containing materials (ACM). The asbestos containing materials by Building Area are:

Basement

- **Asbestos Millboard (Approximately 132 SF)**

Inaccessible Areas

Efforts were made to quantify ACM which may be located behind walls, above hard plaster ceiling, etc.; however, since additional ACM could be in inaccessible areas of the building, **TKEC** cannot guarantee that additional ACM will not be found during the course of abatement or demolition/renovation activities.

Electrical wiring, cable boxes, panels, transformers, and underground piping may contain asbestos. These materials were not included in this investigation. An asbestos inspection should be performed on these materials during demolition to determine if these materials are ACM.

3.0 METHODOLOGY

Turn-Key Environmental Consultants, Inc. (TKEC) entered into an agreement with Greater Dayton Premier Management (GDPM), to conduct an asbestos inspection of the Huffman/Parnell Apartment Building located at 21 Parnell Ave., Dayton, Montgomery County, Ohio.

The National Emission Standards for Hazardous Air Pollutants (NESHAP, 40 CFR61 subpart M) requires notification for all demolition or major renovation projects. Prior to demolition or major renovation activities, the facility must be inspected for all friable and non-friable ACM. This inspection must be performed by Ohio Certified Asbestos Hazard Evaluation Specialists.

Joseph Saunders (OEPA Certification #ES34837) and Derrek Mallery (OEPA Certification #ES36194) Ohio Certified Asbestos Hazard Evaluation Specialists conducted a detailed inspection of the Huffman/Parnell Apartment Building on March 25, 2019. A copy of Mr. Saunders' and Mr. Mallery's Training Certifications and Licenses are included in Appendix B.

The inspection of the Huffman/Parnell Apartment Building included a room-by-room walk-through investigation of the building, during which time the accessible areas were visually checked for the presence of suspect ACM. During the building evaluation, the inspector looked for suspect materials on building components such as walls, floors, ceilings, etc. that could contain asbestos. Sampling areas containing homogeneous

materials were identified and suspect materials were touched to determine their degree of friability.

Materials suspected of containing ACM were sampled during the asbestos inspection. Fifty-five (55) samples were collected from the Huffman/Parnell Apartment Building during the inspection. Some of the samples were comprised of layers which resulted in the analysis of a total of ninety-six (96) samples. These samples were collected in areas that gave an accurate representation of the type of ACM present.

The samples were transported, under chain of custody to Hayes Microbial Consulting, LLC (Hayes Microbial) in Midlothian, Virginia, where they were analyzed using polarized light microscopy (PLM) (EPA 600/R-93, M-4/82-020). Hayes Microbial is a National Voluntary Laboratory Accredited Program (NVLAP) accredited laboratory for Transmission Electron Microscopy (TEM) and Polarized Light Microscopy (PLM) asbestos testing (NVLAP Lab Code 500096-0).

METHOD OF SAMPLING AND ANALYSIS

BACKGROUND

Asbestos is the name of a class of magnesium-silicate minerals that occur in fibrous form. Minerals that are included in this group are chrysotile, crocidolite, amosite, anthophyllite, tremolite, and actinolite. Asbestos is, and was, used in the manufacture of a variety of products where heat resistance and durability were important.

Asbestos is a known human carcinogen. The inhalation of asbestos fibers has been clearly associated with three clinical manifestations: asbestosis, mesothelioma (a cancer of the lining of the chest or abdomen), and lung cancer. These epidemiological investigations were based on occupational exposures to asbestos. Accordingly, governmental regulations were promulgated by OSHA to establish a Permissible Exposure Limit (PEL) for asbestos fibers per cubic centimeter (f/cc) for workplace exposure for workers, based on an eight (8) hour Time-Weighted Average (TWA). At this time, the current PEL of 0.1 f/cc based on an eight (8) hour TWA has been established for workplace exposure.

The potential for an asbestos-containing product to release breathable fibers depends largely on its degree of friability. Friable means that the material can be crumbled with hand pressure and is therefore likely to emit fibers. The sprayed-on materials used for fireproofing, insulation, or soundproofing are considered to be friable, and they readily release airborne fibers if disturbed. Similarly, insulation used on piping systems and power-generating devices are generally considered friable and can readily release fibers when disturbed.

Nonfriable materials can be broken down into two categories as specified in 40 CFR Part 61 Subpart M. Category I nonfriable ACMs such as packings, gaskets, resilient floor coverings, and asphalt roofing products generally do not emit airborne fibers unless subjected to sanding, grinding, cutting, or abrading activities. Category II nonfriable

ACMs, such as cement sheets or pipes, also do not generally emit airborne fibers unless subjected to aggressive activities. However, Category II nonfriable ACMs have a higher probability of becoming friable than Category I nonfriable ACMs due to their less resilient qualities. Construction projects, which may involve disturbance of asbestos, such as demolition or renovation, may result in the release of microscopic asbestos fibers into the environment.

During the inspection all building materials that are suspect as Asbestos-Containing Materials were delineated. The following table lists materials that are not suspect as Asbestos-Containing Materials (ACM). All other suspect materials, with the potential of being disturbed or becoming friable during construction or demolition activity, were inspected. The suspect materials were then assessed as to friability or potential friability.

Table I. EPA Excluded Building Materials, by Definition and Visualization:

| | |
|----------------|---------------------------|
| Concrete | Brick (except fire brick) |
| Concrete Block | Wood |
| Glazed Block | Plastic |
| Ceramic Tile | Fiberglass Insulation |
| Metal | Foam Rubber Insulation |
| Glass | Styrofoam Insulation |
| Carpet | |

Following the assessment, the suspect materials were placed in homogeneous areas. A homogeneous area contains material that is uniform in texture, appearance, installed at the same time, and is unlikely to contain more than one type or formulation of material.

The homogeneous areas were then placed into one of the following three groups of building materials:

1. **Thermal System Insulation (TSI)** consists of the coverings of pipes, pipefittings, boilers, hot water storage tanks, etc. This insulation may or may not contain asbestos, however, when asbestos is present in TSI, it usually comprises a high percentage of the insulating material. Consequently, the potential for damage and friability is of increased concern.
2. **Surfacing Material** is a material that is sprayed or troweled onto a structure, such as plaster. The asbestos content varies but is usually relatively low. Three (3) bulk samples were collected for each homogeneous area less than or equal to 1,000 square feet. If the homogeneous area is greater than 1,000 square feet but less than 5,000 square feet, five (5) bulk samples were collected. For homogeneous areas greater than 5,000 square feet at least seven (7) bulk samples were collected. Random sample locations in each homogeneous area of suspect surfacing materials were determined by the inspector during the initial inspection.
3. **Miscellaneous Materials** are those which are added to the completed structure, such as ceiling tile, floor tile, drywall, transite panels, duct tape, etc. The asbestos content varies from low to high, dependent upon the materials. These materials were sampled “in a manner sufficient to determine” whether the material in question contained asbestos.

BULK SAMPLE COLLECTION PROTOCOL

To limit disturbance and to prevent the release of asbestos fibers, the inspector performed bulk sampling of suspect materials in accordance with generally accepted procedures outlined in the current EPA Guidance Document and in accordance with the Asbestos Hazard Emergency Response Act (AHERA – Section 763.86) protocol. Each sample was collected and placed in a clean, sealable vial or plastic bag and labeled with a unique sample number. This sample number was recorded on a Bulk Sample Log.

Supplemental information was also recorded on the Bulk Sample Log, including date of inspection, name of inspector, the building name (or number), a brief description and location of the sample, and the type of material sampled (e.g. thermal insulation, fireproofing, or plaster). The Bulk Sample Logs for this project are included in Appendix C.

ANALYSIS OF BULK SAMPLES

The samples were transported, under chain of custody, to the Hayes Microbial Consulting, LLC. (Hayes Microbial) in Midlothian, Virginia, for analysis. Bulk samples were analyzed for asbestos content using EPA Method 600/R-93/116, M-4/82-020, which incorporates the use of stereoscopic microscopy and polarized-light microscopy (PLM) coupled with dispersion staining. This analytical method, which the EPA currently recommends for the determination of asbestos in bulk samples of friable insulation materials, can be used for qualitative identification of six (6) morphologically different types of asbestos fibers: chrysotile, crocidolite, amosite, anthophyllite, tremolite, and actinolite.

This method specifies that the asbestos content in a bulk sample shall be estimated and reported as a finite percentage (rounded to the nearest percent) within the range of 0 to 100. Minute quantities of asbestos in bulk samples may be reported as “trace” or less than one-percent (<1%). The analytical method determined the “*area percent*” asbestos or the percentage of the area of a microscopic field of view that is occupied by asbestos fibers. Samples were determined to be Asbestos-Containing Materials when the asbestos

content was **greater** than one-percent ($>1\%$). A building material that contains one-percent asbestos or less ($\leq 1\%$) is not considered to be an Asbestos-Containing Material by USEPA. If friable ACM samples contained greater than one-percent ($>1\%$) asbestos, but less than ten-percent ($<10\%$) asbestos, those samples were further analyzed by PLM EPA 400 Point Count which is a more definitive test for the presence of asbestos.

The results of bulk sample analyses were reported in a standard laboratory report. This written report includes the client name, the laboratory identification numbers assigned to each bulk sample upon receipt by the laboratory custodian, and the field number assigned to each bulk sample during the building inspection. The composition of the bulk sample is reported in percentages of asbestos (i.e., chrysotile, amosite, crocidolite, or other) and non-asbestos (i.e., cellulose, fiberglass, synthetic, or other) components.

Hayes Microbial Consulting, LLC. Analytical laboratory is fully accredited by the National Voluntary Laboratory Accreditation Program (NVLAP #500096-0). NVLAP is the agency sponsored by the National Institute of Standards and Technology providing EPA accreditation of laboratories analyzing bulk samples for asbestos content by PLM under AHERA.

SUMMARY OF ANALYTICAL RESULTS

The analytical results of the samples collected during the ACM inspection are summarized on the Inspection and Assessment Summary Table in Appendix D. The table provides the following information:

- A description of the material sampled.
- The location from where the sample was collected.
- The percentage and type of asbestos present.
- The identification number assigned to the sample by the evaluation specialist in the field.

Copies of the Analytical Laboratory Reports are included in Appendix E.

The building contained approximately 15,500 SF of plaster/skim coat. This Category II Friable material was represented by fifteen (15) randomly located samples. None of these samples contained asbestos. Asbestos abatement is not required if this material is disturbed or removed.

Seven (7) samples contained greater than one-percent (>1%) asbestos. Three (3) samples of asbestos millboard contained 40% - 55% chrysotile asbestos. Eleven apartments had approximately 12 SF of asbestos millboard installed over the furnace in the basement. If this material is to be removed, it must be done by a certified asbestos hazard abatement contractor.

Two (2) window caulk samples contained 2% chrysotile asbestos. These samples were further analyzed by PLM EPA 400 Point Count to more accurately determine their asbestos content. The point count analytical results indicate that the samples contained 0.25% and <0.25% chrysotile asbestos, respectively. The windows caulk on the building does not have to be abated.

Two (2) door caulk samples contained 5% chrysotile asbestos. These samples were further analyzed by PLM EPA 400 Point Count to more accurately determine their asbestos content. The point count analytical results indicate that the samples contained 0.75% and 0.5% chrysotile asbestos respectively. The door caulk on the building does not have to be abated.

4.0 MATERIAL QUANTITIES OF ACBM

Per protocol outlined in AHERA, the inspector must state how the quantities of asbestos containing building materials (ACBM) were determined. For the Huffman/Parnell Apartment Building, these quantities were estimated by using the physical dimensions determined from drawings provided by GDPM, and then verifying these dimensions with actual measurements in the building itself. Sketches of the building are included in Appendix F.

A brief summary of the estimated quantities of asbestos containing materials that require abatement prior to demolition is provided below. These quantities are for informational purposes only and are based on the best information available at the time of the asbestos survey. The Asbestos Abatement Contractor shall be responsible for confirming the actual quantities of all materials that require abatement. Nothing in this section may be interpreted as limiting the extent of work otherwise required by this contract and related documents. The quantities of ACBM for each Homogeneous Area can be found in the Inspection and Assessment Summary in Appendix C.

Estimated Quantities of Identified Asbestos

Basement

- **Asbestos Millboard – 132 SF**

5.0 ESTIMATED ABATEMENT COSTS

The estimated costs for abating the identified materials in the Huffman/Parnell Apartment Building are summarized below:

| <u>Material</u> | <u>Estimated Quantity</u> | <u>Estimated Unit Costs</u> | <u>Estimated Costs</u> |
|---------------------------|----------------------------------|------------------------------------|-------------------------------|
| Asbestos Millboard | 132 SF | \$10.00/SF | \$1,320.00 |

Estimated costs are based on prevailing costs in the Midwest for 2019, and do not include costs for planning, permitting, contractor oversight or air monitoring. Actual costs may vary from estimated costs due to contractor workloads, season, or changes in regulatory requirements.

6.0 CONCLUSIONS AND SUMMARY OF FINDINGS

TKEC performed an asbestos inspection of the Huffman/Parnell Apartment Building located at 21 Parnell Ave., Dayton, Montgomery County, Ohio. The Inspection and Assessment Summary (Appendix D) provides an inventory of ACM identified at the facility and includes the location, material description, homogeneous area number, type of ACM, and estimated quantity of each ACBM sampled. A total of fifty-five (55) bulk samples were collected from the Huffman/Parnell Apartment Building, all of which were analyzed for asbestos fiber content by Polarized Light Microscopy (PLM). Some of the samples were in layers which resulted in a total of ninety-six (96) PLM analyses. The bulk samples were collected from a total of ten (10) different homogeneous areas.

The building contained approximately 15,500 SF of plaster/skim coat. This Category II Friable material was represented by fifteen (15) randomly located samples. None of these samples contained asbestos. Asbestos abatement is not required if this material is disturbed or removed.

Seven (7) samples contained greater than one-percent (>1%) asbestos. Three (3) samples of asbestos millboard contained 40% - 55% chrysotile asbestos. Eleven apartments had approximately 12 SF of asbestos millboard installed over the furnace in the basement. If this material is to be removed, it must be done by a certified asbestos hazard abatement contractor.

Two (2) window caulk samples contained 2% chrysotile asbestos. These samples were further analyzed by PLM EPA 400 Point Count to more accurately determine their asbestos content. The point count analytical results indicate that the samples contained 0.25% and <0.25% chrysotile asbestos, respectively. The windows caulk on the building does not have to be abated.

Two (2) door caulk samples contained 5% chrysotile asbestos. These samples were further analyzed by PLM EPA 400 Point Count to more accurately determine their asbestos content. The point count analytical results indicate that the samples contained 0.75% and 0.5% chrysotile asbestos respectively. The door caulk on the building does not have to be abated.

If you desire to remove the millboard from the eleven apartments, the estimated cost for removing the material from the building prior to renovation/demolition is **\$1,320.00**.

Current asbestos laws and regulations require the removal of asbestos-containing materials (ACM) prior to initiation of renovation/demolition activities of those materials in affected areas. To meet this requirement, an Ohio Environmental Protection Agency licensed asbestos hazard abatement contractor must be contracted to perform the removal work and submit the necessary notifications. For your convenience, a copy of the notification form and instructions are attached to this report. It is also recommended that a professional third-party environmental consultant provide oversight during asbestos

abatement and to provide post abatement visual and/or air clearances to confirm adequate completion of abatement activities prior to proceeding with renovation/demolition.

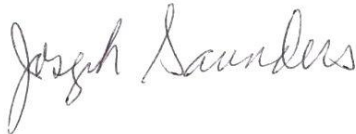
TKEC makes no warranty, either expressed or implied, that this site is free from other Asbestos-Containing Materials, which could be buried or concealed between building structures. Our investigation was conducted in accordance with standard scientific, environmental, and engineering practices.

Turn-Key Environmental Consultants, Inc. is not responsible for conclusions, recommendations, determinations, or data interpretations that may be made by other parties, based on the information provided in this report.

Respectfully submitted,
TURN-KEY ENVIRONMENTAL CONSULTANTS, INC.



Derrek Mallery, Field Technician
OEPA Asbestos Hazard Evaluation Specialist
No. ES36194, Exp. Date 09/05/2019



Joseph Saunders, Senior Project Manager
ODH Asbestos Hazard Evaluation Specialist
No. ES34837, Exp. Date 06/10/2019



William Treasure
Vice President

APPENDIX A

Site Specific Work Plan



Turn-Key Environmental Consultants, Inc.

790 Barnhart Rd.
Troy, OH 45373

Phone: 937-335-8807
Fax: 937-339-4882

March 12, 2019

Mr. Kevin Arnold
Greater Dayton Premier Management
400 Wayne Avenue
Dayton, Ohio 45401

**RE: Site Specific Work Plan and Cost Estimate Task Assignment RFP 4, Phase I ESA,
ACM-LBP Testing at 21 Parnell Avenue.**

Dear Mr. Arnold:

In response to **Task Assignment RFP 4, Phase I ESA, ACM-LBP Testing**, Turn-Key Environmental Consultants, Inc. (TKEC) has prepared this Site Specific Work Plan (SSWP) and cost estimate to complete a Phase I Environmental Site Assessment (ESA), and ACM-LBP Testing of the Property identified as Huffman/Parnell- OH005-015A, located at the corner of Parnell and Huffman, Dayton, OH 45403.

Scope of Work – Phase I ESA

Prepare a Phase I ESA in accordance with the *American Society for Testing and Materials' (ASTM) E1527-05 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. Specific activities will include the following:

1. Conduct a historical land use search to identify past operational practices at the property that have the potential of latent environmental liability.
2. Conduct a search for the existence of environmental cleanup liens against the subject property that are filed or recorded under local, state, tribal or federal law.
3. Review and evaluate applicable environmental records from local, state, tribal and/or federal environmental regulatory authorities (i.e. Superfund, Hazardous Waste Site List and others as deemed necessary).

4. Contact local regulatory agencies and health authorities to determine if any environmental issues have been identified concerning the property. Review existing surrounding property land uses to determine the likelihood of potential migrating contaminants.
5. Compile a general site area review of hydrological (ground & surface water) and geological conditions using existing data.
6. Conduct a site evaluation and a property walkover to determine any physical characteristics that may indicate past, existing or potential environmental contamination.
7. Determine the level of environmental risks associated with the property.
8. Provide a written report indicating resources that were reviewed, summarizing pertinent information that was collected, and identifying environmental risks. The report will comply with requirements established by the referenced standards.

ASSUMPTIONS

- The User/Owners will provide timely access to the Property and will complete a *User Questionnaire* (which will be provided by TKEC).
- Only one trip to the Subject Property will be required to obtain full access.

COST

TKEC has estimated the total cost to complete the Phase I activities, as described herein, at **\$2,100.00.**

Scope of Work – Asbestos Containing Materials Survey

1. Provide asbestos bulk sampling to include typical suspect materials in each building, as specified by 40 CFR Part 61 NESHAP, amended November 20, 1990, and all applicable rules pertaining to Ohio.
2. A state accredited asbestos building inspector will collect sufficient bulk samples of suspect asbestos containing materials to characterize the suspect material.

3. Bulk samples will be analyzed for asbestos content by the Polarized Light Microscopy Method (PLM) as prescribed in the Asbestos Hazard Emergency Response Act (AHERA), 40 CFR 763.87. The sample will be determined positive when the asbestos content is greater than one percent (>1%). The analytical method used for analysis will be the "Method for the Determination of Asbestos in Bulk Samples" found in Appendix A to Subpart F in 40 CFR Part 763. The analytical laboratory is participating in the EPA Interim Asbestos Sample Analysis Quality Assurance Program.
4. Category 2 Friable materials that are determined to contain $\leq 10\%$ asbestos will be further analyzed by PLM EPA 400 Point Count to more accurately determine the asbestos content.
5. Provide a written inspection report to document the location, condition, analytical results, and related quantities of asbestos containing materials evidenced as a result of the sampling, conforming to the Final Report section of the RFP.

COST

TKEC has estimated a total cost to complete Asbestos activities as **\$1,800.00**.

Scope of Work – Lead Based Paint Assessment

Based on the request for proposal, Helix Environmental, Inc. proposes to provide all necessary labor, materials, analyses, recordkeeping, and insurance in order to perform lead-based paint inspection services at one occupied, twelve-unit apartment building (Huffman/Parnell Apartment Building located at 21 Parnell Ave., Dayton, Ohio) for Greater Dayton Premier Management in Dayton, Ohio. The services will be performed or directed by a Certified Industrial Hygienist, Certified Safety Professional and Qualified Environmental Professional who is certified by the Ohio Department of Health as a Lead Risk Assessor.

1) START-UP MEETING/CONFERENCE CALL - A start-up meeting or conference call will be held to discuss project scheduling, logistics, and to review available plans for the project. Facility access will be coordinated by Turn-Key Environmental Consultants, Inc. with the occupants of the rental units.

2) LEAD-BASED PAINT INSPECTION – Helix Environmental, Inc. will inspect each housing unit for Lead-Based Paint using a calibrated X-Ray Fluorescence Analyzer (XRF) to measure lead-content of inspection locations on a room-by-room, surface-by surface basis in accordance with current EPA and HUD requirements. Deteriorated paint will be sampled if observed (up to 10 representative locations per housing unit for lead determination analyses). Paint film samples will be collected, placed in labeled leak tight containers, and shipped by courier to an Environmental Lead analytical lab for analysis. Please note: the RFP specifies the use of an RMD

Model LPA-1 X-Ray Fluorescence (XRF) Lead in Paint Spectrum Analyzer, but Helix Environmental, Inc. proposes to use a more recent, HUD approved Innov-X Alpha Series XRF Spectrum Analyzer for this project.

4) PROJECT DOCUMENTATION - Helix Environmental, Inc. will document the lead paint inspections performed by Helix Environmental, Inc., including sampling locations, analytical results and recommendations for additional actions if needed.

5) PROJECT SCHEDULE - The project work will be performed during approximately 1 working day on site and work will be started within 5 calendar days after Notice To Proceed (NTP).

COST

TKEC has estimated a total cost to complete the Lead-Based Paint Inspection of one, twelve-unit building as **\$5,100.00**.

Helix Environmental, Inc. proposes to perform any requested additional work using the following TIME-AND-MATERIAL rates:

Certified Industrial Hygienist \$165.00/hr. Industrial Hygienist/Industrial Hygiene Technician \$95.00/hr. Clerical \$40.00/hr. Analytical Invoice + 15% Mileage \$0.56/mile Miscellaneous Expenses Invoice + 15%

Total Statement of Work Cost Table

| | Phase I Cost | ACM Inspection | Lead Assessment |
|--------------------|----------------|----------------|-----------------|
| Total | \$2,100 | \$1,800 | \$5,100 |
| Grand Total | | \$9,000 | |

PROJECT SCHEDULE

TKEC will initiate the project planning within five days of receiving approval for this Task Assignment. The completed report will be submitted within thirty (30) days after the issuance of the Notice to Proceed.

PERSONNEL

The following provides a description of key TKEC personnel and their role in this project:

- **Senior Environmental Consultant** (William Treasure) will supervise and schedule field staff; provide oversight of project activities including correspondence, communication, scheduling; completion of monthly progress reports; ensure that the project is completed in accordance with project scope and contract agreement; review of data and report(s) to ensure compliance with ASTM guidelines, and assist with data evaluation.
- **Project Manager** (Amy Watt) will complete the Phase I project tasks including site reconnaissance, data collection and review, and report preparation.
- **Asbestos Inspector** (Joe Saunders, Jon Treasure, Derek Mallery) will complete the project tasks including inspection, sampling, and sample submittal, review of results, and report preparation.
- **Lead Based Paint Sample Testing** (Helix Environmental, Inc.) services will be performed or directed by a Certified Industrial Hygienist, Certified Safety Professional and Qualified Environmental Professional who is certified by the Ohio Department of Health as a Lead Risk Assessor.

Respectfully submitted,

TURN-KEY ENVIRONMENTAL CONSULTANTS, INC.



Linda Treasure

President

APPENDIX B

Inspectors' Certifications



John R. Kasich, Governor
Mary Taylor, Lt. Governor
Craig W. Butler, Director

June 19, 2018

Joseph D Saunders
Turn Key Environmental Consultants, Inc
790 Barnhart Rd
Troy OH 45373

RE: Asbestos Hazard Evaluation Specialist
Certification Number: ES34837
Expiration Date: 06/10/2019

Dear Joseph D Saunders:

This letter and enclosed certification card approves your request to be certified as an Asbestos Hazard Evaluation Specialist. You must present your card upon request at any project site while performing duties. Copies of cards are not acceptable as proof of certification.

This certification may be revoked by the Director of the Environmental Protection Agency for violation of any of the requirements of 3745-22 or 3745-20 of the Ohio Administrative Code.

If you have any questions, please call 614-644-0226.

Sincerely,

Mark Needham
Manager, Asbestos Program
Division of Air Pollution Control

State of Ohio
Environmental Protection Agency
Asbestos Program

Asbestos Hazard Evaluation Specialist

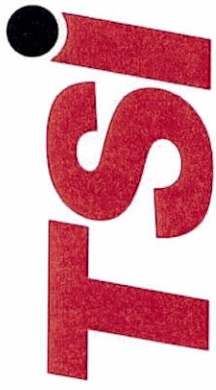


Joseph D Saunders
Turn Key Environmental Consultants,
790 Barnhart Rd
Troy OH 45373

Certification Number
ES34837

Expiration Date
06/10/2019

This certification is issued pursuant to Revised Code Chapter 3710 and Administrative Code Chapter 3745-22. This card is not valid if altered.



TRAINING SERVICES INTERNATIONAL

Asbestos Building Inspector Refresher

Certificate

This is to certify

Joseph D. Saunders

XXX-XX-6484



has attended and successfully completed the Asbestos Hazard Emergency Response Act mandatory course for the Asbestos Building Inspector Refresher and has passed an examination in that course with a minimum score of 70% or better. Training was in accordance with 40 CFR Part 763 (AHERA). The above student received the requisite training for asbestos accreditation under Title II of the Toxic Substances Control Act and State of Indiana requirements under 326 IAC 18-2 and Chapter 3745-22 Ohio Administrative Code.

5/16/19

Expiration Date

5/16/18

Date(s) of Course

5/16/18

Examination Date

Cincinnati, OH

Course Location

33150 Lakeland Blvd.
Cleveland, OH 44095
www.TSIttraining.com

Course Certificate No. **18 TSI 72766 ir**



TRAINING SERVICES INTERNATIONAL

Asbestos Management Planner Refresher

Certificate

This is to certify

Joseph D. Saunders

XXX-XX-6484



has attended and successfully completed the Asbestos Hazard Emergency Response Act mandatory course for the Asbestos Management Planner Refresher and has passed an examination in that course with a minimum score of 70% or better. Training was in accordance with 40 CFR Part 763 (AHERA). The above student received the requisite training for asbestos accreditation under Title II of the Toxic Substances Control Act and State of Indiana requirements under 326 IAC 18-2 and Chapter 3745-22 Ohio Administrative Code.

5/16/19

Expiration Date

5/16/18

Date(s) of Course

5/16/18

Examination Date

Cincinnati, OH

Course Location

33150 Lakeland Blvd.
Cleveland, OH 44095
www.TSitraining.com

Course Certificate No. **18 TSI 72773 mpr**



John R. Kasich, Governor
Mary Taylor, Lt. Governor
Craig W. Butler, Director

September 05, 2018

Derek J Mallery
Turn Key Environmental Consultants, Inc
790 Barnhart Rd
Troy OH 45373

RE: Asbestos Hazard Evaluation Specialist
Certification Number: ES36194
Expiration Date: 09/05/2019

Dear Derek J Mallery:

This letter and enclosed certification card approves your request to be certified as an Asbestos Hazard Evaluation Specialist. You must present your card upon request at any project site while performing duties. Copies of cards are not acceptable as proof of certification.

This certification may be revoked by the Director of the Environmental Protection Agency for violation of any of the requirements of 3745-22 or 3745-20 of the Ohio Administrative Code.

If you have any questions, please call 614-644-0226.

Sincerely,

Mark Needham
Manager, Asbestos Program
Division of Air Pollution Control





TRAINING SERVICES INTERNATIONAL

Asbestos Building Inspector Refresher

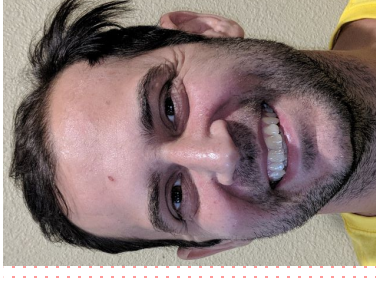
Certificate

This is to certify

Derek Mallery

XXX-XX-3558

86



has attended and successfully completed the Asbestos Hazard Emergency Response Act mandatory course for the Asbestos Building Inspector Refresher and has passed an examination in that course with a minimum score of 70% or better. Training was in accordance with 40 CFR Part 763 (AHERA). The above student received the requisite training for asbestos accreditation under Title II of the Toxic Substances Control Act and State of Indiana requirements under 326 IAC 18-2 and Chapter 3745-22 Ohio Administrative Code.

Training Manager

7/18/19

Expiration Date

7/18/18

Date(s) of Course

7/18/18

Examination Date

Cincinnati, OH

Course Location

33150 Lakeland Blvd.
Cleveland, OH 44095
www.TSItraining.com

Course Certificate No. **18 TSI 73398 ir**



TRAINING SERVICES INTERNATIONAL

Asbestos Management Planner Refresher

Certificate

This is to certify

Derek Mallery

XXX-XX-3558

70



has attended and successfully completed the Asbestos Hazard Emergency Response Act mandatory course for the Asbestos Management Planner Refresher and has passed an examination in that course with a minimum score of 70% or better. Training was in accordance with 40 CFR Part 763 (AHERA). The above student received the requisite training for asbestos accreditation under Title II of the Toxic Substances Control Act and State of Indiana requirements under 326 IAC 18-2 and Chapter 3745-22 Ohio Administrative Code.

Training Manager

7/18/19

Expiration Date

7/18/18

Date(s) of Course

7/18/18

Examination Date

Cincinnati, OH

Course Location

33150 Lakeland Blvd.
Cleveland, OH 44095
www.TSItraining.com

Course Certificate No. **18 TSI 73404 mpr**

APPENDIX C

Asbestos Bulk Sample Logs

APPENDIX D

Asbestos Inspection and Assessment Summary

9 Parnell Ave., Apt. A
 Pre-Renovation Asbestos Survey
 Table 2 - Bulk Sample PLM Data Summary

TKEC Project: 18460-4

| Homogeneous Area | | | | | | | Quantity & Condition | | | |
|---------------------------------------|--------|-----------------|----------------|----------|-----------------|--|----------------------|------|------|------------------|
| Sample Description (Material Type) | Color | Sample Location | NSHAP Category | ACM Type | Bulk Sample No. | | Good | Fair | Poor | Asbestos Content |
| Plaster/Skim Coat - Skim Coat | White | Kitchen | | | 1-1 | | | | | NAD |
| Plaster/Skim Coat - Plaster | White | Living Room | | | 1-2 | | | | | NAD |
| Plaster/Skim Coat - Skim Coat | Grey | Living Room | | | 1-2 | | | | | NAD |
| Plaster/Skim Coat - Plaster | White | Hallway | | | 1-3 | | | | | NAD |
| Plaster/Skim Coat - Skim Coat | Grey | Hallway | | | 1-3 | | | | | NAD |
| Tile/Adhesive - Floor Tile | Tan | Bathroom | | | 2-1 | | | | | NAD |
| Tile/Adhesive - Adhesive | Yellow | Bathroom | | | 2-1 | | | | | NAD |
| Tile/Adhesive - Floor Tile | Tan | Bathroom | | | 2-2 | | | | | NAD |
| Tile/Adhesive - Adhesive | Yellow | Bathroom | | | 2-2 | | | | | NAD |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

11 Parnell Ave., Apt. A
 Pre-Renovation Asbestos Survey
 Table 2 - Bulk Sample PLM Data Summary

TKEC Project: 18460-4

| Homogeneous Area | | | | | | | Quantity & Condition | | | |
|---------------------------------------|-------|------------------|----------------|----------|-----------------|--|----------------------|------|------|------------------|
| Sample Description (Material Type) | Color | Sample Location | NSHAP Category | ACM Type | Bulk Sample No. | | Good | Fair | Poor | Asbestos Content |
| Texture/Drywall - Drywall | White | Bathroom Ceiling | | | 1-1 | | | | | NAD |
| Texture/Drywall - Texture | White | Bathroom Ceiling | | | 1-1 | | | | | NAD |
| Texture/Drywall - Drywall | White | Bathroom Ceiling | | | 1-2 | | | | | NAD |
| Texture/Drywall - Texture | White | Bathroom Ceiling | | | 1-2 | | | | | NAD |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

11 Parnell Ave., Apt. B
 Pre-Renovation Asbestos Survey
 Table 2 - Bulk Sample PLM Data Summary

TKEC Project: 18460-4

| Homogeneous Area | | | | | | | Quantity & Condition | | | |
|---------------------------------------|--------|---------------------|----------------|----------|-----------------|------|----------------------|------|------------------|--|
| Sample Description (Material Type) | Color | Sample Location | NSHAP Category | ACM Type | Bulk Sample No. | Good | Fair | Poor | Asbestos Content | |
| Texture/Plaster/Skim Coat - Skim Coat | White | Kitchen Ceiling | | | 1-1 | | | | NAD | |
| Texture/Plaster/Skim Coat - Plaster | Grey | Kitchen Ceiling | | | 1-1 | | | | NAD | |
| Texture/Plaster/Skim Coat - Texture | White | Kitchen Ceiling | | | 1-1 | | | | NAD | |
| Texture/Plaster/Skim Coat - Skim Coat | White | Dining Room Ceiling | | | 1-2 | | | | NAD | |
| Texture/Plaster/Skim Coat - Plaster | Grey | Dining Room Ceiling | | | 1-2 | | | | NAD | |
| Texture/Plaster/Skim Coat - Texture | White | Dining Room Ceiling | | | 1-2 | | | | NAD | |
| Texture/Plaster/Skim Coat - Skim Coat | White | Living Room Ceiling | | | 1-3 | | | | NAD | |
| Texture/Plaster/Skim Coat - Plaster | Grey | Living Room Ceiling | | | 1-3 | | | | NAD | |
| Texture/Plaster/Skim Coat - Texture | White | Living Room Ceiling | | | 1-3 | | | | NAD | |
| Tile/Adhesive - Floor Tile | Brown | Bathroom | | | 2-1 | | | | NAD | |
| Tile/Adhesive - Adhesive | Yellow | Bathroom | | | 2-1 | | | | NAD | |
| Tile/Adhesive - Floor Tile | Brown | Bathroom | | | 2-2 | | | | NAD | |
| Tile/Adhesive - Adhesive | Yellow | Bathroom | | | 2-2 | | | | NAD | |

1202 Huffman Ave., Apt. A
Pre-Renovation Asbestos Survey
Table 2 - Bulk Sample PLM Data Summary

TKEC Project: 18460-4

| Homogeneous Area | | | | | | | Quantity & Condition | | |
|---------------------------------------|--------|------------------------|----------------|-----------|-----------------|------|----------------------|------|------------------|
| Sample Description (Material Type) | Color | Sample Location | NSHAP Category | ACM Type | Bulk Sample No. | Good | Fair | Poor | Asbestos Content |
| Plaster/Skim Coat - Skim Coat | White | Dining/Living Room | Cat 2 Friable | Surfacing | 1-1 | | | | NAD |
| Plaster/Skim Coat - Plaster | Grey | Dining/Living Room | | | 1-1 | | | | NAD |
| Plaster/Skim Coat - Skim Coat | White | Bedroom 1 | | | 1-2 | | | | NAD |
| Plaster/Skim Coat - Skim Coat | White | Bedroom 2 | | | 1-3 | | | | NAD |
| Tile/Adhesive - Floor Tile | Grey | Hall Closet | | | 2-1 | | | | NAD |
| Tile/Adhesive - Adhesive | Yellow | Hall Closet | | | 2-1 | | | | NAD |
| Tile/Adhesive - Floor Tile | Grey | Bedroom 1 | | | 2-2 | | | | NAD |
| Tile/Adhesive - Floor Tile | Brown | Bathroom | | | 3-1 | | | | NAD |
| Tile/Adhesive - Adhesive | Yellow | Bathroom | | | 3-1 | | | | NAD |
| Tile/Adhesive - Floor Tile | Brown | Bathroom | | | 3-2 | | | | NAD |
| Tile/Adhesive - Adhesive | Yellow | Bathroom | | | 3-2 | | | | NAD |
| Tile/Adhesive - Floor Tile | Brown | Dining Room - 2 layers | | | 4-1 | | | | NAD |
| Tile/Adhesive - Adhesive | Yellow | Dining Room - 2 layers | | | 4-1 | | | | NAD |

1202 Huffman Ave., Apt. A
 Pre-Renovation Asbestos Survey
 Table 2 - Bulk Sample PLM Data Summary

TKEC Project: 18460-4

| Homogeneous Area | | | | | | | Quantity & Condition | | |
|---------------------------------------|-------------|------------------------|----------------------|-------------|-----------------|-----------------------|----------------------|------|--------------------------|
| Sample Description (Material Type) | Color | Sample Location | NSHAP Category | ACM Type | Bulk Sample No. | Good | Fair | Poor | Asbestos Content |
| Tile/Adhesive - Floor Tile | White | Dining Room - 2 layers | | | 4-1 | | | | |
| Tile/Adhesive - Floor Tile | Brown | Dining Room - 2 layers | | | 4-2 | | | | |
| Tile/Adhesive - Adhesive | Yellow | Dining Room - 2 layers | | | 4-2 | | | | |
| Tile/Adhesive - Floor Tile | White | Dining Room - 2 layers | | | 4-2 | | | | 40% Chrysotile |
| Millboard | Grey | Basement | Cat 2 Friable | Misc | 5-1 | 12 SF | | | |
| Sink Undercoating | White | Kitchen | | | 6-1 | | | | |
| Window Caulk | Grey | Exterior | Cat 2 Friable | Misc | 7-1 | 96 Windows | | | 2% Chrysotile |
| Window Caulk | Grey | Exterior | | | 7-2 | | | | 2% Chrysotile |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

1202 Huffman Ave., Apt. A
Pre-Demolition Asbestos Survey
Table 2 - Point Count Sample Data Summary

Project: 18460-4

| Homogeneous Area | | | | | | | Quantity & Condition | | | |
|---------------------------------------|-------|-----------------|------------------|----------|-----------------|--|----------------------|------|------|----------------------|
| Sample Description (Material Type) | Color | Sample Location | NSHAP Category | ACM Type | Bulk Sample No. | | Good | Fair | Poor | Asbestos Content |
| Window Caulk | Grey | Exterior | Cat 2 Friable | Misc | 7-1 | | 96 Windows | | | 0.25% Chrysotile |
| Window Caulk | Grey | Exterior | | | 7-2 | | | | | <0.25% Chrysotile |

1202 Huffman Ave., Apt. B
Pre-Renovation Asbestos Survey
Table 2 - Bulk Sample PLM Data Summary

TKEC Project: 18460-4

| Homogeneous Area | | | | | | | Quantity & Condition | | | |
|---------------------------------------|-------------|-----------------|----------------------|--------------|-----------------|--|----------------------|-----------------|------|---------------------------|
| Sample Description (Material Type) | Color | Sample Location | NSHAP Category | ACM Type | Bulk Sample No. | | Good | Fair | Poor | Asbestos Content |
| Texture/Drywall - Drywall | White | Kitchen | | | 1-1 | | | | | NAD |
| Texture/Drywall -Texture | White | Kitchen | | | 1-1 | | | | | NAD |
| Texture/Drywall - Drywall | White | Kitchen | | | 1-2 | | | | | NAD |
| Texture/Drywall -Texture | White | Kitchen | | | 1-2 | | | | | NAD |
| Texture/Drywall - Drywall | White | Bathroom | | | 1-3 | | | | | NAD |
| Texture/Drywall -Texture | White | Bathroom | | | 1-3 | | | | | NAD |
| Tile/Adhesive - Floor Tile | Brown | Kitchen | | | 2-1 | | | | | NAD |
| Tile/Adhesive - Adhesive | Yellow | Kitchen | | | 2-1 | | | | | NAD |
| Tile/Adhesive - Floor Tile | Brown | Kitchen | | | 2-2 | | | | | NAD |
| Tile/Adhesive - Adhesive | Yellow | Kitchen | | | 2-2 | | | | | NAD |
| Millboard | Grey | Basement | Cat 2 Friable | Misc. | 3-1 | | 12 SF | | | 55% Chrysotile |
| Door Caulk | Grey | Exterior | Cat 2 Friable | Misc. | 4-1 | | | 22 Doors | | 5% Chrysotile |
| Door Caulk | Grey | Exterior | | | 4-2 | | | | | 5% Chrysotile |

1202 Huffman Ave., Apt. B
Pre-Demolition Asbestos Survey
Table 2 - Point Count Sample Data Summary

Project: 18460-4

| Homogeneous Area | | | | | | | Quantity & Condition | | | |
|---------------------------------------|-------|-----------------|------------------|----------|-----------------|--|----------------------|----------|------|---------------------|
| Sample Description (Material Type) | Color | Sample Location | NSHAP Category | ACM Type | Bulk Sample No. | | Good | Fair | Poor | Asbestos Content |
| Door Caulk | Grey | Exterior | Cat 2 Friable | Misc. | 4-1 | | | 22 Doors | | 0.75% Chrysotile |
| Door Caulk | Grey | Exterior | | | 4-2 | | | | | 0.5% Chrysotile |

1204 Huffman Ave., Apt. A
 Pre-Renovation Asbestos Survey
 Table 2 - Bulk Sample PLM Data Summary

TKEC Project: 18460-4

| Homogeneous Area | | | | | | | Quantity & Condition | | | |
|-----------------------------------------|-------------|-----------------|----------------------|--------------|-----------------|--|----------------------|------|------|-----------------------|
| Sample Description (Material Type) | Color | Sample Location | NSHAP Category | ACM Type | Bulk Sample No. | | Good | Fair | Poor | Asbestos Content |
| Drywall/Joint Compound - Drywall | White | Kitchen Ceiling | | | 1-1 | | | | | NAD |
| Drywall/Joint Compound - Joint Compound | White | Kitchen Ceiling | | | 1-1 | | | | | NAD |
| Drywall/Joint Compound - Drywall | White | Kitchen Ceiling | | | 1-1 | | | | | NAD |
| Drywall/Joint Compound - Joint Compound | White | Kitchen Ceiling | | | 1-2 | | | | | NAD |
| Plaster/Skim Coat - Skim Coat | White | Living Room | | | 2-1 | | | | | NAD |
| Plaster/Skim Coat - Plaster | Grey | Living Room | | | 2-1 | | | | | NAD |
| Plaster/Skim Coat - Skim Coat | White | Bedroom 2 | | | 2-2 | | | | | NAD |
| Plaster/Skim Coat - Plaster | Grey | Bedroom 2 | | | 2-2 | | | | | NAD |
| Plaster/Skim Coat - Skim Coat | White | Bedroom 1 | | | 2-3 | | | | | NAD |
| Plaster/Skim Coat - Plaster | Grey | Bedroom 1 | | | 2-3 | | | | | NAD |
| Sink Undercoat | White | Kitchen | | | 3-1 | | | | | NAD |
| Millboard | Grey | Basement | Cat 2 Friable | Misc. | 4-1 | | 12 SF | | | 45% Chrysotile |

1208 Huffman Ave., Apt. A
 Pre-Renovation Asbestos Survey
 Table 2 - Bulk Sample PLM Data Summary

TKEC Project: 18460-4

| Homogeneous Area | | | | | | | Quantity & Condition | | | |
|---------------------------------------|--------|-----------------|----------------|----------|-----------------|--|----------------------|------|------|------------------|
| Sample Description (Material Type) | Color | Sample Location | NSHAP Category | ACM Type | Bulk Sample No. | | Good | Fair | Poor | Asbestos Content |
| 18" Floor Tile/ Adhesive - Floor Tile | Brown | Kitchen | | | 1-1 | | | | | NAD |
| 18" Floor Tile/ Adhesive - Adhesive | Yellow | Kitchen | | | 1-1 | | | | | NAD |
| 18" Floor Tile/ Adhesive - Floor Tile | Brown | Kitchen | | | 1-2 | | | | | NAD |
| 18" Floor Tile/ Adhesive - Adhesive | Yellow | Kitchen | | | 1-2 | | | | | NAD |
| Tile/Adhesive - Floor Tile | Blue | Bathroom | | | 2-1 | | | | | NAD |
| 12" Floor Tile/Adhesive - Adhesive | Yellow | Bathroom | | | 2-1 | | | | | NAD |
| Tile/Adhesive - Floor Tile | Blue | Bathroom | | | 2-2 | | | | | NAD |
| 12" Floor Tile/Adhesive - Adhesive | Yellow | Bathroom | | | 2-2 | | | | | NAD |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

1208 Huffman Ave., Apt. B
 Pre-Renovation Asbestos Survey
 Table 2 - Bulk Sample PLM Data Summary

TKEC Project: 18460-4

| Homogeneous Area | | | | | | | Quantity & Condition | | | |
|--------------------------------------------------|-------|--------------------|----------------|----------|-----------------|------|----------------------|------|------------------|--|
| Sample Description (Material Type) | Color | Sample Location | NSHAP Category | ACM Type | Bulk Sample No. | Good | Fair | Poor | Asbestos Content | |
| Plaster/Skim Coat - Plaster | Grey | Kitchen | | | 1-1 | | | | NAD | |
| Plaster/Skim Coat - Skim Coat | White | Kitchen | | | 1-1 | | | | NAD | |
| Plaster/Skim Coat - Plaster | Grey | Dining/Living Room | | | 1-2 | | | | NAD | |
| Plaster/Skim Coat - Skim Coat | White | Dining/Living Room | | | 1-2 | | | | NAD | |
| Plaster/Skim Coat - Plaster | Grey | Landing | | | 1-3 | | | | NAD | |
| Plaster/Skim Coat - Skim Coat | White | Landing | | | 1-3 | | | | NAD | |
| Textured Drywall/Joint Compound - Drywall | White | Bathroom | | | 2-1 | | | | NAD | |
| Textured Drywall/Joint Compound - Joint Compound | White | Bathroom | | | 2-1 | | | | NAD | |
| Textured Drywall/Joint Compound - Drywall | White | Bathroom | | | 2-2 | | | | NAD | |
| Textured Drywall/Joint Compound - Joint Compound | White | Bathroom | | | 2-2 | | | | NAD | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

1210 Huffman Ave., Apts. A B
 Pre-Renovation Asbestos Survey
 Table 2 - Bulk Sample PLM Data Summary

TKEC Project: 18460-4

| Homogeneous Area | | | | | | | Quantity & Condition | | | |
|-----------------------------------------|--------------|-----------------|----------------|----------|-----------------|------------------|----------------------|------|------|------------------|
| Sample Description (Material Type) | Color | Sample Location | NSHAP Category | ACM Type | Bulk Sample No. | Asbestos Content | Good | Fair | Poor | Asbestos Content |
| TSI | Yellow/White | Basement | Cat 2 Friable | TSI | 1-1 | NAD | | | | NAD |
| TSI | Yellow/White | Basement | | | 1-2 | NAD | | | | NAD |
| TSI | Yellow/White | Basement | | | 1-3 | NAD | | | | NAD |
| 12" Floor Tile/Adhesive - Floor Tile | Brown | Hallway | | | 2-1 | NAD | | | | NAD |
| Tile/Adhesive - Adhesive | Yellow | Hallway | | | 2-1 | NAD | | | | NAD |
| 12" Floor Tile/Adhesive - Floor Tile | Brown | Hallway | | | 2-2 | NAD | | | | NAD |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

APPENDIX E

Analytical Laboratory Results



contact@hayesmicrobial.com
<http://hayesmicrobial.com/>

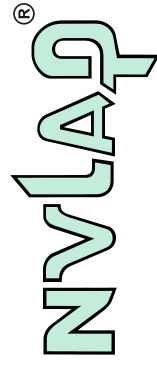
Analysis Report prepared for

Turn-Key Environmental Consultants

790 Barnhart Road
 Troy, OH. 45373
 Phone: (937) 335-8807 Fax: (937) 339-4882

Job Number: 18460-4
 Job Name: 9-A Parnell Ave.
 Date Sampled: 03-25-2019
 Date Analyzed: 04-05-2019
 Report Date: 04-05-2019

EPA Laboratory ID# VA01419



NVLAP Lab Code: 500096-0

Asbestos License: 300435

License: #PH-0198



HAYES
MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

HMC #19012568

Turn-Key Environmental Consultants
790 Barnhart Road
Troy, OH 45373

April 5, 2019

Client Job Number: 18460-4
Client Job Name: 9-A Parnell Ave.

Dear Turn-Key Environmental Consultants,

We would like to thank you for trusting Hayes Microbial for your analytical needs. On March 29, 2019 we received 5 samples by FedEx for the job referenced above. 5 samples were received in good condition.

The results in this analysis pertain only to this job, collected on the stated date and should not be used in the interpretation of any other job. This report may not be duplicated, except in full, without the written consent of Hayes Microbial Consulting, LLC.

This laboratory bears no responsibility for sample collection activities, analytical method limitations, or your use of the test results. Interpretation and use of test results are your responsibility. Any reference to health effects or interpretation of mold levels is strictly the opinion of Hayes Microbial Consulting. In no event, shall Hayes Microbial Consulting or any of its employees be liable for lost profits or any special, incidental or consequential damages arising out of your use of the test results.

Steve Hayes, BSMT(ASCP)
Laboratory Director
Hayes Microbial Consulting, LLC



HAYES
 MICROBIAL CONSULTING
 3005 East Boundary Terrace, #F
 Midlothian, VA 23112, USA
 804.562.3435 Fax: 804.447.5562

Turn-Key Environmental Consultants
 790 Barnhart Road
 Troy, OH 45373
 Phone: (937) 335-8807 Fax: (937) 339-4882

EPA 600/R-93, M-4/82-020 (PLM)

HMC #19012568

| | | |
|---------------------------------------|----------------------------|----------------------------|
| Job Number: 18460-4 | Job Name: 9-A Parnell Ave. | Date Collected: 03/25/2019 |
| Collected by: Joseph Saunders | | Date Received: 03/29/2019 |
| Email: tkec@turn-keyenvironmental.com | | Date Reported: 04/05/2019 |

| # | Sample | Name | Description | Asbestos Fibers | Other Fibers | Non- Fibers |
|---|---------|--------------------------------------------|-----------------------|-----------------|-----------------|-------------|
| 1 | 1-1 | White- Plaster- Skim Coat- Kitchen | Bulk Material / White | (None Detected) | (None Detected) | 100 % |
| 2 | 1-2 | White- Plaster- Skim Coat- Living Room | Skim Coat / White | (None Detected) | (None Detected) | 100 % |
| | Layer 2 | White- Plaster- Skim Coat- Living Room | Rough Coat / Gray | (None Detected) | (None Detected) | 100 % |
| 3 | 1-3 | White- Plaster- Skim Coat- Hallway | Skim Coat / White | (None Detected) | (None Detected) | 100 % |
| | Layer 2 | White- Plaster- Skim Coat- Hallway | Rough Coat / Gray | (None Detected) | (None Detected) | 100 % |
| 4 | 2-1 | Tan- 12 in. Floor Tile- Adhesive- Bathroom | Vinyl / Cream | (None Detected) | (None Detected) | 100 % |
| | Layer 2 | Tan- 12 in. Floor Tile- Adhesive- Bathroom | Adhesive / Yellow | (None Detected) | (None Detected) | 100 % |
| 5 | 2-2 | Tan- 12 in. Floor Tile- Adhesive- Bathroom | Vinyl / Tan | (None Detected) | (None Detected) | 100 % |
| | Layer 2 | Tan- 12 in. Floor Tile- Adhesive- Bathroom | Adhesive / Yellow | (None Detected) | (None Detected) | 100 % |

Signature: *R. J. P.*

Reviewed by: *Stephen A. Hayes*

Date: 04/05/2019

Date: 04/05/2019



HAYES
MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Turn-Key Environmental Consultants
790 Barnhart Road
Troy, OH 45373
Phone: (937) 335-8807 Fax: (937) 339-4882

Asbestos - Additional Information

HMC #19012568

All samples were received in acceptable condition unless otherwise noted on the report. This report must not be used by the client to claim product certification, approval, or endorsement by AIHA, NIST, NVLAP, NY ELAP, or any agency. The results relate only to the items tested. Hayes Microbial Consulting reserves the right to dispose of all samples after a period of 60 days in compliance with state and federal guidelines.

All Polarized Light Microscopy (PLM) results include an inherent uncertainty of measurement associated with estimating percentages by PLM. Measurement uncertainty data can be provided when requested.

'None Detected' - Below the detected reporting limit of 1% unless point counting is performed, then the detected reporting limit is .25%.

Per NY ELAP198.6 (NOB), TEM is the only reliable method to declare an NOB material as Non-Asbestos Containing.

Any NY ELAP samples that are subcontracted to another laboratory will display the name and ELAP Lab Identification number in the report page heading of those samples. The original report provided to Hayes Microbial Consulting is available upon request.

Signature:

Reviewed by:

Date: 04/05/2019

Date: 04/05/2019



HAYES
MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

contact@hayesmicrobial.com
<http://hayesmicrobial.com/>

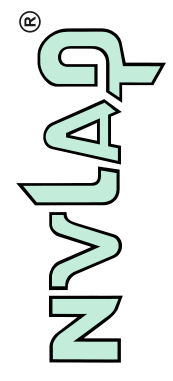
Analysis Report prepared for

Turn-Key Environmental Consultants

790 Barnhart Road
Troy, OH. 45373
Phone: (937) 335-8807 Fax: (937) 339-4882

Job Number: 18460-4
Job Name: 11-A Parnell Ave .
Date Sampled: 03-28-2019
Date Analyzed: 04-05-2019
Report Date: 04-05-2019

EPA Laboratory ID# VA01419



NVLAP Lab Code: 500096-0

Asbestos License: 300435

License: #PH-0198



HAYES
MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

HMC #19012561

Turn-Key Environmental Consultants
790 Barnhart Road
Troy, OH 45373

April 5, 2019

Client Job Number: 18460-4
Client Job Name: 11-A Parnell Ave .

Dear Turn-Key Environmental Consultants,

We would like to thank you for trusting Hayes Microbial for your analytical needs. On March 29, 2019 we received 2 samples by FedEx for the job referenced above. 2 samples were received in good condition.

The results in this analysis pertain only to this job, collected on the stated date and should not be used in the interpretation of any other job. This report may not be duplicated, except in full, without the written consent of Hayes Microbial Consulting, LLC.

This laboratory bears no responsibility for sample collection activities, analytical method limitations, or your use of the test results. Interpretation and use of test results are your responsibility. Any reference to health effects or interpretation of mold levels is strictly the opinion of Hayes Microbial Consulting. In no event, shall Hayes Microbial Consulting or any of its employees be liable for lost profits or any special, incidental or consequential damages arising out of your use of the test results.

Steve Hayes, BSMT(ASCP)
Laboratory Director
Hayes Microbial Consulting, LLC



HAYES
 MICROBIAL CONSULTING
 3005 East Boundary Terrace, #F
 Midlothian, VA 23112, USA
 804.562.3435 Fax: 804.447.5562

Turn-Key Environmental Consultants
 790 Barnhart Road
 Troy, OH 45373
 Phone: (937) 335-8807 Fax: (937) 339-4882

EPA 600/R-93, M-4/82-020 (PLM)

HMC #19012561

Job Number: 18460-4 Job Name: 11-A Parnell Ave .
 Collected by: Joseph Saunders
 Email: tkec@turn-keyenvironmental.com
 Date Collected: 03/28/2019
 Date Received: 03/29/2019
 Date Reported: 04/05/2019

| # | Sample | Name | Description | Asbestos Fibers | Other Fibers | Non- Fibers |
|---|---------|--------------------------------------------|-----------------------|-----------------|-----------------------|-------------|
| 1 | 1-1 | White- Texture- Drywall- Ceiling- Bathroom | Drywall / White/Brown | (None Detected) | 12 % Cellulose fibers | 88 % |
| | Layer 2 | White- Texture- Drywall- Ceiling- Bathroom | Texture / White | (None Detected) | (None Detected) | 100 % |
| 2 | 1-2 | White- Texture- Drywall- Ceiling- Bathroom | Drywall / White/Brown | (None Detected) | 12 % Cellulose fibers | 88 % |
| | Layer 2 | White- Texture- Drywall- Ceiling- Bathroom | Texture / White | (None Detected) | (None Detected) | 100 % |

Redb

Me

Signature:

Date: 04/05/2019

Reviewed by:

Date: 04/05/2019



HAYES
MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Turn-Key Environmental Consultants
790 Barnhart Road
Troy, OH 45373
Phone: (937) 335-8807 Fax: (937) 339-4882

Asbestos - Additional Information

HMC #19012561

All samples were received in acceptable condition unless otherwise noted on the report. This report must not be used by the client to claim product certification, approval, or endorsement by AIHA, NIST, NVLAP, NY ELAP, or any agency. The results relate only to the items tested. Hayes Microbial Consulting reserves the right to dispose of all samples after a period of 60 days in compliance with state and federal guidelines.

All Polarized Light Microscopy (PLM) results include an inherent uncertainty of measurement associated with estimating percentages by PLM. Measurement uncertainty data can be provided when requested.

'None Detected' - Below the detected reporting limit of 1% unless point counting is performed, then the detected reporting limit is .25%.

Per NY ELAP198.6 (NOB), TEM is the only reliable method to declare an NOB material as Non-Asbestos Containing.

Any NY ELAP samples that are subcontracted to another laboratory will display the name and ELAP Lab Identification number in the report page heading of those samples. The original report provided to Hayes Microbial Consulting is available upon request.

Signature:

Date: 04/05/2019

Reviewed by:

Date: 04/05/2019



contact@hayesmicrobial.com
<http://hayesmicrobial.com/>

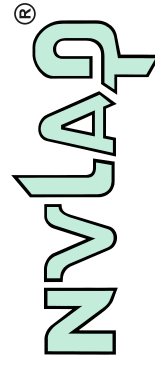
Analysis Report prepared for

Turn-Key Environmental Consultants

790 Barnhart Road
 Troy, OH. 45373
 Phone: (937) 335-8807 Fax: (937) 339-4882

Job Number: 18460-4
 Job Name: 11-B Parnell Ave.
 Date Sampled: 03-25-2019
 Date Analyzed: 04-05-2019
 Report Date: 04-05-2019

EPA Laboratory ID# VA01419



NVLAP Lab Code: 500096-0

Asbestos License: 300435

License: #PH-0198



HAYES
MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

HMC #19012558

Turn-Key Environmental Consultants
790 Barnhart Road
Troy, OH 45373

April 5, 2019

Client Job Number: 18460-4
Client Job Name: 11-B Parnell Ave.

Dear Turn-Key Environmental Consultants,

We would like to thank you for trusting Hayes Microbial for your analytical needs. On March 29, 2019 we received 5 samples by FedEx for the job referenced above. 5 samples were received in good condition.

The results in this analysis pertain only to this job, collected on the stated date and should not be used in the interpretation of any other job. This report may not be duplicated, except in full, without the written consent of Hayes Microbial Consulting, LLC.

This laboratory bears no responsibility for sample collection activities, analytical method limitations, or your use of the test results. Interpretation and use of test results are your responsibility. Any reference to health effects or interpretation of mold levels is strictly the opinion of Hayes Microbial Consulting. In no event, shall Hayes Microbial Consulting or any of its employees be liable for lost profits or any special, incidental or consequential damages arising out of your use of the test results.

Steve Hayes, BSMT(ASCP)
Laboratory Director
Hayes Microbial Consulting, LLC



HAYES
 MICROBIAL CONSULTING
 3005 East Boundary Terrace, #F
 Midlothian, VA 23112, USA
 804.562.3435 Fax: 804.447.5562


Turn-Key Environmental Consultants
 790 Barnhart Road
 Troy, OH 45373
 Phone: (937) 335-8807 Fax: (937) 339-4882

EPA 600/R-93, M-4/82-020 (PLM)

HMC #19012558

| | | |
|---------------------------------------|-----------------------------|----------------------------|
| Job Number: 18460-4 | Job Name: 11-B Parnell Ave. | Date Collected: 03/25/2019 |
| Collected by: Joseph Saunders | | Date Received: 03/29/2019 |
| Email: tkec@turn-keyenvironmental.com | | Date Reported: 04/05/2019 |

| # | Sample | Name | Description | Asbestos Fibers | Other Fibers | Non- Fibers |
|---|---------|--------------------------------------------------------|-----------------------|-----------------|-----------------|-------------|
| 1 | 1-1 | White- Texture- Plaster- Skim Coat- Ceiling- Kitchen | Skim Coat / Tan/White | (None Detected) | (None Detected) | 100 % |
| | Layer 2 | White- Texture- Plaster- Skim Coat- Ceiling- Kitchen | Rough Coat / Gray | (None Detected) | (None Detected) | 100 % |
| | Layer 3 | White- Texture- Plaster- Skim Coat- Ceiling- Kitchen | Texture / White | (None Detected) | (None Detected) | 100 % |
| 2 | 1-2 | White- Texture- Plaster- Skim Coat- Ceiling- Dining... | Skim Coat / Tan | (None Detected) | (None Detected) | 100 % |
| | Layer 2 | White- Texture- Plaster- Skim Coat- Ceiling- Dining... | Rough Coat / Gray | (None Detected) | (None Detected) | 100 % |
| | Layer 3 | White- Texture- Plaster- Skim Coat- Ceiling- Dining... | Texture / White | (None Detected) | (None Detected) | 100 % |
| 3 | 1-3 | White- Texture- Plaster- Skim Coat- Ceiling- Living... | Skim Coat / Tan | (None Detected) | (None Detected) | 100 % |
| | Layer 2 | White- Texture- Plaster- Skim Coat- Ceiling- Living... | Rough Coat / Gray | (None Detected) | (None Detected) | 100 % |
| | Layer 3 | White- Texture- Plaster- Skim Coat- Ceiling- Living... | Texture / White | (None Detected) | (None Detected) | 100 % |
| 4 | 2-1 | Brown- 12 in. Floor Tile- Adhesive- Bathroom | Floor Tile / Black | (None Detected) | (None Detected) | 100 % |
| | Layer 2 | Brown- 12 in. Floor Tile- Adhesive- Bathroom | Adhesive / Yellow | (None Detected) | (None Detected) | 100 % |

Signature: 

Date: 04/05/2019 Reviewed by: 

Date: 04/05/2019



HAYES
 MICROBIAL CONSULTING
 3005 East Boundary Terrace, #F
 Midlothian, VA 23112, USA
 804.562.3435 Fax: 804.447.5562


Turn-Key Environmental Consultants
 790 Barnhart Road
 Troy, OH 45373
 Phone: (937) 335-8807 Fax: (937) 339-4882

EPA 600/R-93, M-4/82-020 (PLM)

HMC #19012558

Job Number: 18460-4 Job Name: 11-B Parnell Ave.
 Collected by: Joseph Saunders
 Email: tkec@turn-keyenvironmental.com
 Date Collected: 03/25/2019
 Date Received: 03/29/2019
 Date Reported: 04/05/2019

| # | Sample | Name | Description | Asbestos Fibers | Other Fibers | Non- Fibers |
|---|---------|----------------------------------------------|--------------------|-----------------|-----------------|-------------|
| 5 | 2-2 | Brown- 12 in. Floor Tile- Adhesive- Bathroom | Floor Tile / Black | (None Detected) | (None Detected) | 100 % |
| | Layer 2 | Brown- 12 in. Floor Tile- Adhesive- Bathroom | Adhesive / Yellow | (None Detected) | (None Detected) | 100 % |

Signature: 

Date: 04/05/2019 Reviewed by: 

Date: 04/05/2019



HAYES
MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Turn-Key Environmental Consultants
790 Barnhart Road
Troy, OH 45373
Phone: (937) 335-8807 Fax: (937) 339-4882

Asbestos - Additional Information

HMC #19012558

All samples were received in acceptable condition unless otherwise noted on the report. This report must not be used by the client to claim product certification, approval, or endorsement by AIHA, NIST, NVLAP, NY ELAP, or any agency. The results relate only to the items tested. Hayes Microbial Consulting reserves the right to dispose of all samples after a period of 60 days in compliance with state and federal guidelines.

All Polarized Light Microscopy (PLM) results include an inherent uncertainty of measurement associated with estimating percentages by PLM. Measurement uncertainty data can be provided when requested.

'None Detected' - Below the detected reporting limit of 1% unless point counting is performed, then the detected reporting limit is .25%.

Per NY ELAP198.6 (NOB), TEM is the only reliable method to declare an NOB material as Non-Asbestos Containing.

Any NY ELAP samples that are subcontracted to another laboratory will display the name and ELAP Lab Identification number in the report page heading of those samples. The original report provided to Hayes Microbial Consulting is available upon request.



Signature:

Date:

04/05/2019

Reviewed by:



Date:

04/05/2019



contact@hayesmicrobial.com
<http://hayesmicrobial.com/>

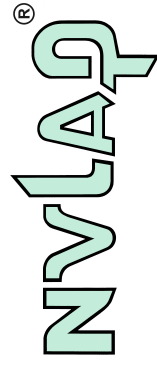
Analysis Report prepared for

Turn-Key Environmental Consultants

790 Barnhart Road
 Troy, OH. 45373
 Phone: (937) 335-8807 Fax: (937) 339-4882

Job Number: 18460-4
 Job Name: 1202-A Huffman Ave.
 Date Sampled: 03-25-2019
 Date Analyzed: 04-05-2019
 Report Date: 04-05-2019

EPA Laboratory ID# VA01419



NVLAP Lab Code: 500096-0

Asbestos License: 300435

License: #PH-0198



HAYES
MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

HMC #19012557

Turn-Key Environmental Consultants
790 Barnhart Road
Troy, OH 45373

April 5, 2019

Client Job Number: 18460-4
Client Job Name: 1202-A Huffman Ave.

Dear Turn-Key Environmental Consultants,

We would like to thank you for trusting Hayes Microbial for your analytical needs. On March 29, 2019 we received 13 samples by FedEx for the job referenced above. 13 samples were received in good condition.

The results in this analysis pertain only to this job, collected on the stated date and should not be used in the interpretation of any other job. This report may not be duplicated, except in full, without the written consent of Hayes Microbial Consulting, LLC.

This laboratory bears no responsibility for sample collection activities, analytical method limitations, or your use of the test results. Interpretation and use of test results are your responsibility. Any reference to health effects or interpretation of mold levels is strictly the opinion of Hayes Microbial Consulting. In no event, shall Hayes Microbial Consulting or any of its employees be liable for lost profits or any special, incidental or consequential damages arising out of your use of the test results.

Steve Hayes, BSMT(ASCP)
Laboratory Director
Hayes Microbial Consulting, LLC



HAYES
 MICROBIAL CONSULTING
 3005 East Boundary Terrace, #F
 Midlothian, VA 23112, USA
 804.562.3435 Fax: 804.447.5562


Turn-Key Environmental Consultants
 790 Barnhart Road
 Troy, OH 45373
 Phone: (937) 335-8807 Fax: (937) 339-4882

EPA 600/R-93, M-4/82-020 (PLM)

HMC #19012557

| | | |
|---------------------------------------|-------------------------------|----------------------------|
| Job Number: 18460-4 | Job Name: 1202-A Huffman Ave. | Date Collected: 03/25/2019 |
| Collected by: Joseph Saunders | | Date Received: 03/29/2019 |
| Email: tkec@turn-keyenvironmental.com | | Date Reported: 04/05/2019 |

| # | Sample | Name | Description | Asbestos Fibers | Other Fibers | Non- Fibers |
|---|---------|---------------------------------------------------|-------------------------|-----------------|----------------------|-------------|
| 1 | 1-1 | White- Plaster- Skim Coat- Dining Room- Living... | Skim Coat / Lt Tan | (None Detected) | (None Detected) | 100 % |
| | Layer 2 | White- Plaster- Skim Coat- Dining Room- Living... | Rough Coat / Light Gray | (None Detected) | (None Detected) | 100 % |
| 2 | 1-2 | White- Plaster- Skim Coat- Bedroom 1 | Skim Coat / Tan | (None Detected) | (None Detected) | 100 % |
| 3 | 1-3 | White- Plaster- Skim Coat- Bedroom 2 | Skim Coat / Tan | (None Detected) | (None Detected) | 100 % |
| 4 | 2-1 | Gray- 12 in. Floor Tile- Hall Closet | Floor Tile / Gray | (None Detected) | (None Detected) | 100 % |
| | Layer 2 | Gray- 12 in. Floor Tile- Hall Closet | Adhesive / Yellow | (None Detected) | 3 % Cellulose fibers | 97 % |
| 5 | 2-2 | Gray- 12 in. Floor Tile- Bedroom 1 | Floor Tile / Gray | (None Detected) | (None Detected) | 100 % |
| 6 | 3-1 | Brown- 12 in. Floor Tile- Mastic- Bathroom | Floor Tile / Brown | (None Detected) | (None Detected) | 100 % |
| | Layer 2 | Brown- 12 in. Floor Tile- Mastic- Bathroom | Adhesive / Yellow | (None Detected) | 3 % Cellulose fibers | 97 % |
| 7 | 3-2 | Brown- 12 in. Floor Tile- Mastic- Bathroom | Floor Tile / Brown | (None Detected) | (None Detected) | 100 % |
| | Layer 2 | Brown- 12 in. Floor Tile- Mastic- Bathroom | Adhesive / Yellow | (None Detected) | (None Detected) | 100 % |

Signature: 

Reviewed by: 

Date: 04/05/2019 Date: 04/05/2019



HAYES
 MICROBIAL CONSULTING
 3005 East Boundary Terrace, #F
 Midlothian, VA 23112, USA
 804.562.3435 Fax: 804.447.5562


Turn-Key Environmental Consultants
 790 Barnhart Road
 Troy, OH 45373
 Phone: (937) 335-8807 Fax: (937) 339-4882

EPA 600/R-93, M-4/82-020 (PLM)

HMC #19012557

| | | |
|---------------------------------------|-------------------------------|----------------------------|
| Job Number: 18460-4 | Job Name: 1202-A Huffman Ave. | Date Collected: 03/25/2019 |
| Collected by: Joseph Saunders | | Date Received: 03/29/2019 |
| Email: tkec@turn-keyenvironmental.com | | Date Reported: 04/05/2019 |

| # | Sample | Name | Description | Asbestos Fibers | Other Fibers | Non- Fibers |
|----|---------|-------------------------------------------------|--------------------|------------------------|-----------------------|-------------|
| 8 | 4-1 | Brown- 12 in. Floor Tile- 2 Layers- Dining Room | Floor Tile / Black | (None Detected) | (None Detected) | 100 % |
| | Layer 2 | Brown- 12 in. Floor Tile- 2 Layers- Dining Room | Adhesive / Yellow | (None Detected) | 2 % Cellulose fibers | 98 % |
| | Layer 3 | Brown- 12 in. Floor Tile- 2 Layers- Dining Room | Floor Tile / White | (None Detected) | (None Detected) | 100 % |
| 9 | 4-2 | Brown- 12 in. Floor Tile- 2 Layers- Living Room | Floor Tile / Brown | (None Detected) | (None Detected) | 100 % |
| | Layer 2 | Brown- 12 in. Floor Tile- 2 Layers- Living Room | Adhesive / Yellow | (None Detected) | 2 % Cellulose fibers | 98 % |
| | Layer 3 | Brown- 12 in. Floor Tile- 2 Layers- Living Room | Floor Tile / White | (None Detected) | (None Detected) | 100 % |
| 10 | 5-1 | Gray- Millboard- Basement | Fibrous / Gray | 40 % Chrysotile | 30 % Cellulose fibers | 30 % |
| | 6-1 | White- Sink Undercoating- Kitchen | Debris / Tan | (None Detected) | 15 % Cellulose fibers | 85 % |
| 12 | 7-1 | White- Window Caulk- Exterior | Caulk / Dark Gray | 2 % Chrysotile | (None Detected) | 98 % |
| | 7-2 | White- Window Caulk- Exterior | Caulk / Dark Gray | 2 % Chrysotile | (None Detected) | 98 % |

Signature: 

Date: 04/05/2019 Reviewed by: 

Date: 04/05/2019



HAYES
MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Turn-Key Environmental Consultants
790 Barnhart Road
Troy, OH 45373
Phone: (937) 335-8807 Fax: (937) 339-4882

Asbestos - Additional Information

HMC #19012557

All samples were received in acceptable condition unless otherwise noted on the report. This report must not be used by the client to claim product certification, approval, or endorsement by AIHA, NIST, NVLAP, NY ELAP, or any agency. The results relate only to the items tested. Hayes Microbial Consulting reserves the right to dispose of all samples after a period of 60 days in compliance with state and federal guidelines.

All Polarized Light Microscopy (PLM) results include an inherent uncertainty of measurement associated with estimating percentages by PLM. Measurement uncertainty data can be provided when requested.

'None Detected' - Below the detected reporting limit of 1% unless point counting is performed, then the detected reporting limit is .25%.

Per NY ELAP198.6 (NOB), TEM is the only reliable method to declare an NOB material as Non-Asbestos Containing.

Any NY ELAP samples that are subcontracted to another laboratory will display the name and ELAP Lab Identification number in the report page heading of those samples. The original report provided to Hayes Microbial Consulting is available upon request.



Signature:

Date: 04/05/2019

Reviewed by:



Date: 04/05/2019



#19013956
Report ID: 216408

Analysis Report prepared for

Turn-Key Environmental Consultants

790 Barnhart Road
Troy, OH. 45373

Phone: (937) 335-8807

18460-4
1202-A Huffman Ave.

Collected: **March 25, 2019**
Received: **April 8, 2019**
Reported: **April 12, 2019**



We would like to thank you for trusting Hayes Microbial for your analytical needs!
We received 2 samples by Drop Off in good condition for this project on March 25th, 2019.

The results in this analysis pertain only to this job, collected on the stated date, and should not be used in the interpretation of any other job. This report may not be duplicated, except in full, without the written consent of Hayes Microbial Consulting, LLC..

This laboratory bears no responsibility for sample collection activities, analytical method limitations, or your use of the test results. Interpretation and use of test results are your responsibility. Any reference to health effects or interpretation of mold levels is strictly the opinion of Hayes Microbial. In no event, shall Hayes Microbial or any of its employees be liable for lost profits or any special, incidental or consequential damages arising out of the use of these test results.

Steve Hayes, BSMT (ASCP)
Laboratory Director
Hayes Microbial Consulting, LLC.

EPA Laboratory ID: VA01419

Lab ID: #188863

NVLAP Lab Code: 500096-0

DPH License: #PH-0198

Joseph Saunders
 Turn-Key Environmental Consultants
 790 Barnhart Road
 Troy, OH. 45373
 (937) 335-8807

18460-4
 1202-A Huffman Ave.

#19013956
 Report ID: 216408

Asbestos 400 Point Count

| # | Sample | Material Description | Total Points | Non-Asbestos Fibers | Asbestos Fibers |
|---|------------------------------------|----------------------|--------------|---------------------|-------------------|
| 1 | 7-1 - White Window Caulk- Exterior | Caulk / Dark Gray | 400 | | 0.25% Chrysotile |
| 2 | 7-2 - White Window Caulk- Exterior | Caulk / Dark Gray | 400 | | <0.25% Chrysotile |

Lab Note: Chrysotile Observed <0.25%. Asbestos Observed Not In Counting Point of View.

Collected: Mar 25, 2019

Received: Apr 8, 2019

Reported: Apr 12, 2019



Project Analyst:
 Renaldo Drakes,

Renaldo Drakes

Date:
 04 - 12 - 2019

Reviewed By:
 Steve Hayes, BSMT

Stephen A. Hayes

Date:
 04 - 12 - 2019

3005 East Boundary Terrace, Suite F. Midlothian, VA. 23112

(804) 562-3435

contact@hayesmicrobial.com

| | |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Analysis Details | All samples were received in acceptable condition unless otherwise noted on the report. This report must not be used by the client to claim product certification, approval, or endorsement by AIHA, NIST, NVLAP, NY ELAP, or any agency. The results relate only to the items tested. Hayes Microbial Consulting reserves the right to dispose of all samples after a period of 60 days in compliance with state and federal guidelines. |
| PLM Analysis | All Polarized Light Microscopy (PLM) results include an inherent uncertainty of measurement associated with estimating percentages by PLM. Measurement uncertainty data can be provided when requested. |
| Definitions | 'None Detected' - Below the detected reporting limit of 1% unless point counting is performed, then the detected reporting limit is .25%. |
| New York ELAP | Per NY ELAP198.6 (NOB), TEM is the only reliable method to declare an NOB material as Non-Asbestos Containing. Any NY ELAP samples that are subcontracted to another laboratory will display the name and ELAP Lab Identification number in the report page heading of those samples. The original report provided to Hayes Microbial Consulting is available upon request. |

From: Turn-Key Environmental [mailto:tkec@turn-keyenvironmental.com]

Sent: Monday, April 08, 2019 9:04 AM

To: Dave Burrington <dave@hayesmicrobial.com>

Subject: Report Correction and Point Counts

Hi Dave,

For report number HMC #19012557 please change the job name from 1204-A Huffman to 1202-A Huffman. Let me know if you need additional information.

Also, I would like to have PLM EPA 400 Point Count analysis done on the following samples:

19012557-12
19012557-13

~~19012557-14~~
~~19012557-15~~

~~19012557-16~~
~~19012557-17~~

~~19012557-18~~

Four (4) day TAT is fine for these samples.

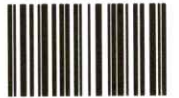
Thanks,
Joe Saunders

--
Turn-Key Environmental Consultants, Inc.
790 Barnhart Road 714 East Monument Ave
Troy, Ohio 45373 Dayton, OH 45402
937-335-8807
www.turn-keyenvironmental.com

D

SHIP: DROP OFF - HD
DATE: 04-08-2019

ASBESTOS



19013956



contact@hayesmicrobial.com
<http://hayesmicrobial.com/>

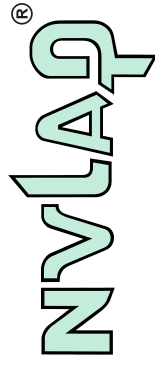
Analysis Report prepared for

Turn-Key Environmental Consultants

790 Barnhart Road
 Troy, OH. 45373
 Phone: (937) 335-8807 Fax: (937) 339-4882

Job Number: 18460-4
 Job Name: 1202-B Huffman Ave
 Date Sampled: 03-25-2019
 Date Analyzed: 04-05-2019
 Report Date: 04-05-2019

EPA Laboratory ID# VA01419



NVLAP Lab Code: 500096-0

Asbestos License: 300435

License: #PH-0198



HAYES
MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

HMC #19012564

Turn-Key Environmental Consultants
790 Barnhart Road
Troy, OH 45373

April 5, 2019

Client Job Number: 18460-4
Client Job Name: 1202-B Huffman Ave

Dear Turn-Key Environmental Consultants,

We would like to thank you for trusting Hayes Microbial for your analytical needs. On March 29, 2019 we received 9 samples by FedEx for the job referenced above. 9 samples were received in good condition.

The results in this analysis pertain only to this job, collected on the stated date and should not be used in the interpretation of any other job. This report may not be duplicated, except in full, without the written consent of Hayes Microbial Consulting, LLC.

This laboratory bears no responsibility for sample collection activities, analytical method limitations, or your use of the test results. Interpretation and use of test results are your responsibility. Any reference to health effects or interpretation of mold levels is strictly the opinion of Hayes Microbial Consulting. In no event, shall Hayes Microbial Consulting or any of its employees be liable for lost profits or any special, incidental or consequential damages arising out of your use of the test results.

Steve Hayes, BSMT(ASCP)
Laboratory Director
Hayes Microbial Consulting, LLC



HAYES
 MICROBIAL CONSULTING
 3005 East Boundary Terrace, #F
 Midlothian, VA 23112, USA
 804.562.3435 Fax: 804.447.5562

Turn-Key Environmental Consultants
 790 Barnhart Road
 Troy, OH 45373
 Phone: (937) 335-8807 Fax: (937) 339-4882

EPA 600/R-93, M-4/82-020 (PLM)

HMC #19012564

| | | |
|---------------------------------------|------------------------------|----------------------------|
| Job Number: 18460-4 | Job Name: 1202-B Huffman Ave | Date Collected: 03/25/2019 |
| Collected by: Joseph Saunders | | Date Received: 03/29/2019 |
| Email: tkec@turn-keyenvironmental.com | | Date Reported: 04/05/2019 |

| # | Sample | Name | Description | Asbestos Fibers | Other Fibers | Non- Fibers |
|---|---------|----------------------------------------------|------------------------|-----------------|-----------------------|-------------|
| 1 | 1-1 | White- Texture- Drywall- Ceiling- Kitchen | Drywall / White/Brown | (None Detected) | 12 % Cellulose fibers | 88 % |
| | Layer 2 | White- Texture- Drywall- Ceiling- Kitchen | Joint Compound / White | (None Detected) | (None Detected) | 100 % |
| 2 | 1-2 | White- Texture- Drywall- Ceiling- Kitchen | Drywall / White/Brown | (None Detected) | 12 % Cellulose fibers | 88 % |
| | Layer 2 | White- Texture- Drywall- Ceiling- Kitchen | Joint Compound / White | (None Detected) | (None Detected) | 100 % |
| 3 | 1-3 | White- Texture- Drywall- Ceiling- Bathroom | Drywall / White/Brown | (None Detected) | 12 % Cellulose fibers | 88 % |
| | Layer 2 | White- Texture- Drywall- Ceiling- Bathroom | Joint Compound / White | (None Detected) | (None Detected) | 100 % |
| 4 | 2-1 | Brown- 18 in. Floor Tile- Adhesive- Kitchen | Vinyl / Brown | (None Detected) | (None Detected) | 100 % |
| | Layer 2 | Brown- 18 in. Floor Tile- Adhesive- Kitchen | Adhesive / Yellow | (None Detected) | (None Detected) | 100 % |
| 5 | 2-2 | Brown- 18 in. Floor Tile- Adhesive- Kitchen | v / Brown | (None Detected) | (None Detected) | 100 % |
| | Layer 2 | Brown- 18 in. Floor Tile- Adhesive- Kitchen | Adhesive / Yellow | (None Detected) | (None Detected) | 100 % |
| 6 | 2-3 | Brown- 18 in. Floor Tile- Adhesive- Bathroom | Vinyl / Brown | (None Detected) | (None Detected) | 100 % |

Signature: *R. Edwards*

Reviewed by: *Stephen A. Hayes*

Date: 04/05/2019

Reviewed by:

Date: 04/05/2019



HAYES
 MICROBIAL CONSULTING
 3005 East Boundary Terrace, #F
 Midlothian, VA 23112, USA
 804.562.3435 Fax: 804.447.5562

Turn-Key Environmental Consultants
 790 Barnhart Road
 Troy, OH 45373
 Phone: (937) 335-8807 Fax: (937) 339-4882

EPA 600/R-93, M-4/82-020 (PLM)

HMC #19012564

| | | |
|---------------------------------------|------------------------------|----------------------------|
| Job Number: 18460-4 | Job Name: 1202-B Huffman Ave | Date Collected: 03/25/2019 |
| Collected by: Joseph Saunders | | Date Received: 03/29/2019 |
| Email: tkec@turn-keyenvironmental.com | | Date Reported: 04/05/2019 |

| # | Sample | Name | Description | Asbestos Fibers | Other Fibers | Non- Fibers |
|---|---------|----------------------------------------------|-------------------|-----------------|-----------------------|-------------|
| | Layer 2 | Brown- 18 in. Floor Tile- Adhesive- Bathroom | Adhesive / Yellow | (None Detected) | (None Detected) | 100 % |
| 7 | 3-1 | Grey- Millboard- Basement | Fibrous / White | 55 % Chrysotile | 15 % Cellulose fibers | 30 % |
| 8 | 4-1 | Grey- Door Caulk- Exterior- A | Caulk / Gray | 5 % Chrysotile | (None Detected) | 95 % |
| 9 | 4-2 | Grey- Door Caulk- Exterior- B | Caulk / Gray | 5 % Chrysotile | (None Detected) | 95 % |

R. J. [Signature]

Stephen A. Hayes

Signature: _____ Date: 04/05/2019 Reviewed by: _____ Date: 04/05/2019



HAYES
MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Turn-Key Environmental Consultants
790 Barnhart Road
Troy, OH 45373
Phone: (937) 335-8807 Fax: (937) 339-4882

Asbestos - Additional Information

HMC #19012564

All samples were received in acceptable condition unless otherwise noted on the report. This report must not be used by the client to claim product certification, approval, or endorsement by AIHA, NIST, NVLAP, NY ELAP, or any agency. The results relate only to the items tested. Hayes Microbial Consulting reserves the right to dispose of all samples after a period of 60 days in compliance with state and federal guidelines.

All Polarized Light Microscopy (PLM) results include an inherent uncertainty of measurement associated with estimating percentages by PLM. Measurement uncertainty data can be provided when requested.

'None Detected' - Below the detected reporting limit of 1% unless point counting is performed, then the detected reporting limit is .25%.

Per NY ELAP198.6 (NOB), TEM is the only reliable method to declare an NOB material as Non-Asbestos Containing.

Any NY ELAP samples that are subcontracted to another laboratory will display the name and ELAP Lab Identification number in the report page heading of those samples. The original report provided to Hayes Microbial Consulting is available upon request.

Signature:

Date: 04/05/2019

Reviewed by:

Date: 04/05/2019



#19013957
Report ID: 216409

Analysis Report prepared for

Turn-Key Environmental Consultants

790 Barnhart Road
Troy, OH. 45373

Phone: (937) 335-8807

18460-4
1202- B Huffman Ave.

Collected: **March 28, 2019**
Received: **April 8, 2019**
Reported: **April 12, 2019**



We would like to thank you for trusting Hayes Microbial for your analytical needs!
We received 2 samples by Drop Off in good condition for this project on March 28th, 2019.

The results in this analysis pertain only to this job, collected on the stated date, and should not be used in the interpretation of any other job. This report may not be duplicated, except in full, without the written consent of Hayes Microbial Consulting, LLC..

This laboratory bears no responsibility for sample collection activities, analytical method limitations, or your use of the test results. Interpretation and use of test results are your responsibility. Any reference to health effects or interpretation of mold levels is strictly the opinion of Hayes Microbial. In no event, shall Hayes Microbial or any of its employees be liable for lost profits or any special, incidental or consequential damages arising out of the use of these test results.

Steve Hayes, BSMT (ASCP)
Laboratory Director
Hayes Microbial Consulting, LLC.

EPA Laboratory ID: VA01419

Lab ID: #188863

NVLAP Lab Code: 500096-0

DPH License: #PH-0198

Joseph Saunders
 Turn-Key Environmental Consultants
 790 Barnhart Road
 Troy, OH. 45373
 (937) 335-8807

18460-4
 1202- B Huffman Ave.

#19013957
 Report ID: 216409

Asbestos 400 Point Count

| # | Sample | Material Description | Total Points | Non-Asbestos Fibers | Asbestos Fibers |
|---|-------------------------------------|----------------------|--------------|---------------------|------------------|
| 1 | 4-1 - Grey Door Caulk- Exterior (A) | Caulk / Gray | 400 | | 0.75% Chrysotile |
| 2 | 4-2 - Grey Door Caulk- Exterior (B) | Caulk / Gray | 400 | | 0.5% Chrysotile |

Collected: Mar 28, 2019

Received: Apr 8, 2019

Reported: Apr 12, 2019



Project Analyst:
 Renaldo Drakes,

Renaldo Drakes

Date:
 04 - 12 - 2019

Reviewed By:
 Steve Hayes, BSMT

Stephen A. Hayes

Date:
 04 - 12 - 2019

3005 East Boundary Terrace, Suite F. Midlothian, VA. 23112

(804) 562-3435

contact@hayesmicrobial.com

| | |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Analysis Details | All samples were received in acceptable condition unless otherwise noted on the report. This report must not be used by the client to claim product certification, approval, or endorsement by AIHA, NIST, NVLAP, NY ELAP, or any agency. The results relate only to the items tested. Hayes Microbial Consulting reserves the right to dispose of all samples after a period of 60 days in compliance with state and federal guidelines. |
| PLM Analysis | All Polarized Light Microscopy (PLM) results include an inherent uncertainty of measurement associated with estimating percentages by PLM. Measurement uncertainty data can be provided when requested. |
| Definitions | 'None Detected' - Below the detected reporting limit of 1% unless point counting is performed, then the detected reporting limit is .25%. |
| New York ELAP | Per NY ELAP198.6 (NOB), TEM is the only reliable method to declare an NOB material as Non-Asbestos Containing. Any NY ELAP samples that are subcontracted to another laboratory will display the name and ELAP Lab Identification number in the report page heading of those samples. The original report provided to Hayes Microbial Consulting is available upon request. |

From: Turn-Key Environmental [mailto:tkec@turn-keyenvironmental.com]
Sent: Monday, April 08, 2019 9:04 AM
To: Dave Burrington <dave@hayesmicrobial.com>
Subject: Report Correction and Point Counts

Hi Dave,

For report number HMC #19012557 please change the job name from 1204-A Huffman to 1202-A Huffman. Let me know if you need additional information.

Also, I would like to have PLM EPA 400 Point Count analysis done on the following samples:

19012557-12
19012557-13

19012564-8
19012564-9

19012567-2
19012567-3

19012565-17

Four (4) day TAT is fine for these samples.

Thanks,
Joe Saunders

--
Turn-Key Environmental Consultants, Inc.
790 Barnhart Road 714 East Monument Ave
Troy, Ohio 45373 Dayton, OH 45402
937-335-8807
www.turn-keyenvironmental.com

D

SHIP: DROP OFF - HD
DATE: 04-08-2019

ASBESTOS



19013957

DH 4-8-19



contact@hayesmicrobial.com
<http://hayesmicrobial.com/>

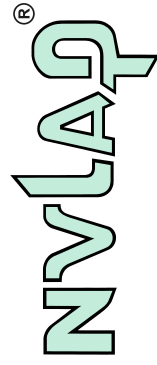
Analysis Report prepared for

Turn-Key Environmental Consultants

790 Barnhart Road
 Troy, OH. 45373
 Phone: (937) 335-8807 Fax: (937) 339-4882

Job Number: 18460-4
 Job Name: 1204- A Huffman Ave
 Date Sampled: 03-25-2019
 Date Analyzed: 04-05-2019
 Report Date: 04-05-2019

EPA Laboratory ID# VA01419



NVLAP Lab Code: 500096-0

Asbestos License: 300435

License: #PH-0198



HAYES
MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

HMC #19012556

Turn-Key Environmental Consultants
790 Barnhart Road
Troy, OH 45373

April 5, 2019

Client Job Number: 18460-4
Client Job Name: 1204- A Huffman Ave

Dear Turn-Key Environmental Consultants,

We would like to thank you for trusting Hayes Microbial for your analytical needs. On March 29, 2019 we received 7 samples by FedEx for the job referenced above. 7 samples were received in good condition.

The results in this analysis pertain only to this job, collected on the stated date and should not be used in the interpretation of any other job. This report may not be duplicated, except in full, without the written consent of Hayes Microbial Consulting, LLC.

This laboratory bears no responsibility for sample collection activities, analytical method limitations, or your use of the test results. Interpretation and use of test results are your responsibility. Any reference to health effects or interpretation of mold levels is strictly the opinion of Hayes Microbial Consulting. In no event, shall Hayes Microbial Consulting or any of its employees be liable for lost profits or any special, incidental or consequential damages arising out of your use of the test results.

Steve Hayes, BSMT(ASCP)
Laboratory Director
Hayes Microbial Consulting, LLC



HAYES
 MICROBIAL CONSULTING
 3005 East Boundary Terrace, #F
 Midlothian, VA 23112, USA
 804.562.3435 Fax: 804.447.5562


Turn-Key Environmental Consultants
 790 Barnhart Road
 Troy, OH 45373
 Phone: (937) 335-8807 Fax: (937) 339-4882


EPA 600/R-93, M-4/82-020 (PLM)

HMC #19012556

| | | |
|---------------------------------------|-------------------------------|----------------------------|
| Job Number: 18460-4 | Job Name: 1204- A Huffman Ave | Date Collected: 03/25/2019 |
| Collected by: Joseph Saunders | | Date Received: 03/29/2019 |
| Email: tkec@turn-keyenvironmental.com | | Date Reported: 04/05/2019 |

| # | Sample | Name | Description | Asbestos Fibers | Other Fibers | Non- Fibers |
|---|---------|--------------------------------------------------|-------------------------|-----------------|-----------------------|-------------|
| 1 | 1-1 | White- Drywall- Joint Compound- Ceiling- Kitchen | Drywall / White/Brown | (None Detected) | 12 % Cellulose fibers | 88 % |
| | Layer 2 | White- Drywall- Joint Compound- Ceiling- Kitchen | Joint Compound / White | (None Detected) | (None Detected) | 100 % |
| 2 | 1-2 | White- Drywall- Joint Compound- Ceiling- Kitchen | Drywall / White/Brown | (None Detected) | 12 % Cellulose fibers | 88 % |
| | Layer 2 | White- Drywall- Joint Compound- Ceiling- Kitchen | Joint Compound / White | (None Detected) | (None Detected) | 100 % |
| 3 | 2-1 | White- Plaster- Skim Coat- Ceiling - Living Room | Skim Coat / Tan/White | (None Detected) | (None Detected) | 100 % |
| | Layer 2 | White- Plaster- Skim Coat- Ceiling - Living Room | Rough Coat / Light Gray | (None Detected) | (None Detected) | 100 % |
| 4 | 2-2 | White- Plaster- Skim Coat- Wall- Bedroom 2 | Skim Coat / Tan | (None Detected) | (None Detected) | 100 % |
| | Layer 2 | White- Plaster- Skim Coat- Wall- Bedroom 2 | Rough Coat / Light Gray | (None Detected) | (None Detected) | 100 % |
| 5 | 2-3 | White- Plaster- Skim Coat- Wall- Bedroom 1 | Skim Coat / White | (None Detected) | (None Detected) | 100 % |
| | Layer 2 | White- Plaster- Skim Coat- Wall- Bedroom 1 | Rough Coat / Light Gray | (None Detected) | (None Detected) | 100 % |
| 6 | 3-1 | White- Sink Undercoating- Kitchen | Debris / Lt Tan | (None Detected) | 15 % Cellulose fibers | 85 % |

Signature: 

Date: 04/05/2019 Reviewed by: 

Date: 04/05/2019



HAYES
 MICROBIAL CONSULTING
 3005 East Boundary Terrace, #F
 Midlothian, VA 23112, USA
 804.562.3435 Fax: 804.447.5562


Turn-Key Environmental Consultants
 790 Barnhart Road
 Troy, OH 45373
 Phone: (937) 335-8807 Fax: (937) 339-4882

EPA 600/R-93, M-4/82-020 (PLM)

HMC #19012556

Job Number: 18460-4
 Collected by: Joseph Saunders
 Email: tkec@turn-keyenvironmental.com
 Job Name: 1204- A Huffman Ave
 Date Collected: 03/25/2019
 Date Received: 03/29/2019
 Date Reported: 04/05/2019

| # | Sample | Name | Description | Asbestos Fibers | Other Fibers | Non- Fibers |
|---|--------|---------------------------|----------------|------------------------|-----------------------|-------------|
| 7 | 4-1 | Grey- Millboard- Basement | Fibrous / Gray | 45 % Chrysotile | 35 % Cellulose fibers | 20 % |

Signature: 

Date: 04/05/2019
 Reviewed by: 

Date: 04/05/2019



HAYES
MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Turn-Key Environmental Consultants
790 Barnhart Road
Troy, OH 45373
Phone: (937) 335-8807 Fax: (937) 339-4882

Asbestos - Additional Information

HMC #19012556

All samples were received in acceptable condition unless otherwise noted on the report. This report must not be used by the client to claim product certification, approval, or endorsement by AIHA, NIST, NVLAP, NY ELAP, or any agency. The results relate only to the items tested. Hayes Microbial Consulting reserves the right to dispose of all samples after a period of 60 days in compliance with state and federal guidelines.

All Polarized Light Microscopy (PLM) results include an inherent uncertainty of measurement associated with estimating percentages by PLM. Measurement uncertainty data can be provided when requested.

'None Detected' - Below the detected reporting limit of 1% unless point counting is performed, then the detected reporting limit is .25%.

Per NY ELAP198.6 (NOB), TEM is the only reliable method to declare an NOB material as Non-Asbestos Containing.

Any NY ELAP samples that are subcontracted to another laboratory will display the name and ELAP Lab Identification number in the report page heading of those samples. The original report provided to Hayes Microbial Consulting is available upon request.



Signature:

Date: 04/05/2019

Reviewed by:



Date: 04/05/2019



contact@hayesmicrobial.com
<http://hayesmicrobial.com/>

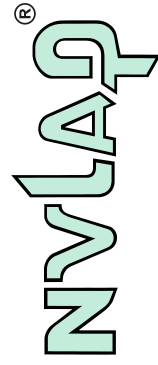
Analysis Report prepared for

Turn-Key Environmental Consultants

790 Barnhart Road
Troy, OH. 45373
Phone: (937) 335-8807 Fax: (937) 339-4882

Job Number: 18460-4
Job Name: 1208-A Huffman Ave.
Date Sampled: 03-25-2019
Date Analyzed: 04-05-2019
Report Date: 04-05-2019

EPA Laboratory ID# VA01419



NVLAP Lab Code: 500096-0

Asbestos License: 300435

License: #PH-0198



HAYES
MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

HMC #19012560

Turn-Key Environmental Consultants
790 Barnhart Road
Troy, OH 45373

April 5, 2019

Client Job Number: 18460-4
Client Job Name: 1208-A Huffman Ave.

Dear Turn-Key Environmental Consultants,

We would like to thank you for trusting Hayes Microbial for your analytical needs. On March 29, 2019 we received 4 samples by FedEx for the job referenced above. 4 samples were received in good condition.

The results in this analysis pertain only to this job, collected on the stated date and should not be used in the interpretation of any other job. This report may not be duplicated, except in full, without the written consent of Hayes Microbial Consulting, LLC.

This laboratory bears no responsibility for sample collection activities, analytical method limitations, or your use of the test results. Interpretation and use of test results are your responsibility. Any reference to health effects or interpretation of mold levels is strictly the opinion of Hayes Microbial Consulting. In no event, shall Hayes Microbial Consulting or any of its employees be liable for lost profits or any special, incidental or consequential damages arising out of your use of the test results.

Steve Hayes, BSMT(ASCP)
Laboratory Director
Hayes Microbial Consulting, LLC



HAYES
 MICROBIAL CONSULTING
 3005 East Boundary Terrace, #F
 Midlothian, VA 23112, USA
 804.562.3435 Fax: 804.447.5562

Turn-Key Environmental Consultants
 790 Barnhart Road
 Troy, OH 45373
 Phone: (937) 335-8807 Fax: (937) 339-4882

EPA 600/R-93, M-4/82-020 (PLM)

HMC #19012560

Job Number: 18460-4 Job Name: 1208-A Huffman Ave.
 Collected by: Joseph Saunders
 Email: tkec@turn-keyenvironmental.com
 Date Collected: 03/25/2019
 Date Received: 03/29/2019
 Date Reported: 04/05/2019

| # | Sample | Name | Description | Asbestos Fibers | Other Fibers | Non- Fibers |
|---|---------|---------------------------------------------------|-------------------|-----------------|-----------------|-------------|
| 1 | 1-1 | Brown- Grey- 18 in. Floor Tile- Adhesive- Kitchen | Vinyl / Tan | (None Detected) | (None Detected) | 100 % |
| | Layer 2 | Brown- Grey- 18 in. Floor Tile- Adhesive- Kitchen | Adhesive / Yellow | (None Detected) | (None Detected) | 100 % |
| 2 | 1-2 | Brown- Grey- 18 in. Floor Tile- Adhesive- Kitchen | Vinyl / Tan | (None Detected) | (None Detected) | 100 % |
| | Layer 2 | Brown- Grey- 18 in. Floor Tile- Adhesive- Kitchen | Adhesive / Yellow | (None Detected) | (None Detected) | 100 % |
| 3 | 2-1 | Blue- 12 in. Floor Tile- Adhesive- Bathroom | Tile / White | (None Detected) | (None Detected) | 100 % |
| | Layer 2 | Blue- 12 in. Floor Tile- Adhesive- Bathroom | Adhesive / Yellow | (None Detected) | (None Detected) | 100 % |
| 4 | 2-2 | Blue- 12 in. Floor Tile- Adhesive- Bathroom | Tile / White | (None Detected) | (None Detected) | 100 % |
| | Layer 2 | Blue- 12 in. Floor Tile- Adhesive- Bathroom | Adhesive / Yellow | (None Detected) | (None Detected) | 100 % |

Rede

Stephen A. Hayes

Signature:

Date: 04/05/2019

Reviewed by:

Date: 04/05/2019



HAYES
MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Turn-Key Environmental Consultants
790 Barnhart Road
Troy, OH 45373
Phone: (937) 335-8807 Fax: (937) 339-4882

Asbestos - Additional Information

HMC #19012560

All samples were received in acceptable condition unless otherwise noted on the report. This report must not be used by the client to claim product certification, approval, or endorsement by AIHA, NIST, NVLAP, NY ELAP, or any agency. The results relate only to the items tested. Hayes Microbial Consulting reserves the right to dispose of all samples after a period of 60 days in compliance with state and federal guidelines.

All Polarized Light Microscopy (PLM) results include an inherent uncertainty of measurement associated with estimating percentages by PLM. Measurement uncertainty data can be provided when requested.

'None Detected' - Below the detected reporting limit of 1% unless point counting is performed, then the detected reporting limit is .25%.

Per NY ELAP198.6 (NOB), TEM is the only reliable method to declare an NOB material as Non-Asbestos Containing.

Any NY ELAP samples that are subcontracted to another laboratory will display the name and ELAP Lab Identification number in the report page heading of those samples. The original report provided to Hayes Microbial Consulting is available upon request.

Signature:

Reviewed by:

Date: 04/05/2019

Date:

04/05/2019



contact@hayesmicrobial.com
<http://hayesmicrobial.com/>

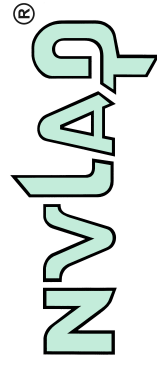
Analysis Report prepared for

Turn-Key Environmental Consultants

790 Barnhart Road
 Troy, OH. 45373
 Phone: (937) 335-8807 Fax: (937) 339-4882

Job Number: 18460-4
 Job Name: 1208-B Huffman Ave.
 Date Sampled: 03-25-2019
 Date Analyzed: 04-05-2019
 Report Date: 04-05-2019

EPA Laboratory ID# VA01419



NVLAP Lab Code: 500096-0

Asbestos License: 300435

License: #PH-0198



HAYES
MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

HMC #19012569

Turn-Key Environmental Consultants
790 Barnhart Road
Troy, OH 45373

April 5, 2019

Client Job Number: 18460-4
Client Job Name: 1208-B Huffman Ave.

Dear Turn-Key Environmental Consultants,

We would like to thank you for trusting Hayes Microbial for your analytical needs. On March 29, 2019 we received 5 samples by FedEx for the job referenced above. 5 samples were received in good condition.

The results in this analysis pertain only to this job, collected on the stated date and should not be used in the interpretation of any other job. This report may not be duplicated, except in full, without the written consent of Hayes Microbial Consulting, LLC.

This laboratory bears no responsibility for sample collection activities, analytical method limitations, or your use of the test results. Interpretation and use of test results are your responsibility. Any reference to health effects or interpretation of mold levels is strictly the opinion of Hayes Microbial Consulting. In no event, shall Hayes Microbial Consulting or any of its employees be liable for lost profits or any special, incidental or consequential damages arising out of your use of the test results.

Steve Hayes, BSMT(ASCP)
Laboratory Director
Hayes Microbial Consulting, LLC



HAYES
 MICROBIAL CONSULTING
 3005 East Boundary Terrace, #F
 Midlothian, VA 23112, USA
 804.562.3435 Fax: 804.447.5562


Turn-Key Environmental Consultants
 790 Barnhart Road
 Troy, OH 45373
 Phone: (937) 335-8807 Fax: (937) 339-4882

EPA 600/R-93, M-4/82-020 (PLM)

HMC #19012569

| | | |
|---------------------------------------|-------------------------------|----------------------------|
| Job Number: 18460-4 | Job Name: 1208-B Huffman Ave. | Date Collected: 03/25/2019 |
| Collected by: Joseph Saunders | | Date Received: 03/29/2019 |
| Email: tkec@turn-keyenvironmental.com | | Date Reported: 04/05/2019 |

| # | Sample | Name | Description | Asbestos Fibers | Other Fibers | Non- Fibers |
|---|---------|---------------------------------------------------|------------------------|-----------------|-----------------------|-------------|
| 1 | 1-1 | White- Plaster- Skim Coat- Kitchen | Skim Coat / White | (None Detected) | (None Detected) | 100 % |
| 2 | 1-2 | White- Plaster- Skim Coat- DR- LR | Rough Coat / Gray | (None Detected) | (None Detected) | 100 % |
| | Layer 2 | White- Plaster- Skim Coat- DR- LR | Skim Coat / Tan/White | (None Detected) | (None Detected) | 100 % |
| 3 | 1-3 | White- Plaster- Skim Coat- Landing | Rough Coat / Gray | (None Detected) | (None Detected) | 100 % |
| | Layer 2 | White- Plaster- Skim Coat- Landing | Skim Coat / Tan/White | (None Detected) | (None Detected) | 100 % |
| 4 | 2-1 | White Textured- Drywall- Joint Compound- Bathroom | Drywall / White/Brown | (None Detected) | 12 % Cellulose fibers | 88 % |
| | Layer 2 | White Textured- Drywall- Joint Compound- Bathroom | Joint Compound / White | (None Detected) | (None Detected) | 100 % |
| 5 | 2-2 | White Textured- Drywall- Joint Compound- Bathroom | Drywall / White/Brown | (None Detected) | 12 % Cellulose fibers | 88 % |
| | Layer 2 | White Textured- Drywall- Joint Compound- Bathroom | Joint Compound / White | (None Detected) | (None Detected) | 100 % |

Signature: 

Reviewed by: 

Date: 04/05/2019 Date: 04/05/2019



HAYES
MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Turn-Key Environmental Consultants
790 Barnhart Road
Troy, OH 45373
Phone: (937) 335-8807 Fax: (937) 339-4882

Asbestos - Additional Information

HMC #19012569

All samples were received in acceptable condition unless otherwise noted on the report. This report must not be used by the client to claim product certification, approval, or endorsement by AIHA, NIST, NVLAP, NY ELAP, or any agency. The results relate only to the items tested. Hayes Microbial Consulting reserves the right to dispose of all samples after a period of 60 days in compliance with state and federal guidelines.

All Polarized Light Microscopy (PLM) results include an inherent uncertainty of measurement associated with estimating percentages by PLM. Measurement uncertainty data can be provided when requested.

'None Detected' - Below the detected reporting limit of 1% unless point counting is performed, then the detected reporting limit is .25%.

Per NY ELAP198.6 (NOB), TEM is the only reliable method to declare an NOB material as Non-Asbestos Containing.

Any NY ELAP samples that are subcontracted to another laboratory will display the name and ELAP Lab Identification number in the report page heading of those samples. The original report provided to Hayes Microbial Consulting is available upon request.



Signature:

Date:

04/05/2019

Reviewed by:



Date:

04/05/2019



HAYES
 MICROBIAL CONSULTING
 3005 East Boundary Terrace, #F
 Midlothian, VA 23112, USA
 804.562.3435 Fax: 804.447.5562

Company:

Turn-Key Environmental Consultants, Inc.
 714 Monument Ave.
 Dayton, OH 45402

Asbestos - Chain of Custody

Form v.101302.5

HMS#
012569

Job Number: 18460-4

Job Name: 1208-B Huffman Ave.

Date Collected: 3/25/19

Mobile:

Collector: Joseph Saunders

Email: jsaunders@turn-keyenvironmental.com

Notes:

Sample #

Sample Name

Analysis Type

Volume

TAT

Group #

Pos. Stop

See Attached Bulk Sample Log

PLM

5 Day

Analysis Type

Description

Available Turn-Around Times

PLM EPA 600/R-93/116, M-4/82-020

PC EPA Point Count

NY NY/SDOH ELAP 198.1, 198.6

PCM NIOSH 7400

TEM TEM Air (AHERA)

TEM-C TEM Bulk (Chatfield)

3 Hour, Same Day, 1 Day, 2 Day, 3 Day, 5 Day

3 Hour, Same Day, 1 Day, 2 Day, 3 Day, 5 Day

1 Day, 2 Day, 3 Day, 5 Day

Same Day, 1 Day, 2 Day, 3 Day, 5 Day

1 Day, 2 Day, 3 Day, 5 Day

1 Day, 2 Day, 3 Day, 5 Day

Relinquished by: J. Saunders

Date: 3/28/19

Rcvd By: J. Saunders

Date: 3-29-19

Time:

Hayes Microbial Consulting :: 3005 East Boundary Terrace, Suite F :: Midlothian, VA 23112 :: USA :: www.hayesmicrobial.com :: info@hayesmicrobial.com



HAYES
MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

contact@hayesmicrobial.com
<http://hayesmicrobial.com/>

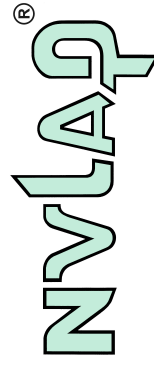
Analysis Report prepared for

Turn-Key Environmental Consultants

790 Barnhart Road
Troy, OH. 45373
Phone: (937) 335-8807 Fax: (937) 339-4882

Job Number: 18460-4
Job Name: 1210-A, B Haffman Ave.
Date Sampled: 03-25-2019
Date Analyzed: 04-05-2019
Report Date: 04-05-2019

EPA Laboratory ID# VA01419



NVLAP Lab Code: 500096-0

Asbestos License: 300435

License: #PH-0198



HAYES
MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

HMC #19012570

**Turn-Key Environmental Consultants
790 Barnhart Road
Troy, OH 45373**

April 5, 2019

Client Job Number: 18460-4
Client Job Name: 1210-A, B Hauffman Ave.

Dear Turn-Key Environmental Consultants,

We would like to thank you for trusting Hayes Microbial for your analytical needs. On March 29, 2019 we received 5 samples by FedEx for the job referenced above. 5 samples were received in good condition.

The results in this analysis pertain only to this job, collected on the stated date and should not be used in the interpretation of any other job. This report may not be duplicated, except in full, without the written consent of Hayes Microbial Consulting, LLC.

This laboratory bears no responsibility for sample collection activities, analytical method limitations, or your use of the test results. Interpretation and use of test results are your responsibility. Any reference to health effects or interpretation of mold levels is strictly the opinion of Hayes Microbial Consulting. In no event, shall Hayes Microbial Consulting or any of its employees be liable for lost profits or any special, incidental or consequential damages arising out of your use of the test results.

Steve Hayes, BSMT(ASCP)
Laboratory Director
Hayes Microbial Consulting, LLC



HAYES
 MICROBIAL CONSULTING
 3005 East Boundary Terrace, #F
 Midlothian, VA 23112, USA
 804.562.3435 Fax: 804.447.5562


Turn-Key Environmental Consultants
 790 Barnhart Road
 Troy, OH 45373
 Phone: (937) 335-8807 Fax: (937) 339-4882

EPA 600/R-93, M-4/82-020 (PLM)

HMC #19012570

Job Number: 18460-4 Job Name: 1210-A, B Haffman Ave.
 Collected by: Joseph Saunders
 Email: tkec@turn-keyenvironmental.com
 Date Collected: 03/25/2019
 Date Received: 03/29/2019
 Date Reported: 04/05/2019

| # | Sample | Name | Description | Asbestos Fibers | Other Fibers | Non-Fibers |
|---------------------------------------------------|---------|---------------------------------------------|------------------------|-----------------|--------------------------------------------------|------------|
| 1 | 1-1 | Tan- TSI- Basement | Fibrous / Yellow/White | (None Detected) | 45 % Mineral/Glass wool 25 % Cellulose fibers | 30 % |
| 2 | 1-2 | Tan- TSI- Basement | Fibrous / Yellow/Black | (None Detected) | 65 % Mineral/Glass wool | 35 % |
| 3 | 1-3 | Tan- TSI- Basement | Fibrous / Yellow/Black | (None Detected) | 55 % Mineral/Glass wool 15 % Cellulose fibers | 30 % |
| 4 | 2-1 | Brown- 12 in. Floor Tile- Adhesive- Hallway | Floor Tile / Brown | (None Detected) | (None Detected) | 100 % |
| | Layer 2 | Brown- 12 in. Floor Tile- Adhesive- Hallway | Adhesive / Yellow | (None Detected) | (None Detected) | 100 % |
| Notes: Insufficient sample for Accurate Analyses. | | | | | | |
| 5 | 2-2 | Brown- 12 in. Floor Tile- Adhesive- Hallway | Floor Tile / Brown | (None Detected) | (None Detected) | 100 % |
| Notes: Adhesive Layer Not Observed. | | | | | | |

Signature: 

Date: 04/05/2019 Reviewed by: 

Date: 04/05/2019



HAYES
MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Turn-Key Environmental Consultants
790 Barnhart Road
Troy, OH 45373
Phone: (937) 335-8807 Fax: (937) 339-4882

Asbestos - Additional Information

HMC #19012570

All samples were received in acceptable condition unless otherwise noted on the report. This report must not be used by the client to claim product certification, approval, or endorsement by AIHA, NIST, NVLAP, NY ELAP, or any agency. The results relate only to the items tested. Hayes Microbial Consulting reserves the right to dispose of all samples after a period of 60 days in compliance with state and federal guidelines.

All Polarized Light Microscopy (PLM) results include an inherent uncertainty of measurement associated with estimating percentages by PLM. Measurement uncertainty data can be provided when requested.

'None Detected' - Below the detected reporting limit of 1% unless point counting is performed, then the detected reporting limit is .25%.

Per NY ELAP198.6 (NOB), TEM is the only reliable method to declare an NOB material as Non-Asbestos Containing.

Any NY ELAP samples that are subcontracted to another laboratory will display the name and ELAP Lab Identification number in the report page heading of those samples. The original report provided to Hayes Microbial Consulting is available upon request.



Signature:

Date:

04/05/2019

Reviewed by:

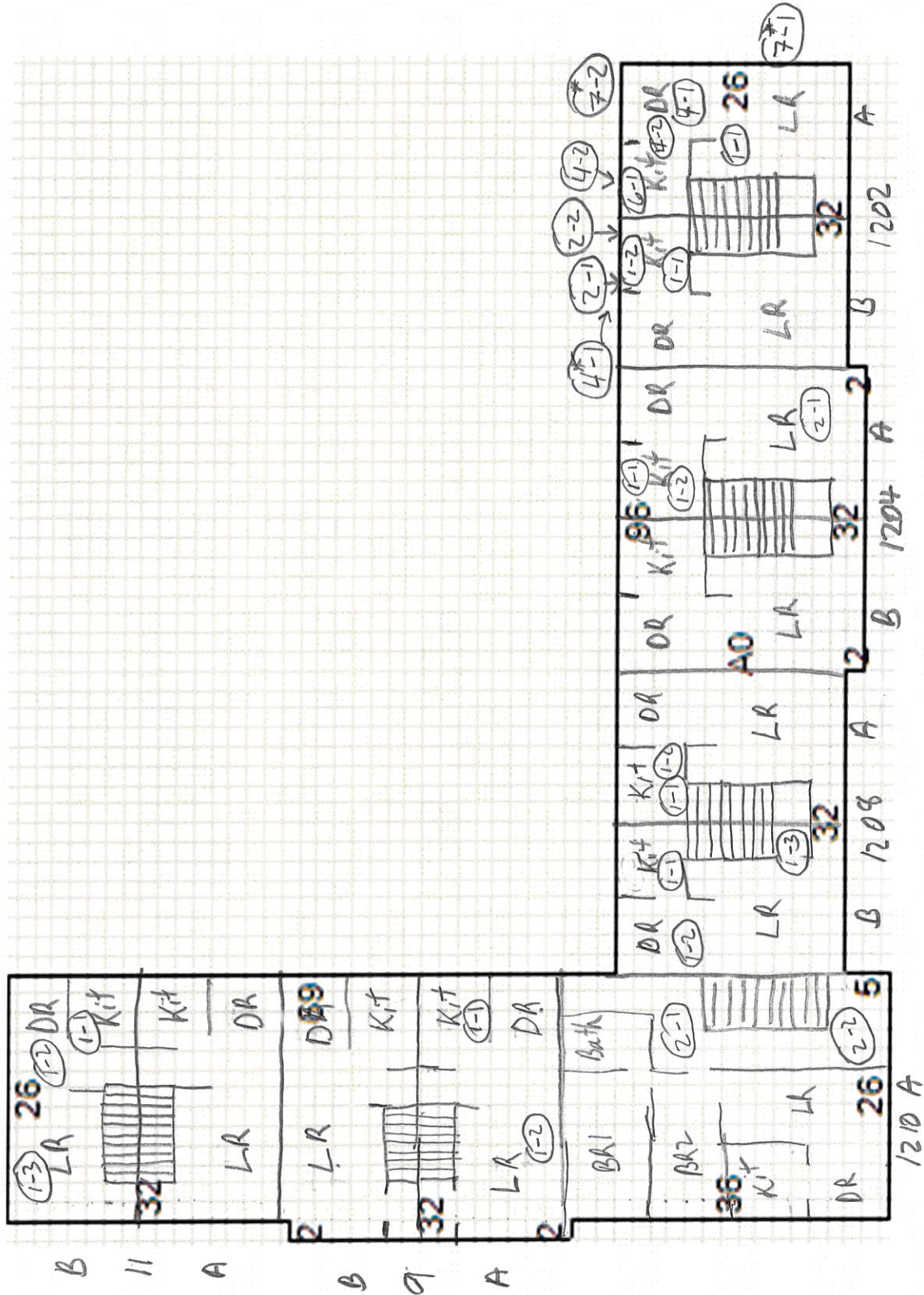


Date:

04/05/2019

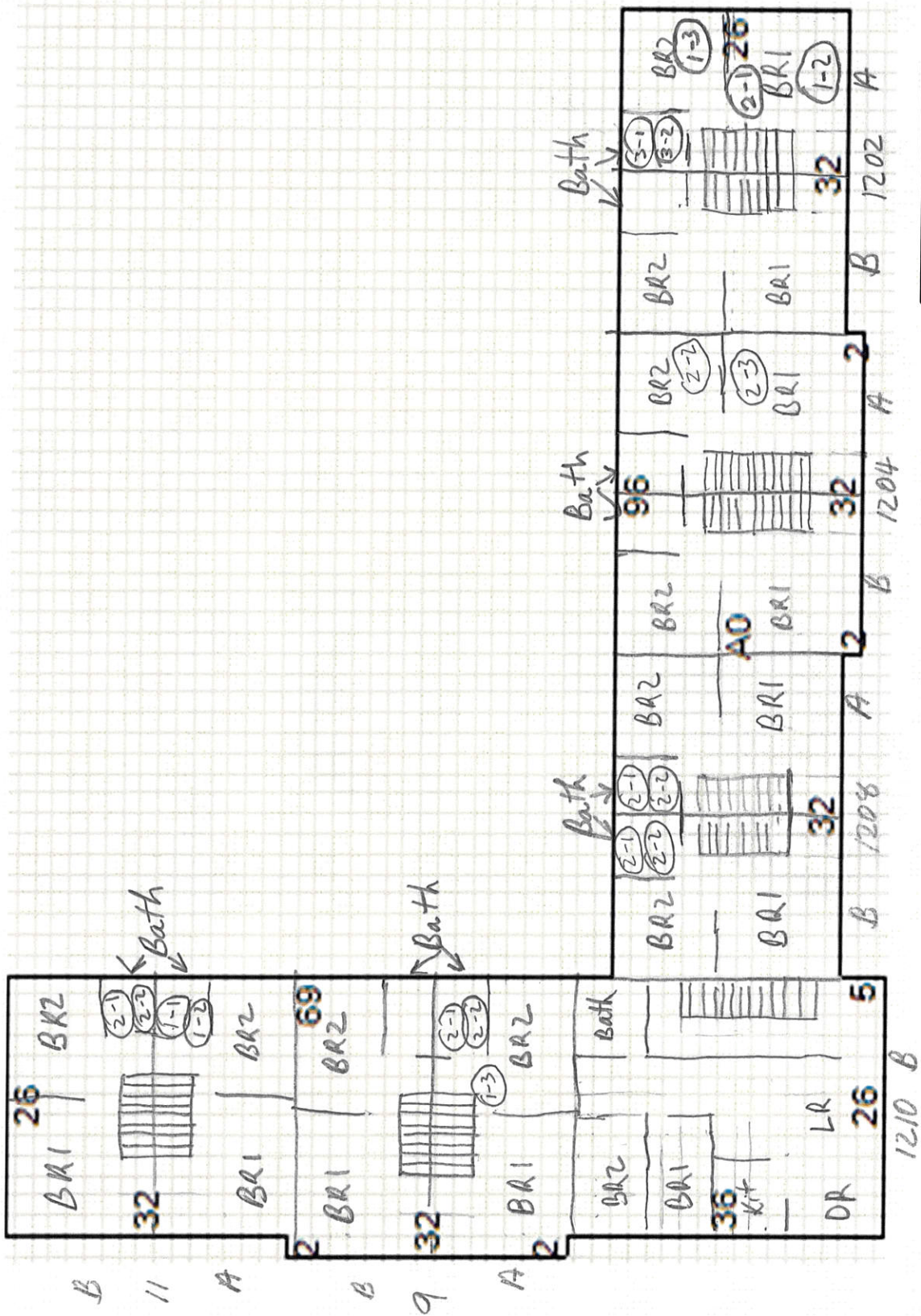
APPENDIX F

Sample Location Sketches



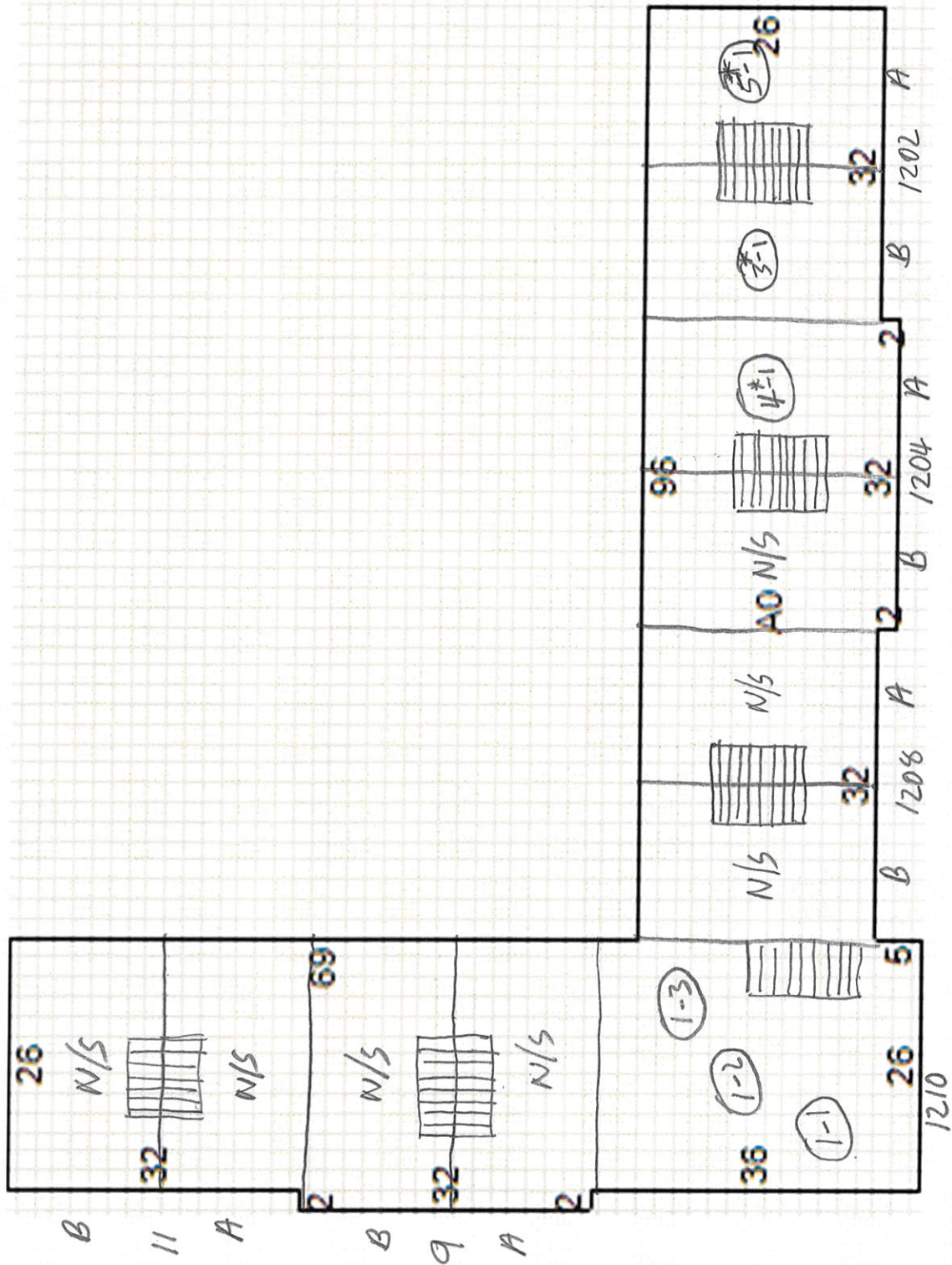
Floor Plan – First Floor
 TKEC #18460
 9 Parnell Ave.

1-1 Approximate Sample Location
 1-1* Asbestos > 1%



Floor Plan - Second Floor
 TKEC #18460
 Huffman - Parnell Ave.

1-1 Approximate Sample Location
 1-1* Asbestos > 1%



Floor Plan - Basement
 TKEC #18460
 Huffman - Parnell Ave.

1-1 Approximate Sample Location
 1-1* Asbestos > 1%

APPENDIX G

Photographs



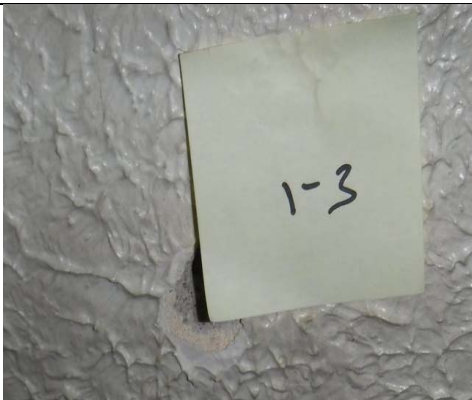
9 Parnell Ave., Apt. A



Sample 1-1, Plaster/Skim Coat, Kitchen



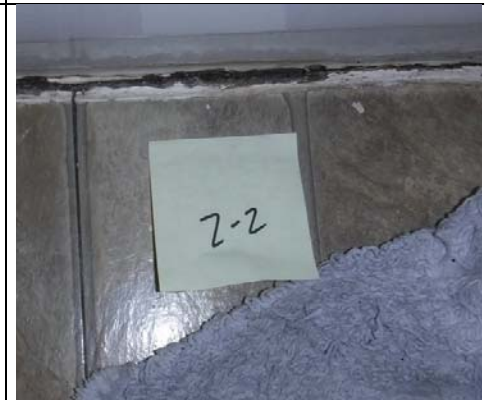
Sample 1-2. Plaster/Skim Coat, Living Room



Sample 1-3, Plaster/Skim Coat, Hallway



Sample 2-1, 12" Floor Tile/Adhesive, Bathroom



Sample 2-2, 12" Floor Tile/Adhesive, Bathroom

Empty rectangular box for notes.

Empty rectangular box for notes.

Empty rectangular box for notes.

Empty rectangular box for notes.

Empty rectangular box for notes.

Empty rectangular box for notes.



11 Parnell Ave., Apt. A

Sample 1-1, Texture/Drywall, Bathroom

Sample 1-2, Texture/Drywall, Bathroom

11 Parnell Ave., Apt. B



Sample 1-1, Texture/Plaster/Skim Coat, Kitchen



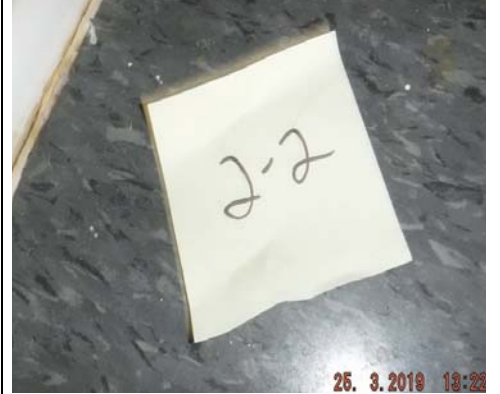
Sample 1-2, Texture/Plaster/Skim Coat, Dining Room



Sample 1-3, Texture/Plaster/Skim Coat, Living Room



Sample 2-1, 12" Floor Tile/Adhesive, Bathroom



Sample 2-2, 12" Floor Tile/Adhesive, Bathroom

Empty rectangular box for notes.

Empty rectangular box for notes.

Empty rectangular box for notes.

Empty rectangular box for notes.

Empty rectangular box for notes.

Empty rectangular box for notes.



1202 Huffman, Apt. A



Sample 1-1, Plaster/Skim Coat, Dining Room



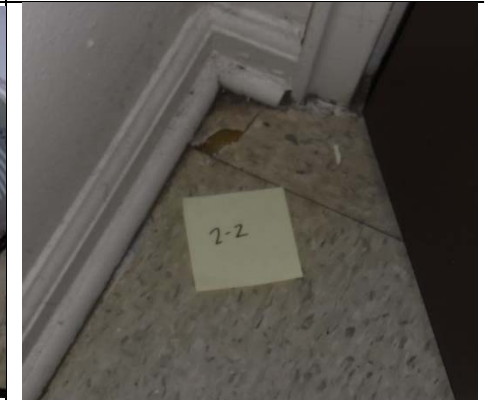
Sample 1-2, Plaster/Skim Coat, Bedroom 1



Sample 1-3, Plaster/Skim Coat, Bedroom 2



Sample 2-1, 12" Floor Tile/Adhesive, Hall Closet



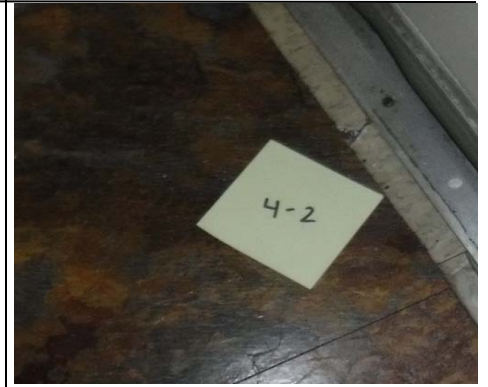
Sample 2-2, 12" Floor Tile/Adhesive, Bedroom 1



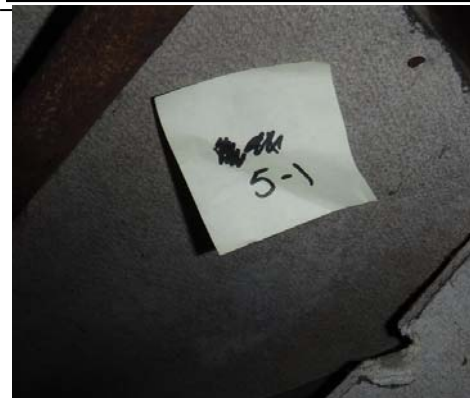
Samples 3-1, 3-2, 12" Floor Tile/Mastic, Bathroom



Sample 4-1, 12" Floor Tile, Dining Room



Sample 4-2, 12" Floor Tile, Living Room



Sample 5-1, Millboard, Basement



Sample 6-1, Sink Undercoat, Kitchen



Sample 7-1, Window Caulk, Exterior



Sample 7-2, Window Caulk, Exterior



1202 Huffman, Apt. B



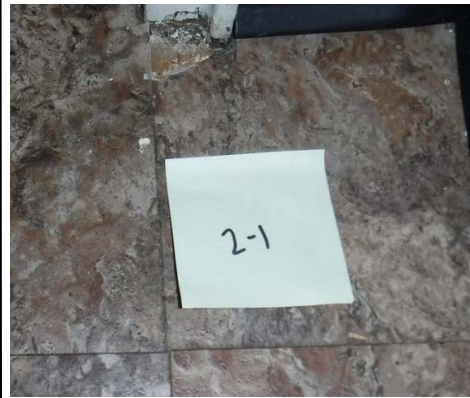
Sample 1-1. Texture/Drywall, Kitchen



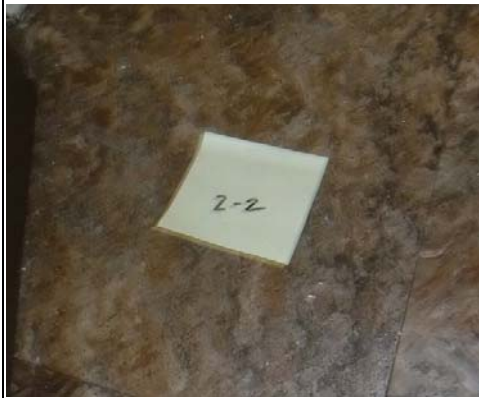
Sample 1-2, Texture/Drywall, Kitchen



Sample 1-3, Texture/Drywall, Bathroom



Sample 2-1, 18" Floor Tile/ Adhesive, Kitchen



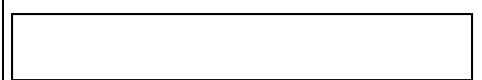
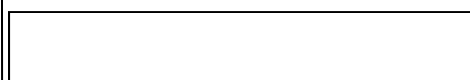
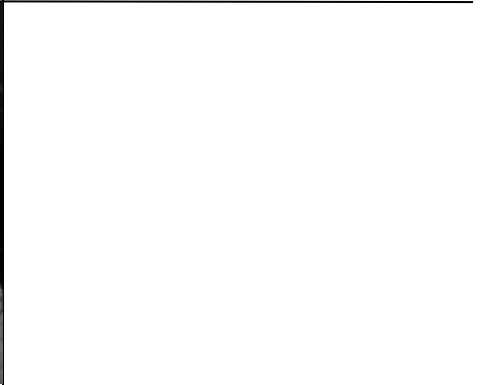
Sample 2-1, 18" Floor Tile/Adhesive, Kitchen



Sample 2-3, 18" Floor Tile/Adhesive, Bathroom



Sample 3-1, Millboard, Basement





1204 Huffman Ave., Apt. A



Sample 1-1, Drywall/Joint Compound, Kitchen



Sample 1-2, Drywall/Joint Compound, Kitchen



Sample 2-1, Plaster/Skim Coat, Living Room



Sample 2-2, Plaster/Skim Coat, Bedroom 2



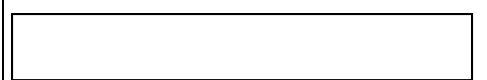
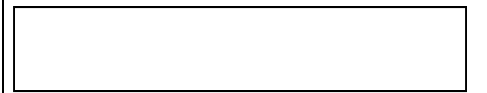
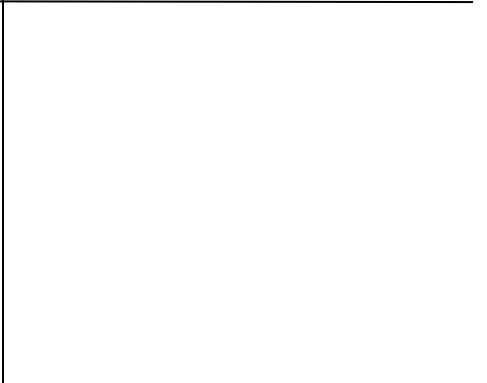
Sample 2-3, Plaster/Skim Coat, Bedroom 1



Sample 3-1, Sink Undercoat, Kitchen



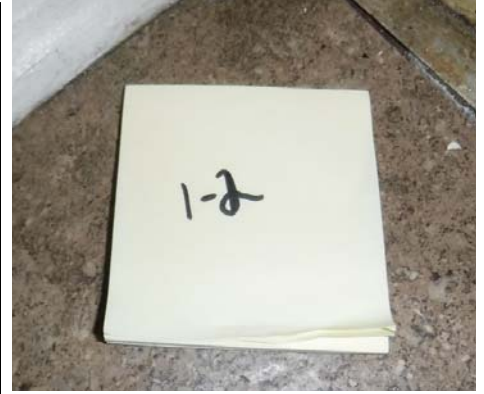
Sample 4-1, Millboard, Basement



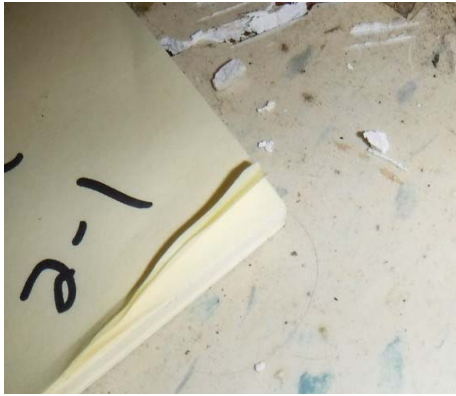
1208 Huffman Ave., Apt. A



Sample 1-1, 18" Floor Tile/Adhesive, Kitchen



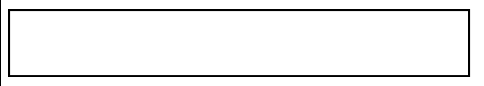
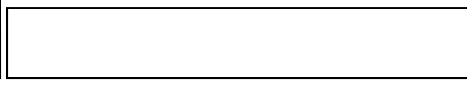
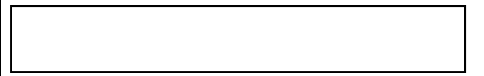
Sample 1-2, 18" Floor Tile, Kitchen



Sample 2-1, 12" Floor Tile/Adhesive, Bathroom

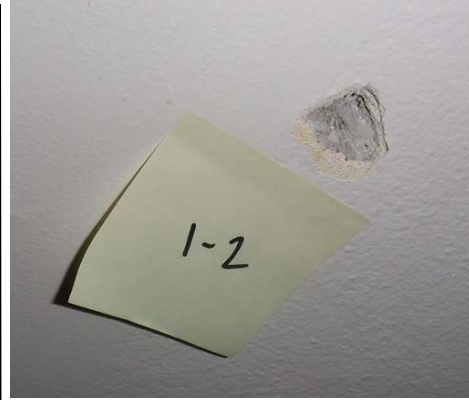


Sample 2-2, 12" Floor Tile/Adhesive, Bathroom





1208 Huffman Ave., Apt. B



Sample 2-1. Plaster/Skim Coat, Dining Room



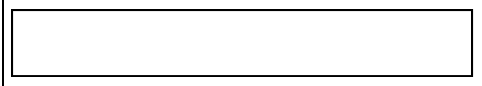
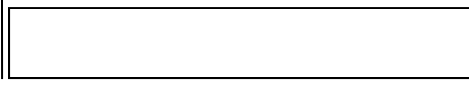
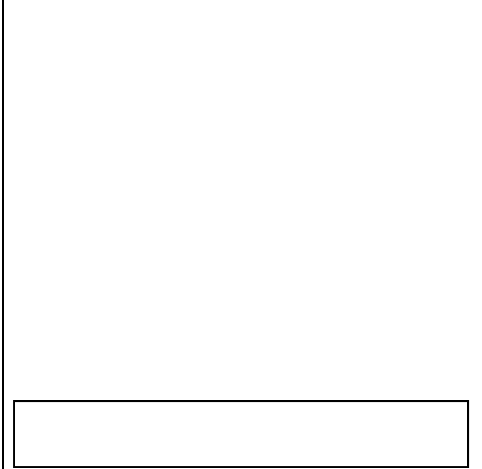
Sample 1-3, Plaster/Skim Coat, Landing



Sample 2-1, Texture/Drywall/Joint Compound, Bathroom



Sample 2-2. Texture/Drywall/Joint Compound, Bathroom



1210 Huffman Ave., Apt A/B



Sample 1-1, TSI, Basement



Sample 1-2, TSI, Basement



Sample 1-3, TSI, Basement



Sample 2-1, 12" Floor Tile/Adhesive, Hallway



Sample 2-2, 12" Floor Tile/Adhesive, Hallway

APPENDIX H

10-Day Notification Form and Instructions

**OHIO ENVIRONMENTAL PROTECTION AGENCY
INSTRUCTIONS FOR COMPLETING
NOTIFICATION OF DEMOLITION AND RENOVATION/ABATEMENT FORM**

General Information

These directions are for submitting hardcopy notifications to the Ohio EPA. Ohio EPA strongly encourages notifications to be submitted electronically via the Ohio EPA eBusiness Center located at ebiz.epa.ohio.gov.

Who must submit this notification? [OAC 3745-20-03 and OAC 3745-22-04(C)(4)]

- The owner or operator means any person who leases, operates, controls, or supervises the facility being demolished or renovated, or any person who owns, leases, operates, controls or supervises the demolition or renovation (activity), or both.
- Asbestos Abatement Contractor means a contractor who is currently licensed by the Ohio EPA as an Asbestos Hazard Abatement Contractor.

The Ohio EPA notification of demolition and renovation form is required for:

- Every demolition of a facility, regardless of whether asbestos is involved. This includes all structures that will be intentionally burned for fire training purposes.
- A renovation when the amount of regulated asbestos-containing material (RACM) stripped, removed, dislodged, cut, drilled, or similarly disturbed exceeds 260 linear feet on pipes or 160 square feet on other facility components or 35 cubic feet off facility components.
- An abatement when the activity involves the removal, renovation, enclosure, repair or encapsulation of friable asbestos-containing material in an amount greater than 50 linear feet on pipes or 50 square feet on other facility components.

When must I submit this notification?

ORIGINAL: The original notification must be **postmarked** or **hand delivered** to the Ohio EPA Central Office at least 10 working days (Monday-Friday excluding weekends) before operations begin. Please see example table below to help determine when to submit the original notification.

E-mail or FAX is not acceptable for original notification.

July

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|--------|----------|-----------|-----------|----------|----------|----------|
| | 1 | 2 | 3 day 1 | 4 day 2 | 5 day 3 | 6 |
| 7 | 8 day 4 | 9 day 5 | 10 day 6 | 11 day 7 | 12 day 8 | 13 |
| 14 | 15 day 9 | 16 day 10 | 17 * | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 31 | | | |

Post mark date (and Day 1 of 10-day clock): July 3rd.

Note: Holidays are counted when they fall on a working day.

Completion of 10-day prior notification period: July 16th.

* First day work can commence (day following the 10th working day): July 17th.

REVISIONS: A revised notification must be submitted if there is any change in the notification which renders information in the notification no longer accurate. Examples of changes include but are not limited to: if the amount of RACM changes by at least 20 percent, any changes in work schedules (dates or hours), any change in owner or operator, a change in the asbestos hazard abatement specialist onsite, or any change in the name or location of selected waste disposal site. A revised notification may be initiated by phone, however, must be followed in writing by either email or fax. Revisions shall be submitted as soon as possible but not later than one working day following discovery of the change.

EMERGENCY DEMOLITION OR RENOVATIONS: The notification must be submitted as early as possible before, but not later than, the following working day from start of demolition or renovation/abatement activities. The notification must include the supplemental information required in Sections 9 or 10.

Where do I send my notification?

Send the notification to: Ohio EPA Central Office, Division of Air Pollution Control, P.O. Box 1049, Columbus, Ohio 43216-1049.

How does Ohio EPA assess fees? [ORC 3745.11(G) and OAC 3745-22-04(C)]

Per ORC 3745.11(G), an owner or operator who is responsible for an asbestos demolition or renovation/abatement project regulated under OAC Chapter 3745-20, shall pay the fees set forth in the following schedule. This applies when thresholds are greater than or equal to: 260 linear feet; 160 square feet; or 35 cubic feet.

- Each notification \$75 plus,
- Asbestos removal \$3/unit (1 unit = any combination of linear feet or square feet equal to fifty) and/or
- Asbestos cleanup \$4/cubic yard

Per OAC 3745-22-04(C), if the renovation/abatement project involves removal, encapsulation, enclosure or repair of greater than 50 square feet or 50 linear feet of RACM, the Ohio EPA licensed asbestos hazard abatement contractor is responsible for paying the fees set forth in the following schedule.

- If notification is not an installation, \$65 fee, or
- If notification is an installation, \$65 fee for each address where RACM exceeds 50 square feet or 50 linear feet.

The fees shall be submitted with the original notification. Check or Money Order shall be made payable to: Treasurer, State of Ohio. Projects may be subject to both regulatory fee requirements above. Please be aware that some local air agencies may have additional fees.

Who can help answer questions about completing this notification?

Contact the Ohio EPA Central Office at 614-466-0061 or by email at asbestos@epa.ohio.gov.

Line-by-line Instructions

[Below listed instructions are for hardcopy form submission only]

Section 1: General Information

1. Check the type of notification (all that apply):
 - “Original” is the first notification submitted for a project; hardcopy is required to be post-marked or hand-delivered 10 working-days prior to start of work.
 - “Revision” is any notification submitted after the original due to any change which renders information on the form no longer accurate. Examples of changes requiring a revision include but are not limited to: if the amount of RACM changes by at least 20 percent, any changes in work schedules (dates or hours), any change in owner or operator, a change in the asbestos hazard abatement specialist onsite, or any change in the name or location of selected waste disposal site. Revisions shall be numbered chronologically with Revision #1 being the first time any items on the notification form were changed. If revision is marked, please include the Revision # and check the “Revised” box for each section where information is revised. A “Revised” box is located near the upper right hand side of each section throughout the form.
 - “Installation” means any building or structure or any group of buildings or structures at a single demolition or renovation/abatement site that are under the control of the same owner or operator, or owner or operator under common control. This would include projects where multiple addresses are included in a common project, have the same owner, and are being completed in the same county (i.e. land banks, residential cooperatives, highway projects involving multiple facility demolitions, etc.). If the project includes more than one structure or address, be sure to complete a separate “Section 2: Project Address Specific Information” page for each address.
 - “Emergency” includes emergency demolitions and emergency renovation/abatement operations. Emergency demolition means any demolition operation conducted under a written order issued by a state or local

governmental agency because a facility is structurally unsound and in danger of imminent collapse. Emergency renovation/abatement means a renovation/abatement operation that was not planned but results from a sudden, unexpected event that, if not immediately attended to, presents a safety or public health hazard, is necessary to protect equipment from damage, or is necessary to avoid imposing an unreasonable financial burden. This term includes operations necessitated by non-routine failures of equipment, by actions of fire or emergency medical personnel pursuant to duties within their official capacities, or by significantly damaged friable asbestos-containing material causing an environmental health hazard (as assessed by an asbestos hazard evaluation specialist). The notification must be submitted as early as possible before, but not later than, the following working day from start of demolition or renovation/abatement activities. The notification must include the supplemental information required in Sections 9 or 10.

- “Annual” refers to planned renovation operations over a calendar year involving a series of non-scheduled operations that are collectively greater than the threshold limits; these notifications must be submitted in the month prior to the beginning of the calendar year. See separate guidance document or contact Ohio EPA Central Office to determine if the project will meet Annual notification requirements.
- “Cancellation” is submitted to indicate a project has been cancelled and work will not be completed.
- “County” is for listing the County in which the project will occur.
- “NESHAP Residential Exemption” is for a project that meets the residential building exemption requirements of OAC 3745-20 rules, however, a notification is still required due to OAC 3745-22 rules (RACM exceeds 50 square feet or 50 linear feet). Checking this box will indicate that the \$65 notification fee per OAC 3745-22-04(C) still applies, however, the \$75 notification fee + RACM fees per ORC 3745.11(G) will not apply.

2. Provide owner, asbestos abatement contractor, billing, fire department Information (all that apply):

- In the “Owner” line, list the property owner [individual(s) who own(s) the property at the time of demolition/renovation (Note, this may be a government or private entity)] or list the Coordinating Entity (i.e., land bank, municipality, etc.) if the facility is part of a larger project or installation. Include address, contact person, phone, fax, and email for the listed Owner.
- Specify the name, address, contact person, phone, fax, email, and Ohio Environmental Protection Agency license number (ACXXXX) for the “Asbestos Abatement Contractor” (if regulated asbestos containing material(s) is being abated).
- Specify the billing contact for the project notification fees, either the Owner, the Asbestos Abatement Contractor, or the Demolition Contractor (if project is not an installation).
- Specify the name, address, contact person, phone, fax, email, for the “Fire Department” (if demolition of a facility is by intentional burning).

3. For any project subject to OAC 3745-20, include the Asbestos Hazard “Evaluation Specialist” Name, “Certification # (ESXXXX)”, and “procedure used to detect and analyze asbestos”. Analytical methods could include the collection of samples and sample analyses by polarized light microscopy (PLM) with dispersion staining. For samples that test under 10% asbestos content: An owner or operator may (a) elect to assume material to be greater than 1% asbestos, or, (b) require verification by point counting in which the point counting result will supersede the PLM estimation; Both choice and result should be stated on the notification. Explain any other method(s) used. All owners/operators should have the records of the asbestos assessment and analyses (inspection/survey report) on-site during active operations for reference and inspection. Such records would include a list of materials assessed, locations sampled and the sample results; this information can be found within the asbestos inspection report.

4. Describe the specific procedures to be followed in the event unexpected regulated asbestos-containing material (RACM) is found or non-friable asbestos-containing material becomes friable RACM.

Examples:

- A. *Stop work, evacuate area, and demarcate the area.*
- B. *Wetting of ACM with amended water and using wet cleaning methods.*

Should the discovery of unexpected RACM change the original amount of asbestos to be abated by 20 percent or more, you

must submit a revised notification pursuant to OAC 3745-20-03. A revised notification must reflect the change in the amount of affected asbestos-containing material. The revised notification must also reflect the new asbestos removal start date, if applicable.

5. Select the appropriate box (*Implosion, Fire Training, Wet Methods, Manual Demolition, Mechanical Demolition or Other*). Underneath the check boxes, write a brief summary of the specific method to be used on this project. In the box *Description of affected facility components*, include detailed information for each component where RACM is being removed. "Fire Training" refers to the demolition of a facility by intentional burning. All asbestos containing material, including Category I and Category II non-friable ACM, must be removed in accordance with OAC 3745-20 before burning. Additional requirements also apply; please contact the Ohio EPA District Office or Local Air Agency with jurisdiction for additional information (See attached map).
6. For the materials listed in each project, on the line for *Type of ACM to be abated*, check the appropriate box (*Surfacing, Mechanical or Other*). If "Other" is selected, specify what the asbestos material is. At least one box must be checked, but if multiple types of asbestos are being removed, multiple boxes may be checked. On the line for *Engineering Controls*, select the appropriate box (*Wet Methods, Glove Bag, NPE, AFD or Other*). If "Other" is selected, specify the method(s) to be used. At least one type of engineering control must be selected, but multiple methods may be selected. On the line for *Work Practices*, select the appropriate box (*Intact Removal, Manual, Mechanical or Other*). If "Other" is selected, specify what the work practice method is. At least one work practice box must be selected but more than one may be selected.
7. Please complete the information for this section if asbestos containing material is being removed. On the name line, enter the name of the transporter company (example: *Jones Waste Hauler*) and complete the other fields in accordance to the information relating to this company. If more than one transporter is being used, complete the information for the second transporter in this same manner. **NOTE: you must also complete a Waste Shipment Record prior to consigning any asbestos containing waste materials (ACWM).**
8. Enter the name of the waste disposal site and complete all the other fields based on the physical location of the site. Check the following Ohio EPA website for an updated list of approved asbestos accepting waste disposal sites:
www.epa.ohio.gov/dapc/atu/asbestos.aspx
9. This section must be completed for emergency demolitions that meet the definitions and requirements of the regulation. If a facility is not in imminent danger of collapse, it is not an emergency demolition even though it may be ordered to be demolished due to hazardous conditions. Provide the name, title and agency of the state or local governmental representative who has ordered the demolition. The Authority of Order is the applicable state or local regulation under which the demolition order has been issued. **You must attach a copy of the demolition order to the notification.**
10. This section shall be completed for emergency renovations/abatement that meet criteria described in OAC 3745-20-01 and OAC 3745-22-03(H). **You must provide detail on the four items listed in this section, including a description of how the project meets the "emergency" requirements of OAC 3745-22-03(H). A separate sheet may be needed.**
11. The person signing this notification is attesting to the fact that in accordance with Ohio Administrative Code rule 3745-20-03(A)(4)(p), they are certifying that at least one person trained as required by paragraph (B) of rule 3745-20-04 of the Administrative Code will supervise the stripping and removal described by this notification, and are acknowledging that the submission of false or misleading statements is prohibited by law and certifying that facts contained in this notification are true, accurate, and complete.

Section 2: Project Address Specific Information

Please complete Section 2 for the address included with this notification. If the project is an "Installation" per OAC 3745-20, complete a separate Section 2 page for each address associated with this notification.

- A. Describe the building(s) or structure(s) affected by the operations. Include building size in square feet, specific site location, number of floors, and age in years. Also include the present and prior use (i.e., industrial, commercial, institutional, residential, vacant, etc.) of the building(s).
- B. Identify the type of operation. Definitions of these terms can be found in OAC 3745-20-01.
 - "Demolition" means the wrecking, or taking out of any load-supporting structural member of a facility together with any related handling operations or the intentional burning of any facility.

- "Renovation" means altering a facility or one or more facility components in any way, including the stripping or removal of regulated asbestos-containing material in an amount greater than 260 linear feet, 160 square feet, or 35 cubic feet from a facility component. Operations in which load-supporting structural members are wrecked or taken out are demolitions.
- "Abatement" refers to any Asbestos hazard abatement activity involving the removal, renovation, enclosure, repair, or encapsulation of reasonably related friable asbestos-containing materials in an amount greater than 50 linear feet or 50 square feet. Asbestos hazard abatement activity also includes any such activity involving such asbestos-containing materials in an amount of 50 linear or 50 square feet or less if, when combined with any other reasonably related activity in terms of time and location of the activity, the total amount is in an amount greater than 50 linear or 50 square feet.

- C.** Declare whether or not asbestos is present in any quantity. This includes assumed asbestos containing materials such as roofing and flooring. Also specify if the facility was previously abated and year when previous asbestos abatement occurred (if applicable).
- D.** Specify the amount of regulated asbestos-containing material (RACM) to be removed as follows: linear feet on pipes, square feet (surface area) on facility components, and total cubic feet (volume) on or off all facility components. Asbestos containing demolition debris and related materials shall be quantified in cubic feet (volume) Convert any cubic yardage measurements to cubic feet (1 cubic yard = 27 cubic feet). Estimate the approximate amount of Category I and Category II non-friable asbestos-containing material in the affected part of the facility that will be removed before demolition. Estimate the approximate amount of Category I and Category II non-friable asbestos-containing material in good condition in the affected part of the facility that will not be removed before demolition.
- E.** Specify the scheduled dates for asbestos removal, the hours of operation, and the days of the week that asbestos removal operations will be active onsite. Please note, the setup date must be at least 10 working-days after postmark or hand-deliver date. Also include the name, certification number, and expiration date of the asbestos hazard abatement specialist scheduled to be onsite in charge of the asbestos abatement project. Additional boxes have been provided in the event the project involves more than one shift.
- F.** Specify the name, address, contact person, phone, fax, and email for the Demolition Contractor, if applicable.
- G.** Specify the starting and ending dates for demolition even when no asbestos-containing materials are present. Should the demolition not begin on the start date listed, a revised notification form shall be submitted prior to the listed start date. Please note the start date must be at least 10 working-days after postmark or hand-deliver date.
- H.** If a project is being placed on hold, specify the dates as follows:
- "Hold Begin Date" indicate date that the regularly scheduled demolition or renovation/abatement operations will be put on hold at the facility.
 - "Work Resume Date" indicate date that the regularly scheduled demolition or renovation/abatement operations will resume at the facility. If a project was previously placed "On Hold", the Ohio EPA must receive notification of returning to the project at least one (1) working day prior to resuming demolition and/or renovation/abatement activities.

Be sure to indicate the correct page numbers across the bottom of the notification once all the pages are complete.

The asbestos regulations, notification forms, guidance, local contacts, and other information can be found on Ohio EPA's asbestos program web site at www.epa.ohio.gov/dapc/atu/asbestos.aspx



Notification of Demolition and Renovation/Abatement

Section 1: General Information

Division of Air Pollution Control

Work on projects cannot begin until 10 working days after a COMPLETE original notification form, **including payment**, is submitted to Ohio EPA. Instructions and a worksheet for fee calculation are available at epa.ohio.gov/asbestos. This form can be completed, and payment made, at ebiz.epa.ohio.gov. Questions? asbestos@epa.ohio.gov or (614) 466-0061.

| | | | | |
|--------------------------|-----------------|-----------------|---------------|-----------------------------------------|
| <i>Ohio EPA Use Only</i> | Notification #: | Postmarked: / / | Received: / / | <input type="checkbox"/> Hand-Delivered |
|--------------------------|-----------------|-----------------|---------------|-----------------------------------------|

1) Notification Information (Check all that apply)

| | | | | | | |
|-------------------------------------------------------|----------------------------------------------|---------------------------------------|------------------------------------|---------------------------------|---------------------------------------|------------------------|
| <input type="checkbox"/> Original | <input type="checkbox"/> Revision # (count): | <input type="checkbox"/> Installation | <input type="checkbox"/> Emergency | <input type="checkbox"/> Annual | <input type="checkbox"/> Cancellation | Project County: |
| <input type="checkbox"/> NESHAP Residential Exemption | | | | | | |

2) Owner, Asbestos Abatement Contractor, Billing and Fire Department Information

Revised?

| | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------|-----------------------------------------------------------------------------|
| Owner | | | |
| Name: | | | Is this a company? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Address: | | Contact Person: | |
| City: | State: | Zip: - | |
| Email: | Phone: () - | Fax: () - | |
| Asbestos Abatement Contractor (if applicable) | | | |
| Name: | | License #: AC | Expiration Date: / / |
| Address: | | Contact Person: | |
| City: | State: | Zip: - | |
| Email: | Phone: () - | Fax: () - | |
| Billing Contact | | | |
| Is this contact associated with the <input type="checkbox"/> Owner, <input type="checkbox"/> Asbestos Abatement Contractor, or <input type="checkbox"/> Demolition Contractor (if not installation)? | | | |
| Address: | | Contact Person: | |
| City: | State: | Zip: - | |
| Email: | Phone: () - | Fax: () - | |
| Fire Department (if applicable) | | | |
| Name: | | | |
| Address: | | Contact Person: | |
| City: | State: | Zip: - | |
| Email: | Phone: () - | Fax: () - | |

3) Ohio Asbestos Hazard Evaluation Specialist and Evaluation Procedure

Revised?

| | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------------------|
| Evaluation Specialist: JOSEPH SAUNDERS | Certification #: ES 34837 | Expiration Date: 06 / 10 / 2019 |
| Procedure, including analytical methods, employed to detect the presence of and to estimate the quantity of regulated asbestos-containing material (RACM) and Category I and Category II non-friable asbestos-containing material: <input checked="" type="checkbox"/> PLM <input checked="" type="checkbox"/> Point Count <input type="checkbox"/> TEM <input type="checkbox"/> Other Method (Explain Below): | | |

4) Procedures to be followed should unexpected RACM be discovered (check all that apply)

Revised?

| | | | |
|----------------------------------------------------------------------|----------------------------------------|-----------------------------------------|----------------------------------------------------------------|
| <input type="checkbox"/> Stop work and keep wet | <input type="checkbox"/> Evacuate area | <input type="checkbox"/> Demarcate area | <input type="checkbox"/> Contact licensed abatement contractor |
| <input type="checkbox"/> Contact district office/local air authority | | | |
| <input type="checkbox"/> Other (Explain): | | | |

5) Planned Demolition (check all that apply)

Revised?

| |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Describe demolition work to be performed and method(s) to be employed, including demolition techniques to be used: <input type="checkbox"/> Implosion <input type="checkbox"/> Fire Training <input type="checkbox"/> Wet Methods <input type="checkbox"/> Manual Demolition <input type="checkbox"/> Mechanical Demolition <input type="checkbox"/> Other (Explain): |
| Description of affected facility components (include attachment if necessary): |

Notification of Demolition and Renovation/Abatement

Section 1: General Information

Continued

Mail completed form and payment to:
Ohio EPA, DAPC – Asbestos
P.O. Box 1049, Columbus, OH 43216-1049

6) Asbestos Description and Engineering Controls (if asbestos is being abated) Revised?

For the material listed in each project, describe the type(s) of ACM to be abated, engineering controls and work practices to be used to minimize emissions and ensure proper waste handling:

| | | | | | |
|---------------------------|-----------------------------------------|-------------------------------------|-------------------------------------|---------------------------------|---------------------------------|
| Type of ACM to be abated: | <input type="checkbox"/> Surfacing | <input type="checkbox"/> Mechanical | <input type="checkbox"/> Other | | |
| Engineering Controls: | <input type="checkbox"/> Wet Methods | <input type="checkbox"/> Glove Bag | <input type="checkbox"/> NPE | <input type="checkbox"/> AFD | <input type="checkbox"/> Other: |
| Work Practices: | <input type="checkbox"/> Intact Removal | <input type="checkbox"/> Manual | <input type="checkbox"/> Mechanical | <input type="checkbox"/> Other: | |

7) Asbestos Waste Transporter (if applicable) Revised?

| | | | | | |
|--------------------------------------|--------------|------------|-----------------|--|--|
| Transporter #1 Name: | | | | | |
| Address: | | | Contact Person: | | |
| City: | State: | Zip: | - | | |
| Email: | Phone: () - | Fax: () - | | | |
| Transporter #2 Name (if applicable): | | | | | |
| Address: | | | Contact Person: | | |
| City: | State: | Zip: | - | | |
| Email: | Phone: () - | Fax: () - | | | |

8) Asbestos Waste Disposal Site (if applicable) Revised?

| | | | | | |
|----------|--------------|------------|-----------------|--|--|
| Name: | | | | | |
| Address: | | | Contact Person: | | |
| City: | State: | Zip: | - | | |
| Email: | Phone: () - | Fax: () - | | | |

9) Emergency Demolition (complete if you checked "Emergency" above and "Demolition" for any project) Revised?

A copy of the issued order, including the following information, **must be attached** to this notification.

| | |
|------------------------------------|----------------------------------------|
| Government Official Issuing Order: | Title: |
| Agency: | Authority of Order (Citation of Code): |
| Date of Order: / / | Demolition Date: / / |

10) Emergency Renovation/Abatement (complete if you checked "Emergency" above and "Renovation/Abatement" for any project) Revised?

| | |
|----------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| Date of Emergency: / / | Time of Emergency: : <input type="checkbox"/> a.m. <input type="checkbox"/> p.m. |
| Description of Sudden, Unexpected Event: | |
| Explanation of how the event caused unsafe conditions or equipment damage: | |

11) Attestation Revised?

In accordance with Ohio Administrative Code rule 3745-20-03(A)(4)(p), I certify that at least one person trained as required by paragraph (B) of rule 3745-20-04 of the Administrative Code will supervise the stripping and removal described by this notification. I acknowledge that the submission of false or misleading statements is prohibited by law and I certify that facts contained in this notification are true, accurate, and complete.

| | |
|---------------|-----------|
| Signature: | Date: / / |
| Name: | Title: |
| Organization: | |

Mail completed form and payment to:
Ohio EPA, DAPC – Asbestos
P.O. Box 1049, Columbus, OH 43216-1049

Notification of Demolition and Renovation/Abatement

Section 1: General Information

Continued



Notification of Demolition and Renovation/Abatement

Section 2: Project Address Specific Information

Division of Air Pollution Control

Please complete Section 2 for the address included with this notification. If the project is an "Installation" per OAC 3745-20, complete a separate Section 2 page for each address associated with this notification.

| | |
|-------------------|---------------------|
| Ohio EPA Use Only | Project ID #: _____ |
|-------------------|---------------------|

A. Facility Description Revised?

| | | | |
|--------------------------------|----------------|---------------------------|--|
| Building Name (if applicable): | | Site Location (specific): | |
| Address: | | | |
| City: | State: OH | Zip: - | |
| Building Size (square feet): | No. of Floors: | Age: | |
| Present Use: | | Prior Use: | |

B. Type of Operation (check all that apply) Revised?

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Demolition | <input type="checkbox"/> Renovation/Abatement – Type: <input type="checkbox"/> Removal <input type="checkbox"/> Repair <input type="checkbox"/> Encapsulation <input type="checkbox"/> Enclosure |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

C. Asbestos Present (check one) Revised?

| | | | |
|------------------------------|-----------------------------|------------------------------------------------|--------------------|
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> No, previously abated | Year Abated: _____ |
|------------------------------|-----------------------------|------------------------------------------------|--------------------|

D. Approximate Amount of Asbestos-Containing Materials (complete table below and Section 1 #6 if asbestos is present) Revised?

| | Material to be Removed | | | | Material NOT to be Removed | |
|----------------------------------------------------------------|------------------------|------------------------------------------|-------------|------------------------------------------|----------------------------|--|
| | RACM | Non-friable Asbestos-Containing Material | | Non-friable Asbestos-Containing Material | | |
| | | Category I | Category II | Category I | Category II | |
| Pipes (linear feet) | | | | | | |
| Surface area on other facility components (ft ²) | | | | | | |
| Volume if length or area cannot be measured (ft ³) | | | | | | |

E. Asbestos Abatement Schedule and Abatement Specialist (original notification is required 10 working days prior to the start of work) Revised?

| | | | | | | | |
|----------------------------------|--------|---------|---------------------|----------|--------|----------------------|--------|
| Setup Date: / / | | | Abatement Date: / / | | | Complete Date: / / | |
| (Shift 1) Time start/end on site | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday |
| Abatement Specialist Name: | | | Certification #: AS | | | Expiration Date: / / | |
| (Shift 2) Time start/end on site | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday |
| Abatement Specialist Name: | | | Certification #: AS | | | Expiration Date: / / | |

F. Demolition Contractor (if applicable) Revised?

| | | | |
|----------|--------------|------------|-----------------|
| Name: | | | |
| Address: | | | Contact Person: |
| City: | State: | Zip: - | |
| Email: | Phone: () - | Fax: () - | |

G. Demolition Schedule (original notification is required 10 working days prior to the start of work) Revised?

| | |
|-----------------|--------------------|
| Start Date: / / | Complete Date: / / |
|-----------------|--------------------|

H. Project Hold Revised?

| | |
|----------------------|-----------------------|
| Hold Begin Date: / / | Work Resume Date: / / |
|----------------------|-----------------------|



Cincinnati

3959 Fulton Grove Rd.
Cincinnati, Ohio 45245
(513) 752-9111
(513) 752-7973 (Fax)

Cleveland

3100 E. 45th Street
Suite 446
Cleveland, Ohio 44127
(216) 916-7378

Florida

11982 Granite Woods Loop
Venice, Florida 34292
(513) 265-3299
(513) 752-7973 (Fax)

Services

Phase I ESA's
Phase II Investigations
Asbestos
Lead-Based Paint
Industrial Hygiene
Indoor Air Quality/Mold
Radon
Safety
Training

May 27, 2021

Mr. Kevin Arnold
Greater Dayton Premier Management
400 Wayne Avenue
Dayton, Ohio 45401-8750

E: Huffman-Parnell Property 11 Parnell Avenue Dayton Ohio 45403

Dear Mr. Arnold:

m.a.c. Paran Consulting Services, Inc. (m.a.c. Paran) was contracted to perform radon testing within the Huffman-Parnell property located at 11 Parnell Avenue, Dayton, Ohio 45403.

Ms. Barbara G. Cox, Ohio Department of Health Certified Radon Tester (License # RT626), performed the radon testing between the dates of May 4, 2021 and May 6, 2021.

Seventeen (14) samples (including duplicates and field blanks) were deployed. Sampling activities followed the testing and devices protocol outlined in the *Protocol for Conducting Radon and Radon Decay Product Measurements in Multifamily Buildings*, Designation: ANSI/AARST, MAMF 2017.

According to laboratory results, none of the radon concentrations exceeded the Environmental Protection Agency (EPA) Action Level of 4.0 picocuries per Liter (pCi/L). It should be noted that the inspector was denied entry into unit 1204A, and the testing device was missing at the time of retrieval from unit 1208A.

The EPA recommends that any frequently occupied areas that measure greater than 4 pCi/L be mitigated to a level below 4 pCi/L. If the measurement is below 4 pCi/L, then mitigation is not necessary. It is the client's obligation to inform the occupants of the results of the radon testing.

If you have any questions, please contact us at your convenience.

Respectfully submitted,
m.a.c. Paran Consulting Services, Inc.

Barbara G. Cox
Ohio Department of Health Certified Radon Tester, (License #RT626)

Radon Test Report

Client: Greater Dayton Premier Management
400 Wayne Avenue
Dayton, Ohio 45401-8750

Test Company: m.a.c. Paran Consulting, Inc.
3959 Fulton Grove Road
Cincinnati, Ohio 45245
(513) 751-9111

Test Location: Huffman-Parnell, 11 Parnell Avenue, Dayton, Ohio 45403

| Detector D # | Sample Date Time | | Location | Radon pCi L | Area |
|-----------------|----------------------|---------------------|-----------------------------------|----------------|------|
| | Begin | End | | | |
| 4592525 | 5/4/21 11:30 a.m. | 5/6/21 1:30 p.m. | 1202A, Living Room | 0.4 | 0.5 |
| 4592526 | 5/4/21 11:30 a.m. | 5/6/21 1:30 p.m. | 1202A, Living Room (Duplicate) | 0.6 | |
| 4592527 | 5/4/21 11:30 a.m. | 5/6/21 1:30 p.m. | 1202B, Living Room | 0.4 | |
| 4592528 | 5/4/21 11:30 a.m. | 5/6/21 1:30 p.m. | 1204B, Living Room | 0.8 | |
| 4592530 | 5/4/21 11:30 a.m. | 5/6/21 1:30 p.m. | 1208B, Living Room | 0.7 | |
| 4592531 | 5/4/21 11:30 a.m. | 5/6/21 1:30 p.m. | 1210B, Living Room | <0.4 | |
| 4592532 | 5/4/21 11:30 a.m. | 5/6/21 1:30 p.m. | 1210A, Living Room | <0.4 | |
| 4592533 | 5/4/21 11:30 a.m. | 5/6/21 1:30 p.m. | 9A, Living Room | 0.7 | |
| 4592534 | 5/4/21 11:30 a.m. | 5/6/21 1:30 p.m. | 9B, Living Room | <0.4 | |
| 4592535 | 5/4/21 11:30 a.m. | 5/6/21 1:30 p.m. | 11A, Living Room | <0.4 | <0.4 |
| 4592536 | 5/4/21 11:30 a.m. | 5/6/21 1:30 p.m. | 11A, Living Room (Duplicate) | <0.4 | |
| 4592537 | 5/4/21 11:30 a.m. | 5/6/21 1:30 p.m. | 11B, Living Room | <0.4 | |
| 4592538 | 5/4/21 11:30 a.m. | 5/6/21 1:30 p.m. | Field Blank | <0.4 | |
| 4592539 | 5/4/21 11:30 a.m. | 5/6/21 1:30 p.m. | Field Blank | <0.4 | |

Radon Device: AccuStar Liquid Scintillation Vial

Detector Placed by: Barbara G. Cox, RT626



ote 1: Quality assurance measurements were within acceptable parameters per the EPA device protocol.

ote 2: The building occupants agreed to maintain closed-house conditions during the testing.

ote : Radon levels tend to vary. We accept no liability for any or all loss due to the results of the radon testing.

UNDERSTANDING YOUR RADON TEST RESULTS

The EPA recommends that any frequently occupied areas that measure greater than 4 pCi/L be mitigated to a level below 4 pCi/L. If the measurement is below 4 pCi/L, then mitigation is not necessary. It is the client's obligation to inform the occupants of the results of the radon testing.

The owner is responsible for any additional or post mitigation testing. Re-testing should take place with each change of ownership, structural alterations to the dwelling that changes the ventilation pattern, major cracks occurring in the foundation or nearby blasting or earthquakes, or every two years.

There is uncertainty with any measurement result due to: statistical variations, daily and seasonal radon variations due to changes in weather, operation of the structure, as well as possible interference with the necessary test conditions that may or may not influence the results.

LABORATORY RESULTS

NELAC NY 11769
NRPP 103216 AL
NRSB ARL0017
Ohio Approval # RL37

EPA Method #402-R-92-004
Liquid Scintillation
NRPP Device Code 8088
NRSB Device Code 12193

Laboratory Report for:

Property Tested: Project # 21-7.9

Mac Paran Consulting Services
3959 Fulton Grove Road
Cincinnati OH 45245

Huffman-Parnell
11 Parnell Avenue
Dayton OH 45403

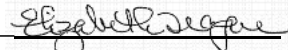
| Log Number | Device Number | Test Exposure Duration: | | | Area Tested | Result pCi/L |
|------------|---------------|-------------------------|----------|--------------------|----------------------------------------------|--------------|
| 2909614 | 4592525 | 05/04/2021 | 11:30 am | 05/06/2021 1:30 pm | Unit 1202A First Floor Living Room | 0.4 |
| 2909615 | 4592526 | 05/04/2021 | 11:30 am | 05/06/2021 1:30 pm | Unit 1202A First Floor Living Room Duplicate | 0.6 |
| 2909616 | 4592527 | 05/04/2021 | 11:30 am | 05/06/2021 1:30 pm | Unit 1202B Living Room | 0.4 |
| 2909617 | 4592528 | 05/04/2021 | 11:30 am | 05/06/2021 1:30 pm | Unit 1204B Living Room | 0.8 |
| 2909618 | 4592530 | 05/04/2021 | 11:30 am | 05/06/2021 1:30 pm | Unit 1208B Living Room | 0.7 |
| 2909619 | 4592531 | 05/04/2021 | 11:30 am | 05/06/2021 1:30 pm | Unit 1210B Living Room | < 0.4 |
| 2909620 | 4592532 | 05/04/2021 | 11:30 am | 05/06/2021 1:30 pm | Unit 1210A Living Room | < 0.4 |
| 2909621 | 4592533 | 05/04/2021 | 11:30 am | 05/06/2021 1:30 pm | Unit 9A Living Room | 0.7 |
| 2909622 | 4592534 | 05/04/2021 | 11:30 am | 05/06/2021 1:30 pm | Unit 9B Living Room | < 0.4 |
| 2909623 | 4592535 | 05/04/2021 | 11:30 am | 05/06/2021 1:30 pm | Unit 11 First Floor Living Room | < 0.4 |
| 2909624 | 4592536 | 05/04/2021 | 11:30 am | 05/06/2021 1:30 pm | Unit 11 First Floor Living Room Duplicate | < 0.4 |

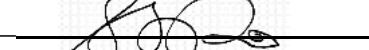
Comment: Mac Paran Consulting Services was emailed a copy of this report.

Test Performed By: Placed: Barbara G. Cox RT 621 Retrieved: Barbara G. Cox RT 621

Distributed by: Mac Paran Consulting Services

Date Received: 05/07/2021 Date Logged: 05/07/2021 Date Analyzed: 05/08/2021 Date Reported: 05/10/2021

Report Reviewed By: 

Report Approved By: 

Shawn Price, Director of Laboratory Operations, AccuStar Labs

Disclaimer:

The uncertainty of this radon measurement is +/- 10%. Factors contributing to uncertainty include statistical variations, daily and seasonal variations in radon concentrations, sample collection techniques and operation of the dwelling. Interference with test conditions may influence the test results.

This report may only be transferred to a third party in its entirety. Analytical results relate to the samples AS RECEIVED BY THE LABORATORY. Results shown on this report represent levels of radon gas measured between the dates shown in the room or area of the site identified above as "Property Tested". Incorrect information will affect results. The results may not be construed as either predictive or supportive of measurements conducted in any area of this structure at any other time. AccuStar Labs, its employees and agents are not responsible for the consequences of any action taken or not taken based upon the results reported or any verbal or written interpretation of the results.

NELAC NY 11769
NRPP 103216 AL
NRSB ARL0017
Ohio Approval # RL37

EPA Method #402-R-92-004
Liquid Scintillation
NRPP Device Code 8088
NRSB Device Code 12193

Laboratory Report for:

Property Tested: Project # 21-7.9

Mac Paran Consulting Services
3959 Fulton Grove Road
Cincinnati OH 45245

Huffman-Parnell
11 Parnell Avenue
Dayton OH 45403

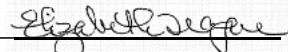
| Log Number | Device Number | Test Exposure Duration: | | | Area Tested | Result pCi/L |
|------------|---------------|-------------------------|----------|--------------------|---------------------------------------------|--------------|
| 2909625 | 4592537 | 05/04/2021 | 11:30 am | 05/06/2021 1:30 pm | Unit 11 First Floor Living Room | < 0.4 |
| 2909626 | 4592538 | 05/04/2021 | 11:30 am | 05/06/2021 1:30 pm | Unit 11 First Floor Living Room Field Blank | < 0.4 |
| 2909627 | 4592539 | 05/04/2021 | 11:30 am | 05/06/2021 1:30 pm | Unit 11 First Floor Living Room Field Blank | < 0.4 |

Comment: Mac Paran Consulting Services was emailed a copy of this report.

Test Performed By: Placed: Barbara G. Cox RT 621 Retrieved: Barbara G. Cox RT 621

Distributed by: Mac Paran Consulting Services

Date Received: 05/07/2021 Date Logged: 05/07/2021 Date Analyzed: 05/08/2021 Date Reported: 05/10/2021

Report Reviewed By: 

Report Approved By: 

Disclaimer:

Shawn Price, Director of Laboratory Operations, AccuStar Labs

The uncertainty of this radon measurement is +/- 10 %. Factors contributing to uncertainty include statistical variations, daily and seasonal variations in radon concentrations, sample collection techniques and operation of the dwelling. Interference with test conditions may influence the test results.

This report may only be transferred to a third party in its entirety. Analytical results relate to the samples AS RECEIVED BY THE LABORATORY. Results shown on this report represent levels of radon gas measured between the dates shown in the room or area of the site identified above as "Property Tested". Incorrect information will affect results. The results may not be construed as either predictive or supportive of measurements conducted in any area of this structure at any other time. AccuStar Labs, its employees and agents are not responsible for the consequences of any action taken or not taken based upon the results reported or any verbal or written interpretation of the results.

S T E P L A

ADO SPECTO L CE SE



STATE OF OHIO
DEPARTMENT OF HEALTH

Bureau of Environmental Health and Radiation Protection
Indoor Radon Program

Hereby Approves:

Barbara G Cox
617 Locust Corner Road

Cincinnati, OH 45245

as a

Radon Tester

This license is issued pursuant to Chapter 3723 of the Ohio Revised Code and 3701-69 of the Ohio Administrative Code and in reliance upon statements and representations made heretofore by the licensee.

License Number: **RT626**

Amendment Number: **8**

Expiration Date: **5/28/2022**

In witness thereof:

Amy Acton, MD, MPH
Director of Health

Fold

Your license card is valid for a period of two (2) years, as indicated by the expiration date on the card. Your card must be present on any project site where you are conducting radon-related work.

All questions regarding your license should be directed to (614) 752-4425

To verify licensure please visit: www.odh.ohio.gov

If found, please return to: Ohio Department of Health
246 North High Street
Columbus, OH 43215

HEA 5520 11/11

2459727



State of Ohio - Department of Health
Bureau of Environmental Health and Radiation Protection
Radon Tester

Barbara G Cox
617 Locust Corner Road

Cincinnati, OH 45245

License Number **RT626**
Amendment # **8**

Expiration Date
5/28/2022

This license is issued pursuant to Chapter 3723 of the Ohio Revised Code and 3701-69 of the Ohio Administrative Code

THIS SHEET LEFT INTENTIONALLY BLANK

Cincinnati

3959 Fulton Grove Rd.
Cincinnati, Ohio 45245
(513) 752-9111
(513) 752-7973 (Fax)

Cleveland

3100 E. 45th Street
Suite 446
Cleveland, Ohio 44127
(216) 916-7378
(513) 752-7973 (Fax)

Florida

11928 Granite Woods Loop
Venice, Florida 34292(513)
265-3299

Services

Phase I ESA's
Phase II Investigations
Asbestos
Lead-Based Paint
Industrial Hygiene
Indoor Air Quality/Mold
Radon
Safety
Training

Lead in Water Test

**Huffman-Parnell Property
11 Parnell Avenue
Dayton Ohio 45400**

Year of Construction: 1982

Prepared for:

**Greater Dayton Premier Management
400 Payne Avenue
Dayton Ohio 45410
10-00**

Prepared by:



m.a.c. Paran Consulting Services Inc.

A handwritten signature in black ink, appearing to read "Barbara G. Co".

**Barbara G. Co
Ohio Lead in Water Project: LA-006241**

A handwritten signature in black ink, appearing to read "Michelle Paraniuk".

Michelle Paraniuk M.S. President

June 26 2002

Table of Content

| | | |
|--------------|--------------------------------------------------|---|
| 1.0 | Executive Summary | 1 |
| 2.0 | Observations/Limitations to the Inspection | 1 |
| 3.0 | Property Description..... | 1 |
| 4.0 | Methodology..... | 1 |
| 5.0 | Sampling Procedures..... | 2 |
| 6.0 | Laboratory Analysis and Results..... | 2 |
| | | |
| Appendix I | Diagrams | |
| Appendix II | Laboratory Results | |
| Appendix III | Lead Risk Assessor Certification | |

1.0 Executive Summary

m.a.c. Paran Consulting Services, Inc. (m.a.c. Paran) was contracted by Greater Dayton Premier Management (GDPM) to conduct lead in water sampling for the multi-family residential community located at the corner of Huffman Avenue and Parnell Avenue, Dayton, Ohio 45403. Samples were collected from available kitchen and bathroom faucets located within the residential community, and from the basement of Unit 11B. Sampling was performed on June 14, 2023, in accordance with established United States Environmental Protection Agency (EPA) protocols. Samples were submitted to ALS Environmental, 4388 Glendale Milford Road, Cincinnati, Ohio 45242 for analysis.

Forty-two (42) water samples were collected from bathroom and kitchen faucets located within available units, and the basement of Unit 11B. Laboratory results confirmed that the following locations exceeded the action level for lead in drinking water, as established by the EPA, of 15 parts per billion (ppb) or 15 micrograms per liter ($\mu\text{g/L}$):

- Unit 9B kitchen sink; 1st draw
- Unit 9B bathroom sink; 1st draw
- Unit 9B bathroom sink; 2nd draw
- Unit 11A bathroom sink; 1st draw
- Unit 1204A bathroom sink; 1st draw
- Unit 1202A kitchen sink; 1st draw
- Unit 1202A kitchen sink; 2nd draw
- Unit 1202A bathroom sink; 1st draw
- Unit 1202A bathroom sink; 2nd draw
- Unit 1204B bathroom sink; 1st draw
- Unit 1208A bathroom sink; 1st draw
- Unit 11B basement sink; 1st draw
- Unit 11B basement sink; 2nd draw

2.0 Operation Limitation to Inspection

The following limitations and/or observations were encountered during the inspection:

- The kitchen and bathroom sinks located within Unit 11B were inoperable.
- Water service to Unit 9A was observed to have been discontinued.

3.0 Property Description

The property, located at the corner of Huffman Avenue and Parnell Avenue, consists of twelve residential units. The structure was reported to have been constructed in 1952, and was noted to be in poor condition.

4.0 Methodology

The EPA, in accordance with the Safe Drinking Water Act of 1974, determines safe levels of chemicals in drinking water. The action level for lead in drinking water is 15 parts per billion (ppb) or 15 micrograms per liter ($\mu\text{g/L}$). Samples were submitted to ALS Environmental, 4388 Glendale Milford Road, Cincinnati, Ohio 45242 for analysis using ASTM methods as prescribed in the Environmental Protection Agency (EPA) regulations.

6.0 Sampling Procedure

On June 14, 2023, forty-two (42) water samples were collected from the available bathroom and kitchen sink faucets located within available units. In lieu of collecting samples from the kitchen and bathroom of Unit 11B, which were inoperable, samples were collected from the basement.

Samples were collected in accordance with EPA established protocols for the sampling of lead in drinking water. A first draw sample was collected prior to allowing water to flush through the water fixture. Ideally, the water fixtures would not have been utilized for the 8 hours prior to sampling; however, m.a.c. Paran could not establish that the fixtures had not been used during that time period. The second “flush” draw was collected after allowing water to flush through the line for approximately 30 seconds prior to sample collection.

6.0 Laboratory Analysis and Results

The samples were submitted to ALS Environmental, 4388 Glendale Milford Road, Cincinnati, Ohio for lead analysis using EPA Method 6010B. Results were compared to the EPA established action level of 15 parts per billion (ppb) or 15 micrograms per liter ($\mu\text{g/L}$). Results of the sampling are located in the table below.

| Sample Number | Sample Location | Draw | Result | Lead Hazard Level |
|---------------|-----------------|----------|----------------------------|-------------------|
| B-1 | Kitchen | 1 | 0.00 m L 0 pp | e |
| 9B-2 | Kitchen | 2 | None Detected | No |
| B- | Bathroom | 1 | 0.00 m L pp | e |
| B-4 | Bathroom | 2 | 0.080 m L 80 pp | e |
| 11A-1 | Kitchen | 1 | None Detected | No |
| 11A-2 | Kitchen | 2 | None Detected | No |
| 11A- | Bathroom | 1 | 0.01 m L 1 pp | e |
| 11A-4 | Bathroom | 2 | None Detected | No |
| 1204A-1 | Kitchen | 1 | None Detected | No |
| 1204A-2 | Kitchen | 2 | None Detected | No |
| 1204A- | Bathroom | 1 | 0.048 m L 48 pp | e |
| 1204A-4 | Bathroom | 2 | None Detected | No |
| 1210B-1 | Kitchen | 1 | None Detected | No |
| 1210B-2 | Kitchen | 2 | None Detected | No |
| 1210B-3 | Bathroom | 1 | None Detected | No |

| Sample Number | Sample Location | Dra | Result | Lead Hazard Level |
|----------------|-----------------|----------|----------------------------|-------------------|
| 1210B-4 | Bathroom | 2 | None Detected | No |
| 1210A-1 | Kitchen | 1 | None Detected | No |
| 1210A-2 | Kitchen | 2 | None Detected | No |
| 1210A-3 | Bathroom | 1 | None Detected | No |
| 1210A-4 | Bathroom | 2 | None Detected | No |
| 1202A-1 | Kitchen | 1 | 0.06 m L 6 pp | e |
| 1202A-2 | Kitchen | 2 | 0.01 m L 1 pp | e |
| 1202A-3 | Bathroom | 1 | 0.08 m L 8 pp | e |
| 1202A-4 | Bathroom | 2 | 0.01 m L 1 pp | e |
| 1204B-1 | Kitchen | 1 | None Detected | No |
| 1204B-2 | Kitchen | 2 | None Detected | No |
| 1204B-3 | Bathroom | 1 | 0.022 m L 22 pp | e |
| 1204B-4 | Bathroom | 2 | None Detected | No |
| 1208A-1 | Kitchen | 1 | None Detected | No |
| 1208A-2 | Kitchen | 2 | None Detected | No |
| 1208A-3 | Bathroom | 1 | 0.08 m L 8 pp | e |
| 1208A-4 | Bathroom | 2 | None Detected | No |
| 1202B-1 | Kitchen | 1 | None Detected | No |
| 1202B-2 | Kitchen | 2 | None Detected | No |
| 1202B-3 | Bathroom | 1 | None Detected | No |
| 1202B-4 | Bathroom | 2 | None Detected | No |
| 1208B-1 | Kitchen | 1 | None Detected | No |
| 1208B-2 | Kitchen | 2 | None Detected | No |
| 1208B-3 | Bathroom | 1 | None Detected | No |
| 1208B-4 | Bathroom | 2 | None Detected | No |

| Sample number | Sample Location | Draw | Result | Lead Hazard level |
|---------------|-----------------|------|----------------------|-------------------|
| 11B-1 | Basement | 1 | 0.06 mg/L 6 ppb | exceeds |
| 11B-2 | Basement | 2 | 0.10 mg/L 100 ppb | exceeds |

Analytical results confirmed that the first draw samples for lead in drinking water exceeded the EPA action level of 15 ppb or 15 micrograms per liter ($\mu\text{g/L}$) in the following areas:

- Unit 9B kitchen sink; 1st draw
- Unit 9B bathroom sink; 1st draw
- Unit 11A bathroom sink; 1st draw
- Unit 1204A bathroom sink; 1st draw
- Unit 1202A kitchen sink; 1st draw
- Unit 1202A bathroom sink; 1st draw
- Unit 1204B bathroom sink; 1st draw
- Unit 1208A bathroom sink; 1st draw
- Unit 11B basement sink; 1st draw

Analytical results confirmed that the second draw sample for lead in drinking water exceeded the EPA action level of 15 ppb or 15 micrograms per liter ($\mu\text{g/L}$) in the following areas:

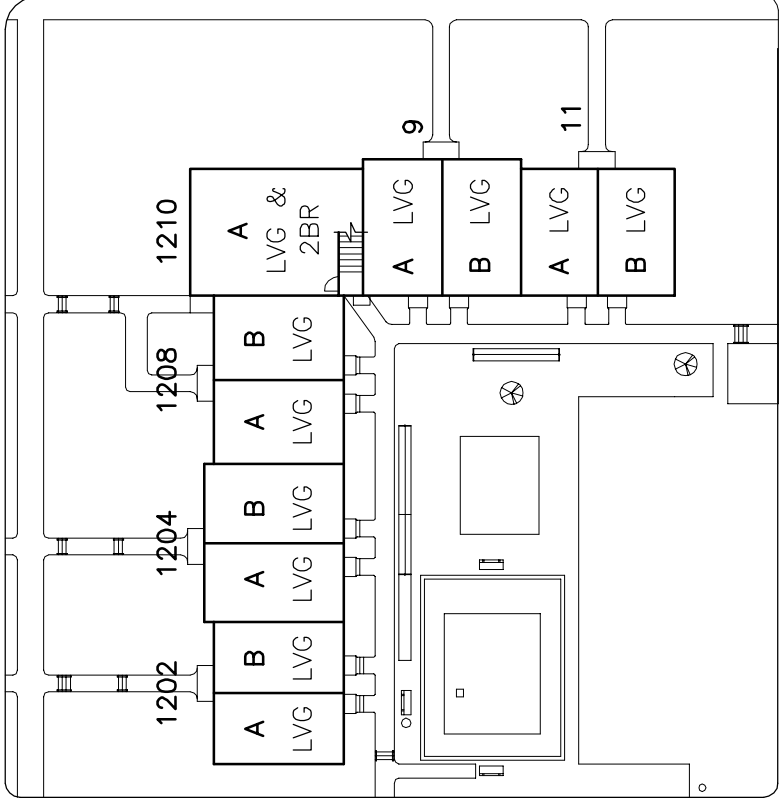
- Unit 9B bathroom sink; 2nd draw
- Unit 1202A kitchen sink; 2nd draw
- Unit 1202A bathroom sink; 2nd draw
- Unit 11B basement sink; 2nd draw

Appendi

Dia ram

HUFFMAN AVENUE

PARNELL AVENUE



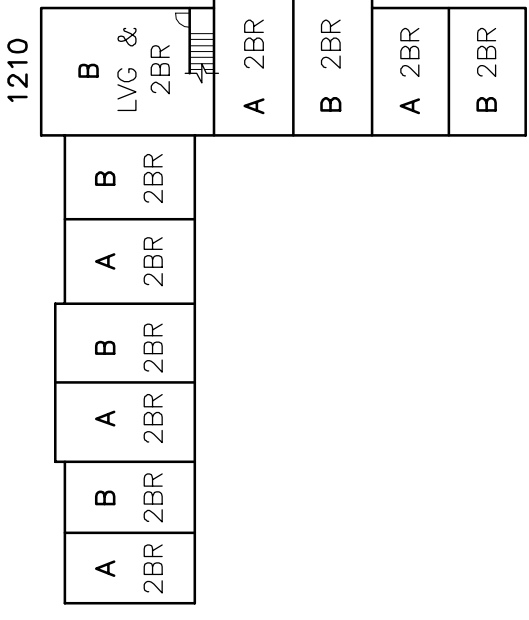
PRIVATE OWNER

PRIVATE OWNER

ALLEY

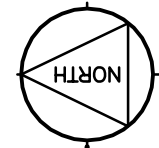
ALLEY

PRIVATE OWNER



SECOND FLOOR

NOTE:
2 STORIES
1-BUILDING
12-UNITS 10 (2 BEDROOM TOWNHOUSES), 2 (2 BEDROOM FLATS)



SITE PLAN

SCALE: 1" = 40'-0"

HUFFMAN/PARNELL

0.54 ACRES
23,400 SQ. FT.

Appendi

La oratory e ult



21-Jun-2023

Bobbie Cox
M.A.C. Paran Consulting
3959 Fulton Grove Road
Cincinnati, OH 45245

Re: **Huffman-Parnell**

Work Order: **23060667**

Dear Bobbie,

ALS Environmental received 42 samples on 14-Jun-2023 01:34 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 21.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Shawn Smythe

Electronically approved by: Shawn Smythe

Shawn Smythe
Project Manager

Report of Laboratory Analysis

ADDRESS 4388 Glendale Milford Rd Cincinnati, OH 45242- | PHONE (513) 733-5336 | FAX (513) 733-5347

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: M.A.C. Paran Consulting
 Project: Huffiman-Parnell
 Work Order: 23060667

Work Order Sample Summary

| <u>Lab Samp ID</u> | <u>Client Sample ID</u> | <u>Matrix</u> | <u>Tag Number</u> | <u>Collection Date</u> | <u>Date Received</u> | <u>Hold</u> |
|--------------------|-------------------------|---------------|-------------------|------------------------|----------------------|--------------------------|
| 23060667-01 | 9B-1 | Water | | 6/13/2023 11:00 | 6/14/2023 13:34 | <input type="checkbox"/> |
| 23060667-02 | 9B-2 | Water | | 6/13/2023 11:00 | 6/14/2023 13:34 | <input type="checkbox"/> |
| 23060667-03 | 9B-3 | Water | | 6/13/2023 11:00 | 6/14/2023 13:34 | <input type="checkbox"/> |
| 23060667-04 | 9B-4 | Water | | 6/13/2023 11:00 | 6/14/2023 13:34 | <input type="checkbox"/> |
| 23060667-05 | 11A-1 | Water | | 6/13/2023 11:00 | 6/14/2023 13:34 | <input type="checkbox"/> |
| 23060667-06 | 11A-2 | Water | | 6/13/2023 11:00 | 6/14/2023 13:34 | <input type="checkbox"/> |
| 23060667-07 | 11A-3 | Water | | 6/13/2023 11:00 | 6/14/2023 13:34 | <input type="checkbox"/> |
| 23060667-08 | 11A-4 | Water | | 6/13/2023 11:00 | 6/14/2023 13:34 | <input type="checkbox"/> |
| 23060667-09 | 1204A-1 | Water | | 6/13/2023 11:00 | 6/14/2023 13:34 | <input type="checkbox"/> |
| 23060667-10 | 1204A-2 | Water | | 6/13/2023 11:00 | 6/14/2023 13:34 | <input type="checkbox"/> |
| 23060667-11 | 1204A-3 | Water | | 6/13/2023 11:00 | 6/14/2023 13:34 | <input type="checkbox"/> |
| 23060667-12 | 1204A-4 | Water | | 6/13/2023 11:00 | 6/14/2023 13:34 | <input type="checkbox"/> |
| 23060667-13 | 1210B-1 | Water | | 6/13/2023 11:00 | 6/14/2023 13:34 | <input type="checkbox"/> |
| 23060667-14 | 1210B-2 | Water | | 6/13/2023 11:00 | 6/14/2023 13:34 | <input type="checkbox"/> |
| 23060667-15 | 1210B-3 | Water | | 6/13/2023 11:00 | 6/14/2023 13:34 | <input type="checkbox"/> |
| 23060667-16 | 1210B-4 | Water | | 6/13/2023 11:00 | 6/14/2023 13:34 | <input type="checkbox"/> |
| 23060667-17 | 1210A-1 | Water | | 6/13/2023 11:00 | 6/14/2023 13:34 | <input type="checkbox"/> |
| 23060667-18 | 1210A-2 | Water | | 6/13/2023 11:00 | 6/14/2023 13:34 | <input type="checkbox"/> |
| 23060667-19 | 1210A-3 | Water | | 6/13/2023 11:00 | 6/14/2023 13:34 | <input type="checkbox"/> |
| 23060667-20 | 1210A-4 | Water | | 6/13/2023 11:00 | 6/14/2023 13:34 | <input type="checkbox"/> |
| 23060667-21 | 1202A-1 | Water | | 6/13/2023 11:00 | 6/14/2023 13:34 | <input type="checkbox"/> |
| 23060667-22 | 1202A-2 | Water | | 6/13/2023 11:00 | 6/14/2023 13:34 | <input type="checkbox"/> |
| 23060667-23 | 1202A-3 | Water | | 6/13/2023 11:00 | 6/14/2023 13:34 | <input type="checkbox"/> |
| 23060667-24 | 1202A-4 | Water | | 6/13/2023 11:00 | 6/14/2023 13:34 | <input type="checkbox"/> |
| 23060667-25 | 1204B-1 | Water | | 6/13/2023 11:00 | 6/14/2023 13:34 | <input type="checkbox"/> |
| 23060667-26 | 1204B-2 | Water | | 6/13/2023 11:00 | 6/14/2023 13:34 | <input type="checkbox"/> |
| 23060667-27 | 1204B-3 | Water | | 6/13/2023 11:00 | 6/14/2023 13:34 | <input type="checkbox"/> |
| 23060667-28 | 1204B-4 | Water | | 6/13/2023 11:00 | 6/14/2023 13:34 | <input type="checkbox"/> |
| 23060667-29 | 1208A-1 | Water | | 6/13/2023 11:00 | 6/14/2023 13:34 | <input type="checkbox"/> |
| 23060667-30 | 1208A-2 | Water | | 6/13/2023 11:00 | 6/14/2023 13:34 | <input type="checkbox"/> |
| 23060667-31 | 1208A-3 | Water | | 6/13/2023 11:00 | 6/14/2023 13:34 | <input type="checkbox"/> |
| 23060667-32 | 1208A-4 | Water | | 6/13/2023 11:00 | 6/14/2023 13:34 | <input type="checkbox"/> |
| 23060667-33 | 1202B-1 | Water | | 6/13/2023 11:00 | 6/14/2023 13:34 | <input type="checkbox"/> |
| 23060667-34 | 1202B-2 | Water | | 6/13/2023 11:00 | 6/14/2023 13:34 | <input type="checkbox"/> |
| 23060667-35 | 1202B-3 | Water | | 6/13/2023 11:00 | 6/14/2023 13:34 | <input type="checkbox"/> |
| 23060667-36 | 1202B-4 | Water | | 6/13/2023 11:00 | 6/14/2023 13:34 | <input type="checkbox"/> |
| 23060667-37 | 1208B-1 | Water | | 6/13/2023 11:00 | 6/14/2023 13:34 | <input type="checkbox"/> |
| 23060667-38 | 1208B-2 | Water | | 6/13/2023 11:00 | 6/14/2023 13:34 | <input type="checkbox"/> |
| 23060667-39 | 1208B-3 | Water | | 6/13/2023 11:00 | 6/14/2023 13:34 | <input type="checkbox"/> |

Client: M.A.C. Paran Consulting
Project: Huffman-Parnell
Work Order: 23060667

Work Order Sample Summary

| <u>Lab Samp ID</u> | <u>Client Sample ID</u> | <u>Matrix</u> | <u>Tag Number</u> | <u>Collection Date</u> | <u>Date Received</u> | <u>Hold</u> |
|--------------------|-------------------------|---------------|-------------------|------------------------|----------------------|--------------------------|
| 23060667-40 | 1208B-4 | Water | | 6/13/2023 11:00 | 6/14/2023 13:34 | <input type="checkbox"/> |
| 23060667-41 | 11B-1 | Water | | 6/13/2023 11:00 | 6/14/2023 13:34 | <input type="checkbox"/> |
| 23060667-42 | 11B-2 | Water | | 6/13/2023 11:00 | 6/14/2023 13:34 | <input type="checkbox"/> |

Client: M.A.C. Paran Consulting
Project: Huffman-Parnell
Work Order: 23060667

Case Narrative

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Results relate only to the items tested and are not blank corrected unless indicated.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

ALS is an EPA recognized NLLAP laboratory for lead paint, soil, and dust wipe analyses under its AIHA-LAP accreditation.

ALS Environmental

Date: 21-Jun-23

Client: M.A.C. Paran Consulting
Project: Huffman-Parnell

Work Order: 23060667

Lab ID: 23060667-01A
Client Sample ID: 9B-1

Collection Date: 6/13/2023 11:00:00 AM
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------|--------|------|----------------|-------|-----------------------------|--------------------|
| METALS BY ICP | | | SW6010B | | Prep: SW3010A 6/15/23 16:28 | Analyst: CW |
| Lead | 0.35 | | 0.015 | mg/L | 1 | 6/19/2023 02:52 PM |

Lab ID: 23060667-02A
Client Sample ID: 9B-2

Collection Date: 6/13/2023 11:00:00 AM
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------|--------|------|----------------|-------|-----------------------------|--------------------|
| METALS BY ICP | | | SW6010B | | Prep: SW3010A 6/15/23 16:28 | Analyst: CW |
| Lead | ND | | 0.015 | mg/L | 1 | 6/19/2023 02:56 PM |

Lab ID: 23060667-03A
Client Sample ID: 9B-3

Collection Date: 6/13/2023 11:00:00 AM
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------|--------|------|----------------|-------|-----------------------------|--------------------|
| METALS BY ICP | | | SW6010B | | Prep: SW3010A 6/15/23 16:28 | Analyst: CW |
| Lead | 0.095 | | 0.015 | mg/L | 1 | 6/19/2023 03:00 PM |

Lab ID: 23060667-04A
Client Sample ID: 9B-4

Collection Date: 6/13/2023 11:00:00 AM
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------|--------|------|----------------|-------|-----------------------------|--------------------|
| METALS BY ICP | | | SW6010B | | Prep: SW3010A 6/15/23 16:28 | Analyst: CW |
| Lead | 0.080 | | 0.015 | mg/L | 1 | 6/19/2023 03:12 PM |

Lab ID: 23060667-05A
Client Sample ID: 11A-1

Collection Date: 6/13/2023 11:00:00 AM
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------|--------|------|----------------|-------|-----------------------------|--------------------|
| METALS BY ICP | | | SW6010B | | Prep: SW3010A 6/15/23 16:28 | Analyst: CW |
| Lead | ND | | 0.015 | mg/L | 1 | 6/19/2023 03:16 PM |

Note:

ALS Environmental

Date: 21-Jun-23

Client: M.A.C. Paran Consulting
Project: Huffiman-Parnell

Work Order: 23060667

Lab ID: 23060667-06A
Client Sample ID: 11A-2

Collection Date: 6/13/2023 11:00:00 AM
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------|--------|------|----------------|-------|-----------------------------|--------------------|
| METALS BY ICP | | | SW6010B | | Prep: SW3010A 6/15/23 16:28 | Analyst: CW |
| Lead | ND | | 0.015 | mg/L | 1 | 6/19/2023 03:20 PM |

Lab ID: 23060667-07A
Client Sample ID: 11A-3

Collection Date: 6/13/2023 11:00:00 AM
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------|--------|------|----------------|-------|-----------------------------|--------------------|
| METALS BY ICP | | | SW6010B | | Prep: SW3010A 6/15/23 16:28 | Analyst: CW |
| Lead | 0.019 | | 0.015 | mg/L | 1 | 6/19/2023 03:24 PM |

Lab ID: 23060667-08A
Client Sample ID: 11A-4

Collection Date: 6/13/2023 11:00:00 AM
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------|--------|------|----------------|-------|-----------------------------|--------------------|
| METALS BY ICP | | | SW6010B | | Prep: SW3010A 6/15/23 16:28 | Analyst: CW |
| Lead | ND | | 0.015 | mg/L | 1 | 6/19/2023 03:28 PM |

Lab ID: 23060667-09A
Client Sample ID: 1204A-1

Collection Date: 6/13/2023 11:00:00 AM
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------|--------|------|----------------|-------|-----------------------------|--------------------|
| METALS BY ICP | | | SW6010B | | Prep: SW3010A 6/15/23 16:28 | Analyst: CW |
| Lead | ND | | 0.015 | mg/L | 1 | 6/19/2023 03:32 PM |

Lab ID: 23060667-10A
Client Sample ID: 1204A-2

Collection Date: 6/13/2023 11:00:00 AM
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------|--------|------|----------------|-------|-----------------------------|--------------------|
| METALS BY ICP | | | SW6010B | | Prep: SW3010A 6/15/23 16:28 | Analyst: CW |
| Lead | ND | | 0.015 | mg/L | 1 | 6/19/2023 03:36 PM |

Note:

ALS Environmental

Date: 21-Jun-23

Client: M.A.C. Paran Consulting
Project: Huffman-Parnell

Work Order: 23060667

Lab ID: 23060667-11A
Client Sample ID: 1204A-3

Collection Date: 6/13/2023 11:00:00 AM
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------|--------|------|----------------|-------|-----------------------------|--------------------|
| METALS BY ICP | | | SW6010B | | Prep: SW3010A 6/15/23 16:28 | Analyst: CW |
| Lead | 0.048 | | 0.015 | mg/L | 1 | 6/19/2023 03:40 PM |

Lab ID: 23060667-12A
Client Sample ID: 1204A-4

Collection Date: 6/13/2023 11:00:00 AM
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------|--------|------|----------------|-------|-----------------------------|---------------------|
| METALS BY ICP | | | SW6010B | | Prep: SW3010A 6/15/23 16:29 | Analyst: SLT |
| Lead | ND | | 0.015 | mg/L | 1 | 6/16/2023 06:42 PM |

Lab ID: 23060667-13A
Client Sample ID: 1210B-1

Collection Date: 6/13/2023 11:00:00 AM
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------|--------|------|----------------|-------|-----------------------------|---------------------|
| METALS BY ICP | | | SW6010B | | Prep: SW3010A 6/15/23 16:29 | Analyst: SLT |
| Lead | ND | | 0.015 | mg/L | 1 | 6/16/2023 06:54 PM |

Lab ID: 23060667-14A
Client Sample ID: 1210B-2

Collection Date: 6/13/2023 11:00:00 AM
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------|--------|------|----------------|-------|-----------------------------|---------------------|
| METALS BY ICP | | | SW6010B | | Prep: SW3010A 6/15/23 16:29 | Analyst: SLT |
| Lead | ND | | 0.015 | mg/L | 1 | 6/16/2023 06:57 PM |

Lab ID: 23060667-15A
Client Sample ID: 1210B-3

Collection Date: 6/13/2023 11:00:00 AM
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------|--------|------|----------------|-------|-----------------------------|---------------------|
| METALS BY ICP | | | SW6010B | | Prep: SW3010A 6/15/23 16:29 | Analyst: SLT |
| Lead | ND | | 0.015 | mg/L | 1 | 6/16/2023 07:18 PM |

Note:

ALS Environmental

Date: 21-Jun-23

Client: M.A.C. Paran Consulting
Project: Huffman-Parnell

Work Order: 23060667

Lab ID: 23060667-16A
Client Sample ID: 1210B-4

Collection Date: 6/13/2023 11:00:00 AM
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------|--------|------|----------------|-------|-----------------------------|---------------------|
| METALS BY ICP | | | SW6010B | | Prep: SW3010A 6/15/23 16:29 | Analyst: SLT |
| Lead | ND | | 0.015 | mg/L | 1 | 6/16/2023 07:22 PM |

Lab ID: 23060667-17A
Client Sample ID: 1210A-1

Collection Date: 6/13/2023 11:00:00 AM
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------|--------|------|----------------|-------|-----------------------------|---------------------|
| METALS BY ICP | | | SW6010B | | Prep: SW3010A 6/15/23 16:29 | Analyst: SLT |
| Lead | ND | | 0.015 | mg/L | 1 | 6/16/2023 07:26 PM |

Lab ID: 23060667-18A
Client Sample ID: 1210A-2

Collection Date: 6/13/2023 11:00:00 AM
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------|--------|------|----------------|-------|-----------------------------|---------------------|
| METALS BY ICP | | | SW6010B | | Prep: SW3010A 6/15/23 16:29 | Analyst: SLT |
| Lead | ND | | 0.015 | mg/L | 1 | 6/16/2023 07:30 PM |

Lab ID: 23060667-19A
Client Sample ID: 1210A-3

Collection Date: 6/13/2023 11:00:00 AM
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------|--------|------|----------------|-------|-----------------------------|---------------------|
| METALS BY ICP | | | SW6010B | | Prep: SW3010A 6/15/23 16:29 | Analyst: SLT |
| Lead | ND | | 0.015 | mg/L | 1 | 6/16/2023 07:33 PM |

Lab ID: 23060667-20A
Client Sample ID: 1210A-4

Collection Date: 6/13/2023 11:00:00 AM
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------|--------|------|----------------|-------|-----------------------------|---------------------|
| METALS BY ICP | | | SW6010B | | Prep: SW3010A 6/15/23 16:29 | Analyst: SLT |
| Lead | ND | | 0.015 | mg/L | 1 | 6/16/2023 07:37 PM |

Note:

ALS Environmental

Date: 21-Jun-23

Client: M.A.C. Paran Consulting
Project: Huffiman-Parnell

Work Order: 23060667

Lab ID: 23060667-21A
Client Sample ID: 1202A-1

Collection Date: 6/13/2023 11:00:00 AM
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------|--------|------|----------------|-------|-----------------------------|---------------------|
| METALS BY ICP | | | SW6010B | | Prep: SW3010A 6/15/23 16:29 | Analyst: SLT |
| Lead | 0.067 | | 0.015 | mg/L | 1 | 6/16/2023 07:41 PM |

Lab ID: 23060667-22A
Client Sample ID: 1202A-2

Collection Date: 6/13/2023 11:00:00 AM
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------|--------|------|----------------|-------|-----------------------------|---------------------|
| METALS BY ICP | | | SW6010B | | Prep: SW3010A 6/15/23 16:29 | Analyst: SLT |
| Lead | 0.051 | | 0.015 | mg/L | 1 | 6/16/2023 07:45 PM |

Lab ID: 23060667-23A
Client Sample ID: 1202A-3

Collection Date: 6/13/2023 11:00:00 AM
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------|--------|------|----------------|-------|-----------------------------|---------------------|
| METALS BY ICP | | | SW6010B | | Prep: SW3010A 6/15/23 16:29 | Analyst: SLT |
| Lead | 0.078 | | 0.015 | mg/L | 1 | 6/16/2023 07:49 PM |

Lab ID: 23060667-24A
Client Sample ID: 1202A-4

Collection Date: 6/13/2023 11:00:00 AM
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------|--------|------|----------------|-------|-----------------------------|---------------------|
| METALS BY ICP | | | SW6010B | | Prep: SW3010A 6/15/23 16:29 | Analyst: SLT |
| Lead | 0.091 | | 0.015 | mg/L | 1 | 6/16/2023 07:53 PM |

Lab ID: 23060667-25A
Client Sample ID: 1204B-1

Collection Date: 6/13/2023 11:00:00 AM
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------|--------|------|----------------|-------|-----------------------------|---------------------|
| METALS BY ICP | | | SW6010B | | Prep: SW3010A 6/15/23 16:29 | Analyst: SLT |
| Lead | ND | | 0.015 | mg/L | 1 | 6/19/2023 10:33 AM |

Note:

ALS Environmental

Date: 21-Jun-23

Client: M.A.C. Paran Consulting
Project: Huffiman-Parnell

Work Order: 23060667

Lab ID: 23060667-26A
Client Sample ID: 1204B-2

Collection Date: 6/13/2023 11:00:00 AM
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------|--------|------|----------------|-------|-----------------------------|---------------------|
| METALS BY ICP | | | SW6010B | | Prep: SW3010A 6/15/23 16:29 | Analyst: SLT |
| Lead | ND | | 0.015 | mg/L | 1 | 6/19/2023 10:37 AM |

Lab ID: 23060667-27A
Client Sample ID: 1204B-3

Collection Date: 6/13/2023 11:00:00 AM
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------|--------|------|----------------|-------|-----------------------------|---------------------|
| METALS BY ICP | | | SW6010B | | Prep: SW3010A 6/15/23 16:29 | Analyst: SLT |
| Lead | 0.022 | | 0.015 | mg/L | 1 | 6/19/2023 10:42 AM |

Lab ID: 23060667-28A
Client Sample ID: 1204B-4

Collection Date: 6/13/2023 11:00:00 AM
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------|--------|------|----------------|-------|-----------------------------|---------------------|
| METALS BY ICP | | | SW6010B | | Prep: SW3010A 6/15/23 16:29 | Analyst: SLT |
| Lead | ND | | 0.015 | mg/L | 1 | 6/19/2023 10:46 AM |

Lab ID: 23060667-29A
Client Sample ID: 1208A-1

Collection Date: 6/13/2023 11:00:00 AM
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------|--------|------|----------------|-------|-----------------------------|---------------------|
| METALS BY ICP | | | SW6010B | | Prep: SW3010A 6/15/23 16:29 | Analyst: SLT |
| Lead | ND | | 0.015 | mg/L | 1 | 6/19/2023 10:51 AM |

Lab ID: 23060667-30A
Client Sample ID: 1208A-2

Collection Date: 6/13/2023 11:00:00 AM
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------|--------|------|----------------|-------|-----------------------------|---------------------|
| METALS BY ICP | | | SW6010B | | Prep: SW3010A 6/15/23 16:29 | Analyst: SLT |
| Lead | ND | | 0.015 | mg/L | 1 | 6/19/2023 10:55 AM |

Note:

ALS Environmental

Date: 21-Jun-23

Client: M.A.C. Paran Consulting
Project: Huffman-Parnell

Work Order: 23060667

Lab ID: 23060667-31A
Client Sample ID: 1208A-3

Collection Date: 6/13/2023 11:00:00 AM
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------|--------|------|----------------|-------|-----------------------------|---------------------|
| METALS BY ICP | | | SW6010B | | Prep: SW3010A 6/15/23 16:29 | Analyst: SLT |
| Lead | 0.058 | | 0.015 | mg/L | 1 | 6/19/2023 11:00 AM |

Lab ID: 23060667-32A
Client Sample ID: 1208A-4

Collection Date: 6/13/2023 11:00:00 AM
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------|--------|------|----------------|-------|-----------------------------|---------------------|
| METALS BY ICP | | | SW6010B | | Prep: SW3010A 6/15/23 16:30 | Analyst: SLT |
| Lead | ND | | 0.015 | mg/L | 1 | 6/16/2023 05:25 PM |

Lab ID: 23060667-33A
Client Sample ID: 1202B-1

Collection Date: 6/13/2023 11:00:00 AM
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------|--------|------|----------------|-------|-----------------------------|---------------------|
| METALS BY ICP | | | SW6010B | | Prep: SW3010A 6/15/23 16:30 | Analyst: SLT |
| Lead | ND | | 0.015 | mg/L | 1 | 6/16/2023 05:44 PM |

Lab ID: 23060667-34A
Client Sample ID: 1202B-2

Collection Date: 6/13/2023 11:00:00 AM
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------|--------|------|----------------|-------|-----------------------------|---------------------|
| METALS BY ICP | | | SW6010B | | Prep: SW3010A 6/15/23 16:30 | Analyst: SLT |
| Lead | ND | | 0.015 | mg/L | 1 | 6/16/2023 05:48 PM |

Lab ID: 23060667-35A
Client Sample ID: 1202B-3

Collection Date: 6/13/2023 11:00:00 AM
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------|--------|------|----------------|-------|-----------------------------|---------------------|
| METALS BY ICP | | | SW6010B | | Prep: SW3010A 6/15/23 16:30 | Analyst: SLT |
| Lead | ND | | 0.015 | mg/L | 1 | 6/16/2023 05:52 PM |

Note:

ALS Environmental

Date: 21-Jun-23

Client: M.A.C. Paran Consulting
Project: Huffman-Parnell

Work Order: 23060667

Lab ID: 23060667-36A
Client Sample ID: 1202B-4

Collection Date: 6/13/2023 11:00:00 AM
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------|--------|------|----------------|-------|-----------------------------|---------------------|
| METALS BY ICP | | | SW6010B | | Prep: SW3010A 6/15/23 16:30 | Analyst: SLT |
| Lead | ND | | 0.015 | mg/L | 1 | 6/16/2023 05:56 PM |

Lab ID: 23060667-37A
Client Sample ID: 1208B-1

Collection Date: 6/13/2023 11:00:00 AM
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------|--------|------|----------------|-------|-----------------------------|---------------------|
| METALS BY ICP | | | SW6010B | | Prep: SW3010A 6/15/23 16:30 | Analyst: SLT |
| Lead | ND | | 0.015 | mg/L | 1 | 6/16/2023 06:00 PM |

Lab ID: 23060667-38A
Client Sample ID: 1208B-2

Collection Date: 6/13/2023 11:00:00 AM
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------|--------|------|----------------|-------|-----------------------------|---------------------|
| METALS BY ICP | | | SW6010B | | Prep: SW3010A 6/15/23 16:30 | Analyst: SLT |
| Lead | ND | | 0.015 | mg/L | 1 | 6/16/2023 06:04 PM |

Lab ID: 23060667-39A
Client Sample ID: 1208B-3

Collection Date: 6/13/2023 11:00:00 AM
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------|--------|------|----------------|-------|-----------------------------|---------------------|
| METALS BY ICP | | | SW6010B | | Prep: SW3010A 6/15/23 16:30 | Analyst: SLT |
| Lead | ND | | 0.015 | mg/L | 1 | 6/16/2023 06:08 PM |

Lab ID: 23060667-40A
Client Sample ID: 1208B-4

Collection Date: 6/13/2023 11:00:00 AM
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------|--------|------|----------------|-------|-----------------------------|---------------------|
| METALS BY ICP | | | SW6010B | | Prep: SW3010A 6/15/23 16:30 | Analyst: SLT |
| Lead | ND | | 0.015 | mg/L | 1 | 6/16/2023 06:12 PM |

Note:

ALS Environmental

Date: 21-Jun-23

Client: M.A.C. Paran Consulting
Project: Huffman-Parnell

Work Order: 23060667

Lab ID: 23060667-41A
Client Sample ID: 11B-1

Collection Date: 6/13/2023 11:00:00 AM
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------|--------|------|----------------|-------|-----------------------------|---------------------|
| METALS BY ICP | | | SW6010B | | Prep: SW3010A 6/15/23 16:30 | Analyst: SLT |
| Lead | 0.036 | | 0.015 | mg/L | 1 | 6/16/2023 06:23 PM |

Lab ID: 23060667-42A
Client Sample ID: 11B-2

Collection Date: 6/13/2023 11:00:00 AM
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------------------|--------|------|----------------|-------|-----------------------------|---------------------|
| METALS BY ICP | | | SW6010B | | Prep: SW3010A 6/15/23 16:30 | Analyst: SLT |
| Lead | 0.10 | | 0.015 | mg/L | 1 | 6/16/2023 06:27 PM |

Note:

Client: M.A.C. Paran Consulting
Work Order: 23060667
Project: Huffman-Parnell

QC BATCH REPORT

Batch ID: **91862** Instrument ID **ICP1** Method: **SW6010B**

| | | | | | | | | | | |
|-------------|--------|------------------------------------|---------|---------------|------|-----------------------|---------------|------------------------------------------|-----------|--------------|
| MBLK | | Sample ID: MBLK-91862-91862 | | | | Units: mg/L | | Analysis Date: 6/19/2023 12:44 PM | | |
| Client ID: | | Run ID: ICP1_230619A | | | | SeqNo: 3079285 | | Prep Date: 6/15/2023 | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Lead | ND | 0.015 | | | | | | | | |

| | | | | | | | | | | |
|------------|--------|-----------------------------------|---------|---------------|------|-----------------------|---------------|------------------------------------------|-----------|--------------|
| LCS | | Sample ID: LCS-91862-91862 | | | | Units: mg/L | | Analysis Date: 6/19/2023 12:48 PM | | |
| Client ID: | | Run ID: ICP1_230619A | | | | SeqNo: 3079286 | | Prep Date: 6/15/2023 | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Lead | 1.055 | 0.015 | 1.1 | 0 | 95.9 | 73.7-110 | 0 | | | |

| | | | | | | | | | | |
|--------------|--------|-------------------------------------|---------|---------------|------|-----------------------|---------------|------------------------------------------|-----------|--------------|
| LCS D | | Sample ID: LCS D-91862-91862 | | | | Units: mg/L | | Analysis Date: 6/19/2023 12:52 PM | | |
| Client ID: | | Run ID: ICP1_230619A | | | | SeqNo: 3079287 | | Prep Date: 6/15/2023 | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Lead | 1.054 | 0.015 | 1.1 | 0 | 95.8 | 73.7-110 | 1.055 | 0.0417 | 20 | |

| | | | | | | | | | | |
|------------|--------|-----------------------------------|---------|---------------|------|-----------------------|---------------|------------------------------------------|-----------|--------------|
| MS | | Sample ID: 23060618-01A MS | | | | Units: mg/L | | Analysis Date: 6/19/2023 02:40 PM | | |
| Client ID: | | Run ID: ICP1_230619A | | | | SeqNo: 3079295 | | Prep Date: 6/15/2023 | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Lead | 0.9975 | 0.015 | 1.1 | 0 | 90.7 | 59.3-111 | 0 | | | |

| | | | | | | | | | | |
|-------------|--------|------------------------------------|---------|---------------|------|-----------------------|---------------|------------------------------------------|-----------|--------------|
| MS D | | Sample ID: 23060618-01A MSD | | | | Units: mg/L | | Analysis Date: 6/19/2023 02:44 PM | | |
| Client ID: | | Run ID: ICP1_230619A | | | | SeqNo: 3079296 | | Prep Date: 6/15/2023 | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Lead | 0.9894 | 0.015 | 1.1 | 0 | 90 | 59.3-111 | 0.9975 | 0.808 | 20 | |

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 23060667-01A | 23060667-02A | 23060667-03A |
| 23060667-04A | 23060667-05A | 23060667-06A |
| 23060667-07A | 23060667-08A | 23060667-09A |
| 23060667-10A | 23060667-11A | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: M.A.C. Paran Consulting
 Work Order: 23060667
 Project: Huffiman-Parnell

QC BATCH REPORT

Batch ID: **91863** Instrument ID **ICP1** Method: **SW6010B**

| MBLK | | Sample ID: MBLK-91863-91863 | | | | Units: mg/L | | Analysis Date: 6/16/2023 06:31 PM | | | |
|------------|--------|------------------------------------|---------|---------------|------|-----------------------|---------------|------------------------------------------|-----------|--------------|--|
| Client ID: | | Run ID: ICP1_230616B | | | | SeqNo: 3078219 | | Prep Date: 6/15/2023 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |

Lead ND 0.015

| LCS | | Sample ID: LCS-91863-91863 | | | | Units: mg/L | | Analysis Date: 6/16/2023 06:35 PM | | | |
|------------|--------|-----------------------------------|---------|---------------|------|-----------------------|---------------|------------------------------------------|-----------|--------------|--|
| Client ID: | | Run ID: ICP1_230616B | | | | SeqNo: 3078220 | | Prep Date: 6/15/2023 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |

Lead 1.004 0.015 1.1 0 91.3 73.7-110 0

| LCSD | | Sample ID: LCSD-91863-91863 | | | | Units: mg/L | | Analysis Date: 6/16/2023 06:39 PM | | | |
|------------|--------|------------------------------------|---------|---------------|------|-----------------------|---------------|------------------------------------------|-----------|--------------|--|
| Client ID: | | Run ID: ICP1_230616B | | | | SeqNo: 3078221 | | Prep Date: 6/15/2023 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |

Lead 1.008 0.015 1.1 0 91.6 73.7-110 1.004 0.35 20

| MS | | Sample ID: 23060667-12A MS | | | | Units: mg/L | | Analysis Date: 6/16/2023 06:46 PM | | | |
|---------------------------|--------|-----------------------------------|---------|---------------|------|-----------------------|---------------|------------------------------------------|-----------|--------------|--|
| Client ID: 1204A-4 | | Run ID: ICP1_230616B | | | | SeqNo: 3078223 | | Prep Date: 6/15/2023 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |

Lead 0.9569 0.015 1.1 0 87 59.3-111 0

| MS | | Sample ID: 23060667-12A MS | | | | Units: mg/L | | Analysis Date: 6/16/2023 06:50 PM | | | |
|---------------------------|--------|-----------------------------------|---------|---------------|------|-----------------------|---------------|------------------------------------------|-----------|--------------|--|
| Client ID: 1204A-4 | | Run ID: ICP1_230616B | | | | SeqNo: 3078224 | | Prep Date: 6/15/2023 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |

Lead 0.9583 0.015 1.1 0 87.1 59.3-111 0

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 23060667-12A | 23060667-13A | 23060667-14A |
| 23060667-15A | 23060667-16A | 23060667-17A |
| 23060667-18A | 23060667-19A | 23060667-20A |
| 23060667-21A | 23060667-22A | 23060667-23A |
| 23060667-24A | 23060667-25A | 23060667-26A |
| 23060667-27A | 23060667-28A | 23060667-29A |
| 23060667-30A | 23060667-31A | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: M.A.C. Paran Consulting
 Work Order: 23060667
 Project: Huffiman-Parnell

QC BATCH REPORT

Batch ID: **91864** Instrument ID **ICP1** Method: **SW6010B**

| MBLK | | Sample ID: MBLK-91864-91864 | | | | Units: mg/L | | Analysis Date: 6/16/2023 05:14 PM | | | |
|------------|--------|------------------------------------|---------|---------------|------|-----------------------|---------------|------------------------------------------|-----------|--------------|--|
| Client ID: | | Run ID: ICP1_230616B | | | | SeqNo: 3078203 | | Prep Date: 6/15/2023 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Lead | ND | 0.015 | | | | | | | | | |

| LCS | | Sample ID: LCS-91864-91864 | | | | Units: mg/L | | Analysis Date: 6/16/2023 05:18 PM | | | |
|------------|--------|-----------------------------------|---------|---------------|------|-----------------------|---------------|------------------------------------------|-----------|--------------|--|
| Client ID: | | Run ID: ICP1_230616B | | | | SeqNo: 3078204 | | Prep Date: 6/15/2023 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Lead | 1.026 | 0.015 | 1.1 | 0 | 93.3 | 73.7-110 | 0 | | | | |

| LCSD | | Sample ID: LCSD-91864-91864 | | | | Units: mg/L | | Analysis Date: 6/16/2023 05:22 PM | | | |
|------------|--------|------------------------------------|---------|---------------|------|-----------------------|---------------|------------------------------------------|-----------|--------------|--|
| Client ID: | | Run ID: ICP1_230616B | | | | SeqNo: 3078205 | | Prep Date: 6/15/2023 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Lead | 1.04 | 0.015 | 1.1 | 0 | 94.5 | 73.7-110 | 1.026 | 1.27 | 20 | | |

| MS | | Sample ID: 23060667-32A MS | | | | Units: mg/L | | Analysis Date: 6/16/2023 05:37 PM | | | |
|---------------------------|--------|-----------------------------------|---------|---------------|------|-----------------------|---------------|------------------------------------------|-----------|--------------|--|
| Client ID: 1208A-4 | | Run ID: ICP1_230616B | | | | SeqNo: 3078207 | | Prep Date: 6/15/2023 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Lead | 0.9921 | 0.015 | 1.1 | 0 | 90.2 | 59.3-111 | 0 | | | | |

| MS | | Sample ID: 23060667-32A MS | | | | Units: mg/L | | Analysis Date: 6/16/2023 05:41 PM | | | |
|---------------------------|--------|-----------------------------------|---------|---------------|------|-----------------------|---------------|------------------------------------------|-----------|--------------|--|
| Client ID: 1208A-4 | | Run ID: ICP1_230616B | | | | SeqNo: 3078208 | | Prep Date: 6/15/2023 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Lead | 0.9812 | 0.015 | 1.1 | 0 | 89.2 | 59.3-111 | 0 | | | | |

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 23060667-32A | 23060667-33A | 23060667-34A |
| 23060667-35A | 23060667-36A | 23060667-37A |
| 23060667-38A | 23060667-39A | 23060667-40A |
| 23060667-41A | 23060667-42A | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: M.A.C. Paran Consulting
Project: Huffman-Parnell
WorkOrder: 23060667

**QUALIFIERS,
ACRONYMS, UNITS**

| <u>Qualifier</u> | <u>Description</u> |
|------------------|---------------------------------------------------------------------------|
| * | Value exceeds Regulatory Limit |
| a | Not accredited |
| B | Analyte detected in the associated Method Blank above the Reporting Limit |
| E | Value above quantitation range |
| H | Analyzed outside of Holding Time |
| J | Analyte detected below quantitation limit |
| n | Not offered for accreditation |
| ND | Not Detected at the Reporting Limit |
| O | Sample amount is > 4 times amount spiked |
| P | Dual Column results percent difference > 40% |
| R | RPD above laboratory control limit |
| S | Spike Recovery outside laboratory control limits |
| U | Analyzed but not detected above the MDL |

| <u>Acronym</u> | <u>Description</u> |
|----------------|-------------------------------------|
| DUP | Method Duplicate |
| E | EPA Method |
| LCS | Laboratory Control Sample |
| LCSD | Laboratory Control Sample Duplicate |
| MBLK | Method Blank |
| MDL | Method Detection Limit |
| MQL | Method Quantitation Limit |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| PDS | Post Digestion Spike |
| PQL | Practical Quantitation Limit |
| SDL | Sample Detection Limit |
| SW | SW-846 Method |

| <u>Units Reported</u> | <u>Description</u> |
|-----------------------|--------------------|
| mg/L | |

Sample Receipt Checklist

Client Name: MACPARAN-CINCINNATI

Date/Time Received: 14-Jun-23 13:34

Work Order: 23060667

Received by: MB

Checklist completed by Alec Bolender 14-Jun-23
eSignature Date

Reviewed by: Shawn Smythe 14-Jun-23
eSignature Date

Matrices: water

Carrier name: Client

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Container/Temp Blank temperature in compliance? Yes No

Sample(s) received on ice? Yes No

Temperature(s)/Thermometer(s): 22.4 120258

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by:

Login Notes: metals don't need cooled

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

[Empty text box for comments]

CorrectiveAction:

[Empty text box for corrective action]



ANALYTICAL REQUEST FORM

REGULAR Status

23060667

RUSH Status Required - ADDITIONAL CHARGE

RESULTS REQUIRED BY _____ DATE _____

CONTACT ALS LABORATORY GROUP PRIOR TO SENDING SAMPLES

Date ^{6/14/23} Purchase Order No. Huff-Par

Company Name m.a.c. Paran Consulting Services, Inc.

Address 3959 Fulton Grove Road

Cincinnati OH 45245

City State Zip

Person to Contact Bobbie Cox

Email Address bobbie@macparan.com

Telephone () 513-752-9111 (O); 513-383-6263 (C)

Fax Telephone () _____

Billing Address (if different)

Same

Quote No. _____

Sampling Site Huffman-Parnell

Date/Time of Collection 6/13/2023 11 Am

| Laboratory Use Only | Client Sample Number | Media Type | Sample Volume (Liters) | ANALYSES REQUESTED - Use Method Number if Known |
|---------------------|----------------------|------------|------------------------|-------------------------------------------------|
| 1 | QB-1 | N/A | 250ml | head in Water |
| 2 | QB-2 | | | |
| 3 | QB-3 | | | |
| 4 | QB-4 | | | |
| 5 | 11A-1 | | | |
| 6 | 11A-2 | | | |
| 7 | 11A-3 | | | |
| 8 | 11A-4 | | | |
| 9 | 1204A-1 | | | |
| 10 | 1204A-2 | | | |
| 11 | 1204A-3 | | | |
| 12 | 1204A-4 | | | |
| 13 | 1210B-1 | | | |
| 14 | 1210B-2 | | | |
| 15 | 1210B-3 | | | |
| 16 | 1210B-4 | | | |

Failure to complete all portions of this form may delay analysis. Please fill in this form **LEGIBLY**.

CHAIN OF CUSTODY

| | | | |
|---------------------------------|-------------------------------|-----------------------------|-------------------------------|
| Relinquished by: (Signature) | Date / Time <u>6/14/23</u> | Received by: (Signature) | Date / Time <u>6-14-23</u> |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Date / Time <u>13:34</u> |

Client

22.4 170258



ANALYTICAL REQUEST FORM

REGULAR Status 23060667

RUSH Status Required - ADDITIONAL CHARGE

RESULTS REQUIRED BY _____ DATE _____

CONTACT ALS LABORATORY GROUP PRIOR TO SENDING SAMPLES

Date 6/14/23 Purchase Order No. Huff-Par
 Company Name m.a.c. Paran Consulting Services, Inc.
 Address 3959 Fulton Grove Road
Cincinnati OH 45245
City State Zip
 Person to Contact Bobbie Cox
 Email Address bobbie@macparan.com
 Telephone () 513-752-9111 (O); 513-383-6263 (C)
 Fax Telephone () _____

Billing Address (if different)
Same
 Quote No. _____
 Sampling Site Huffman-Parnell
 Date/Time of Collection 6/13/2023 11Am

| Laboratory Use Only | Client Sample Number | Media Type | Sample Volume (Liters) | ANALYSES REQUESTED - Use Method Number if Known |
|---------------------|----------------------|------------|------------------------|-------------------------------------------------|
| 17 | 1210A-1 | N/A | 250 ml | Lead in Water |
| 18 | 1210A-2 | | | |
| 19 | 1210A-3 | | | |
| 20 | 1210A-4 | | | |
| 21 | 1202A-1 | | | |
| 22 | 1202A-2 | | | |
| 23 | 1202A-3 | | | |
| 24 | 1202A-4 | | | |
| 25 | 1204B-1 | | | |
| 26 | 1204B-2 | | | |
| 27 | 1204B-3 | | | |
| 28 | 1204B-4 | | | |
| 29 | 1208A-1 | | | |
| 30 | 1208A-2 | | | |
| 31 | 1208A-3 | | | |
| 32 | 1208A-4 | | | |

Failure to complete all portions of this form may delay analysis. Please fill in this form **LEGIBLY**.

CHAIN OF CUSTODY

| | | | |
|---------------------------------|-------------------------------|-----------------------------|-----------------------------------------------|
| Relinquished by (Signature) | Date / Time <u>6/14/23</u> | Received by (Signature) | Date / Time <u>6-14-23</u> <u>13:34</u> |
| Relinquished by (Signature) | Date / Time | Received by (Signature) | Date / Time |

Client 224 20258



ANALYTICAL REQUEST FORM

REGULAR Status 23060607

RUSH Status Required - ADDITIONAL CHARGE

RESULTS REQUIRED BY _____ DATE _____

CONTACT ALS LABORATORY GROUP PRIOR TO SENDING SAMPLES

Date ^{6/14/23} Purchase Order No. Huff-Par
 Company Name m.a.c. Paran Consulting Services, Inc.
 Address 3959 Fulton Grove Road
Cincinnati OH 45245
City State Zip
 Person to Contact Bobbie Cox
 Email Address bobbie@macparan.com
 Telephone () 513-752-9111 (O); 513-383-6263 (C)
 Fax Telephone () _____

Billing Address (if different)
Same
 Quote No. _____
 Sampling Site Huffman-Parnell
 Date/Time of Collection 6/13/2023 11Am

| Laboratory Use Only | Client Sample Number | Media Type | Sample Volume (Liters) | ANALYSES REQUESTED - Use Method Number if Known |
|---------------------|----------------------|------------|------------------------|-------------------------------------------------|
| 33 | 1202B-1 | N/A | 250ml | Lead in Water |
| 34 | 1202B-2 | | | |
| 35 | 1202B-3 | | | |
| 36 | 1202B-4 | | | |
| 37 | 1208B-1 | | | |
| 38 | 1208B-2 | | | |
| 39 | 1208B-3 | | | |
| 40 | 1208B-4 | | | |
| 41 | 11B-1 | | | |
| 42 | 11B-2 | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.

CHAIN OF CUSTODY

| | | | |
|---------------------------------|-------------------------------|-----------------------------|-------------------------------|
| Relinquished by: (Signature) | Date / Time <u>6/14/23</u> | Received by: (Signature) | Date / Time <u>6-14-23</u> |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Date / Time <u>13:34</u> |

Client 22.4 120258



ANALYTICAL REQUEST FORM

REGULAR Status

23060667

RUSH Status Required - ADDITIONAL CHARGE

RESULTS REQUIRED BY _____ DATE _____

CONTACT ALS LABORATORY GROUP PRIOR TO SENDING SAMPLES

Date 6/14/23 Purchase Order No. Huff-Par

Company Name m.a.c. Paran Consulting Services, Inc.

Address 3959 Fulton Grove Road

Cincinnati OH 45245

Person to Contact Bobbie Cox

Email Address bobbie@macparan.com

Telephone () 513-752-9111 (O); 513-383-6263 (C)

Fax Telephone () _____

Billing Address (if different)

Same

Quote No. _____

Sampling Site Huffman-Parnell

Date/Time of Collection 6/13/2023 11 Am

| Laboratory Use Only | Client Sample Number | Media Type | Sample Volume (Liters) | ANALYSES REQUESTED - Use Method Number if Known |
|---------------------|----------------------|------------|------------------------|-------------------------------------------------|
| 1 | QB-1 | N/A | 250ml | head in Water |
| 2 | QB-2 | | | |
| 3 | QB-3 | | | |
| 4 | QB-4 | | | |
| 5 | 11A-1 | | | |
| 6 | 11A-2 | | | |
| 7 | 11A-3 | | | |
| 8 | 11A-4 | | | |
| 9 | 1204A-1 | | | |
| 10 | 1204A-2 | | | |
| 11 | 1204A-3 | | | |
| 12 | 1204A-4 | | | |
| 13 | 1210B-1 | | | |
| 14 | 1210B-2 | | | |
| 15 | 1210B-3 | | | |
| 16 | 1210B-4 | | | |

Failure to complete all portions of this form may delay analysis. Please fill in this form **LEGIBLY**.

CHAIN OF CUSTODY

| | | | |
|---------------------------------|-------------------------------|-----------------------------|-------------------------------|
| Relinquished by: (Signature) | Date / Time <u>6/14/23</u> | Received by: (Signature) | Date / Time <u>6-14-23</u> |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Date / Time <u>13:34</u> |

Client

22.4 170258



ANALYTICAL REQUEST FORM

REGULAR Status 23060067

RUSH Status Required - ADDITIONAL CHARGE

RESULTS REQUIRED BY _____ DATE _____

CONTACT ALS LABORATORY GROUP PRIOR TO SENDING SAMPLES

Date 6/14/23 Purchase Order No. Huff-Par
 Company Name m.a.c. Paran Consulting Services, Inc.
 Address 3959 Fulton Grove Road
Cincinnati OH 45245
City State Zip
 Person to Contact Bobbie Cox
 Email Address bobbie@macparan.com
 Telephone () 513-752-9111 (O); 513-383-6263 (C)
 Fax Telephone () _____

Billing Address (if different)
Same
 Quote No. _____
 Sampling Site Huffman-Parnell
 Date/Time of Collection 6/13/2023 11Am

| Laboratory Use Only | Client Sample Number | Media Type | Sample Volume (Liters) | ANALYSES REQUESTED - Use Method Number if Known |
|---------------------|----------------------|------------|------------------------|-------------------------------------------------|
| 17 | 1210A-1 | N/A | 250 ml | Lead in Water |
| 18 | 1210A-2 | | | |
| 19 | 1210A-3 | | | |
| 20 | 1210A-4 | | | |
| 21 | 1202A-1 | | | |
| 22 | 1202A-2 | | | |
| 23 | 1202A-3 | | | |
| 24 | 1202A-4 | | | |
| 25 | 1204B-1 | | | |
| 26 | 1204B-2 | | | |
| 27 | 1204B-3 | | | |
| 28 | 1204B-4 | | | |
| 29 | 1208A-1 | | | |
| 30 | 1208A-2 | | | |
| 31 | 1208A-3 | | | |
| 32 | 1208A-4 | | | |

Failure to complete all portions of this form may delay analysis. Please fill in this form **LEGIBLY**.

CHAIN OF CUSTODY

| | | | |
|---------------------------------|-------------------------------|-----------------------------|-----------------------------------------------|
| Relinquished by (Signature) | Date / Time <u>6/14/23</u> | Received by (Signature) | Date / Time <u>6-14-23</u> <u>13:34</u> |
| Relinquished by (Signature) | Date / Time | Received by (Signature) | Date / Time |

Client 224 20258



ANALYTICAL REQUEST FORM

REGULAR Status 23060607

RUSH Status Required - ADDITIONAL CHARGE

RESULTS REQUIRED BY _____ DATE _____

CONTACT ALS LABORATORY GROUP PRIOR TO SENDING SAMPLES

Date 6/14/23 Purchase Order No. Huff-Par
 Company Name m.a.c. Paran Consulting Services, Inc.
 Address 3959 Fulton Grove Road
Cincinnati OH 45245
City State Zip
 Person to Contact Bobbie Cox
 Email Address bobbie@macparan.com
 Telephone () 513-752-9111 (O); 513-383-6263 (C)
 Fax Telephone () _____

Billing Address (if different) Same
 Quote No. _____
 Sampling Site Huffman-Parnell
 Date/Time of Collection 6/13/2023 11Am

| Laboratory Use Only | Client Sample Number | Media Type | Sample Volume (Liters) | ANALYSES REQUESTED - Use Method Number if Known |
|---------------------|----------------------|------------|------------------------|-------------------------------------------------|
| 33 | 1202B-1 | N/A | 250ml | Lead in Water |
| 34 | 1202B-2 | | | |
| 35 | 1202B-3 | | | |
| 36 | 1202B-4 | | | |
| 37 | 1208B-1 | | | |
| 38 | 1208B-2 | | | |
| 39 | 1208B-3 | | | |
| 40 | 1208B-4 | | | |
| 41 | 11B-1 | | | |
| 42 | 11B-2 | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Failure to complete all portions of this form may delay analysis. Please fill in this form **LEGIBLY**.

CHAIN OF CUSTODY

| | | | |
|---------------------------------|-------------------------------|-----------------------------|-------------------------------|
| Relinquished by: (Signature) | Date / Time <u>6/14/23</u> | Received by: (Signature) | Date / Time <u>6-14-23</u> |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Date / Time <u>13/34</u> |

Client 22.4 120258

Appendix

Lead i A e or Certification



**Department
of Health**

**Mike DeWine, Governor
Jon Husted, Lt. Governor**

Bruce Vanderhoff, MD, MBA, Director

April 08, 2022

Barbara G Cox
MAC Paran Consulting Services
3959 Fulton Grove Rd
Cincinnati OH 45245

RE: Lead Risk Assessor
License Number: LA006241
Expiration Date: 04/27/2024

Dear Barbara G Cox:

This letter and enclosed license approves your request to be licensed as a Lead Risk Assessor. You must present your license upon request at any project site while performing duties. A copy of your license is not acceptable as proof of licensure.

Please be aware of the rules and regulations governing your discipline for Ohio. If you choose to renew this license, you must take an Ohio approved refresher course appropriate for the discipline within your current two year licensure period. Please visit our website at www.odh.ohio.gov for information.

This license may be revoked by the Director of Health for violation of any of the requirements of 3701-32 of the Ohio Administrative Code.

If you have any questions, please call the Ohio Department of Health, Lead Poisoning Prevention Program at (614) 466-1450.

Sincerely,

Shamus Estep
Program Administrator
Bureau of Environmental Health and Radiation Protection



THIS SHEET LEFT INTENTIONALLY BLANK

SECTION 03 01 00 - MAINTENANCE OF CONCRETE

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Concrete surface repair.
 - 2. Concrete crack repair.
 - 3. Concrete sealer.

1.2 SUBMITTALS

- A. Product Data: Submit product standards, physical and chemical characteristics, technical specifications, limitations, maintenance instructions, and general recommendations regarding each material.
 - 1. Concrete repair products.
- B. Samples: Submit color samples for patches exposed to view in finished construction and required to match existing.
- C. Manufacturer's Instructions: Submit mixing instructions.

1.3 MOCK-UP

- A. Construct mockup panel illustrating patching method, color and texture of repair surface.
- B. Prepare one mockup of each type of patching/repair procedure.
- C. Locate where directed by Architect.
- D. Incorporate accepted mockup as part of Work.

PART 2 PRODUCTS

2.1 BASIS OF DESIGN

- A. General basis of design for all systems is SIKA, other manufacturers accepted provided bidder/contractor submission of complete technical data of proposed products/systems for review by Architect.

2.2 CONCRETE SELF-LEVELING UNDERLAYMENT MIX

- A. Concrete Leveling Mix: one-component, fast drying, cementitious skim mortar ideal for repair or reprofiling of concrete slabs. Zero feather edge to ½" thickness application. Sika, Sika Level SkimCoat
 - 1. Flexural strength ASTM C-293: 1,300 psi at 28 days.
 - 2. Compressive strength ASTM C-109: 3,700 psi at 28 days
- B. Concrete Leveling Mix: one-component, polymer modified, self-leveling underlayment ideal for repair or reprofiling of concrete slabs. Zero feather edge to ½" thickness application. Sika, Sika Level-125
 - 1. Flexural strength ASTM C-293: 1,150 psi at 28 days.
 - 2. Compressive strength ASTM C-109: 4,000 psi at 28 days
- C. Concrete Leveling Mix: one-component, cementitious underlayment, self-leveling underlayment ideal for repair or reprofiling of concrete slabs. Zero feather edge to ½" thickness application. Sika, Sika Level-325
 - 1. Flexural strength ASTM C-293: 1,500 psi at 28 days.
 - 2. Compressive strength ASTM C-109: 5,300 psi at 28 days

2.3 CONCRETE REPAIR / CEMENTITIOUS MORTAR –PARTIAL DEPTH REPAIRS

- A. Concrete Repair/Patch Cementitious Mortar: one-component, rapid hardening [ASTM C-928], early strength gaining, cementitious mix for repairs on horizontal surfaces.
 - 1. Flexural strength ASTM C-293: 1,000 psi at 28 days.
 - 2. Bond strength ASTM C-882: 2,500 psi at 28 days,
 - 3. Compressive strength ASTM C-109: 7,000 psi at 28 days
- B. Sika, SikaQuick 1000 or Equal

2.4 CRACK REPAIR/EPOXY ADHESIVE

- A. Epoxy Adhesive for injection repair of cracks: two-component, 100% solids, moisture-tolerant, low-viscosity, high strength, epoxy resin adhesive. ASTM C-881, Type I, II, and IV, Grade-1, Class-C, AASHTO M-235.
 - 1. Tensile strength ASTM D-638, 8,900 psi at 7 days.
 - 2. Bond strength ASTM C-882 2,900 psi at 14 days,
 - 3. Compressive strength ASTM D-695 28 days 13,000 psi at 73 degrees F.
- B. Sika, Sikadur 35 Hi Mod LV or Equal

2.5 CRACK REPAIR/EPOXY PASTE ADHESIVE

- A. Epoxy Adhesive for sealing cracks and around injection ports prior to pressure injection grouting: two-component, 100% solids, solvent free, moisture-tolerant, high modulus, high strength, structural epoxy paste adhesive. ASTM C-881, Type I and IV, Grade-3, Class-B/C, AASHTO M-235.
 - 1. Tensile strength ASTM D-638, 420 psi at 2 days.
 - 2. Bond strength ASTM C-882 2,900 psi,
 - 3. Compressive strength ASTM D-695 28 days 14,000 psi. at 28 days
- B. Sika, Sikadur 31, Hi-Mod Gel or Equal

2.6 CONCRETE REPAIR / EPOXY GROUT BONDING ADHESIVE

- A. Epoxy bonding/grouting adhesive: multi-purpose, two-component, 100% solids, moisture tolerant, structural epoxy adhesive. ASTM C-881, Types I and II, Grade 2, Class C, AASHTO M-235 specifications
 - 1. Flexural strength ASTM C-293, 2,000 psi.
 - 2. Bond strength ASTM C-882 2,200 psi,
 - 3. Compressive strength ASTM C-109 28 days 7,000 psi.
- B. Sika, Sikadur 32, Hi-Mod LPL or Equal

2.7 REINFORCEMENT MATERIALS

- A. Reinforcing Steel: ASTM A996, 60 ksi yield grade axle-steel deformed bars, unfinished.

2.8 EPOXY BONDING ADHESIVE AND REINFORCING STEEL PRIMER/BONDING ADHESIVE

- A. Multi-purpose, 2-component, 100% solids, moisture tolerant structural epoxy adhesive. ASTM C-881, Type I, II, and V, Grade 2, Class C, AASHTO M-235.
 - 1. Tensile strength ASTM D-638: 6,900 psi
 - 2. Flexural strength ASTM D-790: 7,000 psi
 - 3. Bond strength ASTM C-882: 2,200 psi
 - 4. Compressive strength ASTM D-695: 12,200 psi
- B. Sika, Sikadur 32 Hi-Mod LPL or Equal.

2.9 CONCRETE SEALER

- A. Concrete Sealer for new and existing concrete slabs on grade. Solvent based liquid membrane forming curing compound to seal surfaces with abrasion and stain resistant coating, non-yellowing resin. 100% acrylic polymer blend, fast drying solvent blend.
 - 1. SIKA Scofield Cureseal 100

PART 3 EXECUTION

3.1 REMOVALS

- A. Remove all existing finish flooring – tile, VCT, epoxy paint from the existing concrete slabs. Remove/strip sealer from existing unfinished concrete slabs.
- B. Prep existing concrete / substrate for new floor systems as specified.

3.2 EXAMINATION

- A. Verify surfaces are ready to receive work.
- B. Beginning of installation means acceptance of existing surfaces.

3.3 PREPARATION

- A. Provide all temporary shoring and bracing as required for intended work.
- B. Provide all required formwork, tools, and equipment as required for intended work.
- C. Provide temporary barricades and other protective measures as required during the course of the work. Provide protection of all new work while curing and as applicable for the conditions. Maintain egress paths during the course of the work. Provide safe access for residents, including handicap accessible units that may utilize a wheelchair for mobility.
- D. Clean concrete surfaces of dirt, laitance, corrosion, or other contamination; wire brush using water; rinse surface and allow to dry.
- E. Flush out cracks and voids with chemical solvent or water to remove laitance and dirt. Chemically neutralize by rinsing with water.
- F. For areas patched with epoxy mortar, remove all broken and soft concrete. Remove corrosion from steel. Clean surfaces mechanically; wash with acid; rinse with water.
- G. Sandblast clean exposed reinforcement steel surfaces. Mechanically cut away damaged portions of rebar in accordance with repair / replacement notes herein.

3.4 REINFORCING STEEL REPAIR / REPLACEMENT

- A. Where reinforcing steel with active corrosion is encountered, sandblast steel to a white metal finish to remove all contaminants and rust. If remaining reinforcing is less than 85% of its original size, contact Architect for direction on additional reinforcement steel to be installed.
- B. Properly cleaned and prepared reinforcing steel may remain if 85% or greater of its original size.
- C. Apply epoxy bonding agent/primer to all existing reinforcing steel.
- D. Replacement reinforcing steel shall be drilled and epoxy grouted into the existing concrete as detailed on the drawings, using Sika AnchorFix 3001 Epoxy Anchoring Gel. Installation per manufacturer's recommendations.
 - 1. Sika AnchorFix 3001: High Performance 2 component adhesive anchor system for threaded bars and reinforcing in cracked and uncracked concrete.

3.5 APPLICATION – PRIMER

- A. Exposed reinforcing steel must be thoroughly prepared by mechanical cleaning to remove all traces of rust or corrosion.
 - 1. Clean corrosion with high pressure wash.
 - 2. Prime reinforcing steel as necessary for the conditions.
- B. Prime prepared substrate with brush or spray applied primer.
- C. Mixing: mechanically mix components per manufacturer requirements. Mix to a uniform consistency until blend is uniform and free of lumps.
- D. Application by stiff bristle brush as recommended by the manufacturer to a +/- 20 MIL application thickness.

3.6 APPLICATION –CEMENTITIOUS MORTAR PARTIAL DEPTH REPAIR

- A. Clean all surfaces of contaminants.
 - 1. Clean and prep all exposed reinforcing steel.
 - 2. Replace deteriorated reinforcing steel with new as indicated on the drawings.
- B. Prime substrate in accordance with manufacturer requirements.
- C. Mixing: mechanically mix per manufacturer requirements. Mix to a uniform consistency with a thorough mixing and proper proportioning of the two components.
 - 1. Add 3/8" coarse aggregate at desired quantity to uniform consistency as necessary.
- D. Screed level.
- E. Finish with float or light broom finish in accordance with approved mockup for desired finish texture.
- F. Cure concrete per ACI recommendations using wet burlap, water mist,
 - 1. Do not use curing compounds for curing of concrete.
- G. Avoid contact with aluminum materials to prevent adverse chemical reaction and possible failure of the repair. Insulate potential areas of contact by coating aluminum with epoxy.

3.7 APPLICATION – CEMENTITIOUS MORTAR FULL DEPTH REPAIR

- A. Install formwork as required for the conditions / repair area.
- B. Clean all surfaces of contaminants.
 - 1. Clean and prep all exposed reinforcing steel.
 - 2. Replace deteriorated reinforcing steel with new as indicated on the drawings.
- C. Prime substrate in accordance with manufacturer requirements.
- D. Mixing: mechanically mix per manufacturer requirements. Mix to a uniform consistency with a thorough mixing of the concrete mix and water. DO NOT overwater.
- E. Screed level.
- F. Finish with float or light broom finish in accordance with approved mockup for desired finish texture.
- G. Cure concrete per ACI recommendations using wet burlap, water mist,
 - 1. Do not use curing compounds for curing of concrete.
- H. Avoid contact with aluminum materials to prevent adverse chemical reaction and possible failure of the repair. Insulate potential areas of contact by coating aluminum with epoxy.
- I. Remove formwork once repair has set up in accordance with manufacturer recommendations. Repair any defects as necessary.

3.8 APPLICATION – FORM AND POUR APPLICATIONS

- A. Install formwork as required for the conditions / repair area.
- B. Clean all surfaces of contaminants.
 - 1. Clean and prep all exposed reinforcing steel.
 - 2. Replace deteriorated reinforcing steel with new as indicated on the drawings.
- C. Prime substrate in accordance with manufacturer requirements.
- D. Mixing: mechanically mix per manufacturer requirements. Mix to a uniform consistency with a thorough mixing of the concrete mix and water. DO NOT overwater.
- E. Pre-wet surface to SSD. Ensure good intimate contact with substrate is achieved. Scrub repair mortar into substrate as appropriate for conditions.
- F. Cure concrete per ACI recommendations using wet burlap, water mist,
 - 1. Do not use curing compounds for curing of concrete.
- G. Avoid contact with aluminum materials to prevent adverse chemical reaction and possible failure of the repair. Insulate potential areas of contact by coating aluminum with epoxy.
- H. Remove formwork once repair has set up in accordance with manufacturer recommendations. Repair any defects as necessary.

3.9 APPLICATION – CRACK REPAIR EPOXY ADHESIVE

- A. Clean all surfaces of contaminants using methods directed by the manufacturer to render a clean, contaminant free, open textured surface.
- B. Mixing: mechanically mix components per manufacturer requirements. Mix to a uniform consistency.
- C. Application:
 - 1. Gravity feed cracks: blow crack with compressed air. Pour epoxy adhesive into crack until completely filled. Seal underside of slab if crack telescopes through to underside.
 - 2. Pressure injection of cracks: use automated injection equipment method of installation. Set injection ports. Seal ports and crack with paste adhesive [Sikadur 31 Hi-Mod Gel]. Once epoxy adhesive seal has cured, inject epoxy adhesive [Sikadur 35 Hi-Mod LV] with steady pressure.

3.10 APPLICATION – EPOXY GROUT BONDING ADHESIVE

- A. Clean all surfaces of contaminants.
- B. Prime substrate in accordance with manufacturer requirements.
- C. Mixing: mechanically mix components per manufacturer requirements. Mix to a uniform consistency.
- D. Apply bonding adhesive by brush or roller.
- E. Place repair concrete mix while bonding adhesive is still tacky.

3.11 APPLICATION – EPOXY BONDING ADHESIVE

- A. Prepare surfaces in accordance with manufacturer requirements.
- B. Bonding adhesive applied to provide insulate between aluminum and concrete as applicable for the conditions.

3.12 APPLICATION – CONCRETE SEALER

- A. Prep and clean surface per manufacturer requirements – clean from all prior sealers, curing compounds, oils, and foreign matters that may prevent penetration or adhesion. Meet Concrete Surface Profile of 1.
- B. Distribute / Apply sealer per manufacturer requirements. Apply with garden sprayer and back roll with roller.

3.13 SCHEDULE / GENERAL REPAIR SCOPE

- A. Repair existing concrete foundation walls with crack injection or concrete repairs as appropriate to the condition.
- B. Clean entire concrete surface, etc. as applicable to the work scope to allow application of repair materials.
- C. Remove all existing surface coatings and patch repairs as applicable to the work scope.
- D. Remove all existing spalling and previous repair areas/patches.
- E. Apply cementitious repairs to all areas of affected surfaces at vertical fins, beams, and columns.
 - 1. Repair of existing cracks/fractures.
 - 2. Repair of delaminated edges/shoulders.
 - 3. Repair/replace deteriorated reinforcing steel that is exposed as required by the conditions.
- F. Clean / prep all existing concrete slabs after removal of existing floor finishes.
 - 1. Remove all existing surface coatings, adhesives, mortar, etc. and patch repairs.
- G. Remove all existing spalling and previous repair areas/patches.
- H. Apply cementitious repairs to all areas of affected surfaces and to level various areas of the concrete slab between spaces within the building.
 - 1. Intent of repairs is to provide a smooth, uniform, floor slab free of voids, divots, and other irregularities in the finish, ready for a new finish floor system. Repairs shall be from edge to edge, across the entire floor system without exception.
- I. Apply sealant [Sika, Sikaflex 1A or Equal] to joints and cracks.
- J. Apply sealer to new / existing concrete where noted and concrete is intended to be left exposed.

END OF SECTION

SECTION 03 30 00 - CAST-IN-PLACE CONCRETE

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Formwork.
 - 2. Reinforcement and Accessories.
 - 3. Cast-in place concrete.
 - 4. Finishing and curing.

1.2 SYSTEM DESCRIPTION

- A. Design, engineer and construct formwork, shoring, and bracing in accordance with ACI 301 to conform to the design and applicable code requirements to achieve concrete shape, line, and dimension as indicated on the drawings.
- B. Vapor Retarder Permeance: Maximum 1 perm when tested in accordance with ASTM E96/E96M, water method.

1.3 SUBMITTALS

- A. Design Data: Submit mix designs, admixtures, reinforcement, and anchors.

1.4 QUALITY ASSURANCE

- A. Construct and erect concrete formwork, reinforcing, and cast-in-place concrete in accordance with ACI 301.

PART 2 PRODUCTS

2.1 FORM MATERIALS AND ACCESSORIES

- A. Form Materials: At discretion of Contractor and per building conditions.
- B. Form Release Agent: Colorless mineral oil not capable of staining concrete or impairing natural bonding characteristics of coating intended for use on concrete.
- C. Slab Edge Joint Filler: ASTM D1751, Premolded asphaltic board, 1/2 inch thick; as applicable to the conditions.
- D. Vapor Retarder: ASTM E1745 Class A; 6 mil thick clear polyethylene film; type recommended for below grade application. Furnish joint tape recommended by manufacturer.

2.2 REINFORCEMENT MATERIALS

- A. Reinforcing Steel: ASTM A615/A615M, 60 ksi yield grade, deformed billet bars, uncoated finish.
- B. Welded Plain Wire Fabric: ASTM A185/A185M; in flat sheets; unfinished. [WWM 6x6-W2.9-W2.9]
- C. Chairs, Bolsters, Bar Supports, Spacers: Sized and shaped for support of reinforcing; plastic tipped or non-corroding for supports in slabs forming finished ceilings or where supports are exposed to weather.
- D. Fabricate concrete reinforcement in accordance with ACI 301.
- E. Non-shrink grout: Pre-mixed compound consisting of non-metallic aggregate, cement, water reducing and plasticizing agents.

2.3 CONCRETE MATERIALS

- A. Cement: ASTM C150, Normal-Type I Portland type.

- B. Fly Ash/Slag [coal combustion by-product]: ASTM C 618, Class C.
- C. Fine and Coarse Aggregates: ASTM C33.
- D. Water: Clean and not detrimental to concrete.
- E. Air Entrainment Admixture: ASTM C260.
- F. Fiber Mesh Reinforcing: ASTM 1116-C.
- G. Bonding Agent: Latex emulsion.
- H. Non-shrink Grout: Premixed compound consisting of non-metallic aggregate, cement, water reducing and plasticizing agents.

2.4 CONCRETE MIX

- A. Mix and deliver concrete in accordance with ASTM C94/C94M, Option A.
- B. INTERIOR CONCRETE SLAB: Furnish concrete of the following strength:
 - 1. Compressive strength 3,000 psi (28 day). Fibermesh reinforced
 - 2. Slump limit of 4 inches at point of placement.
 - 3. Minimum Cement Content: 600 pounds/cu yd.
 - 4. Maximum water-cement ratio: 0.45
 - 5. Air Entrainment: none
 - 6. Transit Mixed.
- C. EXTERIOR CONCRETE SLAB: Refer to Section 32 13 13.
- D. Add air entraining agent to concrete mix for concrete work exposed to exterior.

2.5 GRANULAR BASE

- A. Interior Slabs:
 - 1. Install ODOT Item 703 #6, 3/8" – 3/4" clean, uniformly graded crushed stone or gravel. Existing gravel base may remain if found to be in good condition.
- B. Exterior Slabs: Refer to Section 32 13 13.

2.6 COMPOUNDS, HARDENERS AND SEALERS

- A. Membrane Curing Compound and Sealer: ASTM C1315 Type I, Class A. Dayton Superior or Equal
 - 1. Install only at areas not receiving finish flooring system.

PART 3 EXECUTION

3.1 FORMWORK ERECTION

- A. Erect formwork, shoring and bracing to achieve design requirements.
- B. Apply form release agent to formwork prior to placing form accessories and reinforcement.
- C. Clean forms as erection proceeds, to remove foreign matter.

3.2 INSERTS, EMBEDDED COMPONENTS, AND OPENINGS

- A. Provide formed openings where required for work to be embedded in and passing through concrete members.
- B. Coordinate work of other sections in forming and setting openings, slots, recesses, chases, sleeves, bolts, anchors, and other inserts.
- C. Install concrete accessories straight, level, and plumb.

- D. Place joint filler at perimeter of floor slab, penetrations, and isolation joints.

3.3 REINFORCEMENT PLACEMENT

- A. Place reinforcement, supported and secured against displacement.
- B. Ensure reinforcing is clean, free of loose scale, dirt, or other foreign coatings.
- C. Do not weld reinforcement bars for assembly.
- D. Space reinforcement bars with a minimum clear space in accordance with ACI 301 of not less than 1 inch.
- E. Maintain concrete cover around reinforcement in accordance with ACI 301 of not less than 1 1/2" inches for concealed work and 3 inches for concrete exposed to weather.

3.4 PLACING CONCRETE

- A. Install 4 inch minimum thickness granular base over undisturbed soils and compact as applicable.
- B. Install vapor retarder under interior slabs on grade in accordance with ASTM E1643. **Lap joints and seal watertight using manufacturer supplied tape.**
- C. Repair damaged vapor retarder with vapor retarder material, lap over damaged areas minimum 6 inches and seal watertight.
- D. Place concrete continuously between predetermined expansion, control and construction joints. Do not break or interrupt successive pours creating cold joints.
- E. Separate slabs-on-grade from vertical services with 1/2 inch joint filer, extended from bottom of slab to within 1/4 inch of finished slab surface.
- F. Where new concrete is doweled to existing work, drill holes in existing concrete, insert steel dowels and pack with non-shrink grout.
- G. Form 3/4" chamfer at all exposed outside corners and edges.
- H. Screed slabs-on-grade level.

3.5 FORM REMOVAL

- A. Do not remove forms or bracing until concrete has gained sufficient strength to carry its own weight and imposed loads.
- B. Remove formwork progressively and in accordance with code requirements.

3.6 FLOOR FINISHING

- A. Finish concrete floor surfaces in accordance with ACI 301.
- B. Uniformly spread, screed, and float concrete.
 - 1. Smooth finish at interior slabs and garage slabs.
 - 2. Light broom finish at exterior slabs; troweled and retraced joints [no sawcut control joints].
- C. Maintain surface flatness, with maximum variation of 1/8 inch in 10 ft.
- D. Control joints:
 - 1. Locate at maximum of 10'-0" o.c. each way.
 - 2. Sawcut joints permitted only at concealed concrete areas.
 - 3. Trowel joints and retrace at all exposed concrete areas.

3.7 CURING AND PROTECTION

- A. Immediately after placement, protect concrete from premature drying, excessively hot or cold temperatures, and mechanical injury.

1. Protect concrete footings from freezing for a minimum of 7 days.

B. Maintain concrete with minimal moisture loss at relatively constant temperature for period necessary for hydration of cement and hardening of concrete for not less than 7 days.

3.8 ERECTION TOLERANCES

A. Install reinforcement within tolerances required by ACI 301.

3.9 FIELD QUALITY CONTROL

A. Perform field inspection and testing in accordance with ACI 301 at the request of Architect/DMHA.

B. Strength Test Samples:

1. Sample concrete and make one set of three cylinders for every 25 cu yds or less of each class of concrete placed.

C. Field Testing:

1. Measure slump and temperature for each compressive strength concrete sample.

2. Measure air content in air entrained concrete for each compressive strength concrete sample.

D. Cylinder Compressive Strength Testing:

1. Test Method: ASTM C39.

2. Test Acceptance: In accordance with ACI 301.

3. Test two cylinders at 28 days.

4. Dispose remaining cylinders when testing is not required.

3.10 DEFECTIVE CONCRETE

A. Modify or replace concrete not conforming to required lines, details and elevations, as directed by Architect/Engineer.

END OF SECTION

SECTION 04 01 00 - MAINTENANCE OF MASONRY

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes: Water and/or chemical cleaning of masonry surfaces, water repellent.

1.2 SUBMITTALS

- A. Product Data: Submit data on cleaning solutions, water repellent.
- B. Manufacturer's Installation Instructions: Products selected for use, manufacturer's installation instructions.

1.3 QUALITY ASSURANCE

- A. Perform Work according to ACI 530 and ACI 530.1 requirements.
- B. Installer: Company specializing in performing Work of this Section with three years' experience.
- C. Coordinate work with masonry repairs, re-pointing, limited brick replacement, etc.

1.4 ENVIRONMENTAL REQUIREMENTS

- A. Repoint mortar joints and repair masonry only when air temperature is between and 40°f and 90°f and is predicted to remain so for at least 7 days after completion of work.
 - 1. In accordance with ACI 530.1
- B. Hot-weather requirements: protect masonry repair and mortar-joint pointing when temperature and humidity conditions produce excessive evaporation of water from mortar and repair materials. Provide artificial shade and wind breaks and use cooled materials as required. Do not apply mortar to substrates with temperatures of 90°f and above.
 - 1. In accordance with ACI 530.1
- C. Patch masonry only when air and surface temperatures are between and 55°f and 100°f and are predicted to remain above 55°f for at least 7 days after completion of work. On days when air temperature is predicted to go above 90°f, schedule patching work to coincide with time that surface being patched will be in shade or during cooler morning hours.
- D. Provide shoring, bracing, or support to prevent movement, settlement, or collapse of structure, work under demolition, or adjacent work to remain.
- E. Prevent grout or mortar used in assembly and repair work from staining face of surrounding surfaces. Immediately remove grout and mortar in contact with exposed surfaces.
- F. Protect sills, ledges, and projections from mortar droppings.

1.5 SEQUENCING

- A. Perform repointing after cleaning masonry surfaces.

PART 2 PRODUCTS

2.1 MASONRY RESTORATION AND CLEANING

- A. Cleaning Agent: Low Acid Cleaning Solution; Prosoco Sure Klean Light Duty Restoration Cleaner or Equal.

2.2 WATER REPELLENT

- A. Free flowing, colorless liquid, non water based.
 - 1. ProSoCo, 'Sure Klean', Weather Seal Siloxane PD'
 - 2. Diedrich Chemicals, 303S-7 Siloxseal'

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify surfaces to be cleaned are ready for Work of this Section.

3.2 PREPARATION

- A. Close off and/or seal areas, landscaping, materials, and surfaces not receiving work of this Section to protect from damage.

3.3 FINAL CLEANING

- A. After mortar has fully hardened, thoroughly clean exposed masonry surfaces of excess mortar and foreign matter; use wood scrapers, stiff-nylon or -fiber brushes, and clean water, spray applied at low pressure. Do not use metal scrapers or brushes. Do not use acidic or alkaline cleaners.
- B. Clean masonry debris from roof; remove debris from gutters and downspouts. Rinse off roof and flush gutters and downspouts.
- C. Sweep and rake adjacent pavement and grounds to remove masonry debris. Where necessary, pressure wash surfaces to remove mortar, dust, dirt, and stains.

3.4 GENERAL CLEANING

- A. As work proceeds and on completion, remove excess mortar, smears, droppings.
- B. Clean dirt and light staining from all brick surfaces.
- C. If the specified chemicals and cleaning processes do not remove graffiti, paint, or other stains, contact Architect for direction.
- D. Perform cleaning working from top to bottom working in sections around the building at one elevation at a time.
- E. Use spray equipment that provides controlled application at volume and pressure indicated. Adjust pressure and volume to ensure cleaning methods do not damage masonry.

3.5 SURFACE CLEANING APPLICATION

General: Cleaners shall be installed in accordance with the recommendation of the manufacturer.

- A. All masonry surfaced shall be cleaned utilizing a pressure water spray (1,000 p.s.i. max.).
 - 1. Intent of cleaning program is to remove all surface staining, dirt and fungal growth.

3.6 WATER REPELLANT APPLICATION

General: Water repellant shall be installed in accordance with the recommendation of the manufacturer.

- A. All masonry surfaced shall have the water repellant installed utilizing a low-pressure water spray (50 psi max.), brush or roller at the rate recommended by the manufacture. Flow coat to saturation point, allow for penetration 5 -10 minutes.

3.7 SCHEDULES

- A. Refer to drawings for extent of work.
- B. Clean existing masonry at all buildings

END OF SECTION

SECTION 04 05 03 - MASONRY MORTARING AND GROUTING

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes mortar and grout for masonry, parging for CMU foundations.

1.2 SUBMITTALS

- A. Samples: Submit two samples of mortar illustrating mortar color and color range.
- B. Project data: Submit product data on mortar mix.

1.3 QUALITY ASSURANCE

- A. Perform Work in accordance with ACI 530 Building Code Requirements for Masonry Structures and ACI 530.1 Specification for Masonry Structures.
- B. Sustainable Design Requirements:
 - 1. Recycled Content Materials: Furnish materials with recycled content.
 - 2. Regional Materials: Furnish materials extracted, processed, and manufactured within 500 miles of Project site.

1.4 ENVIRONMENTAL REQUIREMENTS

- A. Repoint mortar joints and repair masonry only when air temperature is between and 40°f and 90°f and is predicted to remain so for at least 7 days after completion of work.
 - 1. In accordance with ACI 530.1
- B. Hot-weather requirements: protect masonry repair and mortar-joint pointing when temperature and humidity conditions produce excessive evaporation of water from mortar and repair materials. Provide artificial shade and wind breaks and use cooled materials as required. Do not apply mortar to substrates with temperatures of 90°f and above.
 - 1. In accordance with ACI 530.1
- C. Patch masonry only when air and surface temperatures are between and 55°f and 100°f and are predicted to remain above 55°f for at least 7 days after completion of work. On days when air temperature is predicted to go above 90°f, schedule patching work to coincide with time that surface being patched will be in shade or during cooler morning hours.
- D. Provide shoring, bracing, or support to prevent movement, settlement, or collapse of structure, work under demolition, or adjacent work to remain.
- E. Prevent grout or mortar used in assembly and repair work from staining face of surrounding surfaces. Immediately remove grout and mortar in contact with exposed surfaces.
- F. Protect sills, ledges, and projections from mortar droppings.

1.5 SEQUENCING AND SCHEDULING

- A. Order re-pointing mortar immediately after approval of samples. Take delivery of and store at project site a sufficient quantity of mortar to complete project.
- B. Perform re-pointing after repair of existing masonry, including replacing existing masonry with new masonry materials and cleaning.
- C. As scaffolding is removed, patch any anchor holes used to attach scaffolding. Patch holes in mortar joints in accordance with section covering re-pointing masonry.

PART 2 PRODUCTS

2.1 FACTORY-MIXED MORTAR

- A. Match original mortar remnants on brick as determined from field sampling and laboratory analysis at the mortar manufacturers plant. Match for color, texture and compressive strength.

2.2 COMPONENTS

- A. Portland Cement: ASTM C150, Type I, gray color.
- B. Premix Mortar for below grade applications: ASTM C387/C387M, Type S using gray color cement.
- C. Premix Mortar for above grade applications: ASTM C387/C387M, Type N using colored cement.
- D. Mortar Aggregate: ASTM C144, standard masonry type.
- E. Hydrated Lime: ASTM C206, Type N.
- F. Mortar Color: color as selected by Architect from full range of available colors for above grade applications.
- G. Grout Aggregate: ASTM C404, fine.
- H. Water: Clean and potable.
- I. Bonding Agent: Latex type.
- J. Calcium chloride is not permitted.

2.3 MIXES

- A. Mortar Mixes:
 - 1. Mortar for Structural Masonry: ASTM C270, Type S using Proportion specification.
 - 2. Mortar for Non-Structural Masonry: ASTM C270, Type N using Proportion specification.
 - 3. Mortar For Glass Unit Masonry: ASTM C270, Type O using Property specification.
- B. Mortar Mixing:
 - 1. Thoroughly mix mortar ingredients in accordance with ASTM C270 in quantities needed for immediate use.
 - 2. Add mortar color.
- C. Grout Mixing:
 - 1. Mix grout in accordance with ASTM C94/C94M.
 - 2. Do not use anti-freeze compounds to lower freezing point of grout.
- D. Mixing Procedures:
 - 1. Measure materials by volume or equivalent weight. Do not measure by shovel; use known measure.
 - 2. To hydrate mortar, thoroughly mix ingredients dry. Mix again, adding only enough water to produce a damp mix which will retain its form when pressed in a ball. After keeping mortar in this dampened condition for 1-2 hours, add sufficient water to form proper consistency.
 - 3. Mix mortar using a clean mechanical batcher for 3-5 minutes or by hand until completely mixed.
 - 4. Place mortar within two hours of final mixing.
 - 5. Do not re-temper or use partially hardened materials

2.4 PARGING / COATING FOR CMU FOUNDATIONS

- A. Cement based waterproof coating for concrete and masonry breathable, waterproof, and resistant to positive and negative hydrostatic pressure.

1. Thoroseal by Degussa or equal. Additive with Acryl 60.

2.5 ACCESSORIES

- A. Adjustable Anchors / Wire Ties to Connect to Existing Structure: Anchors / Wire Ties that allow for vertical and / or horizontal adjustment but resist tension and compression forces on the wall.
 1. Adjustable ties with pintle and eye connections with an adjustment of +/- 1 inch.
- B. Flexible Flashing:
 1. Self-adhering, flexible membrane flashing; cross laminated polyethylene film; self-healing; Nominal 40 mils thick.
 - a. WR Meadows; Air-Shield Thru-Wall Flashing
 - b. Grace Products, Perm-A-Barrier Wall Flashing
 - c. York, York Seal Peel & Stick Flashing
- C. Compressible Expansion Joint Filler: Premolded filler strips complying with ASTM D 1056, Grade 2A1; compressible up to 35 percent; formulated from closed cell neoprene or urethane. Sized as applicable to conditions.
- D. Weeps: Cellular Plastic Weep: One piece, flexible extrusion made from UV-resistant polypropylene copolymer, full height and width of head joint and depth 1/8 inch less than other wythe of masonry.

PART 3 EXECUTION

3.1 PREPARATION

- A. Protect persons, motor vehicles, surrounding surfaces of building being restored, building site, plants, and surrounding buildings from harm resulting from masonry restoration work. Erect temporary protective covers over walkways and at points of pedestrian and vehicular entrance and exit that must remain in service during course of restoration and cleaning work.
- B. Prevent mortar from staining face of surrounding masonry and other surfaces. Cover sills, ledges, and projections to protect from mortar droppings. Keep wall area wet below rebuilding and pointing work to discourage mortar from adhering. Immediately remove mortar in contact with exposed masonry and other surfaces. Clean mortar splatters from scaffolding at end of each day.

3.2 INSTALLATION

- A. Install mortar in accordance with ACI 530.1 Specification for Masonry Structures.

3.3 FIELD QUALITY CONTROL

- A. Testing of Mortar Mix: In accordance with ASTM C780.
- B. Testing of Grout Mix: In accordance with ASTM C1019.

3.4 GENERAL CLEANING

- A. As work proceeds and on completion, remove excess mortar, smears, droppings.
- B. Clean dirt and light staining from all brick surfaces.
- C. If the specified chemicals and cleaning processes do not remove graffiti, paint, or other stains, contact Architect for direction.
- D. Perform cleaning working from top to bottom working in sections around the building at one elevation at a time.
- E. Use spray equipment that provides controlled application at volume and pressure indicated. Adjust pressure and volume to ensure cleaning methods do not damage masonry.

3.5 REPOINTING MASONRY

- A. Joint raking: rake out all joints to be pointed by hand, using a mason's chisel that is not more than 1/4" thick or by approved hand grinding methods. If grinding is used, wet methods are required to minimize dirt and dust. Rake or grind out mortar from joints to depths equal to 2-1/2 times their widths but not less than 1-inch nor less than required to expose sound, un-weathered mortar.
 - 1. Remove mortar to provide reveals with square backs and to expose masonry for contact with pointing mortar. Brush, vacuum or flush joints to remove dirt and loose debris. No abrasive methods of cleaning shall be used.
 - 2. Do not spall edges of masonry units or widen joints. Replace masonry units which become damaged.
 - a. Do not use power-operated grinders without Architect's written approval based on submission by Contractor of a satisfactory quality-control program and demonstrated ability of operators to use tools without damaging masonry. Quality control program shall include provisions for supervising performance and preventing damage due to worker fatigue.
 - 3. Replace any units which become damaged.
 - 4. If the existing bricks have worn rounded edges, recess final mortar slightly from face to a point where joint face will not be wider than the original joint.
- B. Joint Pointing:
 - 1. Rinse masonry joint surfaces with water to remove any dust and mortar particles. Time application of rinsing so that, at time of pointing, excess water has evaporated or run off, and joint surfaces are damp but free of standing water.
 - 2. Apply first layer of pointing mortar to areas where existing mortar was removed to depths greater than surrounding areas. Apply in layers not greater than 3/8-inch until uniform depth is formed. Compact each layer thoroughly and allow to become thumbprint-hard before applying next layer.
 - 3. After joints are filled to uniform depth, place remaining pointing mortar in 3 layers with each of first and second layers filling approximately 2/5 of joint depth and third layer the remaining 1/5. Fully compact each layer and allow to become thumbprint-hard before applying next layer. Take care not to spread mortar over edges onto masonry surfaces, or to featheredge mortar.
 - 4. When mortar is thumbprint-hard, tool joints to match original appearance of joints as determined by the architect. Remove excess mortar from edge of joint by brushing.
 - 5. Cure mortar by maintaining in damp condition for not less than 72 hours.

3.6 PARGING

- A. Parge concrete/CMU foundation walls as follows:
 - 1. Provide all required tuckpointing of mortar joints prior to parging.
 - 2. Dampen masonry walls prior to parging.
 - 3. Surface Preparation
 - a. Surface preparation is extremely important for proper adhesion. Substrates must be sound, and free of dust, dirt, laitance, paints, oils, grease, curing compounds, or any other contaminants. Verify substrate has properly cured. Concrete should obtain 80% of design strength, typically achieved within 3 to 14 days. If efflorescence is present, mechanically remove it before proceeding.
 - b. All holes and cracks must be patched before installation.
 - c. Extremely smooth surfaces such as precast and cast-in-place concrete will require roughening or brush blast to ensure good adhesion.
 - 4. Mixing
 - a. Thoroseal is to be mixed with a mixing liquid consisting of a blend of Acryl 60 diluted with water. Dilute and mix per manufacturer requirements.
 - b. Refer to manufacturer requirements for blending, consistency, and for pot life.
 - 5. Application

- a. ThoroSeal may be applied with a brush or broom or equivalent stiff fiber brush. Spray application not permitted. The substrate must be completely dampened with water before application starts. Do not saturate the substrate, but keep it cool and damp throughout the application.
- b. It is essential that the first coat be thoroughly worked into the substrate to completely fill and cover all voids, holes, and nonmoving cracks. Finish with a horizontal stroke for an even coat.
- c. Allow to cure 24 hours, then apply the second coat and finish with a vertical stroke. Above grade, the second coat can be replaced with a Thoro high-build architectural coating to achieve better color uniformity.
- d. On block or masonry walls, allow 5-7 days before applying second coat to eliminate joint read through.

3.7 FINAL CLEANING

- A. Where re-pointing work precedes cleaning of masonry, allow mortar to harden at least 30 days prior to final cleaning.
- B. After mortar has fully hardened, thoroughly clean exposed masonry surfaces using stiff nylon or fiber brush and clean water, spray applied at low pressure.

3.8 SCHEDULES

- A. General: Contractor to verify all existing masonry conditions, including anchorage to substrate, to determine scope of masonry repairs. Refer to drawings and additional work allowances to be included in the bid.
- B. CMU Foundations: Tuckpoint exposed mortar joints in CMU foundation wall where required by conditions.
- C. Limestone Sills: Remove and reset all limestone sills that are loose, displaced, or disbonded. If stone is cracked, broken, or missing, install a new limestone sill to match existing. Replacement will be a field change if needed. Re-point joints in 2 piece sills.
- D. Masonry Repairs:
 1. Remove damaged, cracked, spalled, or dislocated masonry units as required by conditions.
 2. Replace damaged masonry with new or salvaged masonry as applicable to the repair. Install new masonry per Section 04 20 00. Tooth into existing masonry as appropriate.
- E. Masonry Tuckpointing:
 1. Tuck point existing mortar joints where indicated and as required by existing conditions.
 2. Tuck point locations of removed hose bibs, address plaques, building equipment, electrical service, conduits, wiring, etc. that were anchored into the mortar joints.

END OF SECTION

THIS SHEET LEFT INTENTIONALLY BLANK

SECTION 04 20 00 - UNIT MASONRY

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes concrete and brick masonry units; anchorage, and accessories.

1.2 PERFORMANCE REQUIREMENTS

- A. Clay Masonry Compressive Strength (f'm): 1,500 psi; determined by unit strength method.

1.3 SUBMITTALS

- A. Product Data: Submit masonry units and wall ties and other accessories.
- B. Samples: Submit two samples of brick to illustrate color, texture and extremes of color range.
 - 1. Contractor shall coordinate with brick suppliers to find brick match to the existing brick color on the buildings.

1.4 QUALITY ASSURANCE

- A. Perform Work in accordance with MSJC Code (ACI 530/ASCE 5/TMS 402) and MSJC Specification (ACI 530.1/ASCE 6/TMS 602).

1.5 ENVIRONMENTAL REQUIREMENTS

- A. Repoint mortar joints and repair masonry only when air temperature is between and 40°f and 90°f and is predicted to remain so for at least 7 days after completion of work.
 - 1. In accordance with ACI 530.1
- B. Hot-weather requirements: protect masonry repair and mortar-joint pointing when temperature and humidity conditions produce excessive evaporation of water from mortar and repair materials. Provide artificial shade and wind breaks and use cooled materials as required. Do not apply mortar to substrates with temperatures of 90°f and above.
 - 1. In accordance with ACI 530.1
- C. Patch masonry only when air and surface temperatures are between and 55°f and 100°f and are predicted to remain above 55°f for at least 7 days after completion of work. On days when air temperature is predicted to go above 90°f, schedule patching work to coincide with time that surface being patched will be in shade or during cooler morning hours.
- D. Provide shoring, bracing, or support to prevent movement, settlement, or collapse of structure, work under demolition, or adjacent work to remain.
- E. Prevent grout or mortar used in assembly and repair work from staining face of surrounding surfaces. Immediately remove grout and mortar in contact with exposed surfaces.
- F. Protect sills, ledges, and projections from mortar droppings.

1.6 MOCKUP

- A. Mockup masonry installation at one area, including mortar and accessories for review by Architect and Owner.
- B. Acceptable panel illustrating results of work will become standard for work of this section.

PART 2 PRODUCTS

2.1 BRICK UNIT MASONRY ASSEMBLIES

- A. Manufacturers:
 - 1. The Belden Brick Co.
 - 2. Glen-Gary Brick.

3. Bowerstone Shale Co.
 4. Equal.
- B. Facing Brick: ASTM C216, Type FBS, Grade MW; color and texture as selected by Architect from full range of available colors/textures. Match existing brick.
1. Brick Size and Shape: modular size.
 2. It shall be the contractor's responsibility to locate the appropriate brick match for each of the buildings.
- C. Precast Concrete sills: fabricated to suit opening, sized as required. Positive slope out to face of wall, extend 1 inch past face of brick.

2.2 CONCRETE MASONRY UNIT ASSEMBLIES

- A. Manufacturers:
1. Snyder Brick & Block or Equal.
- B. Hollow Load Bearing Concrete Masonry Units: ASTM C90; normal weight.
- C. Solid Load Bearing Concrete Masonry Units: ASTM C90, normal weight.
- D. Hollow Non-Loading Bearing Concrete Masonry Units: ASTM C129, normal weight.
- E. Concrete Masonry Units: Size and Shape: Nominal modular size of 8 x 16 x 8 inches. Furnish special units for 90 degree corners, bond beams, bullnosed corners, and lintels.

2.3 ACCESSORIES

- A. Joint Reinforcement: ASTM A951: ladder/truss type, steel, 0.148 inch diameter side rods with 0.148 inch diameter cross ties; hot dip galvanized.
- B. Wall Ties: Corrugated formed sheet metal, 1" x 7" inch size x 20 gage thick; ASTM A153/A153M hot dip galvanized. Provide fasteners suitable for fastening through insulation board into framing [if applicable].
- C. Reinforcing Steel: ASTM A615, 60 ksi yield grade, deformed billet bars, uncoated finish.
- D. Mortar and Grout: As specified in Section 04 05 03.
- E. Self stick SBS type flashing, size and type to suit installation.
- F. Lap Sealant: Butyl type as specified in Section 07 90 00.
- G. Joint Filler: Closed cell polyethylene; oversized 50 percent to joint width; self expanding; 3/8 inch wide x by maximum lengths.
- H. Building Paper: ASTM D226; Type II, No. 30 unperforated asphalt felt.
- I. Weeps: Preformed plastic tubes, sloped thru mortar joint.
- J. Cleaning Solution: Non-acidic, not harmful to masonry work or adjacent materials, recommended by masonry unit manufacturer.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify field conditions are acceptable and are ready to receive Work.

3.2 PREPARATION

- A. Coordinate placement of anchors supplied by other sections.

3.3 INSTALLATION

- A. Maintain masonry courses to uniform dimension. Form vertical and horizontal joints of uniform thickness.
- B. Coursing of Concrete Masonry Units:
 - 1. Bond: Running
 - 2. Coursing: One unit and one mortar joint to equal 8 inches.
 - 3. Mortar Joints: Concave.
- C. Coursing of Brick units:
 - 1. Bond: Running
 - 2. Coursing: Three units and three mortar joint to equal 8 inches.
 - 3. Mortar Joints: Concave.
- D. Weeps: Install weeps in outer wythe at 24 inches oc horizontally above through-wall flashing, at bottom of walls, and other locations where the downward flow of water will be stopped.
- E. Cavity Wall: Do not permit mortar to drop or accumulate into cavity air space or to plug weep holes.
- F. Joint Reinforcement and Anchorage – CMU Foundation walls:
 - 1. Install vertical reinforcement at 48 inches on center per the drawings. Grout cores to receive reinforcing solid.
- G. Joint Reinforcement And Anchorage - Masonry Veneer:
 - 1. Install horizontal joint reinforcement 16 inches oc. Place joint reinforcement continuous in first and second joint below top of walls.
 - 2. Place masonry joint reinforcement in first horizontal joint above and below openings.
 - 3. Secure wall ties to stud framed backing and embed into masonry veneer at maximum 16 inches oc vertically and 16 inches oc horizontally.
 - 4. Place wall ties at maximum 8 inches oc vertically within 8 inches of jamb of wall openings.
 - 5. Place wall ties at maximum 8 inches on center horizontally within 8 inches of head and sill of wall openings.
- H. Masonry Flashings:
 - 1. Extend flashings horizontally through outer wythe at foundation walls, above ledge or shelf angles and lintels and turn down on outside face to form drip.
 - 2. Turn flashing up minimum 8 inches and seal to sheathing over wood framed back-up.
 - 3. Lap end joints and seal watertight.
 - 4. Turn flashing, fold, and seal at corners, bends, and interruptions.
- I. Grouted Components:
 - 1. Reinforce CMU foundation wall per drawings.
 - 2. Place and consolidate grout without displacing reinforcing.
 - 3. Fill masonry cores with grout per Section 04 05 14.
- J. Cutting And Fitting:
 - 1. Cut and fit for pipes, conduit, sleeves, grounds, etc. Coordinate with other sections of work to provide correct size, shape, and location.
- K. Cleaning:
 - 1. Remove excess mortar and mortar smears as work progresses.
 - 2. Clean soiled surfaces with cleaning solution.
- L. Tolerances:
 - 1. Maximum Variation from Plumb: 1/4 inch per story non-cumulative; 1/2 inch in two stories or more.

2. Maximum Variation from Level Coursing: 1/8 inch in 3 ft and 1/4 inch in 10 ft; 1/2 inch in 30 ft.

3.4 SCHEDULES

- A. Install new masonry veneer at infill of existing openings where indicated on drawings. Tooth into existing masonry veneer.
- B. Remove and replace defective or deteriorated masonry with new masonry where indicated on drawings. Tooth into existing masonry veneer.

END OF SECTION

SECTION 04 23 00 - GLASS UNIT MASONRY

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes: Glass masonry units; mortar bed and pointing mortar; and perimeter treatment, area well covers.

1.2 SUBMITTALS

- A. Product Data: Glass units, accessories.
- B. Samples: Two glass units, illustrating size variations, color, design, face pattern.
- C. Manufacturer's Installation Instructions: Special procedures, positioning of reinforcement, perimeter conditions requiring special attention.

1.3 QUALITY ASSURANCE

- A. Perform Work according to ACI 530 Building Code Requirements for Masonry Structures and ACI 530.1 Specification for Masonry Structures.
- B. Manufacturer: Company specializing in manufacturing products specified in this Section with three years' experience.
- C. Installer: Company specializing in performing Work of this Section with three years' experience.

1.4 ENVIRONMENTAL REQUIREMENTS

- A. Cold Weather Requirements: According to ACI 530.1 when ambient temperature or temperature of masonry units is less than 40 degrees F.
- B. Hot Weather Requirements: According to ACI 530.1 when ambient temperature is greater than 100 degrees F or ambient temperature is greater than 90 degrees F with wind velocity greater than 8 mph.

PART 2 PRODUCTS

2.1 GLASS MASONRY ASSEMBLIES

- A. Manufacturers:
 - 1. Pittsburgh Corning
 - 2. Seves Glassblock
 - 3. Pacific Glass Block

2.2 COMPONENTS

- A. Hollow Glass Units: Permanently seal hollow unit by heat fusing joint with joint key to assist mortar bond. Factory coat units edges to improve bond with mortar.
 - 1. Nominal Size: 8x8x4 inch, Pittsburgh Corning Signature Line
 - 2. Color: Clear glass.
 - 3. Pattern and Design: Essex AA Pattern
 - 4. Insulation Value: U-value of 0.51 BTU/sq ft/h/degree F.
 - 5. Compressive Strength: 400 to 600 psi.
 - 6. Visible Light Transmittance: 45 percent.
 - 7. Shading Coefficient: 0.45.
 - 8. Acoustic Sound Loss: 39 STC
- B. Stain-Resistant Pointing Mortar: One part portland cement, 1/8 part hydrated lime, and two parts graded (80 mesh) aggregate, proportioned by volume. Add aluminum tristearate, calcium stearate, or ammonium stearate equal to 2 percent of portland cement by weight.

2.3 ACCESSORIES

- A. Panel Reinforcement: Steel, hot dip galvanized to ASTM A153/A153M B2 finish.
 - 1. Side Rods: Two 0.147 inch diameter rods spaced 2 inches apart.
 - 2. Cross Rods: 0.147 inch diameter rods welded 8 inches o.c.
- B. Panel Anchors: Steel strips, 20 gage thick x 1-3/4 inch wide; punched with three rows of elongated holes, pattern staggered, hot dip galvanized to ASTM A153/A153M B2 finish.
- C. Asphalt Emulsion: Water based.
- D. Area Well Covers: Polycarbonate cover over existing area well. Minimum thickness of 1/8 inch plastic, sloped to drain water, Field Verify size and conditions.

2.4 MIXES

- A. Mix mortar and grout ingredients according to Section 04 01 00.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify openings are ready to receive Work.

3.2 PREPARATION

- A. Clean glass units of substances that impair bond with mortar or sealant.
- B. Protect elements surrounding Work of this Section from damage or disfiguration.

3.3 INSTALLATION

- A. Locate and secure perimeter channel.
- B. Coat sill under units with asphalt emulsion as bond breaker, and allow to dry.
- C. Set panel anchors in mortar bed directly over coating.
- D. Install masonry with full mortar joints. Furrowing not permitted. Remove excess mortar.
- E. Maintain uniform joint width of 1/4 inch.
- F. Place panel reinforcement at every second horizontal joint in full mortar bed and at first course above and below openings within glass unit panel.
- G. Lap reinforcement joints 6 inches. Discontinue reinforcement at expansion joints.
- H. Isolate panel from adjacent construction on sides and top with expansion strips. Keep expansion joint voids clear of mortar.
- I. Shore assembly until setting bed will maintain panel in position without movement.
- J. Rake out perimeter joint to accommodate sealant as indicated.
- K. Fill joints with pointing mortar. Pack into voids. Neatly tool surface to concave profile.
- L. Remove excess mortar and sealant.

3.4 ERECTION TOLERANCES

- A. Variation from Joint Width: Plus or minus **1/8** inch and minus zero inches.
- B. Maximum Variation from Plane of Unit to Adjacent Unit: 1/32 inch.
- C. Maximum Variation of Panel from Plane: 1/8 inch.

END OF SECTION

SECTION 05 52 00 - METAL FABRICATIONS

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes steel fabrications, including steel railing systems and steel guard rail systems.

1.2 REFERENCES

- A. ASTM International:
1. ASTM A53/A53M - Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless.
 2. ASTM A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
 3. ASTM A500/A500M - Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes.
 4. ASTM A501 - Standard Specification for Hot-Formed Welded and Seamless Carbon Steel Structural Tubing.
 5. ASTM A513 - Standard Specification for Electric-Resistance-Welded Carbon and Alloy Steel Mechanical Tubing.
- B. SSPC: The Society for Protective Coatings:
1. SSPC - Steel Structures Painting Manual.
 2. SSPC Paint 20 - Zinc-Rich Coating, Type I - Inorganic and Type II - Organic.

1.3 DESIGN REQUIREMENTS

- A. Design handrail, guardrail, and attachments to resist forces as required by Ohio Building Code. Apply loads non-simultaneously to produce maximum stresses.
1. Guard Top Rail and Handrail Concentrated Load: 200 pounds applied at any point in any direction.
 2. Guard Top Rail Uniform Load: 50 pounds per linear foot applied in any direction.
 3. Intermediate Rails, Panels, and Baluster Concentrated Load: 50 pounds applied to 1 sf area.

1.4 SUBMITTALS

- A. Shop Drawings: Indicate profiles, sizes, connection attachments, anchorage, size and type of fasteners, and accessories.
- B. Samples: Submit samples of components upon request by Architect.

1.5 QUALITY ASSURANCE

- A. Perform Work in accordance with the following:
1. Structural Steel: AISC 303.
 2. High Strength Bolted Connections: RCSC Specification for Structural Joints Using ASTM A 325 or A 490 Bolts.
- B. Finish joints in accordance with NOMMA Guideline 1.

1.6 FIELD MEASUREMENTS

- A. Verify field measurements prior to fabrication.

PART 2 PRODUCTS

2.1 STEEL RAILING SYSTEM COMPONENTS

- A. Tubing: ASTM A513, Type 5, minimum 50 ksi yield strength.
- B. Pipe: ASTM A53, Grade B, Schedule 40
1. Rails and Posts: 1 1/2 inch outside diameter [graspable]

2. Pickets: 3/4 inch outside diameter.

C. Fittings: Elbows, T-shapes, wall brackets, and escutcheons as appropriate for conditions.

2.2 STRUCTURAL STEEL

A. Channels and Angles: ASTM A36/A36M. 36 ksi.

B. Structural Pipe: ASTM A53/A53M, Grade B.

C. Structural Plates: ASTM A36/A36M. 36 ksi.

2.3 BOLTS, CONNECTORS, AND ANCHORS

A. Bolts: Heavy hex, structural type.

1. ASTM A325; Type 1, hot dipped galvanized, or Type 3, plain.

B. Nuts: ASTM A563 heavy hex type.

1. Finish: Hot dipped galvanized.

C. Washers: ASTM F436; Type 1, circular. Furnish clipped washers where space limitations require.

1. Finish: Hot dipped galvanized.

D. Anchor Rods: ASTM F1554; Grade 55, weldable.

E. Threaded Rods: ASTM A36/A36M.

1. Finish: Hot dipped galvanized.

2.4 WELDING MATERIALS

A. Welding Materials: AWS D1.1; type required for materials being welded.

2.5 FABRICATION

A. Continuously seal joined members by continuous welds. Grind exposed welds smooth.

B. Fabricate connections for bolt, nut, and washer connectors.

C. Fit and shop assemble components in largest practical sizes for delivery to site.

D. Fabricate components with joints tightly fitted and secured. Furnish spigots and sleeves to accommodate site assembly and installation.

E. Exposed Mechanical Fastenings: Flush countersunk screws or bolts; unobtrusively located; consistent with design of component, except where specifically noted otherwise.

F. Supply components required for anchorage of fabrications. Fabricate anchors and related components of same material and finish as fabrication, except where specifically noted otherwise.

G. Exterior Components: Continuously seal joined pieces by continuous welds. Drill condensate drainage holes at bottom of members at locations not encouraging water intrusion.

H. Grind exposed joints flush and smooth with adjacent finish surface. Make exposed joints butt tight, flush, and hairline. Ease exposed edges to small uniform radius.

I. Exposed Welded Joints: NOMMA Guideline 1 Joint Finish 2.

J. Accurately form components to suit stairs and landings, to each other and to building structure.

K. Accommodate for expansion and contraction of members and building movement without damage to connections or members.

2.6 FINISHES

A. Prepare structural component surfaces in accordance with SSPC SP 3 or as required by conditions.

B. Shop prime structural steel members.

- C. Shop apply finish coating system over primer.

2.7 ACCESSORIES

- A. Grout: Non-shrink type, pre-mixed compound consisting of non-metallic aggregate, cement, water reducing and plasticizing additives, capable of developing minimum compressive strength of 5,000 psi at 28 days.
- B. Shop Primer: SSPC Paint 15, Type 1, red oxide.
- C. Touch-Up Primer: Match shop primer.

2.8 FINISHES

- A. Prepare surfaces in accordance with SSPC SP 1 and requirements of finish coating system.
- B. Shop prime items with one coat. Do not prime surfaces in direct contact with concrete or where field welding is required.
- C. Finish coatings per Section 09 90 00.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify field conditions are acceptable and are ready to receive work.
- B. Verify concealed blocking and reinforcement is installed and correctly located to receive wall mounted handrails.

3.2 PREPARATION

- A. Clean and strip primed steel items to bare metal where site welding is required.
- B. Supply items required to be cast into concrete and/or embedded in masonry with setting templates, to appropriate sections.

3.3 ERECTION

- A. Allow for erection loads, and for sufficient temporary bracing to maintain structure safe, plumb, and in alignment until completion of erection and installation of permanent bracing.
- B. Field weld components indicated.
- C. Do not field cut or alter structural members without approval of Architect/Engineer.
- D. After erection, touch up welds and abrasions to match shop finishes.

3.4 ERECTION TOLERANCES

- A. Maximum Variation From Plumb: 1/4 inch per story, non-cumulative.
- B. Maximum Offset From Alignment: 1/4 inch.
- C. Maximum Out-of-Position: 1/4 inch.

3.5 GROUT INSTALLATION

- A. Shim bearing plates and equipment supports to proper elevation, snug tighten anchor bolts.
- B. Fill void under bearing surface with grout. Install and pack grout to remove air pockets.
- C. Moist cure grout.
- D. Remove forms after grout is set. Trim grout edges to form smooth surface, splayed 45 degrees.
- E. Tighten anchor bolts after grout has cured for a minimum of 3 days.

3.6 FIELD QUALITY CONTROL

- A. Bolted Connections: Inspect in accordance with AISC 303.
 - 1. Visually inspect all bolted connections.
 - 2. For Direct Tension Indicators, comply with requirements of ASTM F959. Verify that gaps are less than gaps specified in Table 2.
- B. Welding:
 - 1. Certify welders and conduct inspections and tests as required. Record types and locations of defects found in work. Record work required and performed to correct deficiencies.
 - 2. Visually inspect all welds.
 - 3. Ultrasonic Inspection: ASTM E164; perform on all full penetration welds.
- C. Correct defective bolted connections and welds.

END OF SECTION

SECTION 06 10 00 - ROUGH CARPENTRY

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes structural wall and roof framing, built-up structural members, non-structural interior wall framing, wall sheathing; subfloor sheathing; sill gaskets and flashings; preservative and fire retardant treatment; electrical panel backboards; blocking and related furring and framing materials.

1.2 REFERENCES

- A. American National Standards Institute:
1. ANSI A135.4 - Basic Hardboard.
 2. ANSI A208.1 - Mat-Formed Wood Particleboard.
- B. American Wood-Preservers' Association:
1. AWPA M4 - Standard for the Care of Preservative-Treated Wood Products.
 2. AWPA U1 - Use Category System: User Specification for Treated Wood.
- C. ASTM International:
1. ASTM C1396/C1396M - Standard Specification for Gypsum Board.
 2. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
 3. ASTM E119 - Standard Test Methods for Fire Tests of Building Construction and Materials.
 4. ASTM F1667 - Standard Specification for Driven Fasteners: Nails, Spikes, and Staples.
- D. Forest Stewardship Council:
1. FSC Guidelines - Forest Stewardship Council Guidelines.
- E. Green Seal:
1. GS-36 - Aerosol Adhesives.
- F. National Lumber Grades Authority:
1. NLGA - Standard Grading Rules for Canadian Lumber.
- G. Northeastern Lumber Manufacturers Association:
1. NELMA - Standard Grading Rules for Northeastern Lumber.
- H. South Coast Air Quality Management District:
1. SCAQMD Rule 1168 - Adhesive and Sealant Applications.
- I. Southern Pine Inspection Bureau:
1. SPIB - Standard Grading Rules for Southern Pine Lumber.
- J. U.S. Department of Commerce National Institute of Standards and Technology:
1. DOC PS 1 - Construction and Industrial Plywood.
 2. DOC PS 2 - Performance Standard for Wood-Based Structural-Use Panels.
 3. DOC PS 20 - American Softwood Lumber Standard.
- K. West Coast Lumber Inspection Bureau:
1. WCLIB - Standard Grading Rules for West Coast Lumber.
- L. Western Wood Products Association:
1. WWPA G-5 - Western Lumber Grading Rules.

1.3 QUALITY ASSURANCE

- A. Perform Work in accordance with the following agencies:

1. Lumber Grading Agency: Certified by DOC PS 20.
 2. Wood Structural Panel Grading Agency: Certified by EWA - The Engineered Wood Association.
 3. Plywood Grading Agency: Certified by APA.
 4. Lumber: DOC PS 20.
 5. Wood Structural Panels: DOC PS 1 or DOC PS 2.
- B. Perform Work in accordance with Ohio Building Code.
- C. Apply label from agency approved by authority having jurisdiction to identify each preservative treated and fire retardant treated material.

PART 2 PRODUCTS

2.1 LUMBER MATERIALS

- A. Lumber Grading Rules: SPIB, ASLS.
- B. Beam Framing: southern yellow pine species, No. 1 grade, 2" and wider size classification, 19 percent maximum moisture content.
- C. Joist Framing: southern yellow pine species, No. 1 grade, 2" and wider size classification, 19 percent maximum moisture content.
- D. Columns: southern yellow pine species, No. 2 grade, 4" and wider size classification, 19 percent maximum moisture content.
- E. Non-structural Light Framing: Stress Group D, spruce, pine, fir species, 19 percent maximum moisture content.
- F. Studding: Stress Group D, spruce, pine, fir species, 19 percent maximum moisture content.
- G. Sill Plate: AWWA C2 Lumber, Stress Group D, spruce, pine, and fir species, and 19 percent maximum moisture content, pressure preservative treated.

2.2 SHEATHING MATERIALS

- A. Wall Sheathing: ANSI A208.1, Oriented Strand Board [OSB]; wood chips set with waterproof resin binder; unsanded faces; 7/16 inch thickness; 48x96 inch sized sheets
- B. Roof Sheathing: ANSI A208.1, Oriented Strand Board [OSB]; wood chips set with waterproof resin binder; unsanded faces; 3/4 inch thickness; 48x96 inch sized sheets [match existing conditions]
- C. Subfloor Sheathing: APA Rated Sheathing Structural I, Span Rating 24/16, Exposure Durability 1, unsanded; 3/4 inch thickness; 48x96 inch sized sheets. Alternate: 1x6 lumber infill.
- D. Electrical Panel Back Board: 3/4 inch thick Plywood, sized for application

2.3 UNDERLAYMENT

- A. Plywood Underlayment: Rated Sheathing Structural I, Span Rating 24/16, Exposure Durability 1, sanded; 1/4 or 1/2 inch thickness [conform to flooring installation requirements]; 48x96 inch sized sheets.
- B. Cement Board: Refer to Section 09 21 16.
- C. Luan Plywood Underlayment: 1/4 inch Thickness, sanded, 48x96 inch sized sheets.

2.4 FIREBLOCKING AND FIRESTOPPING

- A. Fireblocking: Solid lumber, structural wood panel, or particleboard.

1. Solid lumber nominal 2 inches thick.
 2. Structural wood panel 23/32 inch thick with joints backed by structural wood panel.
- B. Draftstopping: Gypsum board or OSB
1. Gypsum board: 1/2 inch thick.
 2. OSB: 7/16 inch thick.

2.5 ACCESSORIES

- A. Fasteners and Anchors:
1. Fasteners: ASTM A153/A153M, hot dipped galvanized steel for high humidity and treated wood locations, unfinished steel elsewhere.
 2. Nails and staples: ASTM F1667.
- B. Die Stamped Connectors: galvanized steel, specific type/profile as applicable
- C. Structural Framing Connectors: Galvanized steel, sized to suit framing conditions.
1. Simpson or Equal.
- D. Anchors: Toggle bolt type for anchorage to hollow masonry. Expansion shield and lag bolt type for anchorage to solid masonry or concrete. Powder actuated fasteners into slab. Hilti or Equal. All anchors sized to suit application and loads.
- E. Sill Gasket: Plate width, closed cell foam strip.
- F. Sill Flashing: Polyethylene Sheet or Galvanized Steel.
- G. Subfloor Glue: ASTM D3498, water base, waterproof.
- H. Weather Resistive Barrier / Building Paper: ASTM D226; spun bonded polyethylene, Tyvek or Equal. Coordinate with existing conditions as appropriate.

2.6 WOOD TREATMENT

- A. Wood Preservative (Pressure Treatment): AWPA U1, Commodity Specification A-Sawn Products or F-Wood Composites using water-borne preservative with .25 pcf retention.
- B. Fire Retardant Treatment: Chemically treated and pressure impregnated, having flame spread of 25 or less when tested in accordance with ASTM E 84 and showing no evidence of significant progressive combustion when test is continued for an additional 20 minute period, Exterior or Interior Type.
- C. Moisture Content After Treatment: Kiln dried (KDAT).
1. Lumber: Maximum 19 percent.
 2. Structural Panels: Maximum 15 percent.

PART 3 EXECUTION

3.1 FRAMING

- A. Set structural members level and plumb, in correct position.
- B. Fasten framing in accordance with Ohio Building Code.
- C. Place horizontal members crown side up.
- D. Make provisions for erection loads, and for sufficient temporary bracing to maintain structure safe, plumb, and in alignment until completion of erection and installation of permanent bracing.
- E. Provide all required shoring and temporary bracing required to support structure prior to removing any load-bearing components.

- F. Construct load bearing framing members full length without splices.
- G. Double members at openings. Space short studs over and under opening to stud spacing.
- H. Place full width continuous sill flashings under framed walls on cementitious foundations. Lap flashing joint 4 inches.
- I. Place sill gasket directly on cementitious foundation. Puncture gasket clean and fit tight to protruding foundation anchor bolts.
- J. All exterior framing intended to be left exposed to weather shall be pressure treated and anchored with galvanized fasteners and appropriate connectors.
- K. All framing in contact with concrete shall be treated. Interior or exterior walls.
- L. Frame new walls, partitions, and openings to suit conditions and as designed.
- M. Install solid 2x bearing at each end of beams and headers. Ensure that blocking is positioned with full support/blocking under to existing bearing conditions. Install supplemental blocking as required between joists, framing, etc.
- N. Bridge joists at mid-space with solid 2x blocking.

3.2 SHEATHING

- A. Install sheathing over framing members in full size sheets in accordance with APA Construction Guide.
- B. Fasten sheathing in accordance with Ohio Building Code.
- C. Install subfloor sheathing with longer edge perpendicular to floor framing with end joints staggered. Secure sheet edges over firm bearing. Attach sheathing with subfloor glue and appropriate fasteners.
- D. Install underlayment in accordance with APA Construction Guide.
 - 1. 3d x 1 ¼" ring shank nails at 3" at perimeter and 6" in field. **No staples permitted.**
 - 2. Glue to subfloor as applicable by condition.
- E. Secure wall sheathing with ends staggered, over firm bearing.
- F. Install new underlayment at areas of wood framed floor systems where required for new finish flooring. Remove all existing underlayment down to original subfloor as required.
- G. Place WRB/building paper over wall sheathing, weather lap joints and end laps, staple in place. Coordinate flashing installation to ensure continuous water resistant barrier.
- H. Install electrical panel back board with plywood sheathing. Size back board by 12 inches beyond size of electrical panel.

3.3 FIREBLOCKING AND DRAFTSTOPPING

- A. Install fireblocking to cut off concealed draft openings as required.
 - 1. Concealed Framed Wall and Furred Spaces: Install fireblocking vertically at floor and ceiling levels and horizontally.
 - 2. Connections Between Horizontal and Vertical Spaces: Install fireblocking between vertical walls and partitions and the following:
 - a. Horizontal floor and roof framing.
 - b. Soffits, dropped ceilings, cove ceilings and other horizontal concealed spaces.

3.4 SITE APPLIED WOOD TREATMENT

- A. Treat site sawn cuts. Brush apply one coat of preservative treatment on untreated wood in contact with cementitious materials.

B. Allow preservative to cure prior to erecting members.

3.5 TOLERANCES

A. Framing members: $\frac{1}{4}$ inch from indicated position, maximum.

END OF SECTION

THIS SHEET LEFT INTENTIONALLY BLANK

SECTION 06 20 00 - FINISH CARPENTRY

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes interior and exterior finish carpentry items, other than shop prefabricated casework; solid surface components; solid surface window sills, closet rods and shelving, hardware and attachment accessories.

1.2 SUBMITTALS

- A. Shop Drawings: Indicate materials, component profiles, fastening methods, jointing details, finishes, and accessories.
- B. Samples: Submit two samples illustrating wood grain, colors/finishes and profiles.

1.3 QUALITY ASSURANCE

- A. Perform Work in accordance with AWI Quality Standards, Custom Grade.
- B. Surface Burning Characteristics: Maximum 25/450 flame spread/smoke developed index when tested in accordance with ASTM E84.

PART 2 PRODUCTS

2.1 EXTERIOR FINISH CARPENTRY

- A. Porch Columns / Trim: 1x composite trim, S4S, width to match conditions, prep for painted finish.
- B. Miscellaneous Exterior Trim: Clear pine. 1x material by widths as indicated on drawings and to match existing conditions. Aluminum wrap where indicated / to match existing conditions.
- C. Exterior Door Trim: 1x composite trim as required by conditions. New exterior door frames are steel. [match existing width / conditions as appropriate].

2.2 COMPOSITE TRIM

- A. Exterior synthetic/composite trim, ASTM C 1185
 - 1. Manufactured by Boral TruExterior Trim or Equal
- B. Properties:
 - 1. Density, ASTM C 1185, 40 to 50 pcf.
 - 2. Water Absorption, ASTM D 570: Less than 1.5 percent.
 - 3. Fungi Rot, AWPA E10:
 - a. White Rot: Negligible Loss.
 - b. Brown Rot: Negligible Loss.
 - 4. Termite Resistance, AWPA E1: Greater than 9.0 with 10 being impervious.
 - 5. Flexural Strength, ASTM C 1185: Greater than 1,600 psi
 - 6. Nail Withdraw, ASTM D 1761: Greater than 50 lbf/in.
 - 7. Coefficient of Linear Expansion, ASTM D 6341: 1.40E-05 in/in/degree F
 - 8. Flame Spread, ASTM E 84: Between 25 and 29.
 - 9. Smoke Developed, ASTM E 84: Less than 450.
- C. Trim Sizes: Coordinate with drawings as applicable.
 - 1. Exposed Texture: Smooth.

2.3 INTERIOR FINISH CARPENTRY

- A. Interior Running Trim for Opaque [Painted] finish:
 - 1. Grade: Custom
 - 2. Cut: plain sawn
 - 3. Finger jointing: permitted

4. Species: pine, poplar, or any close grained hardwood lumber. [MDO, MDF, PVC or other composite materials not permitted]
5. Profiles:
 - a. Base Trim:
 - 1) 3-1/4 inch ranch [WM 724] profile [match existing as appropriate]
 - b. Shoemold Trim:
 - 1) 1/2 inch x 3/4 inch shoe mold [WM 126]
 - c. Door Casing Trim:
 - 1) 2-1/4 inch ranch [WM327] profile [match existing as appropriate]
 - d. Shelving Cleats [if required]
 - 1) 3/4 inch x 3-1/2 inch square with eased edge
 - e. Miscellaneous Trim:
 - 1) Size and profile to suit conditions.
- B. Interior Running Trim for Transparent [Stained] finish:
 1. Grade: Custom
 2. Face: plain sawn
 3. Finger jointing: not permitted
 4. Species: Oak or other close grained hardwood lumber [as approved by Architect]
- C. Interior Handrails: Hardwood lumber for Opaque [Painted] finish:
 1. Grade: Custom
 2. Species: pine, poplar, any close grained hardwood lumber.
 3. Profile: 1-1/2 x 1-3/4 radiused profile [WM 230]
 4. Accessories: Handrail brackets: Heavy Duty rated, Satin Nickel, space at approximately 48 inches on center [provide blocking in wall as required]
- D. Plywood: Graded in accordance with AWI Custom veneer with lumber core; birch face species, rotary cut, primed for painted finish.
- E. Hardwood Flooring for Transparent [Stained] finish:
 1. Grade: Match existing for grain, finish, and quality
 2. Species: Red Oak [unless existing differs – match existing as appropriate]
 - a. 2 1/4 inch wide, 3/4 inch thick, tongue and groove strip flooring, match existing.

2.4 INTERIOR FINISH COMPONENTS

- A. Plastic Laminate Countertops: Refer to Section 12 35 30.
 1. Interior Adhesives: Maximum VOC content in accordance with SCAQMD Rule 1168.
- B. Solid Surface Tub / Shower Surround / Lavatory Tops: Refer to Section 06 61 16
- C. Solid Surface Window Sills: Solid polymer fabrication: Homogeneous filled acrylic; not coated, laminated or of composite construction meeting ANSI Z124.3 and 6, Type 6. Color as selected from full range of colors included premium colors. As manufactured by Formica, Wilsonart, Hanex, or Equal.
 1. Fabricate for installation at window stools. Minimum of 1/2" thick with eased edges.
 2. Superficial damage to a depth of .010" shall be repairable by sanding and polishing.
- D. Wire Closet Shelving / Closet Rod: open-wire closet shelving system with rod system. ClosetMaid Close Mesh Shelf and Rod or Equal.
 1. 12" shelf depth with hanging rod below
 2. Vinyl coated steel, PVC vinyl thickness 9-11 mills
 3. Support brackets at 36" on center max.
 4. End caps at all open or cut ends.
- E. Closet Rod [Contractor Alternate]: 1 5/16" heavy weight white closet rod, cut to length, white or chrome steel wall brackets and intermediate supports [at maximum of 36" o.c.]. Manufactured by Lido Designs or Equal.
 1. Anchor wall brackets into 1x6 cleats mounted to walls/framing.

- F. Closet / Storage / Pantry / Linen Shelving [Contractor Alternate]: ¾" medium density fiberboard [MDF], sanded, bullnose edge. Install on 1x cleats mounted to blocking in the wall.
- G. Non-Rated Access Panels [located within individual dwelling units]:
 - 1. Access panels: sized as required by conditions or equipment requiring servicing.
 - a. ½" thick finish A / C grade plywood, painted.
 - b. 2 ¼" colonial profile trim surround, installed to overlap the perimeter of opening.
 - c. Screwed into framing.
 - d. Plastic access panels secured to framing may be permitted at interior partitions in inaccessible locations [cabinets, closets, etc.] for plumbing access points, etc.
- H. Fire Rated Access Panels: Refer to Section 08 31 13.
- I. Non-Fire Rated Access Panels located in common areas: Refer to Section 08 31 13.

2.5 ACCESSORIES

- A. Fasteners and Anchors:
 - 1. Fasteners: Size and type to suit application, stainless steel for exterior, high humidity and treated wood locations, plain finish elsewhere.
 - 2. Nails and Staples: ASTM F1667.
- B. Contact Adhesives: Water Base type.
- C. Wall Adhesive: Cartridge type, compatible with wall substrate, capable of achieving durable bond.
- D. Primer: Alkyd primer sealer type.
- E. Hardware: as required to suit application.

2.6 FABRICATION

- A. Fabricate to AWI Custom standards.

2.7 SHOP FINISHING

- A. Sand work smooth and set exposed nails and screws.
- B. Apply wood filler in exposed nail and screw indentations.
- C. On items to receive transparent finishes, use wood filler matching surrounding surfaces and of types recommended for applied finishes.
- D. Stain, seal, and varnish exposed to view surfaces, refer to Section 09 90 00.
- E. Seal internal surfaces and semi-concealed surfaces.
- F. Seal surfaces in contact with cementitious materials.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify field conditions are acceptable and are ready to receive work.

3.2 PREPARATION

- A. Prime paint surfaces of items or assemblies in contact with cementitious materials, before installation.

3.3 INSTALLATION

- A. Install work in accordance with AWI Custom quality standard.
 - 1. Set and secure materials and components in place, plumb and level.
 - 2. Install trim by nails.
 - 3. Miter trim and return to wall where applicable.

4. Install hardware.
- B. Preparation For Finish:
1. Sand work smooth and set exposed fasteners. Apply wood filler in exposed fastener indentations.
 2. Site Finishing: Refer to Section 09 90 00.

END OF SECTION

SECTION 06 61 16 - SOLID SURFACING FABRICATIONS

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes cast plastic/solid surface fabrications.

1.2 REFERENCES

- A. ASTM International:
 - 1. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
- B. Underwriters Laboratories Inc.:
 - 1. UL - Fire Resistance Directory.

1.3 SUBMITTALS

- A. Shop Drawings: Indicate dimensions, thicknesses, required clearances, tolerances, materials, colors, finishes, fabrication details, field jointing, adjacent construction, methods of support, integration of plumbing components, and anchorages.
- B. Product Data: Submit data on specified component products, electrical characteristics and connection requirements.
- C. Samples: Submit **two** samples representative of solid surface chips illustrating color, texture, and finish.

1.4 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: Submit list of approved cleaning materials and procedures required; list of substances harmful to component materials, Include instructions for stain removal, surface and gloss restoration.

1.5 QUALITY ASSURANCE

- A. Surface Burning Characteristics: Maximum 25/450 flame spread/smoke developed index when tested in accordance with ASTM E84.

1.6 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing products specified in this section with minimum three years documented experience.

1.7 FIELD MEASUREMENTS

- A. Verify field measurements prior to fabrication.

1.8 WARRANTY

- A. Provide manufacturer's standard warranty for lavatory sinks, shower/bath wall systems.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. Swan Corporation, or Equal.

2.2 COMPONENTS

- A. Solid Surface Resin: Homogeneous compression molded material composed of acrylic resins or polyester/acrylic blend, fire-retardant filler materials, fiber reinforcement, and integral coloring agents; stain resistant to domestic chemicals and cleaners; meeting ANSI Z124.3; ASTM E84, ASTM D 570.

1. Construction make up:
 - a. Nominal sheet thickness of 0.25"
 - b. Nominal countertop thickness of 0.75"
 - c. Nominal bathtub/shower wall sheet thickness of 0.225"
 - d. Nominal shower base thickness as determined by manufacturer.
- B. Color: as selected from ALL manufacturer colors.
- C. Polishing Cream: Compatible polishing cream to achieve specified sheen to gel coat.
- D. Adhesive: type approved by manufacturer, cartridge dispensed.

2.3 FABRICATION

- A. Fabricate components by mold to achieve shape and configuration.
- B. Gel coat exposed finish surfaces smooth and polish to low sheen, uniform finish.
- C. Radius corners and edges.
- D. Provide holes and cutouts for plumbing and bath accessories as indicated on the drawings.
- E. Cure components prior to shipment, except sheet materials requiring site handling.

2.4 ACCESSORIES

- A. Supply materials for installation of products as specified in manufacturer's printed instructions including color matched silicone sealant and adhesives where applicable.
- B. Supply accessory components as indicated in the schedule in this section.

2.5 SHOP FINISHING

- A. Color: color as selected by Architect from full range of standard and premium color options.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify existing conditions are ready to accept solid surfacing materials.
- B. Verify joint preparation and affected dimensions are acceptable.

3.2 PREPARATION

- A. Provide anchoring devices for installation.
- B. Provide templates and rough-in measurements.

3.3 INSTALLATION

- A. Align work plumb and level.
- B. Rigidly anchor to substrate to prevent misalignment.
- C. Seal to adjacent construction in accordance with appropriate sealant.

3.4 ERECTION TOLERANCES

- A. Maximum Variation From Indicated Dimension: **1/8** inch.
- B. Maximum Offset From Indicated Position: **1/8** inch.

3.5 CLEANING

- A. Clean and polish fabrication surfaces.

3.6 SCHEDULES

- A. Lavatory Top: Swanstone Chesapeake Single Bowl Lavatory Top, sized per drawings, 3 1/2 inch backsplash and side splash panel, 1 1/4 inch thick top with eased edges; integral bowl with overflow. Color as selected by Architect.
- B. Tub Surround: Swanstone Bathtub 3-Panel Wall Kit, SSIT-60-3, designed to fit tub area 33 1/2 inch deep x 60 inches wide or smaller. Back panel with integral trim, two side panels with integral trim, 2 bathtub apron strips, two corner moldings. Provide nominal 4 inch trim surround at each side and along top of shower walls. Cut / trim to fit as applicable, cut and return into window openings where they occur [Swanstone Window Trim Kit]. Color as selected by Architect.
 - 1. Provide [1] corner shelf SS-7211 or Equal
 - 2. Provide [2] corner soap dishes ES-2 or Equal
- C. Accessible Transfer Shower: Swanstone Veritek Perfomix Transfer Trench Drain Shower, FTF-3838 shower base. Swanstone Shower Wall Kit, SK-366272. Back panel with integral trim, two side panels with integral trim, two corner moldings. Cut / trim to fit as applicable. Color as selected by Architect
 - 1. Provide [1] recessed shelf/alcove RS-2215 or Equal
 - 2. Provide [2] corner soap dishes ES-2 or Equal
 - 3. Field installed shower accessories – grab bars, seat, etc.

END OF SECTION

THIS SHEET LEFT INTENTIONALLY BLANK

SECTION 07 21 00 - THERMAL INSULATION

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes batt thermal insulation and vapor retarder in exterior walls, blown thermal insulation in ceilings/roof construction; expanding foam insulation for joints and cracks in the building envelope.

1.2 SYSTEM DESCRIPTION

- A. System performance to provide continuity of thermal barrier and vapor retarder at building enclosure elements in conjunction with air barrier materials.
- B. Vapor Retarder Permeance: Maximum 1 perm when tested in accordance with ASTM E96/E96M, water method.

1.3 SUBMITTALS

- A. Product Data: Submit manufacturer's product data including thermal performance of materials. Provide recycled content and emissions information as part of the product data.

1.4 QUALITY ASSURANCE

- A. Furnish and label cellulose loose fill insulation in accordance with CPSC 16 CFR 1209 and CPSC 16 CFR 1404.
- B. Insulation Installed in Concealed Locations Surface Burning Characteristics:
 - 1. Foam Plastic Insulation: Maximum 75/450 flame spread/smoke developed index when tested in accordance with ASTM E84.
 - 2. Other Insulation: 25/450 flame spread/smoke developed index when tested in accordance with ASTM E84.
- C. Insulation Installed in Exposed Locations Surface Burning Characteristics:
 - 1. Other Insulation Materials: 25/450 flame spread/smoke developed index when tested in accordance with ASTM E84.
 - 2. Attic Floor Insulation: Minimum 0.12 watt per sq cm critical radiant flux when tested in accordance with ASTM E970.

PART 2 PRODUCTS

2.1 BUILDING INSULATION

- A. Insulation Manufacturers:
 - 1. Certainteed.
 - 2. Johns Manville.
 - 3. Owens-Corning Fiberglass.
 - 4. Dow Building Products
- B. Mineral Fiber Insulation Manufacturers:
 - 1. Roxul AFB or Equal
- C. Two part closed cell polyurethane expandable insulation
 - 1. Dow Building Solutions, Great Stuff or Approved Equal.

2.2 COMPONENTS

- A. Batt Insulation for walls: ASTM C665, preformed glass fiber batt, friction fit, conforming to the following:
 - 1. Thermal Resistance: R of 13.
 - 2. Facing: Kraft paper.

- B. Blanket Insulation for fire resistance rated demising walls: ASTM C665 Type 1; ASTM E90; preformed mineral fiber batt/blanket; friction fit, conforming to the following:
 - 1. Thermal Resistance: R of 13; 3 1/2 inch thickness [match wall assembly thickness].
 - 2. Facing: None.
- C. Blanket Insulation for fire resistance rated demising floors: ASTM C665 Type 1; ASTM E90; preformed mineral fiber batt/blanket; friction fit, conforming to the following:
 - 1. Thermal Resistance: R of 30; 7 1/4 inch thickness.
 - 2. Facing: None.
- D. Fiber Fill Insulation: ASTM C764, glass fiber type, bulk for pneumatic placement.
- E. Ventilation Baffles: Formed rigid fiberboard or cardboard used with fiber fill insulation, sized to fit between roof framing members to permit cross ventilation of attic and eave. Provide complete vertical return down to meet top of top plate at wall framing. Length as required by conditions and provide clear ventilation path to ridge.

2.3 ACCESSORIES

- A. Adhesive: Type recommended by insulation manufacturer for application.
- B. Exterior Walls, Sill Seal Insulation: Poly foam sill seal gasket, 3 1/2" wide roll type installation. Owens Corning Foam SealR or Equal.
- C. Slab on Grade Sheet Vapor Barrier: 6 mil polyethylene film.
- D. Tape: Polyethylene self-adhering type, mesh reinforced, 2 inch wide.
- E. Insulation Fasteners: Impaling clip of galvanized steel or nylon with washer retainer and clips, to be adhered to surface to receive board insulation, length to suit insulation thickness and substrate, capable of securely and rigidly fastening insulation in place.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify substrate, adjacent materials, and insulation boards are dry and ready to receive insulation.

3.2 INSTALLATION

- A. Vapor Barrier
 - 1. Install vapor barrier over compacted granular base in accordance with manufacturer requirements.
 - 2. Tape and seal all laps, joints, tears, etc. per the manufacturer requirements to maintain the continuous air seal.
- B. Exterior Walls, Sill Seal Insulation:
 - 1. Roll sill seal gasket onto top of foundation wall. Butt all ends tightly together.
 - 2. Pierce at anchor bolt locations.
- C. Exterior Wall Batt Insulation:
 - 1. Install in exterior walls without gaps or voids.
 - 2. Fit insulation tight in spaces. Leave no gaps or voids.
 - 3. Install with factory applied membrane facing warm side of building spaces. Attach flanges of facing to framing members.
 - 4. Seal vapor retarder to framing to ensure airtight installation.
- D. Demising Wall Blanket Insulation:
 - 1. Install in demising walls without gaps or voids.
 - 2. Fit insulation tight in spaces. Leave no gaps or voids.
- E. Floor Blanket Insulation:

1. Install in demising walls without gaps or voids.
 2. Fit insulation tight in spaces. Leave no gaps or voids.
- F. Attic Ventilation Air Baffles:
1. Install pre-formed attic air baffles between each truss bay along the perimeter of the building. Return baffles down to meet exterior edge of top plate.
 2. Maintain required clearance between underside of roof sheathing per shingle manufacturer requirements.
 3. Maintain required depth between top plate and baffle to maintain a minimum level of R-21 to exterior edge of top plate.
 4. Extend baffles sufficiently to allow insulation to the described depth/thickness.
- G. Ceilings/Attic Blow in Insulation:
1. Place insulation pneumatically, tight in truss bay spaces.
 2. Place insulation against baffles. Do not impede natural attic ventilation from eave to ridge.
 3. Place against and behind mechanical and electrical services within plane of insulation.
 4. Completely fill intended spaces. Leave no gaps or voids.
- H. Expanding polyurethane insulating foam insulation/sealant:
1. Clean surfaces from debris, dust, and dirt.
 2. Spray in place using care not to apply to adjacent surfaces.
 3. Trim back flush or slightly behind finish surfaces.

3.3 SCHEDULES

- A. Exterior Wall Sill Seal Insulation: ¼" thick foam roll under bottom plate, at areas of new sill plate.
- B. Exterior Stud Wall Insulation: New R13 batt, kraft faced, friction fit. Exterior walls where impacted by other work / existing framing is exposed.
- C. Demising Stud Wall Insulation: New R13 mineral wool blanket, friction fit. All demising walls where impacted by other work / existing framing is exposed.
- D. Demising Floor Insulation: New R30 mineral wool blanket, friction fit. All floors where finishes have been removed and where impacted by other work / existing framing is exposed.
- E. Attic Spaces: New R-38 blown in attic insulation. Install new baffles at eaves. Maintain existing insulation where it exists, supplement / blow in above existing to a minimum of R-38. All attics.
- F. Gaps/Cracks in floor slab around openings for bathtubs, piping, etc. and around perimeter of building foundation where wall meets slab: Fill gap or crack with expanding polyurethane foam sealant.
- G. Miscellaneous gaps and cracks in building envelope: Fill gaps with expanding foam sealant where applicable such as gaps at window and door openings, etc. Install minimal expansion foam at all locations where sealant may bow or warp materials.
- H. Expanding foam sealant: Install at all joints of stud/plate, sheathing, penetration of wiring into stud cavity top/bottom plates, into box/cable penetrations, around openings and other cracks/joints in building envelope. Install at all interior partitions at wiring, etc. through top/bottom plates.
- I. Expanding foam sealant: Install at all penetrations of ductwork, conduits, etc. through the floor, walls or ceiling. Cap all chases with a rigid air barrier as applicable for the condition. Seal all HVAC boots, electrical boxes, etc. to the gypsum board finishes.
- J. Expanding foam sealant: Install at backside of all stud cavity bays at joint between each wood stud and face of exterior sheathing. Typical all exterior walls where framing is exposed and as impacted by other work.

- K. Expanding foam sealant: Fill all cavities at framed building corners, etc. with foam sealant. Refer to drawings for framing details.
- L. Special Note: Refer to the air-sealing guidelines and requirements as part of Green Communities Requirements, and follow applicable requirements. All insulation shall be installed and certified as Grade 1 installation in accordance with Energy Star requirements.
- M. Note: Fibrous insulation is NOT acceptable as part of the air sealing strategies in the building envelope.**

END OF SECTION

SECTIONS 07 31 13 - SHINGLES AND ACCESSORIES

PART 1 GENERAL

1.1 WORK INCLUDES, BUT NOT LIMITED TO:

General: Existing Roof system is scheduled to remain. Install new penetrations as applicable to the proposed work. Flash into existing shingle roof system to maintain watertightness and integrity of the roof system.

- A. Installation of shingles and underlayment where impacted by work.
- B. Installation of associated ice and water shield membrane and synthetic underlayment.
- C. Installation of vents, pipe boots and accessories.

1.2 APPLICABLE REFERENCES

- A. The following references form a part of this specification.
 - 1. ASTM D3462 Asphalt Shingles, Fiberglass, Class A, Mineral surfaced
 - 2. ASTM D1970 Rubberized Asphalt Membrane.
 - 3. ASTM B209 Aluminum.
 - 4. ASTM E 108 Fire Test of Roof Coverings
 - 5. [SMACNA] Sheet Metal and Air Conditioning Contractors Association- 6th Edition or Current Manual
 - 6. [OSHA] Occupational Safety and Health Administration, Guidelines
 - 7. ANSI/SPRI WD-1 Wind Design Standards
 - 8. CertainTeed, Shingle Applicators Manual [Current Edition].
 - 9. ASTM D3161 Wind Testing for Steep Sloped Roofing.
 - 10. ASTM D226/D4869 Underlayment.
 - 11. ASTM D7158 H, Wind Rating for Asphalt Shingles

1.3 PRECAUTIONS

- A. Do not install shingles or roofing when the temperature is below 45 degrees F or when rain or snow is falling.
- B. Do not overload the structure with storage of materials or equipment.

1.4 SEQUENCING/SCHEDULING AND PROTECTION

- A. Building space underneath roof work is utilized by on-going operations. Coordinate all work with Owner including, material storage and contractor parking. Owner's approval required before proceeding with the work. **Contractor must provide overhead protection for Owners / Residents / Visitors, etc from falling materials/debris at building entry points and other hazard locations.**
- B. Coordinate the work of installing all associated items in such sequence that will not necessitate movement of workers and equipment over completed roof areas.
- C. Sequence work so that all underlayment, flashing, etc. is installed to produce a watertight condition as work progresses.
- D. Protect building surfaces/interior spaces against damage from roofing work. It is the Contractor's responsibility to take any necessary actions to prevent construction-related leaks, to include but not limited to repairing watertight existing surrounding roofing scheduled to be replaced or overlaid. Surround roofing areas include roof top material storage areas, workers roof top access to from roofing work site areas and any drainage system [roof drain-scuppers] leak issues located in work area. Contractor must include the cost to deal with these existing leak sources into the overall project unless the Owner is made aware of these leak sources prior to commencement of the project.

- E. Provide, erect barricades, guardrails as required by applicable regulatory advisory to protect occupants of building and workers.

1.5 MANUFACTURER'S WARRANTY [Shingles/Protective Membrane]

- A. Provide a manufacturer's warranty for both repairs/replacements due to any faults in the material and workmanship [Total System Responsibility]. Any leak repairs/replacement due to normal wear and tear, membrane defects, workmanship defects, damage due to wind speeds as noted [10 meters above ground], shall be performed at no charge to the owner through the period of the warranty.
 - 1. Shingles: Furnish a 15 year, 110 miles per hour wind warranty, 15-year algae resistance warranty, [50] fifty-year manufacturer's defects warranty with a prorated 10-year labor and material replacement warranty.
 - 2. Protective Membrane: Furnish a [30] thirty year prorated waterproof warranty.
 - 3. Vents: Lifetime warranty.

1.6 MEETINGS/COORDINATION

- A. A pre-installation conference one week prior to commencing work of this section will be mandatory. All parties responsible for work in this section are required to attend.
- B. Progress meetings will be held during construction. Memos resulting from these meetings will be provided to the Owner and Contractor by owner's rep.
- C. Daily reporting by the Contractor is required.
 - 1. Contractor to email project team daily with outline summary of work accomplished, any problems encountered such as bad deck, etc.
 - 2. Contractor to email project team on days when weather prohibits work to indicate a 'weather day'

PART 2 PRODUCTS

2.1 ASPHALT SHINGLES

- A. ASTM D 3462, CertainTeed SAINT-GOBAIN, Landmark PRO, Dimensional, two-piece laminated fiber glass construction, UL class A rating, 240 -267 pounds per square, self-sealing type, class F, algae resistance, wind rated and a manufactures defects and replacement warranty. Color to be selected by Owner from full range of colors.
 - 1. All shingles shall be from the same dye lot.

2.2 FASTENERS

- A. General: Fasteners/Anchors: strength, type and configuration must meet the required pull test resistance for each attachment application. Fasteners rate and pattern must be FMG or local code approved to meet the intent of the wind uplift rating specified. The contractor shall determine fastener lengths, minimum embedment: steel-3/4 inch, concrete/concrete block-1 1/4 inch, gypsum 2 inches and wood blocking 1 1/4 inch [decking 3/4 inch]. All fasteners shall be corrosion resistant steel in accordance with meeting ASTM F1667 [2015].

2.3 ACCESSORIES

- A. Cap Nails for Underlayment: Simplex, Plex-Cap, length as required to penetration wood decking 3/4 inch.
- B. Nails for shingles: Round wire type, corrosion resistant, 3/8-inch minimum diameter head, 11- or 12-gauge shank, length as required to penetration wood decking 3/4 inch [use longer nails for attachment of ridge vent, when required].
- C. Ridge Vents: CertainTeed filtered ridge vent, shingle-over vent, 9 Inches or 12 inches wide, polypropylene construction, internal baffles to deflect wind and drainage system, weep holes, 9 square inches of net free venting per linear foot, color black.

- D. Roof [static vents]: Lomanco, 750 series, slant back, weather tight sealed collar, pre-finished aluminum, size as required. Color to closely match shingle color.
- E. Pipe Boots: Manning Building Products 'Perma-boot or Protech Specialty Products , pipe boot.
- F. Plastic Cement: ASTM D4586, Asphalt type with mineral fiber components, free of toxic solvents, capable of setting within 24 hours at temperatures of 75 degrees F and 50 percent RH.
- G. Lap Cement: Fibrated cutback asphalt type, recommended for use in application of underlayment, free of toxic solvents.
- H. Flashing Materials:
 - 1. Sheet Flashings: As specified in Section 07 62 00.
 - 2. Gutters and Downspouts: As specified on Section 07 71 23.
- I. Base Flashing: 24 gauge galvanized steel, 4 inch roof / vertical flange, 7 inch long.

2.4 SHINGLE UNDERLAYMENT/RUBBERIZED ASPHALT PROTECTIVE MEMBRANE

- A. Ice and Water Shield: ASTM D 1970, Certainteed WinterGuard or Equal, 40 mil thick self-adhering membrane with strippable release paper, homogeneous rubberized asphalt waterproofing compound, fiberglass reinforced, skid resistant sand / granular surface, self sealing
- B. Synthetic Underlayment: ASTM D-828; Synthetic high strength woven roof underlayment; 100% polypropylene fabrication; CertainTeed Roof Runner or Equal.
 - 1. Install and secure using the pre-printed nailing pattern for increased wind resistance.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify all existing and newly replaced wood decks are level and smooth after existing roof system, underlayment, and deteriorated decking is removed. Verify deck surfaces are dry, free of ridges, warps, or voids.
- B. Remove and replace deteriorated wood decking [deteriorated framing/conditions allowance].
- C. Verify roof penetrations and plumbing stacks are in place and flashed to deck surface.
- D. Verify roof openings are correctly framed.

3.2 PREPARATION

- A. Fill knot holes and surface cracks with latex filler at areas of eave and valley protection membrane. Cover knot holes with sheet metal.
- B. Broom clean deck surfaces under ice dam membrane and underlayment.
- C. Ensure penetrations are correctly framed.
- D. Fill all holes in areas where eave/valley protection membrane is being installed.
- E. Replace any deteriorated wood decking.

3.3 SHINGLE UNDERLAYMENT AND ICE AND WATER SHIELD MEMBRANE

- A. Ice and Water Shield Membrane Installation:
 - 1. Install ice and water shield membrane parallel with eave edge, flush with face of eave edge flashing with edges lapped shingle style and ends lapped and staggered between rows. Unroll underlayment parallel to the eave. Install over the drip edge at the eave flashing and under the rake edge flashing. Install underlayment in accordance with manufacturer's instructions without distortions capable of preventing shingles from sealing.

2. Weather lap joints minimum 2 inches at side laps and 6 inches at end laps.
 3. Secure underlayment in place with fasteners at the perimeter of the roll and in field of roll per manufacturer installation instructions.
 4. Install self-adhered protective ice and water shield membrane / underlayment at the following areas / conditions with careful detailing: Eaves, intersections of roof-wall [1 full sheet], rake / roof edges [1 full sheet], and valleys [1 full sheet centered in valley].
- B. Synthetic Underlayment Installation:
1. Install synthetic underlayment parallel to the eave edge with edges lapped shingle style and ends lapped and staggered between rows. Install underlayment in accordance with manufacturer's instructions without distortions capable of preventing shingles from sealing.
 2. Weather lap joints a minimum of 3 inches at side laps and 6 inches at end laps.
 3. Weather lap and seal items projecting through or mounted on roof watertight with plastic cement.
 4. Secure underlayment in place with fasteners at the perimeter of the roll and in field of roll per manufacturer installation instructions.
 5. Install synthetic roof underlayment at all roof areas which do not receive ice and water shield.
- C. Synthetic Underlayment Installation for roof slopes between 2:12 and 4:12
1. Install [2] layer application in accordance with the manufacturer's installation instructions for low slope applications.

3.4 ACCESSORIES INSTALLATION

General, all accessories shall be installed in accordance with manufacturer's written guidelines with installation summary as outlined herein.

- A. Ridge Vents shall be installed on ridges as where shown. After the underlayment is installed. Cut roof deck on both sides of the ridge. Center ridge vent over opening and nail in place. Install ridge shingles with nails long enough to penetrate the deck 1 inch.
- B. Intake Vents shall be installed on the lower section of the roof just above the eaves as shown. After the underlayment is installed, cut a slot thru the decking to allow for the venting. Center the vent over the opening and nail in place. Install new underlayment over the vent, over the underlayment install the starter shingles. Nail pattern may be deviated to avoid nailing into the slot.
- C. Static Box Vents to be located as shown and evenly spaced. Center the vent between rafters and approx. 24 inches down from the ridge. Saw out the deck where the vent is being installed. If the shingles have been installed, remove the nails so the flashing flange of the vent will slide under the shingles with the embossed arrow pointing up centered over opening. Once the throat of the vent is aligned, apply roof cement to the bottom of the vent. Seven nails are required to fasten the vent keeping the nail heads under shingles where possible or applying roof cement to exposed nail heads in accordance with manufacturer's recommendations.
- D. Metal Flashing and Accessories Installation:
1. Flashings shall be provided at the intersection of the roofs, adjoining walls, or projections through the deck.
 2. Shingle base flashing shall be installed in accordance with SMACNA Fig. 4-22A recommendations.
 3. Counter-flashing shall be surface mounted attached with wood fasteners as applicable fitted with EPDM washer at 12 inches on center with minimum of 1 inch embedment. Apply bead of sealant on the top of the flashing. Counter flashing shall overlap base flashing sheet metal a minimum of 3 inches and shall terminate no lower than 4 inches above the finished roof surface, unless approved by the manufacturer.
 4. Weather lap joints minimum 2 inches and seal weather tight with plastic cement.

5. Secure in place with nails. Conceal fastenings.
6. Flash and seal Work weather tight, projecting through or mounted on roofing with plastic cement.

3.5 SHINGLE APPLICATION

General, all shingles shall be installed in accordance with manufactures written guidelines.

- A. Apply starter strips at eaves. Starter strips shall consist of one layer of strip shingles laid with cutouts reversed. Project strip 1/2 inch beyond eaves line to form a drip overlap. Fasten strip in place within row of nails 1 inch above lower edge and spaced 3 inches on center. Lay first course of shingles directly on top of starter strip, flush with drip edge. Succeeding courses shall have chalk lines snapped as required for proper alignment. Nail 1 inch from each end of the shingle and 12 inches from each end, **6 nails per shingle**. All 6 nails must be placed on a white line 5-5/8 above the butt edge of the shingle. A cutout must never overlap another cutout in the below course. Firmly press each tab into the factory applied sealant. If the sealant appears not to be adhering the shingle apply new sealant.
- B. Ridges shall be 3-tab shingles cut in three sections or ridge shingles. Bend shingle at center, nail in place using 2 nails each located 4-1/2 inches from the exposed butt end and 1 inch from the side edge. Place to avoid exposed nails, all exposed nails shall have roof cement applied over nail heads. Use nails long enough to penetrate thru both layers of shingles and into wood 3/4 inch. Shingles installed over ridge vents shall have nails long enough to penetrate shingle all layers and into decking 1 inch.
- C. Valleys shall be the closed cut type [no metal], Install full length [course] shingles 12 inches beyond the valley center, nail shingles in place avoiding nails 6 inches from the center of valley. Chalk a line in the valley center, then cut shingles along chalk line using a sheet metal under shingles avoiding cut thru shingles below. Trim corners of each shingles at a 45-degree angle and apply sealant under shingles on both sides of the valley and any other area requiring sealant. Follow printed manufacturers installation instructions.

3.6 CLEAN UP

- A. Clean up all debris resulting from each day's work.

END OF SECTION

THIS SHEET LEFT INTENTIONALLY BLANK

SECTION 07 46 00 – VINYL SIDING

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes vinyl lap siding, soffits, composite trim, flashings, accessories, and fastenings.

1.2 SUBMITTALS

- A. Product Data: Submit data indicating materials, component profiles, fastening methods, jointing details, sizes, surface texture, finishes, and accessories.
- B. Samples: Submit two samples illustrating surface texture and color.

1.3 PERFORMANCE REQUIREMENTS

- A. PVC Fire Resistance: Provide vinyl siding products that meet or exceed the following ratings:
 - 1. Flame spread index 20, fuel contribution 0, smoke development rating 360, per ASTM E 84.
 - 2. Self-ignition temperature: 824 degrees F per ASTM D 1929.
 - 3. Fire endurance classification of 1 hour, per ASTM E 119 as wall assembly.
- B. Siding: TPO Fire Resistance: Provide thermoplastic polyolefin siding products that meet or exceed the following ratings:
 - 1. Minimum self-ignition temperature of 650 degrees F per ASTM D 1929.
 - 2. Smoke density rating of 40, per ASTM D 2843.

1.4 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.5 WARRANTY

- A. Furnish lifetime limited manufacturer warranty for prefinished siding products.

PART 2 PRODUCTS

2.1 SIDING

- A. Manufacturers:
 - 1. Westlake Royal Building Products, Exterior Portfolio, [basis of design]
 - 2. Certainteed, Siding Products Group.
 - 3. Alcoa Building Products.
 - 4. Mastic Home Exteriors
- B. Product Description: Furnish vinyl lap siding and trim components.

2.2 COMPONENTS

- A. Vinyl Siding Components: Extruded polyvinyl chloride; comply with requirements of ASTM D3679.
 - 1. Provide elongated nailing slots on nailing flanges to allow for movement.
 - 2. Factory-notch ends of horizontal panels to form overlapping joints.
 - 3. Provide products that meet weathering requirements of ASTM D3679.

2.3 VINYL SHAKE SIDING

- A. Portsmouth Shakes and Shingles EP: D5 Cedar Shingles

2.4 VINYL HALF ROUNDS

- A. Portsmouth Shakes and Shingles EP: Half Rounds

2.5 VINYL SOFFITS

- A. Soffits: Polyvinyl Chloride: PVC compound with cell classification of 13344-B, as defined by ASTM D 4216, meeting or exceeding the following properties:
 - 1. Provide elongated nailing slots on nailing flanges to allow for movement.
 - 2. Factory-notch ends of horizontal panels to form overlapping joints.
 - 3. Provide products that meet weathering requirements of ASTM D 4477.
- B. Triple 4" soffit, fully vented, Triple 4 Traditional Soffit, Vented
 - 1. Design: Triple 4 inches fully vented.
 - 2. Width: 12 inches plus or minus .062 inch.
 - 3. Length: 12 feet plus or minus) .025 inch.
 - 4. Average Thickness: 0.040 inch.
 - 5. Exposure: 12 inches single nailing hem.
 - 6. Panel Projection: 1/2 inch.
 - 7. Maximum Warp (per 2 panels): 0.250 inch.
 - 8. Ventilation: 10.0 sq. inches per sq. ft.
- C. Soffit Accessories:
 - 1. J-Channel: 3/8 inch (10 mm) by 12 feet, 6 inch length, for vertical and eave applications.
 - 2. F-Channel: 5/8 inch (15.88 mm) and 3/4 inch by 12 feet 6 inches (3.81 m) length.
 - 3. Soffit Double Channel Lineal: 3/8 inch or 1/2 inch by 12 feet, 6 inches length, for eave applications.
 - 4. Soffit Cove Trim: 1/2 inch by 12 feet, 6 inches length.
 - 5. Color: Match soffit color.

2.6 ACCESSORIES

- A. Provide all related accessories, trim, etc. for a complete installation.
- B. Nails: Hot dipped galvanized type, non-staining, for concealed installation.
 - 1. Vinyl Siding Nails: Minimum 0.313 inch diameter head and 0.125 inch shank diameter; length required to penetrate support minimum 0.75 inch.
- C. Building Paper: Spun bonded polyolefin sheeting, Tyvek or Equal.
- D. Flashings: 26 gauge thick metal to match siding.
- E. Accessory Components:
 - 1. Vinyl starter strips, J-mold, F-mold, interior and exterior corner posts, and related trim profiles; of same material and finish as siding/soffits.

PART 3 EXECUTION

3.1 PREPARATION

- A. Verify framing conditions are within allowable tolerances without twists, bows, waves, etc.

3.2 INSTALLATION

- A. Install vinyl siding in accordance with ASTM D4756 and manufacturer's instructions.
- B. Install all required supplemental blocking and furring as required to allow installation as scheduled.
- C. Nail vinyl siding into solid backing per manufacturer's requirements.
 - 1. Nail to aligned pattern.
- D. Align level, and plumb.

- E. Install metal flashings at areas required by siding manufacturer.
- F. Install corner strips, closures, trim.
- G. Install sealant as applicable to prevent weather penetration. Maintain neat appearance.
- H. Install flashing around openings, etc.

END OF SECTION

THIS SHEET LEFT INTENTIONALLY BLANK

SECTIONS 07 62 00/07 71 00 - SHEET METAL, FLASHING

PART 1 GENERAL

1.1 WORK INCLUDES BUT NOT LIMITED TO:

General: Intent of project is to provide new sheet metal components for the new roof systems and related fascia / rake components.

- A. Removal of existing sheet metal items as noted and in the preparation of reroofing section.
- B. Installation of new sheet metal items:
 - 1. Drip edges [face less than 3 ½ inches, non-wind rated]
 - 2. Fascia and rake metal covers.
 - 3. Fasteners.
 - 4. Bib flashing, counter flashing and other sheet metal items.
 - 5. Gutters and downspouts.

1.2 APPLICABLE REFERENCES

- A. General: The following references form a part of this specification.
 - 1. ASTM A653 Metallic Coated, Sheet Steel [Galvanized], Grade A, Hot Dipped, Zinc Coated, Coating Class G90.
 - 2. ASTM A792, Metallic Coated, Sheet Steel [Galvalume and Galvalume plus], Grade 40, Coating Class A250 [galvalume] or AZ55 [galvalume plus], 55 % Aluminum-45 % Zinc Alloy.
 - 3. ASTM A755, Pre-Finished, Sheet Steel [Galvanized/galvalume], Grade 40, Coating Class A250 or G90, Pre-painted by the coil coating process.
 - 4. ASTM B209, Aluminum.
 - 5. ASTM E108 Fire Test of Roof Coverings.
 - 6. [FMG] Factory Mutual Global - Current Approval System [NAV assembly numbers], Loss Prevention Data Sheets for Roof Deck Securement for Above Deck Roof Components, Perimeter Flashings, Wind Design-ANSI/FM 4474, Approval Standard FM 4470 and Roof Loads for Construction
 - 7. [UL] Underwriters Laboratories - Roofing Materials and Systems Directory, Fire Resistance Directory, Current Edition.
 - 8. [NRCA] National Roofing Contractors Association - Current Roofing and Waterproofing Manual, including shop-fabricated edge metal testing data.
 - 9. [AISC] Manual of Steel Construction
 - 10. [SMACNA] Sheet Metal and Air Conditioning Contractors Association-Current Manual
 - 11. [OSHA] Occupational Safety and Health Administration, Guidelines
 - 12. [ASCE] 7-10 Minimum Design Loads for Buildings
 - 13. [ANSI/SPRI/FM] 4435 standard ES-1-17 Wind Design for Edge Systems
 - 14. [NFPA] National Fire Protection Association, 58 Liquefied Petroleum Gas Code
 - 15. [ANSI/SPRI] WD-1 Wind Design Standards

1.3 QUALITY ASSURANCE

- A. Fabricator/Installer: Company specializing with skilled workers in sheet metal with minimum 5 years documented experience, never been terminated by a manufacturer for workmanship problems and be capable of providing the warranties as specified.
- B. Sheet Metal items and installation shall comply with SMACNA's [Architectural Sheet Metal] and NRCA [Roofing] current manuals.

1.4 COORDINATION

- A. Coordinate sheet metal flashing, trim layout installation with adjoining roofing to provide a leakproof, secure, non-corrosive installation.

1.5 PERFORMANCE REQUIREMENTS

- A. Fire Hazard Classification: Underwriters Laboratories [UL], Use only Class A fire-rated materials as tested in accordance with ASTM E 108 or UL 790 for exterior fire.
- B. Install sheet metal items to withstand wind loads, structural movement, by preventing buckling, opening of joints, hole elongation, failure of joint sealant, failure of connections and other detrimental effects.
- C. All perimeter metal items [copings and edges] must have been tested to resist equal or greater wind design load.

1.6 DELIVERY, STORAGE and HANDLING

- A. Do not overload structure with storage of materials; verify roof deck weight capacity and location of structural supports, only items needed that day shall be stored on the roof. Limit loads on roof to 25 pounds per square foot for uniformly distributed loads for wood decks. Store and protect products in accordance with manufacturer's instructions.
- B. Deliver products in manufacturer's original containers, dry, undamaged, with seals and labels intact. Protect sheet metal items during transportation and handling.
- C. Store products in weather-protected environment [manufacturer's plastic wrap is accepted for proper protection, unless wrap is broken, torn, removed], clear of ground 4 inches minimum and exposure from direct sunlight. Use breathable tarps for moisture protection as needed. Damaged materials will be marked 'rejected' by the contractor/owner or Owner's rep. and removed from the site.
- D. Storage of flammable liquids in buildings is prohibited. All combustible debris shall be removed from the site daily.

1.7 WEATHER CONDITIONS

- A. Do not apply materials during inclement weather, high winds or when the chance of rain is 60% or greater, percentage as listed on [www: weather.com](http://www.weather.com) for the local area, percentage as listed when read at 7 AM local time or at time of work commencement.

1.8 SEQUENCING and SCHEDULING

- A. Building space underneath roof work is utilized by on-going operations. Coordinate all work with Owner including, material storage, scaffolding [as required] and contractor parking. Owner's approval required before proceeding with the work. **Contractor must provide overhead protection for owner's workers from falling materials/debris at building entry points.**

1.9 MANUFACTURERS WARRANTIES

- A. Provide a manufacturer's warranty for both repairs/replacements due to any faults in the material and workmanship. Any repairs/replacement due to normal wear and tear, material finish defects and workmanship defects. Warranty shall cover finish fading, chalking, cracking, peeling or failure of paint to adhere to base metal.
 - 1. Sheet metal items shall be warranted watertight for [20] twenty years by the roof membrane manufacturer.
 - 2. Sheet metal manufacturer of record must provide a [20] twenty-year finish warranty for the metal fascia, coping and edge as outlined herein, covering, finish and base metal. Warranty shall be a lifetime warranty for defects of material or failure to resist wind speeds.
 - 3. Sheet metal coping and roof edges that terminate or attach into the roof membrane shall be warranted for winds up to 72 MPH by the roof membrane manufacturer [part of the warranty]. Pre-manufactured items regardless of their location must be warranted by the

metal manufacturer for winds to meet or exceed 120 mph [90 mph edges] and also be certified to meet or exceed the design pressure and other requirements as stated herein.

- B. In the event of a default by the contractor, the manufacturer will provide a new contractor to fulfill the warranty obligation.

1.10 PORTABLE FIRE EXTINGUISHERS

- A. Two standard listed multipurpose dry chemical fire extinguisher, NFPA 10, with 10-pound capacity, 4A-60B:C UL rating shall be provided and located near the work area. Additional fire extinguishers shall be provided for different roof levels/work sites.
1. Contractor to ensure all personnel are trained to use fire extinguishers.

1.11 DEFINITIONS

- A. Shop fabricated includes items that will be formed at the fabricators shop predominately by press brake. Prefabricated or manufactured items will be plant manufactured ready for installation. Both items must be wind rated in compliance with ANSI/SPRI/FM ES-1-17

PART 2 PRODUCTS

General: All products shall be state approved and Building Code approved as applicable. Some items below may not be required for this project, but are outlined herein if required during course of work due to changing conditions or changes in scope.

2.1 FABRICATION

- A. Fabricate sheet metal items to comply with recommendations in SMACNA [architectural Sheet metal manual] and NRCA [NRCA roofing manual]. Conceal fasteners and expansion provisions where possible on exposed to view items. Provide expansion provisions as recommended where lapped or bayonet type expansion cannot be used.

2.2 FASTENERS/SPECIALTY ITEMS

General: Fasteners/Anchors: strength, type and configuration must meet the required pull test resistance for each attachment application. Fasteners rate and pattern must be FMG or local code approved to meet the intent of the wind uplift rating specified. The contractor shall determine fastener lengths, minimum embedment: steel 3/4-inch, concrete/concrete block-1 ¼ inch, and wood-1 1/4 inch. Fastener manufacturers listed are ITW Buildex, IWT Red Head and Tru-Fast or equal. All fasteners shall be corrosion resistant steel in accordance with meeting ASTM F1667 or type 304 stainless. *Wind rated copings and edges required - see details for selection of item.*

A. Summary of fasteners and requirements are as follows:

1. Metal Counterflashing and other LG metal sheets to Wood, ITW Buildex, 'Scots Tek's' [AB point] stainless steel-hex head, ¼ inch, corrosion resistance steel shank with EPDM washer.
2. Metal Counterflashing and Other LG Sheet Metal [exposed] to Masonry, ITW Red Head, 1/4 inch, 'Scots Tapcon', stainless steel-hex head, HL treads, corrosion resistant steel shank, with EPDM washer.
3. Termination Bars [exposed] to Masonry, ITW Red Head, ¼ inch, 'Scots Tapcon', stainless steel-hex head, HL treads, corrosion resistant steel shank, with EPDM washer.
4. General Purpose Stainless Steel: Series 304 fasteners, with or w/out EPDM washers.

B. Summary of specialty items and requirements as follows:

1. Continuous Cleats: Galvanized steel, 22 gauge.
2. Counter-flashing: Pre-finished, 24 gauge metal, fabricated in lengths maximum 12 feet, designed to be removable. CF to be notched and lapped at inside corners and joints. Flashings shall be provided at the intersection of the roofs, adjoining walls or projections through the deck [chimney/ vent stacks etc.].

3. Fascia / Rake Cover: .032 inch thick pre-finished aluminum, brake formed to profiles required.
4. Downspouts: .024 inch thick pre-finished aluminum, corrugated rectangular profile with smooth with flat lock seams, complete with mitered elbows, size 2 x 3 inches, unless otherwise noted.
5. Gutter: Pre-finished, .032 inch thick pre-finished aluminum, K style profile, continuous, straight back, size 6 inch x 4 1/2 inch, with gutter spacers, spaced at 24 inches on center. Complete with end pieces, outlet tubes and other items required. Fabricate expansion joints, expansion joint covers with same metal as the gutter. Longest length possible, 50 foot maximum, between expansion butt joints. SMACNA Figre 1-6 Lap Type
6. Gutter Guards: Perforated aluminum sheet 0.027 inch thickness, with baked enamel finish. Fabricated to fit into front of gutter and slip under first row of shingles. Secure to top edge of gutter. 4'-0" long sections. Color selected by Architect. Leaf Relief TP300 or Equal.
7. Splash guard: Pre-finished aluminum valley splash guards, standard size and type. Locate at all internal corners along the terminate of valleys at the gutter.
8. Downspout Hangers: 1/16-inch-thick aluminum. Straps with hidden anchors
9. Drip Edge at Shingle Roof Systems: .024 inch thick prefinished aluminum
10. Step Flashing, Sheet Metal: 24 gauge pre-finished galvanized metal as shown.

2.3 SHEET METAL

General: Roof membrane manufacturer supplied and approved components [copings/fascia edges - if required/shown] must be used, these sheet metal components must be pre-manufactured and be tested and approved in accordance with ANSI/SPRI/FM ES-1 test method, FM Class Number 4435 approved standard and must be included into the roof warranty. Fabricated by Metal Panel System, Architectural Products, Metal Era, Pac-Clad Peterson, Unac-Clad, Drexel Metals or Dimensional Metals, etc., *[Drip edge/gravel stop edge - roof penetrating flange type, may be pre-manufactured or shop fabricated, the metal manufacturer may allow the contractor to use their metal/materials/installation methods and shop fabricate and install the items in accordance with their wind rated ES-1 and FM 4435 standard approved tested drip/gravel stop edge rated requirements, only will be accepted if the metal manufacturer and/or the contractor is a certified ES-1 sheet metal shop and will provide/support the wind and finish warranties as outline herein and meet RDA design requirements].*

All other metal shall be shop fabricated in accordance with SMACNA 6th Edition or other details or pre-manufactured as shown. All pre-finished metal shall be fabricated using aluminum unless not available. All metal components not incorporated into the roof system and is not outlined herein or shown on the drawings shall be fabricated with .032 prefinished aluminum otherwise directed by RDA.

- A. Pre-Finished Sheet Steel [Galvalume]: ASTM A792, grade 40, class A250, 24 or 22 gauge [as noted], primed and preprinted by coil coating, finished exposed to view side with a fluoropolymer Kynar 500 PVDF resin coating and a wash coat .5 mil thick applied to the reverse side, 20-year warranty covering fade, chalking and film integrity. Colors as selected by owner.
- B. Sheet Steel [Galvalume Plus]: ASTM A792, grade 40, 24 or 22 gauge [as noted], coating class AZ55, coated with an organic resin .012 to .090 inches thick, thermally cured. Finished on both sides with a fine sparkle appearance. 20-year warranty covering fade, chalking and film integrity. Colors as selected by owner.
- C. Pre-Finished Sheet Steel [Galvanized]: ASTM A755/A653, G90, 24 or 22 gauge [as noted], primed and preprinted by coil coating, finished exposed to view side with a fluoropolymer Kynar 500 PVDF resin coating and a wash coat .5 mil thick applied to the reverse side, 20-year warranty covering fade, chalking and film integrity. Colors as selected by owner.

- D. Pre-Finished Aluminum: ASTM B209, 3105 H15 alloy, thickness .032, .040 or .050 [or as noted], primed and repainted by the coil coating, finished exposed to view side with a fluoropolymer kynar 500 PVDF resin coating and a wash coat .5 mil thick applied to the reverse side, 20-year warranty covering fade, chalking and film integrity. Colors as selected by the owner.
- E. Galvanized Sheet Steel: ASTM A653, hot dipped, zinc-coated, G90, gauges as shown.

2.4 SEALANTS/TAPES

General: Provide joint sealants, backings and other materials as required to seal joint that are compatible with each other based on test and field experience.

- A. ASTM C920, Type S, Grade NS, Class 25 as required for each joint condition, single component, elastomeric silicone polymer, non-staining, non-shrinking, non-sagging and ultra-violet resistance, clear or to match surrounding existing color.
 - 1. Provide where sealant is exposed or movement exceeds butyl sealant capability.
- B. Gutter: GE Silicone II or equal, Clear in color.
- C. Butyl Sealant: ASTM C1311, single component, solvent released butyl rubber sealant, polyisobutylene plasticized.
- D. Sealing Tape: Pressure-sensitive, 100 percent solids, polyisobutylene compound sealing tape with release paper.

PART 3 EXECUTION

3.1 EXAMINATION AND CONDITIONS

- A. Verify that surfaces and site conditions are ready to receive work.

3.2 PROTECTION

- A. Protect building surfaces/interior spaces against damage from work.
- B. Provide, erect barricades, guardrails as required by applicable regulatory advisory to protect occupants of building and workers.

3.3 INSTALLATION OF SHEET METAL AND SPECIALTY ITEMS

General: Sheet metal items shall be installed in accordance with manufacturers and NRCA's/SMACNA recommendations and details from their current manual. Anchor sheet metal items securely in place with provisions for expansion. Use items as required to complete the sheet metal or drainage system. Where dissimilar metals contact each other, protect against galvanic action by coating material as recommended by the fabricator. Seal joints with sealant as required for a watertight condition.

- A. Continuous cleat [for non-pre-manufactured metal components]: Cleats shall not exceed 12 feet in length; allow a ¼ inch gap between pieces. Fasten cleat to wood nailer top as applicable at 4 inches on center [staggered pattern-1 inch from edge] with corrosion resistant annular threaded nails [3/16-inch head], long enough to penetrate the wood 1 ¼ inch.
- B. Termination bars shall be placed no more than 1 1/2 inches down from top of base flashing and be fastened at 6 inches on center with concrete self-tapping [tapcon] or wood fasteners, as applicable fitted with an EPDM washer. Provide sealant at top edge of bars.
- C. Counter-flashing [CF] shall be surfaced mounted [SM] or in existing or new riglets/receivers with lap joints 4 inches. Attach SM with concrete self-tapping [tapcon] or wood fasteners, as applicable fitted with an EPDM washer at 12 inches on center, 1-inch minimum embedment. Attach riglets installed CF with components recommended by the manufacturer, including metal wedges and edge crimping. Apply a bead of sealant on the top of 45% angle lip of the metal flashing, if SM type. CF shall overlap base flashing a minimum of three inches, fit tightly

to base flashing and shall terminate no lower than 4 inch above finished roof surface, unless approved by the manufacturer.

- D. Wind Rated pre-manufactured ES-1 approved coping sections shall be jointed together with a butt type joint with 8-inch-wide concealed splice located underneath the 10 to 12-foot-long panels, which must allow to expand and contract freely while locked in place. Provide factory-fabricated corners, intersections and ends. Coping metal anchor clips to be anchored to wood nailer or surface material at splice joints and within the coping panel [approx. every three feet on center-2 feet in corners.] or coping that is installed using continuous cleats on both sides shall have cleats anchored on top of nailer at 12 inches on center. Provide self-adhered or adhered 60 mil thick EPDM or TPO or PVC over nailers/substrate to allow moisture to drain off edges without moisture to enter wall under coping cap [provide non-curing dual sealant strips on each side of splice plates]. Both methods shall use stainless steel fasteners or other fasteners to meet the wind resistance rating pressures as shown and as recommended by coping manufacturer **print approvals**. Coping shall have a 4-inch vertical end flange where terminating into wall, counter-flash flanges.
- E. Wind Rated ES-1 approved continuous cleated drip edge/gravel stop shall have the cleat face anchored into the nailer face at 12 inches on center. Space cleats as outlined by the metal manufacturer. The exposed to view metal edge to be cleated and fastened on top of the nailer at 6 inches on center. Strip-in flange with membrane over the top of the fastened roof flange. Edge face shall be a single piece extending down to overlap and cover nailers and down exterior wall. Follow manufacturer installation instructions.
- F. Downspouts shall be attached to the gutter with screws. Ensure downspout sections are attached to the wall with 1 1/2-inch-wide, .063-inch-thick aluminum straps [2 per 10 foot section] - Fig 1-35G SMACNA 6th Edition, using 2 fasteners per strap [provide if none exist]. Downspouts terminating at ground or roof shall be provided with an elbow fitting and a concrete splash block [provide a roof membrane sheet under blocks that terminate on the roof]. If existing receivers are available downspouts shall be inserted into receives, provide size and shape adapters as necessary.
- G. Gutter to be attached to fascia / substrate at 24 inches on center thru spacers/gutter back. Screws to penetrate wood 1 1/4 inch. Provide mitered corners, end caps, splash guards and other items required. Drip edge shall extend into gutter 2-3 inches.

3.4 INSTALLATION

- A. Comply with SMACNA's "Architectural Sheet Metal Manual." Allow for thermal expansion; set true to line and level. Install Work with laps, joints, and seams permanently watertight and weatherproof; conceal fasteners where possible.
 - 1. Roof-Edge Flashings: Secure metal flashings at roof edges according to FM Loss Prevention Data Sheet 1-49 for specified wind zone.
- B. Sealed Joints: Form non-expansion, but movable, joints in metal to accommodate elastomeric sealant to comply with SMACNA standards.
- C. Fabricate nonmoving seams in sheet metal with flat-lock seams. For metals other than aluminum, tin edges to be seamed, form seams, and solder.
- D. Separations: Separate non-compatible metals or corrosive substrates with a coating of asphalt mastic or other permanent separation.
- E. Install gutters in one continuous sections sloped at 1/4" - 1/2" every 20'-0" maximum. Anchor gutters to building using concealed gutter hanger brackets at 24" on center typical screwed directly into fascia/building structure. Attach aluminum gutters to fascia between 1/2" and 1" below drip edge of shingle. Shingle should extend 1" over gutter.
 - 1. Install gutter expansion joints at maximum of 50' intervals.

- F. Sheet Metal: Join lengths with formed seams sealed watertight. Flash and seal gutters to downspouts and accessories.
- G. Direct downspout to discharge to existing underground storm drain piping or to new precast concrete splashblock.

3.5 CLEANING

- A. In areas where finished surfaces are soiled by any other source of soiling caused by work of this section, consult manufacturer for cleaning advice.

END OF SECTION

THIS SHEET LEFT INTENTIONALLY BLANK

SECTION 07 84 00 - FIRESTOPPING

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Firestopping through-penetrations of fire rated assemblies.
 - 2. Firestopping joints in fire rated assemblies.
 - 3. Firestopping tops of fire rated walls.
 - 4. Smoke sealing at joints between floor slabs and exterior walls.
 - 5. Smoke sealing penetrations and joints of smoke partitions.

1.2 REFERENCES

- A. ASTM International:
 - 1. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
 - 2. ASTM E119 - Standard Test Methods for Fire Tests of Building Construction and Materials.
 - 3. ASTM E814 - Standard Test Method for Fire Tests of Through-Penetration Fire Stops.
 - 4. ASTM E1966 - Standard Test Method for Fire-Resistive Joint Systems.
- B. Forest Stewardship Council:
 - 1. FSC Guidelines - Forest Stewardship Council Guidelines.
- C. Intertek Testing Services (Warnock Hersey Listed):
 - 1. WH - Certification Listings.
- D. South Coast Air Quality Management District:
 - 1. SCAQMD Rule 1168 - Adhesive and Sealant Applications.
- E. Underwriters Laboratories Inc.:
 - 1. UL 263 - Fire Tests of Building Construction and Materials.
 - 2. UL 1479 - Fire Tests of Through-Penetration Firestops.
 - 3. UL 2079 - Tests for Fire Resistance of Building Joint Systems.
 - 4. UL - Fire Resistance Directory.

1.3 DEFINITIONS

- A. Firestopping (Through-Penetration Protection System): Sealing or stuffing material or assembly placed in spaces between and penetrations through building materials to arrest movement of fire, smoke, heat, and hot gases through fire rated construction.

1.4 PERFORMANCE REQUIREMENTS

- A. Conform to UL for fire resistance ratings and surface burning characteristics.

1.5 SUBMITTALS

- A. Product Data: Submit data on product characteristics, performance and limitation criteria.
- B. Manufacturer's Installation Instructions: Submit preparation and installation instructions.
- C. Manufacturer's Certificate: Certify products meet or exceed specified requirements and applicable code requirements.

1.6 QUALITY ASSURANCE

- A. Through Penetration Firestopping of Fire Rated Assemblies: UL 1479 or ASTM E814 with 0.10 inch water gage minimum positive pressure differential to achieve fire F-Ratings and temperature T-Ratings as indicated on Drawings, but not less than 1-hour.
 - 1. Floor / Wall Penetrations: Fire F-Ratings as indicated on Drawings, but not less than 1-hour.
- B. Through Penetration Firestopping of Non-Fire Rated Floor and Roof Assemblies: Materials to resist free passage of flame and products of combustion.
- C. Fire Resistant Joints in Fire Rated Floor, Roof, and Wall Assemblies: ASTM E1966 or UL 2079 to achieve fire resistant rating as indicated on Drawings for assembly in which joint is installed.
- D. Surface Burning Characteristics: Maximum 25/450 flame spread/smoke developed index when tested in accordance with ASTM E84.

1.7 ENVIRONMENTAL REQUIREMENTS

- A. Maintain this minimum temperature before, during, and for minimum 3 days after installation of materials.
- B. Provide ventilation in areas to receive solvent cured materials.

PART 2 PRODUCTS

2.1 FIRESTOPPING

- A. Manufacturers:
 - 1. 3M Fire Protection Products
 - 2. United States Gypsum Co.
 - 3. Equal.
- B. Product Description: Different types of products by multiple manufacturers are acceptable as required to meet specified system description and performance requirements; provide only one type for each similar application.
 - 1. Silicone Firestopping Elastomeric Firestopping: Single component silicone elastomeric compound and compatible silicone sealant.
 - a. Interior Sealants and Sealant Primers: Maximum volatile organic compound content in accordance with SCAQMD Rule 1168.
 - 2. Foam Firestopping Compounds: Single component foam compound.
 - 3. Fiber Stuffing and Sealant Firestopping: Composite of mineral fiber stuffing insulation with silicone elastomer for smoke stopping.
 - 4. Intumescent Firestopping: Intumescent putty compound which expands on exposure to surface heat gain.

2.2 ACCESSORIES

- A. Primer: Type recommended by firestopping manufacturer for specific substrate surfaces and suitable for required fire ratings.
- B. Installation Accessories: Provide clips, collars, fasteners, temporary stops or dams, and other devices required to position and retain materials in place.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify openings are ready to receive firestopping.

3.2 PREPARATION

- A. Clean substrate surfaces of dirt, dust, grease, oil, loose material, or other matter affecting bond of firestopping material.
- B. Remove incompatible materials affecting bond.
- C. Install backing materials to arrest liquid material leakage.

3.3 APPLICATION

- A. Install material at fire rated construction perimeters and openings containing penetrating sleeves, piping, ductwork, conduit and other items, requiring firestopping.
- B. Apply primer where recommended by manufacturer for type of firestopping material and substrate involved, and as required for compliance with required fire ratings.
- C. Apply firestopping material in sufficient thickness to achieve required fire and smoke rating to uniform density and texture.
- D. Place foamed material in layers to ensure homogenous density, filling cavities and spaces. Place sealant to completely seal junctions with adjacent dissimilar materials.

3.4 FIELD QUALITY CONTROL

- A. Inspect installed firestopping for compliance with specifications and submitted schedule.

3.5 PROTECTION OF INSTALLED CONSTRUCTION

- A. Protect adjacent surfaces from damage by material installation.

END OF SECTION

THIS SHEET LEFT INTENTIONALLY BLANK

SECTION 07 90 00 - JOINT PROTECTION

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes sealants and joint backing.

1.2 SUBMITTALS

- A. Product Data: Submit data indicating sealant chemical characteristics, performance criteria, substrate preparation, limitations, and color availability.

1.3 ENVIRONMENTAL REQUIREMENTS

- A. Maintain temperature and humidity recommended by sealant manufacturer during and after installation.

1.4 QUALITY ASSURANCE

- A. Sealant shall be installed by a qualified sealant applicator for any/all joint sealant exposed to view. Owner reserves the right to request a mockup of the quality for the joint sealant installation.

PART 2 PRODUCTS

2.1 JOINT SEALERS

- A. Manufacturers:
 - 1. Tremco [basis of design]
 - 2. Sika
 - 3. GE Silicones.
 - 4. Pecora Corp.
 - 5. DAP
- B. Compatibility: Provide joint sealants, backings, and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by sealant manufacturer, based on testing and field experience.
- C. Low-Emitting Interior Sealants: Sealants and sealant primers used inside the weatherproofing system shall comply with the testing and product requirements of the California Department of Health Services' "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers."
- D. Liquid-Applied Sealants: Comply with ASTM C920 and other requirements indicated for each liquid-applied chemically curing sealant specified, including those referencing ASTM C920 classifications for type, grade, class, and uses related to exposure and joint substrates.
- E. Suitability for Contact with Food: Where elastomeric sealants are indicated for joints that will come in repeated contact with food, provide products that comply with 21 CFR 177.2600.
- F. Additional Movement Capability: Where additional movement capability is specified, provide products with the capability, when tested for adhesion and cohesion under maximum cyclic movement per ASTM C719, to withstand the specified percentage change in the joint width existing at the time of installation and remain in compliance with other requirements of ASTM C920 for uses indicated.
- G. Colors of Exposed Joint Sealants: As selected by Architect from manufacturer's full range, unless otherwise noted.

2.2 SILICONE JOINT SEALANTS:

- A. **Type S-1:** Single component, nonsag, Silicone Joint Sealant: ASTM C920, Type S, Grade NS, Class 100/50, Use NT

1. Tremco Spectrem 1 or Spectrem 800 or Equal
- B. **Type S-2:** Single Component, nonsag, Silicone Joint Sealant: ASTM C920, Type S, Grade NS, Class 50, use NT
 1. Tremco Spectrem 2 or Spectrem 3 or Equal
- C. **Type S-3:** Multi-Component, Nonsag, Silicone Joint Sealant: ASTM C920, Type M, Grade NS, Class 50, Use NT
 1. Tremco Spectrem 4-TS or Equal
- D. **Type S-4:** Single Component, nonsag, Traffic-Grade, Silicone Joint Sealant: ASTM C920, Type S, Grade NS, Class 100/50, Use T
 1. Tremco Spectrem 800 or Equal
- E. **Type S-5:** Mildew Resistant, Single Component, Silicone Joint Sealant: ASTM C920, Type S, Grade NS, Class 25, Use NT
 1. Tremco Tremsil 200 Sanitary or Equal

2.3 URETHANE JOINT SEALANTS

- A. **Type U-1:** Single Component, nonsag, Urethane Joint Sealant: ASTM C920, Type S, Grade NS, Class 25 or 35, Use NT:
 1. Tremco Dymonic or Dymonic FC or Equal
- B. **Type U-2:** Single Component, nonsag, Traffic Grade, Urethane Joint Sealant: ASTM C920, Type S, Grade NS, Class 25, Use T.
 1. Tremco Vulkem 116 or Equal.
- C. **Type U-3:** Multi-Component, nonsag, Urethane Joint Sealant: ASTM C920, Type M, Grade NS, Class 25, Use T.
 1. Tremco Dymeric 240 or Dymeric 240 FC or Equal
- D. **Type U-4:** Multi-Component, nonsag, Urethane Joint Sealant: ASTM C920, Type M, Grade NS, Class 25, Use NT.
 1. Tremco Vulken 227 or Equal
- E. **Type U-5:** Multi-Component, nonsag, Traffic Grade, Urethane Joint Sealant: ASTM C920, Type M, Grade NS, Class 25, Use T.
 1. Tremco Vulken 227 or Equal

2.4 BUTYL JOINT SEALANTS

- A. **Type B-1:** Butyl Rubber based Joint Sealants: ASTM C 1311
 1. Tremco General Purpose Butyl Sealant or Equal

2.5 LATEX JOINT SEALANTS

- A. **Type L-1:** Latex Joint Sealant: Acrylic latex or Siliconized Acrylic Latex: ASTM C834, Type OP, Grade NF or better
 1. Tremco Tremflex 834 or Equal.
- B. **Type L-2:** Paintable Mildew-Resistant Latex Joint Sealant: Acrylic Latex or Siliconized Acrylic Latex: ASTM C834, Type OP, Grade NF or better.
 1. Tremco Tremflex 834 or Equal.

2.6 ACCESSORIES

- A. General: Provide sealant backings of material and type that are nonstaining; are compatible with joint substrates, sealants, primers, and other joint fillers; and are approved for applications indicated by sealant manufacturer based on field experience and laboratory testing.
- B. Cylindrical Sealant Backings: ASTM C1330, Type C (closed-cell material with a surface skin) as approved in writing by joint-sealant manufacturer for joint application indicated, and of size and

density to control sealant depth and otherwise contribute to producing optimum sealant performance:

1. Oversized to 30 to 50 percent larger than joint width.
- C. Elastomeric Tubing Sealant Backings: Neoprene, butyl, EPDM, or silicone tubing complying with ASTM D1056, nonabsorbent to water and gas, and capable of remaining resilient at temperatures down to minus 26 deg F. Provide products with low compression set and of size and shape to provide a secondary seal, to control sealant depth, and to otherwise contribute to optimum sealant performance.
- D. Bond-Breaker Tape: Polyethylene tape or other plastic tape recommended by sealant manufacturer for preventing sealant from adhering to rigid, inflexible joint-filler materials or joint surfaces at back of joint where such adhesion would result in sealant failure. Provide self-adhesive tape where applicable.
- E. Primer: Material recommended by joint-sealant manufacturer where required for adhesion of sealant to joint substrates indicated. Non-staining type, recommended by sealant manufacturer to suit application.
- F. Joint Cleaner: Non-corrosive and non-staining type, recommended by sealant manufacturer; compatible with joint forming materials.
- G. Bond Breaker: Pressure sensitive tape recommended by sealant manufacturer to suit application.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify substrate surfaces and joint openings are ready to receive work.
- B. Verify joint backing and release tapes are compatible with sealant.

3.2 PREPARATION

- A. Remove loose materials and foreign matter impairing adhesion of sealant.
- B. Clean and prime joints.
- C. Perform preparation in accordance with ASTM C1193.

3.3 INSTALLATION

- A. Perform installation in accordance with ASTM C1193.
- B. Measure joint dimensions and size joint backers to achieve width-to-depth ratio, neck dimension, and surface bond area as recommended by manufacturer.
- C. Install bond breaker where joint backing is not used.
- D. Install sealant free of air pockets, foreign embedded matter, ridges, and sags.**
- E. Apply sealant within recommended application temperature ranges. Consult manufacturer when sealant cannot be applied within these temperature ranges.
- F. Tool joints concave.

3.4 SCHEDULE

- A. Joint-Sealant Application: Exterior joints in vertical surfaces and non-traffic horizontal surfaces.
 1. Joint locations such as, but not limited to:
 - a. Construction joints in cast-in-place concrete.
 - b. Control joints in unit masonry.
 - 1) Provide joint sealants slightly darker than the adjacent masonry units. Provide multiple colors as may be required for match.

- c. Perimeter joints between masonry, concrete, or stone and frames of doors, windows, storefronts, louvers, and similar openings.
 - d. Lintels and shelf angles to masonry construction.
 - e. Butt joints between metal panels.
 - f. Control and expansion joints in ceiling/soffit and similar overhead surfaces.
 - g. Exterior joints between dissimilar materials where the joining of the two surfaces leaves a gap between the meeting materials or components as may be dictated by various methods of construction to make building watertight.
 - h. Other joints as indicated on Drawings.
 2. Provide one of the following acceptable sealants as approved by manufacturer for substrates and uses indicated: **Type S-1, Type S-2, Type S-3**
 3. Color: As selected by Architect from manufacturer's full range of colors.
- B. Joint-Sealant Application: Interior joints in horizontal traffic surfaces.
1. Joint locations such as, but not limited to:
 - a. Isolation joints in cast-in-place concrete slabs.
 - b. Perimeter of floor slabs or concrete curbs which abut vertical surfaces.
 - c. Areas around all piping systems that penetrate the slab or foundation walls below grade (utility trenches, electrical conduits, plumbing penetrations, etc.).
 - d. Control and expansion joints in tile flooring.
 - e. Other joints as indicated on Drawings.
 2. Provide one of the following acceptable sealants as approved by manufacturer for substrates and uses indicated: **Type S-4**
 3. Color: As selected by Architect from manufacturer's full range of colors.
- C. Joint-Sealant Application: Interior joints in vertical surfaces and horizontal non-traffic surfaces, subject to movement, unless otherwise noted.
1. Joint locations such as, but not limited to:
 - a. Control joints on exposed interior surfaces of exterior walls.
 - b. Interior joints where interior partitions meet exterior walls of dissimilar materials and components.
 - c. Other joints as indicated on Drawings.
 2. Provide one of the following acceptable sealants as approved by manufacturer for substrates and uses indicated: **Type U-1**
 3. Color: As selected by Architect from manufacturer's full range of colors. Paintable Sealant, prep for painted finish.
- D. Joint-Sealant Application: Interior joints in vertical surfaces subject to abuse and movement.
1. Joint locations such as, but not limited to:
 - a. Vertical joints, including control joints and joints between masonry and structural support members, on exposed surfaces of interior unit masonry walls and partitions.
 2. Provide one of the following acceptable sealants as approved by manufacturer for substrates and uses indicated: **Type U-2**
 3. Color: As selected by Architect from manufacturer's full range of colors.
- E. Joint-Sealant Application: Interior joints in vertical surfaces not subject to movement.
1. Joint locations such as, but not limited to:
 - a. Interior perimeter joints of exterior openings.
 - b. Perimeter joints between interior wall surfaces and frames of interior doors, windows, and elevator entrances.
 - c. Interior joints between dissimilar materials where a gap is created where materials meet, unless otherwise noted.
 2. Provide one of the following acceptable sealants as approved by manufacturer for substrates and uses indicated: **Type L-1, Type L-2**
 3. Color: As selected by Architect from manufacturer's full range of colors.

- F. Joint-Sealant Application: Mildew-resistant interior joints in non-painted vertical surfaces and horizontal nontraffic surfaces.
1. Joint locations such as, but not limited to:
 - a. Interior joints between plumbing fixtures and adjoining floors and counters.
 - b. Joints between countertops and backsplashes.
 - c. For interior joints in non-painted vertical and horizontal surfaces where incidental food contact may occur.
 - d. Tile control and expansion joints where indicated.
 - e. Other joints as indicated on Drawings.
 2. Provide one of the following acceptable sealants as approved by manufacturer for substrates and uses indicated: **Type S-5**
 - a. For potable water storage sealant shall be certified by National Sanitation Foundation as conforming to the requirements of NSF Standard 61 – Drinking Water System Components – Health Effect.
 - b. For surfaces where incidental food contact may occur sealant must comply with United States Department of Agriculture (USDA) guidelines for incidental food contact with cured sealant.
 3. Color: As selected by Architect from manufacturer's full range of colors.
- G. Joint-Sealant Application: Mildew-resistant interior joints in painted vertical surfaces and horizontal non-traffic surfaces.
1. Joint locations such as, but not limited to:
 - a. Interior joints between plumbing fixtures and adjoining painted walls.
 - b. Joints where countertops or backsplashes intersect painted walls.
 - c. For interior joints in painted vertical and horizontal surfaces where incidental food contact may occur.
 2. Provide one of the following acceptable sealants as approved by manufacturer for substrates and uses indicated: **Type L-2**
 3. Color: As selected by Architect from manufacturer's full range of colors.
- H. Joint-Sealant Application: Interior or exterior joints in vertical surfaces between laps in fabrications of sheet metal.
1. Provide one of the following acceptable sealants as approved by manufacturer for substrates and uses indicated: **Type U-1**
 2. Color: As selected by Architect from manufacturer's full range of colors.
- I. Joint-Sealant Application: Exterior joints under metal thresholds and saddles, sill plates, or as bedding sealant for sheet metal flashing and frames of metal or wood.
1. Provide one of the following acceptable sealants as approved by manufacturer for substrates and uses indicated: **Type S-1, Type U-1, Type B-1**
 2. Color: As selected by Architect from manufacturer's full range of colors.

END OF SECTION

THIS SHEET LEFT INTENTIONALLY BLANK

SECTION 08 11 13 - HOLLOW METAL DOORS AND FRAMES

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes steel doors and frames; non-rated and fire rated.

1.2 SUBMITTALS

- A. Shop Drawings: Indicate door and frame elevations, internal reinforcement, cut-outs for glazing, and finishes.
- B. Product Data: Submit door and frame configurations, location of cut-outs for hardware reinforcement.

1.3 QUALITY ASSURANCE

- A. Perform Work in accordance with the following:
 - 1. ANSI 250.8 - Recommended Specifications for Standard Steel Doors and Frames.
 - 2. DHI - Door Hardware Institute - The Installation of Commercial Steel Doors and Steel Frames, Insulated Steel Doors in Wood Frames and Builder's Hardware.
- B. Fire Rated Door Construction: Conform to NFPA 252.
- C. Installed Fire Rated Door Assembly: Conform to NFPA 80 for fire rated class as indicated on Drawings.
- D. Attach label from agency approved by authority having jurisdiction to identify each fire rated door.
- E. Surface Burning Characteristics:
 - 1. Foam Insulation: Maximum 75/450 flame spread/smoke developed index when tested in accordance with ASTM E84.
- F. Apply label from agency approved by authority having jurisdiction to identify each foam plastic insulation material.

PART 2 PRODUCTS

2.1 STEEL DOORS AND FRAMES

- A. Manufacturers:
 - 1. Republic Doors [basis of design]
 - 2. Ceco Door Products.
 - 3. Fleming Steel Doors and Frames.
 - 4. Kewanee Corp.
 - 5. Steelcraft.
 - 6. Daybar
- B. Product Description: Standard shop fabricated steel doors, and frames; fire rated and non-rated types; embossed panel face.

2.2 DOOR TYPES

- A. Exterior Doors (Insulated): ANSI A250.8, SDI 100.
 - 1. Level 2 – Heavy Duty, Model 1
 - 2. Door Size: per drawings
 - 3. Thickness: 1-3/4 inch nominal thickness
 - 4. Hinge Rail& Reinforcement: 16 gauge steel channel projection welded
 - 5. Lock Rail: 16 gauge steel channel with 16 gauge reinforcements for locks / hardware
 - 6. Edge Seams: Overlapping

7. Top Channel: 16 gauge channel
 8. Bottom Channel: Inverted 16 gauge channel.
 9. Interior Core: 2 lb. polyurethane.
 10. Face: 18 gauge gauge, embossed, raised panels, interior and exterior face. One sheet with no visible seams.
 11. Panel Style: 6 panel design
 12. Hardware: Prep door slab for hardware
- B. Interior Doors (Non-Rated and Rated): ANSI A250.8, SDI 100.
1. Level 2 – Heavy Duty, Model 1,
 2. Door Size: per drawings
 3. Thickness: 1-3/4 inch nominal thickness
 4. Hinge Rail& Reinforcement: 16 gauge steel channel projection welded
 5. Lock Rail: 16 gauge steel channel with 16 gauge reinforcements for locks / hardware
 6. Edge Seams: Overlapping
 7. Top Channel: 16 gauge channel
 8. Bottom Channel: Inverted 16 gauge channel.
 9. Interior Core: 2 lb. polyurethane.
 10. Face: 18 gauge gauge, embossed, raised panels, interior and exterior face. One sheet with no visible seams.
 11. Panel Style: 6 panel design
 12. Hardware: Prep door slab for hardware

2.3 FRAME TYPES

- A. General: Provide steel frames for doors, transoms, sidelights, borrowed lights, and other openings that comply with ANSI A250.8, SDI 111 and with details indicated for type and profile. Conceal fastenings, unless otherwise indicated.
- B. Frames for exterior and interior door openings:
1. Profile: for 1 3/4 inch door thickness
 2. Wall Thickness: confirm with field conditions, match existing conditions.
 3. Gauge: 16 gauge steel
 4. Standard Face: 2 inches [jambs, heads], unless conditions dictate otherwise.
 5. Standard Rabbet: 1-3/8 inch [double rabbet design]
 6. Standard Stop: 5/8 inch
 7. Hinges: 4 1/2 x 4 1/2 tamplate hinge
 8. Frame Type: welded except for conditions which require knock-down

2.4 FRAME ASSEMBLIES

- A. Mortar/Plaster Guards: Provide minimum 26 gauge steel plaster guards or mortar boxes, welded to the frame, at back of door hardware cutouts where materials might obstruct hardware operation.
- B. Provide minimum 9 MSG hinge reinforcement, including all doors with continuous type hinges.
- C. Provide minimum 12 MSG frame head reinforcement for closers, surface, and concealed overhead stop and holders, removable mullions, flush bolts, and top latch of vertical rod exit devices.
- D. Door Silencers: Drill stops and install 3 silencers on strike jambs of single swing frames and 2 silencers on heads of double swing frames.

2.5 FRAME ANCHORAGE

- A. Jamb Anchors

1. Frames Set in Existing Masonry: Provide specifically designed 18 gauge jamb anchors used to add support for bolting the frame into the rough opening of the existing wall.
 2. Frames Set in New Masonry: Provide metal anchors of shapes and sizes required for the adjoining wall construction. Provide a minimum of 3 wall anchors per jamb.
 - a. Provide adjustable strap-and-stirrup or T-shaped anchors to suit frame size, not less than 18 gauge, with corrugated or perforated straps not less than 2 inches wide by 10 inches long; or wire anchors not less than 7 WMG.
 3. Frames Set in Wood / Metal Stud Partitions: Provide a minimum of three 18 gauge metallic coated "Z" shaped sheet metal jamb anchor clips welded in each jamb.
- B. Provide head anchors at door or window heads over 5 feet wide at minimum 3 feet o.c. mounted in metal-stud partitions.
- C. Floor Anchors: Weld anchors to bottoms of jambs with at least four spot welds per anchor; however, for slip-on drywall frames, provide anchor clips or countersunk holes at bottom of jambs.
1. Provide 14 gauge minimum anchors punched for two 3/8 inch diameter bolts each.

2.6 FIRE DOORS AND FRAMES

- A. Provide approved and labeled hollow metal fire doors and frames at locations indicated in Door Schedule. Approved doors, frames, and hardware shall be constructed and installed in accordance with requirements of NFPA 80 and tested by UL (Underwriters' Laboratories, Inc.) or WH (Warnock Hersey) for the class of door opening indicated in schedules.
- B. Label Materials and Attachment: Labels shall be steel, brass, aluminum, or non-metallic. Metal labels shall be attached by welding, riveting, pop riveting, or with drive screws. Embossed labels stamped directly into the steel will not be acceptable. Labels shall be provided for doors, door frames, and borrowed lites. Labels shall be protected during painting. Label protection shall be removed after final coat of paint has been completed and approved.
- C. Labeled metal frames are required for labeled wood doors.

2.7 FABRICATION

- A. Fabricate steel door and frame units to comply with ANSI A250.8 and to be rigid, neat in appearance, and free from defects, warp, or buckle. Accurately form metal to required sizes and profiles. Wherever practicable, fit and assemble units in the manufacturer's plant. Clearly identify work that cannot be permanently factory assembled before shipment, to assure proper assembly at the Project site.
- B. Hollow-Metal Doors:
1. Vertical Edges for Single-Acting Doors: Bevel edges 1/8 inch in 2 inches, unless otherwise noted.
 2. Top Edge Closures: Close top edges of doors with inverted closures, except provide flush closure at exterior doors of same material as face sheets.
 3. Bottom Edge Closures: Close bottom edge of doors with end closures or channels of same material as face sheets. Coordinate with weatherstripping.
- C. Hollow-Metal Frames: Where frames are fabricated in Sections due to shipping or handling limitations, provide alignment plates of angles at each joint, fabricated of same thickness metal as frames.
1. Door Silencers: Except on weather-stripped frames, drill stops to receive door silencers as follows. Keep holes clear during construction.
 - a. Single-Door Frames: Drill stop in strike jamb to receive three door silencers.
- D. Fabricate concealed stiffeners, reinforcement, edge channels, and moldings from either cold rolled or hot rolled steel (at fabricator's option).

1. Minimum hardware reinforcement gage shall comply with Table 4 of ANSI/SDI A250.8 "SDI 100, Recommended Specifications for Standard Steel Doors and Frames".
- E. Clearances for Non-Fire Rated Doors: Not to exceed 1/8 inch at jambs and heads, 3/32 inch between pairs of doors, and 3/4 inch at bottom.
- F. Clearances for Fire Rated Doors: As required by NFPA 80.
- G. Exposed Fasteners: Unless otherwise indicated, provide countersunk flat Phillips heads for exposed screws and bolts.
- H. Door Hardware Preparation: Factory prepare hollow-metal work to receive templated mortised hardware; include cutouts, reinforcement, mortising, drilling, and tapping according to SDI A250.6, the Door Hardware Schedule, and templates.
 1. Prepare hollow metal units to receive mortised and concealed door hardware, including cutouts, steel reinforcing, drilling, and tapping in accordance with final door hardware schedule and templates provided by hardware supplier. Comply with applicable requirements of ANSI A250.6 and ANSI/BHMA A156.115 for preparation of hollow-metal work for hardware.
 2. Reinforce hollow metal units to receive nontemplated, mortised, and surface mounted hardware. Hardware installer shall drill and tap for surface applied hardware.

2.8 STEEL FINISHES

- A. General: Comply with recommendations in "Metal Finishes Manual by Architectural and Metal Products (AMP) Division of National Association of Architectural Metal Manufacturers (NAAMM) for applying and designating finishes.
 1. Finish standard steel door and frames after assembly.
- B. Metallic Coated Steel Surface Preparation: Clean surfaces with nonpetroleum solvent so surfaces are free of oil and other contaminants. After cleaning, apply a conversion coating suited to the organic coating to be applied over it. Clean welds, mechanical connections, and abraded areas, and apply galvanizing repair paint specified below to comply with ASTM A780.
 1. Galvanizing Repair Paint: High zinc dust content paint for regalvanizing welds in steel, complying with SSPC Paint 20.
- C. Steel Surface Preparation: Clean surfaces to comply with SSPC-SP1, SSPC-SP 3, SSPC-SP 6/NACE No. 3.
- D. Factory Priming for Field Painted Finish: Apply shop primer specified below immediately after surface preparation and pretreatment. Apply a smooth coat of even consistency to provide a uniform dry film thickness of not less than 0.7 mils.
 1. Shop Primer: Manufacturer's standard, fast curing, lead and chromate free primer complying with ANSI A250.10 acceptance criteria; recommended by primer manufacturer for substrate; compatible with substrate and field applied finish paint system indicated; and providing a sound foundation for field applied topcoats despite prolonged exposure.

2.9 GLAZING

- A. Refer to Section 08 80 00.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify opening sizes and tolerances are acceptable.

3.2 PREPARATION

- A. Prior to installation, adjust and securely brace standard steel door frames for squareness, alignment, twist, and plumb to the following tolerances:
 - 1. Squareness: Plus or minus 1/16 inch, measured at door rabbet on a line 90 degrees from jamb perpendicular to frame head.
 - 2. Alignment: Plus or minus 1/16 inch, measured on jambs on a horizontal line parallel to plane of wall.
 - 3. Twist: Plus or minus 1/16 inch, measured at opposite face corners of jambs on parallel lines,
 - 4. Plumbness: Plus or minus 1/16 inch, measured at jambs on a perpendicular line from head to floor.
- B. Drill and tap doors and frames to receive nontemplated mortised and surface mounted door hardware.

3.3 INSTALLATION

- A. General: Provide doors and frames of sizes, thicknesses, and designs indicated. Install standard steel doors and frames plumb, rigid, properly aligned, and securely fastened in place; comply with Drawings and manufacturer's written instructions.
- B. Install doors and frames in accordance with ANSI A250.11.
- C. Install fire rated doors and frames in accordance with NFPA 80.
- D. Coordinate installation of doors and frames with installation of hardware specified in Section 08 71 00.
- E. Coordinate door frames with masonry and gypsum board wall construction for frame anchor placement.
- F. Steel Doors: Fit hollow metal doors accurately in frames, within clearances specified below. Shim as necessary.
 - 1. Non Fire Rated Standard Steel Doors:
 - a. Jambs and Head: 1/8 inch plus or minus 1/16 inch.
 - b. Between Edges of Pairs of Doors: 1/8 inch plus or minus 1/16 inch.
 - c. Between Bottom of Door and Top of Threshold: Maximum 3/8 inch.
 - d. Between Bottom of Door and Top of Finish Floor (No Threshold): Maximum 3/4 inch.
 - 2. Fire Rated Doors: Install with clearances according to NFPA 80.
 - 3. Smoke Control Door Assemblies: Install according to NFPA 105.
- G. Coordinate installation of glass and glazing specified in Section 08 80 00.
- H. Adjust door for smooth and balanced door movement.
- I. Tolerances:
 - 1. Maximum Diagonal Distortion: 1/16 inch measured with straight edge, corner to corner.

3.4 SCHEDULE

- A. Refer to Drawings.

END OF SECTION

THIS SHEET LEFT INTENTIONALLY BLANK

SECTION 08 14 00 - WOOD DOORS

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes composite interior wood doors within individual dwelling units.
 - 1. Sized to fit existing steel frames [new steel frames where applicable] and hardware prep locations.

1.2 SUBMITTALS

- A. Shop Drawings: Indicate door elevations, cutouts for hardware preparation.
- B. Product Data: Submit information on door core materials and construction, and on veneer species, type and characteristics.
- C. Samples: Submit samples of door veneer illustrating pre-finished stain color selections and finish as specified.

1.3 QUALITY ASSURANCE

- A. Perform work in accordance with NWWDA I.S.1.

1.4 WARRANTY

- A. Furnish five year manufacturer's warranty for interior doors.

PART 2 PRODUCTS

2.1 WOOD DOORS

- A. Manufacturers:
 - 1. Masonite, Molded Panel Series Doors
 - 2. Jeldwen
 - 3. Approved Equal
- B. Product Description:
 - 1. 1-3/8 inches thick side-hinged door systems
 - 2. Molded wood fiber facing, wood stiles, wood or MDF rails, and engineered low-density composite core
 - 3. Door facings bonded to stiles, rails, and core forming a 3-ply structural attachment.
 - 4. Internal reinforcement for hardware
 - 5. 6 panel molded design per drawings
 - 6. Smooth face
 - 7. Factory primed, ready for site finish

2.2 ACCESSORIES

- A. Hinges: 1 pair, confirm size / location, 26D finish to match door hardware.

2.3 FABRICATION

- A. Fabricate doors in accordance with NWWDA I.S.1 requirements.
- B. Fabricate doors with hardware reinforcement blocking in place.
- C. Factory machine doors for finish hardware in accordance with hardware requirements and dimensions. Do not machine for surface hardware.
- D. Hardware: As specified in 08 71 00 and in finishes specified.

2.4 FINISH

- A. Prep doors and frames for site finishing, painted finish.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install doors in accordance with NWWDA I.S.1 requirements.
- B. Adjust door for smooth and balanced door movement.
- C. Tolerances:
 - 1. Conform to NWWDA requirements for fit and clearance tolerances and maximum diagonal distortion.
 - 2. Maximum Diagonal Distortion: 1/4 inch measured with straight edge, corner to corner.

3.2 SCHEDULE

- A. Interior doors: Match size and configuration/swing as designed on drawings. Size new door slabs to fit existing steel frames and hardware locations. Field verify all conditions.
- B. Undercut doors 1" for opening.

END OF SECTION

SECTION 08 31 13 - ACCESS DOORS AND FRAMES

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes: **Fire-resistive-rated and non-rated** Access doors and panels with frames.

1.2 SUBMITTALS

- A. Product Data: Indicate sizes, types, finishes, hardware, scheduled locations, fire-resistance listings, and details of adjoining Work.
- B. Manufacturer's Installation Instructions: Include rough-in dimensions.

1.3 QUALITY ASSURANCE

- A. Fire-Rated Access Door Construction:
 - 1. Wall Access Doors: NFPA 252 or UL 10B.
 - 2. Ceiling Access Doors: ASTM E119 or UL 263.
- B. Installed Fire-Rated Access Door Assembly: Conform to NFPA 80 for fire-rated class as indicated.
- C. Attach label from agency approved by authority having jurisdiction to identify each fire-rated access door.

1.4 COORDINATION

- A. Coordinate Work with Work requiring controls, valves, traps, dampers, cleanouts, and similar items requiring operation being located behind finished surfaces.

PART 2 PRODUCTS

2.1 ACCESS DOORS AND PANELS

- A. Flush Framed Access Doors (Type 1): Frames and nominal 1 inch wide exposed flanges of 16 gage steel and door panels of 14 gage steel.
- B. Fire-Rated Access Doors (Type 2): Frames and nominal 1 inch wide exposed flanges of minimum 16 gage steel and door panels of 20 gage steel. Provide self-closing and latching doors with cam lock.

2.2 FABRICATION

- A. Fabricate units of continuous welded construction; weld, fill, and grind joints to assure flush and square unit.
- B. Wall and Ceiling Access Door and Panel Hardware:
 - 1. Hinge: Standard continuous or concealed spring pin type, 175-degree steel hinges.
 - 2. Lock: Self-latching lock. Screw driver slot for quarter turn cam lock.

2.3 SHOP FINISHING

- A. Base Metal Protection: Prime coat units with baked on primer.
- B. Finish: to match adjacent wall/ceiling surface.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Set concealed frame type units flush with adjacent finished surfaces.

- B. Position unit to provide convenient access to concealed Work requiring access.
- C. Install fire-rated units according to NFPA 80 and requirements for fire listing.

3.2 SCHEDULES

- A. Provide and install access panels where required by existing construction, utilities, etc. Field coordinate requirements, sizes, and locations.

END OF SECTION

SECTION 08 53 00 - VINYL WINDOWS

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes factory fabricated tubular extruded vinyl windows with fixed and operating sash [double hung], glass, and framed insect screens.

1.2 SYSTEM DESCRIPTION

- A. Windows and Sliding Doors: Extruded tubular plastic sections, factory fabricated, fusion welded, vision glass, related flashings, anchorage and attachment devices.
- B. System Design: Performance to provide for expansion and contraction within system components caused by temperature cycling. Design and size members to withstand loads caused by pressure and suction of wind in accordance with applicable code.
- C. Water Leakage: None, when measured in accordance with ASTM E331.
- D. System Internal Drainage: Drain water entering framing system, to exterior.
- E. Thermal Movement: Design sections to permit thermal expansion and contraction of plastic as compared to glass, infill, and perimeter opening construction.

1.3 REFERENCES

- A. American Architectural Manufacturers Association (AAMA):
 - 1. AAMA 502 - Voluntary Specification for Field Testing of Newly Installed Fenestration Products.
- B. American Architectural Manufacturers Association/Window & Door Manufacturers Association/Canadian Standards Association (AAMA/WDMA/CSA):
 - 1. AAMA/WDMA/CSA 101/I.S.2/A440 - Standard/Specification for Windows, Doors, and Skylights.
- C. National Fenestration Rating Council (NFRC):
 - 1. NFRC 100 - Procedure for Determining Fenestration Product U-factors.
 - 2. NFRC 200 - Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence.

1.4 PERFORMANCE REQUIREMENTS

- A. Product Standard: Comply with AAMA/WDMA/CSA 101/I.S.2/A440 for definitions and minimum standards of performance materials, components, accessories, and fabrication unless more stringent requirements are indicated.
- B. Performance Class and Grade: AAMA/WDMA/CSA 101/I.S.2/A440 as follows:
 - 1. Minimum Performance Class: R.
 - 2. Minimum Performance Grade: 20.
- C. Fabricate windows to AAMA Gold Label Certification Program for thermal performance and air, water, and structural integrity.
- D. Forced Entry Resistance: Meet the requirements of ASTM F588 for Type A [sliding sashes], Grade 10.
- E. Air Infiltration: Maximum air leakage through fixed glazing and framing areas of 0.30 cfm/sq ft of fixed wall area as determined according to ASTM E283 at a minimum static-air-pressure differential of 1.57 lbf/sq ft.
- F. Operating Force: Maximum allowable lb force of 30 lbf.

- G. Water Penetration: Minimum water resistance of 2.86 psf for entry level R20 structural rating.
- H. Thermal Transmittance: NFRC 100 maximum whole window U-factor of 0.30 Btu/sq ft x°h x degrees F.
- I. Solar Heat Gain Coefficient (SHGC): NFRC 200 maximum whole window SHGC of 0.30.

1.5 SUBMITTALS

- A. Shop Drawings: Indicate opening dimensions, framed opening tolerances, affected related work; and installation requirements.
- B. Product Data: Submit component dimensions, anchorage and fasteners, glass, and internal drainage details. Indicate Energy Star compliance.
- C. Samples: Provide [2] samples of exposed finishes.

1.6 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: Manufacturer regularly engaged, for past 10 years, in manufacture of vinyl windows of similar type to that specified.
- B. Installer's Qualifications:
 - 1. Installer regularly engaged, for past 5 years, in installation of vinyl windows of similar type to that specified.
 - 2. Employ persons trained for installation of vinyl windows.
- C. Mockup:
 - 1. Construct mock-ups of vinyl windows for evaluation of preparation techniques and installation workmanship.
 - a. Construct mock-ups using same materials for use in the Work.
 - b. Construct mock-ups at locations determined by Architect.
 - c. Do not proceed until workmanship of mock-ups are approved by Architect.
 - d. Approved Mock-ups: Standard for workmanship of vinyl windows.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Delivery and Acceptance Requirements: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Storage and Handling Requirements:
 - 1. Store and handle materials in accordance with manufacturer's instructions.
 - 2. Keep materials in manufacturer's original, unopened containers and packaging until installation.
 - 3. Store materials in clean, dry area indoors.
 - 4. Do not store materials directly on floor.
 - 5. Protect materials and finish during storage, handling, and installation to prevent damage.

1.8 WARRANTY

- A. Furnish 10-year manufacturer warranty for insulated glass units and vinyl window components.

PART 2 PRODUCTS

2.1 VINYL WINDOWS

- A. Manufacturers:
 - 1. Simonton Windows by PlyGem: Reflections 5500 Series, Double Hung. [BASIS OF DESIGN]

2. Jeldwen Windows:
3. Soft Lite Windows:
4. Silverline by Anderson Windows

B. Product Description:

1. Unit Frame: Extruded tubular plastic with welded corner construction.
2. Windows: Conform with AAMA 101 Designations for windows required for Double Hung window operation.
3. Type: 2 lite double hung
4. Sizes: As indicated on drawings.
5. Frame and Sash Color: Tan / Almond / Driftwood [As selected from full range of available colors]
 - a. Interior and Exterior Surfaces to be the same color.

2.2 COMPONENTS

- A. Extruded PVC frames and sashes: AAMA 303 hollow, multi-chambered sections of extruded polyvinyl chloride (PVC), with integral ultra-violet degradation resistance. Fusion Welded frame and sash.
- B. Frame
 1. Frame Thickness: +/- 3-1/4 inches
 2. Construction: Welded, thermally broken
 3. Screen Track: Integral
 4. Sill: sloped design sill out from unit/building wall.
- C. Sash
 1. Construction: Welded
 2. Glazing Bead: Color Matched, dual durometer
- D. Grille: Refer to drawings
- E. Glass and Glazing Materials:
 1. Gas: Air / Argon Filled Airspace
 2. Glass Strength: Single Strength
 3. Glass Type: Low E
 4. Dual Pane Insulated Glass: 3/4 inch thickness
 5. Spacer: Supercept Window Spacer System
 6. Insulating Glass: SIGMA sealed double pane float glass with clear outer pane and Low E 366 coating with Argon Filled airspace; total thickness 3/4 inch minimum. U-Value of 0.30 or Less
 7. Safety glass conforming to ANSI Z97.1 and applicable codes where required.
 8. Obscure glass where noted on drawings.
- F. Hardware: Manufacturer's standard window and door hardware based on following requirements. Hardware to match frame and sash color.
 1. Sash Lock: [2] Lever handles with cam lock.
 2. Rollers / Gliders: Corrosion resistant Rollers
 3. Safety / Night Latch [Window opening Control Device]: safety catch to limit operation of window opening for security and safety purposes.
- G. Sills, Stools, and Aprons: Tubular plastic; slope sills for positive wash; extend 1/2 inch beyond wall face; one piece full width of opening.
- H. Frame Expanders: Vinyl frame expanders/receptors sized as required to suit opening extending to meet existing construction and ready to accept new window units.
- I. Insect Screens:

1. Frame: Roll formed
 2. Size: to fit half of window unit.
 3. Mesh: Fiberglass mesh set into frame and secured.
- J. Weather Stripping: Dual fin seal at sash perimeter, triple weather stripped at sash edges, closed cell foam weather stripping, configured for flexible fit.
- K. Trim/Closure: Vinyl trim stock for interior perimeter/jamb application. Color to match window units.
- L. Field Coordinate size requirements to conceal any gap between original window and new window.
- M. Fasteners: Galvanized steel.
- N. Anchor Devices: Galvanized steel.
- O. Sealant and Backing Materials: Specified in Section 07 90 00.

2.3 FABRICATION

- A. Fabricate framing, mullions and sash members with fusion welded corners and joints, in rigid jig. Supplement frame sections with internal reinforcement where required for structural rigidity.
- B. Form snap in glass stops, closure molds, weather stops, and flashings of extruded PVC for tight fit into window frame section.
- C. Install glass using exterior dry method of glazing.
- D. Fit insect screen frames with four spring loaded pin retainers.
- E. Double weatherstrip operable units.

2.4 SHOP FINISHING

- A. Exterior Surfaces: as selected from Manufacturer's standard colors.
- B. Interior Surfaces: Manufacturer's standard colors.
- C. Screens: Match window frame color with light screening.
- D. Operators/Hardware: color to match unit

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify rough openings are correctly sized and located.
- B. Examine abutting wall flashing, vapor retarders, weather barriers, and other components to ensure weathertight window installation.
- C. Verify rough opening dimensions, sill levelness, and operational clearances are acceptable.
- D. Notify Architect of conditions that would adversely affect installation or subsequent use.
- E. Do not begin installation until unacceptable conditions are corrected.

3.2 PREPARATION

- A. Prepare opening to permit correct installation of frame and achieve continuity of air and vapor retarder seal.

3.3 INSTALLATION

- A. Use anchorage devices to securely attach frames to structure.
- B. Align assembly plumb and level, free of warp or twist. Maintain assembly dimensional tolerances, aligning with adjacent work. Anchor windows securely in place to supporting substrate. Verify that windows are installed in proper relation to wall flashing and other abutting materials to achieve a watertight installation.
- C. Install vinyl windows in accordance with manufacturer's instructions at locations indicated on the Drawings.
- D. Install vinyl windows plumb, level, square, true to line, and without distortion.
- E. Anchor vinyl windows securely in place to supports.
- F. Verify vinyl windows are installed in proper relation to wall flashing and other abutting materials. Coordinate attachment and seal of air and vapor retarder materials. Pack fibrous insulation (or low expansion foam) in shim spaces at perimeter of assembly to maintain continuity of thermal barrier.
- G. Install vinyl windows weathertight.
- H. Verify vinyl windows open, close, and lock properly.
- I. Install interior vinyl trim at perimeter of window unit as applicable to the conditions.
- J. Coordinate installation of perimeter sealants and backing materials with Section 07 90 00.

3.4 ADJUSTING

- A. Adjust operating components to ensure a tight fit at contact points and weather stripping for smooth operation and weathertight closure.
- B. Replace damaged glass.
- C. Remove and replace with new material, damaged components that cannot be successfully repaired, as determined by Architect.

3.5 CLEANING

- A. Clean vinyl windows promptly after installation in accordance with manufacturer's instructions.
- B. Do not use harsh cleaning materials or methods that could damage windows.

3.6 SCHEDULES

- A. Refer to drawings.
- B. Refer to drawings/schedules for tempered glazing requirements.

END OF SECTION

THIS SHEET LEFT INTENTIONALLY BLANK

SECTION 08 71 00 - DOOR HARDWARE

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes hardware for doors.
 - 1. All hardware components to be ADA/UFAS compliant.
 - 2. New cylinders and keys for all units.

1.2 SUBMITTALS

- A. Shop Drawings:
 - 1. Indicate locations and mounting heights of each type of hardware, schedule, and catalog cuts.
 - 2. Submit manufacturer's parts list, and templates.
- B. Manufacturer's installation instructions: Submit special procedures, and perimeter conditions requiring special attention.

1.3 CLOSEOUT SUBMITTALS

- A. Project Record Documents: Record actual locations of installed cylinders and their master key code.
- B. Operation and Maintenance Data: Submit data on operating hardware, lubrication requirements, and inspection procedures related to preventative maintenance.
- C. Keys: Deliver with identifying tags to Owner by security shipment direct from hardware supplier.

1.4 QUALITY ASSURANCE

- A. Perform Work in accordance with the following requirements:
 - 1. ANSI A156 series.
 - 2. NFPA 80 - Fire Doors and Windows.
 - 3. NFPA 101 - Life Safety Code.
- B. Furnish hardware marked and listed in BHMA Directory of Certified Products.
- C. Coordinate work with other directly affected sections involving manufacture or fabrication of internal reinforcement for door hardware and recessed items.
 - 1. Provide templates or actual hardware as required to ensure proper preparation of doors and frames.
- D. Coordinate Owner's keying requirements during course of work.

1.5 WARRANTY

- A. Furnish five year manufacturer warranty for door hardware.

1.6 MAINTENANCE SERVICE

- A. Provide special wrenches and tools applicable to each different or special hardware component.

PART 2 PRODUCTS

2.1 DOOR HARDWARE

- A. Lockset, Latch Set, and Cylinder Manufacturers:
 - 1. Falcon Lock or Equal Model W-Series, Dane Handle Design 6 pin cover style for Exterior Doors, Unit Entry Doors, and Common Building Areas

2. Falcon Lock or Equal Model W-Series, Dane Handle Design 6 pin cover style for Interior Doors within Unit.
- B. Deadlock Manufacturers:
1. Falcon Lock or Equal Model D241 6 pin cover style.
- C. Cylinders: Falcon interchangeable "A" keyway cores, 6 pin type.
- D. Door Viewer Manufacturers:
1. Rockwood Model 622

2.2 COMPONENTS

- A. General Hardware Requirements: Where not specifically indicated, comply with applicable ANSI A156 standard for type of hardware required. Furnish each type of hardware with accessories as required for applications indicated and for complete, finished, operational doors.
1. Templates: Furnish templates or physical hardware items to door and frame manufacturers sufficiently in advance to avoid delay in Work.
 2. Reinforcing Units: Furnished by door and frame manufacturers; coordinated by hardware supplier or hardware manufacturer.
 3. Fasteners: Furnish as recommended by hardware manufacturer and as required to secure hardware.
 - a. Finish: Match hardware item being fastened.
- B. Hinges: ANSI A156.1, full mortise type, template type, ANSI A156.7, complying with following general requirements unless otherwise scheduled.
1. Widths: Sufficient to clear trim projection when door swings 180 degrees.
 2. Number: Furnish minimum three hinges to 90 inches high, four hinges to 120 inches high for each door leaf.
 - a. Residential Interior Wood Doors: Furnish minimum two hinges.
 - b. Size and Weight: Doors 1-3/8" thick: match existing cut outs in steel door frames.
 3. Pins: Furnish nonferrous hinges with non-removable pins (NRP) at exterior doors, non rising pins at interior doors.
 4. Tips: Flat button tips with matching plug.
 5. Provide three spare sets.
- C. Locksets: Furnish locksets compatible with specified cylinders. Furnish standard strikes with extended lips to protect trim from being marred by latch bolt verify type of cutouts provided in metal frames.
1. Bored (Cylindrical) Locksets: ANSI A156.2, Series 4000, Grade 2 unless otherwise indicated.
- D. Latch Sets: Match locksets. Typical 2-3/4" backset. Furnish standard strikes with extended lips to protect trim from being marred by latch bolt, field verify conditions with existing steel frames.
1. Bored (Cylindrical) Latchsets: ANSI A156.2, Series 4000, Grade 2 unless otherwise indicated.
- E. Closers: ANSI A156.4 modern type with cover, surface mounted center or offset pivot closers; full rack and pinion type with steel spring and non-freezing hydraulic fluid; closers required for fire rated doors unless otherwise indicated.
1. Adjustability: Furnish controls for regulating closing, latching, speeds, and back checking.
 2. Arms: Type to suit individual condition; parallel-arm closers at reverse bevel doors and where doors can swing full 180 degrees.
 3. Location: Mount closers on inside of exterior doors, room side of interior doors typical; mount on pull side of other doors.
 4. Operating Pressure: Maximum operating pressure as follows.

- a. Interior Doors: Maximum 5 pounds.
 - b. Exterior Doors: Maximum 10 pound.
 - c. Fire Rated Doors: As required for fire rating, maximum 15 pounds.
- F. Push/Pulls, Gaskets, Thresholds, and Trim: Furnish as indicated in Schedule, with accessories as required for complete operational door installations.
1. Push/Pulls: ANSI A156.6; Furnish straight push-pull type pulls with bolts to secure from opposite door face.
 2. Kickplates: ANSI A156.6, metal; 36 inch high, 1 inch less than door width; stainless steel.
 3. Weatherstripping: Furnish continuous weatherstripping at top and sides of exterior doors.
 4. Fire Rated Gaskets: Furnish continuous fire rated gaskets at top and sides of fire rated doors.
 5. Thresholds: Maximum 1/2 inch height; requirements to ensure accessibility for persons with disabilities.
- G. Cylinders: Furnish new interchangeable cores, Falcon C606, 6 pin design with "A" standard keyway to match DMHA standard installation.
- H. Keying: Keyed as directed by Owner to integrate with existing Keying Schedule.
1. Keys: Nickel silver. Stamp keys with "DO NOT DUPLICATE".
 2. Supply keys in the following minimum quantities
 - a. 5 master keys.
 - b. 3 keys per residential unit.
- I. Door Viewers: 1-way viewing, three precision ground optical glass lenses, 180 degree angle viewing.
- J. Bi-Pass Door Hardware: Johnson 200 SD or Equal, top hung sliding door hardware with I-Beam rail

2.3 ACCESSORIES

- A. Lock Trim: Furnish levers with 2 9/16" [small – SR] rose.
- B. Through Bolts: Through bolts and grommet nuts are not permitted on door faces in occupied areas unless no alternative is possible.
1. Do not permit through bolts on solid wood core doors.

2.4 FINISHING

- A. Finishes: ANSI A156.18; with following finishes except where otherwise indicated in Schedule at end of section.
1. Hinges:
 - a. BHMA 626, satin finish.
 2. Typical Exterior Exposed and High Use Interior Door Hardware:
 - a. BHMA 626, satin chromium plated brass.
 3. Typical Interior Door Hardware:
 - a. BHMA 626, satin chromium plated brass.
 4. Thresholds: Finish appearance to match door hardware on exterior face of door.
 - a. BHMA 628, satin aluminum, clear anodized.
 5. Other Items: Provide manufacturer's standard finishes matching similar hardware types on same door, and maintaining acceptable finish considering anticipated use and BHMA category of finish.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify doors and frames are ready to receive work and dimensions are as indicated on shop drawings and as instructed by manufacturer.

3.2 INSTALLATION

- A. Coordinate mounting heights with door and frame manufacturers. Use templates provided by hardware item manufacturer.
- B. Mounting Heights from Finished Floor to Center Line of Hardware Item: Comply with manufacturer recommendations and applicable codes.
 - 1. Locksets: 38 inches
 - 2. Dead Bolt: 48 inches
 - 3. Top Hinge: Jamb manufacturer's standard, but not greater than 10 inches from head of frame to centerline of hinge.
 - 4. Bottom Hinge: Jamb manufacturer's standard, but not greater than 12-1/2" from floor to centerline of hinge.
 - 5. Intermediate Hinges: Equally spaced between top and bottom hinges and from each other.
 - 6. Door Viewers:
 - a. Door viewer: 48" and 60" AFF at accessible units.

3.3 ADJUSTING

- A. Adjust hardware for smooth operation.

3.4 SCHEDULE

- A. The following hardware sets are intended to establish type and standard of quality when used together with these section requirements. Examine Drawings and Specifications and furnish proper hardware for door openings.

- 1. **Each new door requires two (2) of the Rockwood 528 stop. Also provide wall mounted plastic door stop plate at any door adjacent to a gypsum wall.**

Hardware Set 1: Unit Entrance Doors

| | |
|--------------|-------------------------------------------------------------------------------------------|
| Hinges: | 1-1/2 pair heavy weight hinges |
| Stops: | [2] Rockwood 528; plastic wall plate |
| Closer: | SC80A, Overhead Door Closer [only at locations marked "closer" on door schedule] |
| Latch Set: | W101 26D |
| Dead Bolt | D241 26D |
| Door Viewer: | Rockwood 622, Satin Chrome [2 at ADA entrance doors] |
| Gaskets | Weatherstripping [smoke seal in lieu of weatherstripping at interior unit entrance doors] |
| Threshold | ADA Compliant Anodized Aluminum |
| Kickplate | 8" high stainless steel kickplate, exterior side only |

Hardware Set 2: Passage Set

| | |
|------------|--------------------------------------------------------------------------------------------|
| Hinges: | 1 pair or 1-1/2 pair hinges [existing door frames only have [2] existing hinge pockets] |
| Stops: | [2] Rockwood 528; plastic wall plate |
| Latch Set: | W101 26D |

Hardware Set 3: Privacy Set

Hinges: 1 pair or 1-1/2 pair hinges
[existing door frames only have [2] existing hinge pockets]
Stops: [2] Rockwood 528; plastic wall plate
Lock Set: W301 26D

Hardware Set 4: Bi-Pass Doors

Hanging Rail: By door manufacturer [26D finish]
Pulls [each leaf]: Recessed cups [each door leaf]

Hardware Set 5: Storeroom Lock

Hinges: 1-1/2 pair hinges
Closer: SC80A, Overhead Door Closer
Lock Set: W581 26D
Gaskets: Smoke Seal Gasket

Hardware Set 6: Building Entrance Doors

Hinges: 1-1/2 pair heavy weight hinges
Stops: [2] Rockwood 528; plastic wall plate
Closer: SC80A, Overhead Door Closer
Lock Set: W581 26D
Door Viewer: Rockwood 622, Satin Chrome [2] each
Gaskets: Weatherstripping
Threshold: ADA Compliant Anodized Aluminum
Kickplate: 8" high stainless steel kickplate, both sides

See Part 2.2 Components above for accessories and other hardware.

END OF SECTION

THIS SHEET LEFT INTENTIONALLY BLANK

SECTION 09 21 16 - GYPSUM BOARD ASSEMBLIES

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes gypsum board with joint treatment; tile backer board.

1.2 SUBMITTALS

- A. Product Data: Submit data on each type of gypsum board, backer board, joint tape and accessories.

1.3 QUALITY ASSURANCE

- A. Perform Work in accordance with GA-201 - Gypsum Board for Walls and Ceilings. GA-214 - Recommended Specification: Levels of Gypsum Board Finish. GA-216 - Recommended Specifications for the Application and Finishing of Gypsum Board. GA-600 - Fire Resistance Design Manual.
- B. Surface Burning Characteristics:
1. Textile Wall Coverings: Comply with one of the following:
 - a. Maximum 25/450 flame spread/smoke developed index when tested in accordance with ASTM E84.
- C. Mock-up:
1. Provide mockup of the quality of finishes for one wall that indicates the level of finish quality. Approved mockup will become standard for comparing other work.
 2. Provide mockup of the quality of finishes for one ceiling area that indicates the level of finish quality for knockdown stomped ceiling finishes. Approved mockup will become standard for comparing other work.

PART 2 PRODUCTS

2.1 GYPSUM BOARD ASSEMBLIES

- A. Manufacturers:
1. United States Gypsum Co.
 2. BPB Americas Inc.
 3. G-P Gypsum Corp.
 4. National Gypsum Co.
 5. Certainteed.
- B. Gypsum Board [Type GB-1]: ASTM C1396; 1/2 inch thick, maximum available length in place; ends cut square, tapered square edges.
- C. Gypsum Board [Type GB-2A]: ASTM C1396; ASTM D3273, non-paper faced, mold-moisture resistant, 1/2 inch thick, maximum available length in place; ends cut square, tapered square edges.
- D. Gypsum Board [Type GB-2B]: ASTM C1396; ASTM D3273, paper faced, mold-moisture resistant, 1/2 inch thick, maximum available length in place; ends cut square, tapered square edges.
- E. Gypsum Board [Type GB-3]: ASTM C1396; Type X fire resistant type, high density; 5/8 inch thick, maximum available length in place; ends cut square, tapered square edges.
- F. Gypsum Board [Type GB-4A]: ASTM C1396; non-paper faced, mold-moisture resistant, Type X fire resistant type; 5/8 inch thick, maximum available length in place; ends cut square, tapered square edges.

- G. Gypsum Board [Type GB-4B]: ASTM C1396; paper faced, mold-moisture resistant, Type X fire resistant type; 5/8 inch thick, maximum available length in place; ends cut square, tapered square edges.
- H. Tile / Shower Backer Boards [Type TB-1]:
 - 1. Cement Tile Backer Board: ASTM A118.9; high density, glass fiber reinforced; 1/2 inch thick; mold resistant.
 - 2. Tile Backer Board Joint Tape: 2 inch wide, coated glass fiber tape for joints and corners.

2.2 ACCESSORIES

- A. Gypsum Board Accessories: ASTM C1047; metal, metal and paper combination; corner beads, edge trim, and expansion joints.
 - 1. Metal Accessories: Galvanized steel.
 - 2. Edge Trim: Type LC or U bead.
- B. Joint Materials: ASTM C475/C475M, reinforcing tape, joint compound, and water.
- C. Fasteners: ASTM C1002; Type S12 hardened screws, length to suit application.
- D. Gypsum Board Screws: ASTM C1002; Type W or S hardened screws, length to suit application.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify site conditions are ready to receive work.

3.2 INSTALLATION

- A. Gypsum Board:
 - 1. Install gypsum board in accordance with GA-216 and GA-600.
 - 2. Fasten gypsum board to furring or framing with screws.
 - 3. Place corner beads at external corners. Use longest practical length. Place edge trim where gypsum board abuts dissimilar materials.
 - 4. Seal cut edges and holes in moisture resistant gypsum board with sealant.
- B. Joint Treatment:
 - 1. Finish in accordance with GA-214 Level 4.
 - a. Level 5 finish at areas receiving tile backer board or paperless gypsum board.
 - 2. Tape, fill, and sand exposed joints, edges, and corners to produce smooth surface ready to receive finishes.
 - 3. Feather coats onto adjoining surfaces so camber is maximum 1/32 inch.

3.3 SCHEDULE

- A. Match existing / adjacent finishes as applicable to the conditions. General intent is repair existing gypsum board finishes to a Level 4 standard finish. Prep, repair, and skim as required to achieve desired finish.
 - 1. Level 4 finishes at all paper faced gypsum board.
 - 2. Level 5 finishes at all non-paper faced gypsum board.
- B. Refer to Drawings for Schedule of Non-Paper faced gypsum board and moisture resistance gypsum board finishes.
- C. Interior walls [except where noted otherwise]: GB-1.
- D. Interior Walls at Wet Areas: GB-2A / GB-2B, GB-4A, GB-4B.
- E. Interior Ceilings: GB-1.
- F. Interior Ceilings at Bathrooms / Wet Areas: GB-2A

- G. Interior Ceilings below Toilet Rooms: GB-2A / GB-4A.
- H. Interior Walls / Ceilings at Demising Wall Locations: GB-3 or GB-4A GB-4B as applicable.
- I. Interior walls to receive tile / solid surface finishes: TB-1 or GB-2A / GB-4A as applicable and per manufacturer installation instructions.

END OF SECTION

THIS SHEET LEFT INTENTIONALLY BLANK

SECTION 09 26 13 - GYPSUM VENEER PLASTERING

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes: Veneer plaster / Skim coat over existing plaster or gypsum board surfaces.

1.2 SUBMITTALS

- A. Product Data: Veneer plaster products.

1.3 QUALITY ASSURANCE

- A. Apply gypsum base according to ASTM C844 and GA 216.
- B. Apply gypsum veneer plaster according to ASTM C843.
- C. Veneer plaster Work according to GA 216.
- D. Fire-Rated Wall and Floor Construction: in conjunction with Section 09 21 16 and the drawings.
- E. Manufacturer: Company specializing in manufacturing products specified in this Section with three years' experience.
- F. Installer: Company specializing in performing Work of this Section with three years' experience.

1.4 ENVIRONMENTAL REQUIREMENTS

- A. Do not apply veneer plaster when substrate or ambient air temperature is less than 50 degrees F nor more than 80 degrees F; for 24 hours prior to, during operations and after, until building heating system can maintain spaces above minimum temperature.

PART 2 PRODUCTS

2.1 GYPSUM VENEER PLASTER

- A. Manufacturers:
 - 1. USG
 - 2. Georgia Pacific
 - 3. National Gypsum

2.2 COMPONENTS

- A. Gypsum Veneer Plaster: ASTM C587.
- B. Gypsum Base: Refer to Section 09 21 16 for gypsum board base materials.
- C. Gypsum Veneer Base Accessories: ASTM C1047; metal; corner beads, edge trim, and expansion joints.
- D. Reinforcing Tape, Joint Compound, Adhesive, Water, Fasteners: GA 216.
- E. Bond Coat: ASTM C631, vinyl polymer type.

2.3 ACCESSORIES

- A. Gypsum Board Screws: ASTM C954; length to suit application.
 - 1. Screws for Wood Framing: Type W.

2.4 MIXES

- A. Mix plaster according to ASTM C587.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify gypsum base is flat, joints are taped and sanded, and surface is ready to receive Work of this Section. Verify joint and surface perimeter accessories are in place.
- B. Verify gypsum plaster base has been installed according to ASTM C844, is flat, smooth and surface is ready to receive Work. Verify joint and surface perimeter accessories are in place.

3.2 PREPARATION

- A. Clean surfaces of dust or loose matter.

3.3 INSTALLATION

- A. Install gypsum base according to GA 216. Refer to Section 09 21 16.
- B. Use drywall screws to fasten gypsum board to framing substrate.
- C. Install accessories.
- D. Tape, fill, and sand filled joints, edges, corners, openings, and fixings to produce surface ready to receive veneer finish.
- E. Feather coats onto adjoining surfaces so joint camber is maximum 1/32 inch.
- F. Apply gypsum veneer plaster according to ASTM C843.
- G. Apply single coat of veneer plaster immediately after dampening substrate to thickness of 1/16 to 3/16 inch in thickness or as required to suit existing conditions.
- H. Finish surface of veneer plaster to **smooth skim coat finish to match new adjacent gypsum board finishes..**

3.4 ERECTION TOLERANCES

- A. Maximum Variation from Specified Thickness: Plus or minus 1/32 inch.

3.5 SCHEDULES

- A. Existing plaster/ gypsum board finishes to remain: Repair walls from prior damage and as a result of cut-patch operations for proposed work. Apply new full skim coat gypsum veneer skim coat over the entire surface of the existing finishes scheduled to remain where impacted by the work. New finish shall be smooth and consistent with the finish of new gypsum board, Level 4 finish.

END OF SECTION

SECTION 09 30 00 - TILING

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes ceramic tile for interior floor and wall applications; and thresholds at door openings.

1.2 SUBMITTALS

- A. Product Data: Submit information on tile and grout, instructions for using grouts and adhesives.
- B. Samples: Submit tile and grout samples illustrating pattern, color variations, and grout joint size variations.

1.3 QUALITY ASSURANCE

- A. Perform Work in accordance with TCA Handbook and ANSI A108.1 Series/A118.1 Series.

1.4 ENVIRONMENTAL REQUIREMENTS

- A. Do not install adhesives in unventilated environment.
- B. Maintain ambient and substrate temperature of 50 degrees F during installation of mortar materials.

1.5 ALLOWANCE

- A. Allow \$8.00/sf for the purchase of the tile excluding all accessories and installation.

PART 2 PRODUCTS

2.1 TILE

- A. Manufacturers:
 - 1. Dal Tile International, Core Fundamentals, Advantage Tier [Basis of Design]
 - 2. American Olean Tile Co.
 - 3. Crossville Porcelain Stone.
 - 4. Florida Tile.

2.2 COMPONENTS

- A. Porcelain Floor Tile: ANSI A137.1, conforming to the following:
 - 1. Moisture Absorption: 0 to 0.5 percent.
 - 2. Size: 12x12 x5/16 inch
 - 3. Shape: Square.
 - 4. Edge: Square/Eased.
 - 5. Surface Finish: Unglazed.
 - 6. Color: As selected from full range of standard colors.
- B. Base: Same as floor tile if there is no wall tile above.
 - 1. Length: 12" length.
 - 2. Height: 3".
 - 3. Bottom Edge: Square
 - 4. Top Edge: Eased.
 - 5. Moisture Absorption: 0 to 0.5 percent.
 - 6. Surface Finish: Unglazed.
 - 7. Color: As selected.
- C. Mortar Materials:
 - 1. Mortar Bed Materials: ANSI A108.1A; portland cement, sand, latex additive, and water; proportioned in accordance with applicable code.

2. Mortar Bond Coat Materials:
 - a. Dry-Set Portland Cement type: ANSI A118.1.
 - b. Latex-Portland Cement type: ANSI A118.4.
- D. Grout Materials:
 1. Standard Grout: Latex-Portland cement type as specified in ANSI A118.6; color as selected, sanded at floor, unsanded at walls [as applicable]
 2. Silicone Rubber Grout: Silicone sealant, moisture and mildew resistant type, complying with ANSI A118.6, color as selected.
- E. Cementitious Backer Board: Refer to Section 09 21 16.
- F. Thresholds:
 1. Extruded aluminum, with integral edge strip and bullnosed edge applicable to floor transition.
 2. Sloped profile as required to meet applicable threshold requirements for accessibility.
- G. Tile Floor Edging: Extruded Aluminum to suit condition.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify surfaces are ready to receive work.

3.2 PREPARATION

- A. Install cementitious backer board. Tape joints and corners, cover with skim coat of mortar to feather edge.

3.3 INSTALLATION

- A. Install tile, and grout in accordance with applicable requirements of ANSI A108.1 through A108.10, and TCA Handbook recommendations.
- B. Cut and fit tile to penetrations through tile, leaving sealant joint space. Form corners and bases neatly. Align floor, base and wall joints.
- C. Place tile joints uniform in width, subject to variance in tolerance allowed in tile size. Make joints watertight, without voids, cracks, excess mortar, or excess grout.
- D. Grout tile joints. Use standard grout unless otherwise indicated.
- E. Floors:
 1. Over interior cementitious backer unit substrates, install in accordance with TCA Handbook Method F113, dry-set or latex-portland cement bond coat, with standard grout.
- F. Wall Tile:
 1. Over cementitious backer units install in accordance with TCA Handbook Method W244, using membrane at bathrooms, kitchens.
 2. Over gypsum wallboard on wood studs install in accordance with TCA Handbook Method W243, thin-set with dry-set or latex-portland cement bond coat, unless otherwise indicated.

END OF SECTION

SECTION 09 64 00 - RESILIENT WOOD FLOORING

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes resilient plank flooring – direct glue down.

1.2 SUBMITTALS

- A. Product Data: Submit manufacturer's product data.
- B. Samples:
 - 1. Submit manufacturer's complete set of color samples for initial selection.

1.3 QUALITY ASSURANCE

- A. Surface Burning Characteristics:
 - 1. Floor Finishes: Class I, minimum 0.45 watts/sq cm when tested in accordance with NFPA 253.

1.4 ENVIRONMENTAL REQUIREMENTS

- A. Maintain temperature in storage area between 55 degrees F and 85 degrees F.
- B. Store materials for not less than 48 hours prior to installation in area of installation at temperature of 65 degrees F to achieve temperature stability. Thereafter, maintain conditions above 55 degrees F. Maintain relative humidity between 40% and 60% during installation.

1.5 PERFORMANCE REQUIREMENTS

- A. Fire-Test-Response Characteristics: For resilient tile flooring, as determined by testing identical products according to ASTM E 648 or NFPA 253 by a qualified testing agency.
 - 1. Critical Radiant Flux Classification: Class I, not less than 0.45 W/sq. cm.

1.6 EXTRA MATERIALS

- A. Furnish an additional 5% of each type of floor, base and accessories.
- B. Document attic stock, properly label, and turn over to Owner.

1.7 WARRANTY

- A. Furnish twenty [20] year warranty on Vinyl Plank Flooring.

PART 2 PRODUCTS

2.1 TILE FLOORING

- A. Manufacturers:
 - 1. Tarkett Luxury Vinyl Planks, Event+Wood
 - 2. Armstrong, Vinyl Plank Flooring, LUXE Best Collection.
 - 3. Congoleum Corp.
- B. Vinyl Plank Flooring: ASTM F1066:
 - 1. Tile Standard: ASTM F 1700, Class III, Type B, printed film vinyl tile, embossed surface
 - 2. Size: 6 x 36 inch.
 - 3. Wear Layer Thickness: 30 mil [embossed]
 - 4. Total Thickness: 0.120 inch
 - 5. Surface Treatment: Polyurethane – Reinforced
 - 6. Installation Method: Glue Down
 - 7. Pattern: Surface woodgrain pattern, as selected from full range of manufacturers colors.

2.2 ACCESSORIES

- A. Subfloor Filler: Premix latex; type recommended by floor material manufacturer.
- B. Primers and Adhesives: Waterproof, types recommended by floor material manufacturer.
- C. Moldings and Edge Strips: Same material as flooring as applicable, molded rubber other locations.
- D. Sealer and Wax: Types recommended by floor material manufacturer.

PART 3 EXECUTION

3.1 EXAMINATION

- A. All subfloors must be permanently dry, clean, smooth, and structurally sound. The surface must be free of all dust, loose particles, solvents, paint, grease, oil, wax, alkali, sealing/curing compounds, old adhesive, and any other foreign material, which could affect the installation and adhesive bond to the substrate. Permanent and non-permanent markers, pens, crayons, paint, or similar marking tools used to mark the substrate or the back of the resilient flooring material will cause migratory staining. All substrate contaminants must be mechanically removed prior to the installation of the flooring material. NOTE: Do not use liquid solvents or adhesive removers.
- B. Verify concrete floors are dry to maximum moisture content as recommended by manufacturer, and exhibit negative alkalinity, carbonization, and dusting.
- C. Verify that finishes of substrates comply with tolerances and other requirements specified in other Sections and that substrates are free of cracks, ridges, depressions, scale, and foreign deposits that might interfere with adhesion of resilient products.

3.2 PREPARATION

- A. Clean substrate.
- B. Fill all depressions, cracks, and other surface irregularities with a good quality Portland cement based underlayment patching compound appropriate for this purpose.
- C. Fill minor low spots and other defects with sub-floor filler.
- D. Repair concrete surfaces in accordance with ASTM F 710.
- E. Wood subfloors shall have a 1/4 or 1/2 inch APA approved underlayment plywood and approved by LVP manufacturer.
- F. Fill cracks, holes, depressions and irregularities in the substrate with good quality Portland cement based underlayment leveling and patching compound and remove bumps and ridges to produce a uniform and smooth substrate.
- G. Apply primer as required to prevent "bleed-thru" or interference with adhesion by substances that cannot be removed. Apply primer to substrate surfaces per manufacturer.

3.3 INSTALLATION

- A. Layout flooring planks in accordance with manufacturer's recommendations. Set flooring in place. Bond planks together, adhered to underlayment per manufacturer's recommendations.
- B. Install tile flooring with joints and seams parallel to building lines.
- C. Scribe flooring to produce tight joints at items penetrating flooring.
- D. Where floor finishes are different on opposite sides of door, terminate flooring under centerline of door.

- E. Apply adhesive to the underlayment in preparation for LVP, install per manufacturer's requirements.
- F. LVP shall be lightly butted together when placing the LVP into the adhesive.
- G. Roll floor in both direction with weighted roller in accordance with manufacturer's recommendations.
- H. Install edge strips at unprotected or exposed edges, where flooring terminates, and where indicated. Secure resilient strips by adhesive.
- I. Adhere base tight to wall and floor surfaces.
- J. Fit joints tightly and make vertical. Miter internal corners. At external corners, V cut back of base strip to 2/3 of its thickness and fold.

3.4 CLEANING

- A. Remove excess adhesive from surfaces without damage.

3.5 SCHEDULE

- A. Vinyl Plank Flooring: at areas identified on the drawings.

END OF SECTION

THIS SHEET LEFT INTENTIONALLY BLANK

SECTION 09 65 00 – RESILIENT RUBBER FLOORING

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes resilient tile flooring; resilient base; thresholds and resilient stair accessories

1.2 REFERENCES

- A. ASTM International:
1. ASTM F1344 - Standard Specification for Rubber Floor Tile.
 2. ASTM F1861 - Standard Specification for Resilient Wall Base.
- B. National Fire Protection Association:
1. NFPA 253 - Standard Method of Test for Critical Radiant Flux for Floor Covering Systems Using a Radiant Heat Energy Source.
- C. South Coast Air Quality Management District:
1. SCAQMD Rule 1113 - Architectural Coatings.
 2. SCAQMD Rule 1168 - Adhesive and Sealant Applications.

1.3 SUBMITTALS

- A. Shop Drawings: Indicate seaming plan, custom patterns and inlay designs.
- B. Product Data: Submit data describing physical and performance characteristics; including sizes, patterns and colors available; and installation instructions.
- C. Samples:
1. Submit manufacturer's complete set of color samples for initial selection.
 2. Submit **two** samples, illustrating color and pattern for each resilient product specified.

1.4 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: Submit maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning

1.5 QUALITY ASSURANCE

- A. Surface Burning Characteristics:
1. Base Material: Class I, minimum 0.45 watts/sq cm when tested in accordance with NFPA 253.
- B. Accessibility: Base shall comply with accessibility requirements ICC/ANSI A117.1.
1. Exceed Federal Standards and ADA requirements for slip-resistance.

1.6 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing products specified in this section with minimum ten years documented experience.
1. Manufacturers Qualifications: Product manufacturer will have a technical installation representative available at the job site at the start of the installation to insure there are no conditions which will compromise the installation of the material and that the material is being installed according to industry standards, practices and manufacturers guidelines. The manufacturer's technical representative will document and confirm that the substrate, material, and installation are in compliance with manufacturer's guidelines and accepted industry standards and practices.
 - a. Any noticed defect with the product or installation system will require the response of the manufacturer's technical field service personnel on site to determine cause, correction or replacement.

- B. Installer: Company specializing in performing Work of this section with minimum ten years documented experience.
 - 1. An installer is "qualified" if trained by the manufacturer or a certified INSTALL [International Standards and Training Alliance] resilient covering installer.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Store resilient products and installation materials in dry spaces protected from the weather, with ambient temperatures maintained within range recommended by Tarkett, but not less than 55 deg F (13 deg C) or more than 85 deg F (29 deg C).

1.8 PROJECT CONDITIONS / ENVIRONMENTAL REQUIREMENTS

- A. Install resilient products after other finishing operations, including painting, have been completed. If that is not possible due to the compressed schedule, provide all required protection of the floor system after installation until turnover of the space.
- B. Maintain ambient temperatures within range recommended by the manufacturer, but not less than 65 deg F or more than 85 deg F in spaces to receive resilient products during the following time periods:
 - 1. 48 hours before installation.
 - 2. During installation.
 - 3. 48 hours after installation.
- C. Maintain the ambient relative humidity between 40% and 60% during installation.
- D. Until Substantial Completion, maintain ambient temperatures within range recommended by the manufacturer, but not less than 55 deg F or more than 85 deg F.

1.9 EXTRA MATERIALS

- A. Furnish an additional 5% of each type of floor, base and accessories.
- B. Document attic stock, properly label, and turn over to Owner.

1.10 WARRANTY

- A. Provide five [5] year manufacturer warranty for all resilient flooring, base, and accessories.

PART 2 PRODUCTS

2.1 TILE FLOORING

- A. Manufacturers:
 - 1. Tarkett North America / Johnsonite [Basis of Design]
- B. Rubber Tile: ASTM F1344; Class I-B- Homogenous Composition of 100% synthetic rubber: Tarkett / Johnsonite Color Splash Speckled Rubber Tile
 - 1. Size: 24 x 24 inch.
 - 2. Overall Thickness: 0.125 inch.
 - 3. Colors: manufacturer standard color mix as approved by Architect and Owner.
 - 4. Surface Texture:
 - a. Hammered at all floors unless specifically noted otherwise
 - b. Raised Round at treads, ramps or other areas if specifically noted.
 - 5. Test data:
 - a. Hardness (ASTM D2240): ≥ 85 Shore A
 - b. Abrasion Resistance (ASTM D3389): Passes
 - c. Thickness Tolerance (ASTM F386): Passes
 - d. Resistance to Chemicals (ASTM F925): Passes
 - e. Static Load Resistance (ASTM F970): 250 psi

- f. Resistance to Heat (ASTM F 1514): $\Delta E \leq 8$
- g. Size/Squareness Tolerance (ASTM F2055): Passes
- h. Dimensional Stability (ASTM F2199): Passes
- i. Static Coefficient of Friction (ASTM D 2047): ≥ 0.8 SCOF, exceed ADA requirements for slip-resistance.
- j. Flammability (ASTM E648, Critical Radiant Flux): Class 1 (≥ 0.45 W/cm²)

2.2 RESILIENT BASE

- A. Manufacturers:
 - 1. Tarkett North America [Basis of Design]
 - 2. Approved Equal.
- B. Base: ASTM F1861 Type TP – Thermoplastic, Rubber; coved style:
 - 1. Height: 4 inch.
 - 2. Thickness: 0.125 inch thick.
 - 3. Finish: Satin or Matte.
 - 4. Length: 4 foot sections.
 - 5. Outside Corners: Premolded or precut. Corners shall be a minimum of 4 inches in length each direction.
 - 6. Inside Corners: Job formed

2.3 STAIR COVERING

- A. Manufacturers:
 - 1. Tarkett North America [Basis of Design]
 - 2. Must be the same manufacturer as rubber flooring system.
- B. Rubber Stair Treads: FS RR-T-650, Composition A; full width and depth of stair tread in one piece; tapered thickness; nosing not less than 2 inches deep. Tarkett / Johnsonite Color Splash Speckled Rubber Tile
 - 1. Nominal Thickness: 0.1875 inch.
 - 2. Nosing Style: Square or round to match existing conditions.
 - 3. Colors: manufacturer standard color mix as approved by Architect and Owner.
 - 4. Surface Pattern: Hammered or as directed by Owner.
- C. Stair Risers: Maintain height and length in one piece, matching treads in material and color:
 - 1. Thickness: 0.125 inch.
- D. Stair Nosings: 1-1/2 inch horizontal return, 1-1/2 inch vertical return, full width of stair tread in one piece:
 - 1. Material: Rubber.
 - 2. Nominal Thickness: 0.125 inch.
 - 3. Pattern: Smooth.

2.4 ACCESSORIES

- A. Transition Moldings and Edge Strips, same material as flooring or metal as applicable. Refer to drawings.

2.5 INSTALLATION MATERIALS

- A. Trowelable Leveling and Patching Compounds: Latex-modified, portland cement based or blended hydraulic-cement-based formulation provided or approved by manufacturer for applications indicated and coordinate with substrate.
- B. Primer: A primer may be required and must be verified by the manufacturer.
- C. Adhesives: Water-resistant type recommended by manufacturer to suit floor tile and substrate conditions indicated.

1. Adhesives shall be approved by manufacturer for use over concrete substrates with maximum RH of 85 percent (ASTM F2170) and maximum pH of 9.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine substrates, with Installer present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the work.
- B. Verify that finishes of substrates comply with tolerances and other requirements specified in other Sections and that substrates are free of cracks, ridges, depressions, scale, and foreign deposits that might interfere with adhesion of resilient products.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.
- D. Verify floor and wall surfaces are free of substances capable of impairing adhesion of new adhesive and finish materials.

3.2 PREPARATION

- A. Contractor shall provide all required field verification of conditions, quantity take-offs, layout confirmations, etc. as applicable to the work.
- B. Prohibit traffic until filler is cured.
- C. Clean substrate.
- D. Apply primer as required to prevent "bleed-thru" or interference with adhesion by substances cannot be removed.
- E. Do not install resilient products until they are same temperature as the space where they are to be installed.
 1. Move resilient products and installation materials into spaces where they will be installed at least 48 hours in advance of installation.
- F. Sweep and vacuum clean substrates to be covered by resilient products immediately before installation.

3.3 CLEANING AND PROTECTION

- A. Comply with manufacturer's written instructions for cleaning and protection of resilient products.
- B. Perform the following operations immediately after completing resilient product installation:
 1. Remove adhesive and other blemishes from exposed surfaces.
 2. Sweep and vacuum surfaces thoroughly.
 3. Damp-mop surfaces to remove marks and soil.
- C. Protect resilient products from mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period.
 1. Prohibit traffic on resilient flooring for 48 hours after installation.
 2. No heavy traffic, rolling loads, or furniture placement for 72 hours after installation.
- D. Wait 72 hours after installation before performing initial cleaning.
- E. A regular maintenance program must be started after the initial cleaning.

3.4 SCHEDULE

- A. Refer to Drawings.

END OF SECTION

SECTION 09 90 00 - PAINTING AND COATING

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes surface preparation and field application of paints and other coatings.
- B. Paint/Stain all exposed surfaces, new and existing, unless otherwise indicated.
 - 1. Exterior Work:
 - a. Exterior wood and composite siding, soffits and trim.
 - b. Door Frames.
 - c. Metal railings and handrails.
 - d. Steel lintels.
 - e. Steel bollards
 - 2. Interior Work
 - a. Basement Concrete / CMU Walls
 - b. Walls and ceilings.
 - c. Interior trim and casing
 - d. Doors and frames.
 - e. Shelving and miscellaneous components.
 - f. Hardwood flooring
- C. Do not paint prefinished items, finished metal surfaces, operating parts, labels, and materials obviously intended to be left exposed such as brick and tile.
- D. Unless otherwise indicated do not paint concealed surfaces.
- E. Obtain primers and undercoat materials for each coating system from the same manufacturer as the finish coats. Primer and finish coat shall be factory applied, finish coat shall be field applied.
- F. **Extra Materials:** Deliver to Owner **any extra materials**, properly labeled, factory sealed, of each color and type of finish coat paint used on project for each building in contract. Materials shall be signed for by GDPM Construction Inspector.
- G. Minimum surface temperature of 50 degrees required for all coating systems.
- H. Store all materials in tightly closed containers when not in use, away from heat, electrical equipment, sparks and open flames. Use approved bonding and grounding procedures. Keep out of the reach of children and residents.
- I. Transfer materials to approved containers with complete and appropriate labeling.

1.2 APPLICATORS QUALIFICATIONS

- A. Engage an experienced applicator with a minimum of five years experience and who has completed painting systems application similar in materials and extend to those indicated for the Project and that have resulted in a construction record of successful in-service performance.

1.3 SUBMITTALS

- A. Product Data and Color Samples: Provide product data on each coating system component indicating VOC and environmental requirements. Coordinate coating systems for each material/substrate.
- B. Provide draw down samples of each coating for final review and approval by Owner.

1.4 REFERENCES AND REGULATIONS:

- A. Standards: Comply with applicable provisions and recommendations of the following, except when otherwise shown or specified:

1. OSHA Safety Standards for the Construction Industry
2. SSPC Volume 1, Good Painting Practice,
3. SSPC Volume 2, Systems and Specifications, Surface Preparation Guide and Paint Application Specifications of the Steel Structures Painting Council.
4. SSPC and NACE Painter Safety Guidelines, latest editions.

B. Requirements of Regulatory Agencies, conform with the following:

1. Clean Air Act (CAA)
2. Clean Water Act (CWA)
3. Toxic Substances Control Act (TSCA)

1.5 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: Submit maintenance and cleaning instructions.

1.6 QUALITY ASSURANCE

A. Surface Burning Characteristics:

1. Fire Retardant Finishes: Maximum 25/450 flame spread/smoke developed index when tested in accordance with ASTM E84.

1.7 ENVIRONMENTAL REQUIREMENTS

- A. Store and apply materials in environmental conditions required by manufacturer's instructions.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver manufacturer's unopened containers to the work site. Packaging shall bear the manufacturer's name, label, and the following list of information:

1. Product name and type (description)
2. Application & use instructions
3. Surface preparation
4. VOC content
5. Environmental handling and an SDS
6. Batch date
7. Color number

- B. Storage: Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction. Store materials in an area that is within the acceptable temperature range, per manufacturer's instructions. Protect from freezing.

- C. Handling: Maintain a clean, dry storage area to prevent contamination or damage to the coatings.

1.9 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not apply coatings under environmental conditions outside manufacturer's absolute limits.

1.10 MOCKUP

- A. Apply benchmark samples of each paint system indicated and each color and finish selected to verify preliminary selections and demonstrate aesthetic effects and set quality standards for materials and execution.

PART 2 PRODUCTS

2.1 PAINT AND COATINGS

A. Manufacturer

1. Sherwin-Williams (SW) – Basis of Design

2. PPG Porter
 3. Benjamin Moore
- B. Paints and Coatings - General:
1. Unless otherwise indicated, provide factory-mixed coatings. When required, mix coatings to correct consistency in accordance with manufacturer's instructions before application. Do not reduce, thin, or dilute coatings or add materials to coatings unless such a procedure is specifically described in manufacturer's product instructions. VOCs need to be confirmed by using the products EDS sheets.
- C. Primers:
1. Where the manufacturer offers options on primers for a particular substrate, use primer categorized as "best" by the manufacturer.
- D. Coating Application Accessories:
1. Provide all primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean-up materials required per manufacturer's specifications.
- E. Colors: As selected from a full range of manufacturer's offerings, including premium colors.
- F. Color Pigments: Pure, non-fading, applicable types to suit substrates and service indicated.
- G. Color Pigments: Pure, non-fading, applicable types to suit substrates and service indicated.
1. Lead: Measurable lead content in either the pigment or binder will not be permitted.
 2. The finish coats shall match colors selected.
- H. Finish Quality:
1. Finishes shall exhibit a high quality, commercial grade appearance of uniform thickness.
 2. Finishes shall be free of runs, sags, drips, waves, orange peel, festoons, dry spray, cloudiness, spotting, ropiness, brush marks, roller marks, fish eyes or other surface imperfections, voids, discontinuities, pinholes, holidays and overspray.
 3. Final coat shall be uniform in texture, color and gloss, and shall provide an acceptable match with the approved drawdown sample sheet.
- I. Contractor shall provide for a minimum of the following:
1. Exterior Finishes: 3 colors
 2. Interior Finishes: 4 colors – ceiling, walls, accent wall, and trim

2.2 EXTERIOR PAINT APPLICATION SCHEDULE

General: All coatings shall be applied according to manufacturer's application instructions, including application rates for wet film and dry film thickness.

- A. Metals - Ferrous: [Semi-Gloss Finish]
1. 1st Coat: S-W Pro Industrial™ Pro-Cryl® Universal Primer, B66-1300 Series
 2. 2nd Coat: S-W Emerald® Urethane Trim Enamel Semi-Gloss, K38 Series
 3. 3rd Coat: S-W Emerald® Urethane Trim Enamel Semi-Gloss, K38 Series
- B. Metals – Aluminum / Galvanized: [Semi-Gloss Finish]
1. 1st Coat: S-W Pro Industrial DTM Acrylic Primer / Finish, B66 Series
 2. 2nd Coat: S-W Pro Industrial DTM Acrylic Enamel Semi-Gloss, B66 Series
 3. 3rd Coat: S-W Pro Industrial DTM Acrylic Enamel Semi-Gloss, B66 Series
- C. Exterior Wood / Composite Trim, etc: [Satin Finish]
1. 1st Coat: S-W Exterior Latex Wood Primer, B42W8141
 2. 2nd Coat: S-W SuperPaint® Exterior Latex Satin, A89 Series
 3. 3rd Coat: S-W SuperPaint® Exterior Latex Satin, A89 Series
- D. Miscellaneous metals and steel lintels:
1. 1st Coat: S-W DTM Acrylic Primer/Finish.
 2. 2nd Coat: S-W SW DTM Acrylic Semi-Gloss Enamel Semi-Gloss, Acrylic Coating.

3. 3rd Coat: S-W SW DTM Acrylic Semi-Gloss Enamel Semi-Gloss, Acrylic Coating.

2.3 INTERIOR PAINT APPLICATION SCHEDULE

- A. Concrete / Concrete Block / CMU Basement Walls:
 1. 1st Coat: UGL Drylok Wet Wall Bonding Primer
 2. 2nd Coat: UGL Drylok Original Concrete and Masonry Waterproofer
 3. 3rd Coat: UGL Drylok Original Concrete and Masonry Waterproofer
- B. Metals - Ferrous: [Semi-Gloss Finish]
 1. 1st Coat: S-W Pro Industrial™ Pro-Cryl® Universal Primer, B66-1300 Series
 2. 2nd Coat: S-W Pro Industrial™ Semi-Gloss Acrylic, B66-650 Series
 3. 3rd Coat: S-W Pro Industrial™ Semi-Gloss Acrylic, B66-650 Series
- C. Metals – Aluminum / Galvanized: [Semi-Gloss Finish]
 1. 1st Coat: S-W Pro Industrial™ Pro-Cryl® Universal Primer, B66-1300 Series
 2. 2nd Coat: S-W Pro Industrial™ Semi-Gloss Acrylic, B66-650
 3. 3rd Coat: S-W Pro Industrial™ Semi-Gloss Acrylic, B66-650
- D. Painted Wood Trim, Trim Components, Doors, and Frames: [Semi-Gloss Finish]
 1. 1st Coat: S-W Premium Wall & Wood Latex Primer, B28W8111
 2. 2nd Coat: S-W ProMar® HP 200 Zero VOC Latex Semi-Gloss, B31-1900 Series
 3. 3rd Coat: S-W ProMar® HP 200 Zero VOC Latex Semi-Gloss, B31-1900 Series
- E. Wood: [Eg-Shel/Satin Finish]
 1. 1st Coat: S-W Premium Wall & Wood Latex Primer, B28W8111
 2. 2nd Coat: S-W ProMar® 200 HP Zero VOC Latex Eg-Shel, B20-1900 Series
 3. 3rd Coat: S-W ProMar® 200 HP Zero VOC Latex Eg-Shel, B20-1900 Series
- F. Gypsum Board Walls: [Eg-Shel/Satin Finish]
 1. 1st Coat: S-W ProMar® 200 Zero VOC Latex Primer, B28W2600
 2. 2nd Coat: S-W ProMar® 200 HP Zero VOC Latex Eg-Shel, B20-1900
 3. 3rd Coat: S-W ProMar® 200 HP Zero VOC Latex Eg-Shel, B20-1900
- G. Gypsum Board Ceilings: [Flat Finish]
 1. 1st Coat: S-W ProMar® 200 Zero VOC Latex Primer, B28W2600
 2. 2nd Coat: S-W ProMar® 200 Zero VOC Latex Flat, B30-12600 Series
 3. 3rd Coat: S-W ProMar® 200 Zero VOC Latex Flat, B30-12600 Series
- H. Stained Interior Finish Carpentry / Wood Doors [if not pre-finished / painted]
 1. 1st coat: Wood Conditioner: SW Min-Wax Pre-Stain Wood Conditioner
 2. 2nd coat: Wood Stain: SW Min-Wax Performance Series Tintable Wood Stain 250 VOC,
 3. 3rd coat: Sealer: SW Min-Wax Performance Series Fast-Dry Sanding Sealer.
 4. 4th / 5th coats: Satin Varnish: SW Min-Wax Fast-Dry Polyurethane

2.4 PRE-CLEANING AND SURFACE PREPARATION PRODUCTS

- A. Pre-cleaning Agents
 1. SW No Rinse Prepaint Cleaner
 2. Krud Kutter
 3. Potable water
- B. Pre-cleaning (Power Wash) Equipment
 1. Capacity to continuously deliver 3-5 gpm at 2,500 psig of 180-200 degree F hot water.
 2. Cleaning system shall affect the 32-ounce per gallon dilution.
 3. Manufacturer: Alkota, Model 565T with model 520 water heater or approved equal.
 4. Power wash with 15 degree tip capable of delivering hot water at 2500 psig.
- C. Power Tool Surface Preparation Media:
 1. Scotch Brite No. 07451 by 3 M Corporation, Surface Conditioning disc.
 - a. Properties

- b. Texture: A Medium
- c. Maximum Speed: 18,000 RPM
- 2. Clean "N" Strip Disco No CSD2 by 3 M Corporation
 - a. Texture: Course
 - b. Maximum Speed: 8,000 RPM
 - c. Or approved equal.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin application of coatings until substrates have been properly examined and prepared. Notify Architect of unsatisfactory conditions before proceeding.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
- C. Proceed with work only after conditions have been corrected, and approved by all parties, otherwise application of coatings will be considered as an acceptance of surface conditions.
- D. Previously Painted Surfaces: Verify that existing painted surfaces do not contain lead based paints, notify Architect immediately if lead based paints are encountered.

3.2 SURFACE PREPARATION

- A. Comply with paint manufacturer's written instructions for surface preparation, environmental and substrate conditions, product mixing, and application.
- B. Perform all surface preparation in accordance with SSPC specifications, guidelines and good painting practices.
- C. Proper product selection, surface preparation, and application affect coating performance. Coating integrity and service life will be reduced because of improperly prepared surfaces. Selection and implementation of proper surface preparation ensures coating adhesion to the substrate and prolongs the service life of the coating system.
- D. Selection of the proper method of surface preparation depends on the substrate, the environment, and the expected service life of the coating system. Economics, surface contamination, and the effect on the substrate will also influence the selection of surface preparation methods.
- E. The surface must be dry and in sound condition. Remove oil, dust, dirt, loose rust, peeling paint or other contamination to ensure good adhesion. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.
- F. Prior to attempting to remove mildew, it is always recommended to test any cleaner on a small, inconspicuous area prior to use. Bleach and bleaching type cleaners may damage or discolor existing paint films. Bleach alternative cleaning solutions may be advised.
- G. Mildew may be removed before painting by washing with a solution of 1 part liquid bleach and 3 parts water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with water and allow the surface to dry before painting. Wear protective eyewear, waterproof gloves, and protective clothing. Quickly wash off any of the mixture that comes in contact with your skin. Do not add detergents or ammonia to the bleach/water solution.
- H. No exterior painting should be done immediately after a rain, during foggy weather, when rain is predicted, or when the temperature is below 50°F, unless products are designed specifically for these conditions. On large expanses of metal siding, the air, surface and material temperatures must be 50°F or higher to use low temperature products.
- I. Methods:

1. Aluminum: Remove all oil, grease, dirt, oxide and other foreign material by cleaning per SSPC-SP1, Solvent Cleaning.
2. Block (Cinder and Concrete): Remove all loose mortar and foreign material. Surface must be free of laitance, concrete dust, dirt, form release agents, moisture curing membranes, loose cement, and hardeners. Concrete and mortar must be cured at least 30 days at 75°F unless the manufacturer's products are designed for application prior to the 30-day period. The pH of the surface should be between 6 and 9 unless the products are designed to be used in high pH environments. On tilt-up and poured-in-place concrete, commercial detergents and abrasive blasting may be necessary to prepare the surface. Fill bug holes, air pockets, and other voids with a cement patching compound.
3. Concrete, SSPC-SP13 or NACE 6: This standard gives requirements for surface preparation of concrete by mechanical, chemical, or thermal methods prior to the application of bonded protective coating or lining systems. The requirements of this standard are applicable to all types of cementitious surfaces including cast-in-place concrete floors and walls, precast slabs, masonry walls, and shotcrete surfaces. An acceptable prepared concrete surface should be free of contaminants, laitance, loosely adhering concrete, and dust, and should provide a sound, uniform substrate suitable for the application of protective coating or lining systems.
4. Cement Composition Siding/Panels: Remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Existing peeled or checked paint should be scraped and sanded to a sound surface. Pressure clean, if needed, with a minimum of 2100 psi pressure to remove all dirt, dust, grease, oil, loose particles, laitance, foreign material, and peeling or defective coatings. Allow the surface to dry thoroughly. The pH of the surface should be between 6 and 9, unless the products are designed to be used in high pH environments.
5. Drywall—Exterior: Must be clean and dry. All nail heads must be set and spackled. Joints must be taped and covered with a joint compound. Spackled nail heads and tape joints must be sanded smooth and all dust removed prior to painting. Exterior surfaces must be spackled with exterior grade compounds.
6. Exterior Composition Board (Hardboard): Some composition boards may exude a waxy material that must be removed with a solvent prior to coating. Whether factory primed or unprimed, exterior composition board siding (hardboard) must be cleaned thoroughly and primed with an alkyd primer.
7. Galvanized Metal: Clean per SSPC-SP1 using detergent and water or a degreasing cleaner to remove greases and oils. Apply a test area, priming as required. Allow the coating to dry at least one week before testing. If adhesion is poor, Brush Blast per SSPC-SP16 is necessary to remove these treatments.
8. Steel: Structural, Plate, etc.: Should be cleaned by one or more of the surface preparations described below. These methods are used throughout the world for describing methods for cleaning structural steel. Visual standards are available through the Society of Protective Coatings. A brief description of these standards together with numbers by which they can be specified follow.
9. Solvent Cleaning, SSPC-SP1: Solvent cleaning is a method for removing all visible oil, grease, soil, drawing and cutting compounds, and other soluble contaminants. Solvent cleaning does not remove rust or mill scale. Change rags and cleaning solution frequently so that deposits of oil and grease are not spread over additional areas in the cleaning process. Be sure to allow adequate ventilation.
10. Hand Tool Cleaning, SSPC-SP2: Hand Tool Cleaning removes all loose mill scale, loose rust, and other detrimental foreign matter. It is not intended that adherent mill scale, rust, and paint be removed by this process. Before Hand Tool Cleaning, remove visible oil, grease, soluble welding residues, and salts by the methods outlined in SSPC-SP1.
11. Power Tool Cleaning, SSPC-SP3: Power Tool Cleaning removes all loose mill scale, loose rust, and other detrimental foreign matter. It is not intended that adherent mill scale, rust, and paint be removed by this process. Before Power Tool Cleaning, remove visible oil, grease, soluble welding residues, and salts by the methods outlined in SSPC-SP1.

12. White Metal Blast Cleaning, SSPC-SP5 or NACE 1: A White Metal Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products, and other foreign matter. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP1 or other agreed upon methods.
13. Commercial Blast Cleaning, SSPC-SP6 or NACE 3: A Commercial Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products, and other foreign matter, except for staining. Staining shall be limited to no more than 33 percent of each square inch of surface area and may consist of light shadows, slight streaks, or minor discoloration caused by stains of rust, stains of mill scale, or stains of previously applied paint. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP1 or other agreed upon methods.
14. Brush-Off Blast Cleaning, SSPC-SP7 or NACE 4: A Brush-Off Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, loose mill scale, loose rust, and loose paint. Tightly adherent mill scale, rust, and paint may remain on the surface. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP 1 or other agreed upon methods.
15. Brush-Off Blast Cleaning of Coated and Uncoated Galvanized Steel, Stainless Steels, and Non-Ferrous Metals, SSPC-SP16: This standard covers the requirements for brush-off blast cleaning of uncoated or coated metal surfaces other than carbon steel by the use of abrasives. These requirements include visual verification of the end condition of the surface and materials and procedures necessary to achieve and verify the end condition. A brush-off blast cleaned non-ferrous metal surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, metal oxides (corrosion products), and other foreign matter. Intact, tightly adherent coating is permitted to remain. A coating is considered tightly adherent if it cannot be removed by lifting with a dull putty knife.
16. Power Tool Cleaning to Bare Metal, SSPC-SP11: Metallic surfaces that are prepared according to this specification, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxide corrosion products, and other foreign matter. Slight residues of rust and paint may be left in the lower portions of pits if the original surface is pitted. Prior to power tool surface preparation, remove visible deposits of oil or grease by any of the methods specified in SSPC-SP1, Solvent Cleaning, or other agreed upon methods.
17. Near-White Blast Cleaning, SSPC-SP10 or NACE 2: A Near White Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products, and other foreign matter, except for staining. Staining shall be limited to no more than 5 percent of each square inch of surface area and may consist of light shadows, slight streaks, or minor discoloration caused by stains of rust, stains of mill scale, or stains of previously applied paint. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP1 or other agreed upon methods.
18. Water Blasting, NACE Standard RP-01-72: Removal of oil grease dirt, loose rust, loose mill scale, and loose paint by water at pressures of 2,000 to 2,500 psi at a flow of 4 to 14 gallons per minute.
19. Stucco: Must be clean and free of any loose stucco. If recommended procedures for applying stucco are followed, and normal drying conditions prevail, the surface may be painted in 30 days. The pH of the surface should be between 6 and 9, unless the products are designed to be used in high pH environments such as Loxon.
20. Wood—Exterior: Must be clean and dry. Knots and pitch streaks must be scraped, sanded, and spot primed before a full priming coat is applied. Patch all nail holes and imperfections with a wood filler or putty and sand smooth.
21. Vinyl Siding, Architectural Plastics & Fiberglass or other PVC, plastic building products. Clean the surface thoroughly by scrubbing with warm, soapy water. Rinse thoroughly, prime with appropriate white primer. Do not paint vinyl with any color darker than the

original color. Do not paint vinyl with a color having a Light Reflective Value (LRV) of less than 56 unless VinylSafe® Colors are used. If VinylSafe® Colors are not used and darker colors lower than an LRV of 56 are, the vinyl may warp. Follow all painting guidelines of the vinyl manufacturer when painting. Only paint properly installed vinyl siding. Deviating from the manufacturer's painting guidelines may cause the warranty to be voided.

3.3 APPLICATION

- A. Examination and Verification of Condition: Contractor shall verify the areas and conditions under which the work is to be performed and notify the Owner in writing of conditions detrimental to the proper and timely completion of the Work. Do not proceed with the Work until satisfactory conditions have been corrected. Do not coat over chalk, dirt, scale, moisture, oil, surface contaminants, coatings that have exceeded the manufacturer's re-coat guidelines, or conditions otherwise detrimental to the formation of a durable high quality coating system.
- B. Comply with manufacturer's instructions and SSPC Good Paint Practices Volumes 1 and 2.
- C. Comply with OSHA regulations, State of Ohio and Federal laws, ordinances, and guidelines.
- D. Follow manufacturer's requirements for temperature and humidity at time of application.
- E. Refer to SDS sheets before using any product.
- F. All surfaces must be thoroughly dry before coating applications. Do not apply to wet or damp surfaces.
 - 1. Wait at least 30 days before applying to new concrete or masonry or follow manufacturer's procedures to apply appropriate coatings prior to 30 days.
 - 2. Test new concrete for moisture content.
 - 3. Wait until wood is fully dry after rain or morning fog or dew.
- G. Apply coatings using brush or roller only.
- H. Apply all coatings and materials with the manufacturer's specifications in mind. Mix and thin coatings according to manufacturer's recommendation.
- I. Apply coatings using methods recommended by manufacturer.
- J. Uniformly apply coatings without runs, drips, or sags, without brush marks, and with consistent sheen.
- K. Apply coatings at spreading rate required to achieve the manufacturer's recommended dry film thickness.
- L. Regardless of number of coats specified, apply as many coats as necessary for complete hide.
- M. Exterior Woodwork: If final painting must be delayed more than 2 weeks after installation of woodwork, apply primer within 2 weeks and final coating within 2 weeks.
- N. Inspection: The coated surface must be inspected and approved by the Architect or Engineer just prior to the application of each coat.

3.4 CLEAN UP

- A. Clean site and remove debris and empty cans daily. Remove all paint from adjacent surfaces. Clean spills and splatters immediately.
- B. Clean hands and tools immediately after use with soap and water for water based products and with mineral spirits for oil based products.
- C. Follow manufacturer's safety recommendations when using mineral spirits.

3.5 ENVIRONMENTAL REQUIREMENTS

- A. Store and apply materials in environmental conditions required by manufacturer's instructions.

END OF SECTION

THIS SHEET LEFT INTENTIONALLY BLANK

SECTION 10 00 00 - SPECIALTIES

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes address plaques, mailboxes

1.2 SUBMITTALS

- A. Shop Drawings: Indicate component locations, dimensions, details of blocking and attachment, and anchors.
- B. Product Data: Submit data on Product and accessories.

PART 2 PRODUCTS

2.1 CAST ALUMINUM ADDRESS PLAQUES

- A. Cast aluminum address plaque, 6 1/4 x 11 inch face x 1/4 inch thickness, 4 inch high numbers. Raised numbers on contrasting background, Color as selected by Architect. Provide Type II braille at all front entrances [glue onto face of address plaque]
 - 1. Front Entrances:
 - a. Provide [1] address plaque for each front entrance.
 - b. Provide [1] address plaque for each individual entrance.
 - 2. Rear Entrances:
 - a. Provide [1] address plaque for each rear entrance.

2.2 EXTERIOR WALL MOUNTED MAILBOXES

- A. Surface Mounted – Traditional Mailbox, Standard – Horizontal Style with top hinged lid. Provide address number / unit number label at each mailbox. Color: black

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify surfaces and internal wall blocking are ready to receive work and opening dimensions are as instructed by manufacturer.

3.2 INSTALLATION – ADDRESS PLAQUES

- A. Install address plaques at existing walls near location of existing address plaque to be removed. Coordinate exact location with Architect.

END OF SECTION

THIS SHEET LEFT INTENTIONALLY BLANK

SECTION 10 28 00 - BATH ACCESSORIES

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes bath accessories.

1.2 SUBMITTALS

- A. Product Data: Submit data on accessories describing size, finish, details of function, attachment methods.

PART 2 PRODUCTS

2.1 TOILET AND BATH ACCESSORIES

- A. Manufacturers:
 - 1. American Specialties, Inc.
 - 2. Bobrick Washroom Accessories
 - 3. A&J Washroom Accessories
 - 4. Broan / Nutone

2.2 COMPONENTS

- A. Accessories - General: Shop assembled, free of dents and scratches and packaged complete with anchors and fittings, steel anchor plates, adapters, and anchor components for installation.
 - 1. Grind welded joints smooth.
 - 2. Fabricate units made of metal sheet of seamless sheets, with flat surfaces.
- B. Stainless Steel Sheet: ASTM A666, Type 304.
- C. Stainless Steel Tubing: ASTM A269, stainless steel.
- D. Galvanized Sheet Steel: ASTM A653, G90 zinc coating.
- E. Mirror Glass: Float glass, Type I, Class 1, Quality q2 (ASTM C 1036), with silvering, copper coating, and suitable protective organic coating to copper backing in accordance with FS A-A-3002.
- F. Fasteners, Screws, and Bolts: Hot dip galvanized.
- G. Expansion Shields: Fiber, lead, or rubber as recommended by accessory manufacturer for component and substrate.

2.3 ACCESSORIES

- A. Toilet Tissue Holder (recessed): Wall mounted, stainless steel, rectangular-shaped bracket and back plate for concealed attachment, satin finish.
 - 1. Manufactured by ASI, #7402.
- B. Towel Bar 18" and 24" bar with back plate for concealed attachment, satin finish, 3/4" square bar
 - 1. Manufactured by ASI, #7360.
- C. Grab Bar: 18", 24", 36", 42" and 48" and corner grab bar with back plate for concealed attachment, stainless steel satin finish, 1 1/2" diameter
 - 1. Manufactured by ASI, #3200 Type 01.
 - 2. Manufactured by ASI, #3574 Type 01, corner shower grab bar
- D. Robe Hook: Single hook type.

1. Manufactured by ASI, #7340.
- E. Mirror:
1. Manufactured by ASI #600 Series, 18" wide x 36" high
 2. Stainless steel, Type 304 with #8 finish
- F. Medicine Cabinet:
1. Basco WM331-W, surface mounted Medicine cabinet, 18" x 36"
 2. Stainless steel framed mirror door concealing storage cabinet equipped with swing door with magnetic catch with continuous piano hinge.
 3. Four adjustable stainless steel shelves.
 4. Baked Enamel Interior finish.
- G. Shower Curtain Rod:
1. Manufactured by ASI, #1214, with concealed mounted brackets.
 2. Length: 60" +/- (cut length of opening)
- H. Shower Curtain Hooks:
1. Manufactured by ASI, #1200-SHU
- I. Shower Seat:
1. Manufactured by ASI, # 8205, left or right hand as required for conditions.
 2. Padded seat, folding, accessible type.

2.4 FACTORY FINISHING

- A. Stainless Steel: **Satin finish.**
- B. Baked Enamel: Pretreat to clean condition, apply one coat primer and minimum two coats baked enamel.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify exact location of accessories for installation and that blocking is in place to receive accessory.

3.2 PREPARATION

- A. Deliver inserts and rough-in frames to site. Provide templates and rough-in measurements.
- B. Install solid 2 x 8 (minimum) blocking behind all accessories.

3.3 INSTALLATION

- A. Install plumb and level, securely and rigidly anchored to substrate.
- B. Mounting Heights and Locations: As indicated on Drawings:

END OF SECTION

SECTION 10 44 00 - FIRE PROTECTION SPECIALTIES

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes: Fire extinguishers; fire extinguisher cabinets.

1.2 PERFORMANCE REQUIREMENTS

- A. Conform to **NFPA 10 and City of Dayton Fire Department Requirements**.
- B. Provide extinguishers classified and labeled by UL for purpose specified and indicated.
- C. Provide fire extinguisher cabinets classified and labeled by UL or testing firm acceptable to authority having jurisdiction for purpose specified and indicated.

1.3 SUBMITTALS

- A. Shop Drawings: Indicate cabinet physical dimensions, rough-in measurements for recessed cabinets, wall bracket mounted measurements, location, fire ratings.
- B. Product Data: Extinguisher operational features, color and finish, anchorage details.
- C. Manufacturer's Installation Instructions: Special criteria and wall opening coordination requirements.
- D. Manufacturer's Certificate: Certify products meet or exceed specified requirements.

1.4 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: Test, refill or recharge schedules, and re-certification requirements.

1.5 ENVIRONMENTAL REQUIREMENTS

- A. Do not install extinguishers when ambient temperature are capable of freezing extinguisher ingredients.

PART 2 PRODUCTS

2.1 FIRE EXTINGUISHERS

- A. Manufacturers:
 - 1. Larsen
 - 2. Kidde
 - 3. Equal
- B. Dry Chemical Type: Aluminum tank, with pressure gage; Class A: B: C, Size 10.

2.2 FIRE PROTECTION CABINETS

- A. Manufacturers:
 - 1. Larsen or Equal.
- B. Metal: Formed sheet steel, white baked enamel finish.
- C. Configuration: Semi-recessed type, sized to accommodate accessories.
- D. Door: Horizontal Duo steel with clear acrylic glazing; latch access.
- E. Cabinet Mounting Hardware: Appropriate to cabinet.
- F. Form cabinet enclosure with right angle inside corners and seams.
- G. Pre-drill for anchors.

- H. Hinge doors for 180-degree opening with continuous piano hinge.
- I. Weld, fill, and grind components smooth.
- J. Glaze doors with resilient channel gasket glazing.

2.3 ACCESSORIES

- A. Extinguisher Brackets: Formed steel, white enamel finish.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify rough openings for cabinet are correctly sized and located.

3.2 INSTALLATION

- A. Install cabinets maximum 48 inches from finished floor to top of extinguisher handle.
- B. Install wall brackets maximum 48 inches from finished floor to top of extinguisher handle.
- C. Position cabinet signage as required by authorities having jurisdiction.

3.3 SCHEDULES

- A. Fire Extinguisher Cabinets: Surface Mounted or Semi-Recessed Fire Rated Cabinets in Common Areas as indicated on drawings, or as approved by City of Dayton Fire Department.
- B. Fire Extinguishers: 1 per unit.

END OF SECTION

SECTION 11 31 00 - RESIDENTIAL APPLIANCES

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes Energy Star rated appliances: refrigerator, range with anti-tip kit, range hood and splash plates.

1.2 SUBMITTALS

- A. Product Data: Submit data on equipment and accessories.
- B. Manufacturer's Installation Instructions: Submit manufacturer's installation instructions.

1.3 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: Submit relevant instructions.

PART 2 PRODUCTS

2.1 RESIDENTIAL EQUIPMENT

- A. Manufacturers:
 - 1. General Electric
 - 2. Whirlpool
 - 3. Maytag
 - 4. Hotpoint

2.2 APPLIANCES – STANDARD UNITS

- A. Refrigerator: GE Model GTE18GTNRWW, 17.5 cubic feet capacity, free standing type, self defrosting, double door with freezer compartment over, upfront temperature controls, meat keeper and crisper, glass shelves, white color. Energy Star Rated.
- B. Range: GE Model JB256DMWW, electric freestanding type, porcelain enamel top with four coil top burners with front controls, self-cleaning oven below with top and bottom elements, with two porcelain-enameled steel racks, vision panel, interior oven light, white color.
- C. Range Hood: GE JVX5305DJWW, 30" range hood, ducted, two speed with fan control, light control with [2] 15W energy efficient appliance bulbs, white color, Energy Star Rated.
- D. Splash guard: Broan SP300108, 30" x 24", white color. Locate behind range.
- E. Range Fire Suppression System: Louisville Fire & Safety, Stovetop Firestop Venthod or Equal. Fire suppression powder canister, attach with magnets to underside of range hood.

2.3 APPLIANCES – ACCESSIBLE UNITS

- A. Refrigerator: GE Model GTE18GTNRWW, 17.5 cubic feet capacity, free standing type, self defrosting, double door with freezer compartment over, upfront temperature controls, meat keeper and crisper, glass shelves, white color. Energy Star Rated, ADA Compliant.
- B. Range: GE Model JD630DTWW, electric drop-in, glass top with four top burners with front controls, self-cleaning oven below with top and bottom elements, with two porcelain-enameled steel racks, vision panel, interior oven light, white color, ADA Compliant.
- C. Range Hood: GE JVX5305DJWW, 30" range hood, ducted, two speed with fan control, light control with [2] 15W energy efficient appliance bulbs, white color, Energy Star Rated. Wire to switch located on wall.
- D. Splash guard: Broan SP300108, 30" x 24", white color. Locate behind range.

- E. Range Fire Suppression System: Louisville Fire & Safety, Stovetop Firestop Venthod or Equal. Fire suppression powder canister, attach with magnets to underside of range hood.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify openings and utility services are ready to receive work and opening dimensions are as indicated on shop drawings and instructed by manufacturer.

3.2 INSTALLATION

- A. Appliances
 1. Set and adjust unit's level and plumb.
 2. Connect to utilities and make units operational.
 3. Activate units to confirm correct operation.
 4. Turn refrigerators on to moderate temperature setting.
 - a. Locate door handle as required. Field verify door swing.
 5. Range: Install anti-tip safety device on range.
 6. Range Hood: Recirculating type
 7. Install range splash plates, install with adhesive to wall and color match screws.

END OF SECTION

SECTION 12 20 00 - WINDOW TREATMENTS

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes vinyl mini-blinds and operating hardware.

1.2 SUBMITTALS

- A. Product Data: Submit data indicating physical and dimensional characteristics, operating features.
- B. Samples: Submit two samples illustrating slat materials and finish, color, cord type and color.

PART 2 PRODUCTS

2.1 HORIZONTAL BLINDS

- A. Manufacturers:
 - 1. Bali Blinds, Vinyl Horizontal Blinds, Value Vinyl Blinds
 - 2. Hunter Douglas
 - 3. Levolor
 - 4. Equal

2.2 COMPONENTS

- A. Mini Blinds: 1" vinyl horizontal slat louvers hung from full-width aluminum head rail with full-width bottom rail; cordless manual control with full range operation, blade angle adjustment by control wand.
 - 1. Slat Support: Woven polypropylene cord, ladder configuration.
 - 2. Pull Cord: Cordless.
 - 3. Color: As selected from manufacturer's standard colors.
 - 4. Roller Mechanism: Internally fitted with hardware for blind operation.
 - 5. Attachment Hardware: Type recommended by blind manufacturer. Brackets shall be heavy-duty type.

2.3 FABRICATION

- A. Fabricate blinds to fit within openings with uniform edge clearance of 1/2 inch.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify openings are ready to receive the Work.

3.2 INSTALLATION

- A. Secure in place with flush countersunk fasteners.
- B. Adjust blinds for smooth operation.
- C. Provide blinds at each window opening, sized to fit openings.

END OF SECTION

THIS SHEET LEFT INTENTIONALLY BLANK

SECTION 12 35 30 - RESIDENTIAL CASEWORK

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes shop fabricated residential cabinet units with hardware and plastic laminate counter tops.

1.2 SUBMITTALS

- A. Shop Drawings: Indicate casework locations, scale plans, elevations and clearances required.
- B. Product Data: Submit data on component profiles, sizes, assembly methods, and schedule of finishes.
- C. Samples: Submit two wood samples, 2 x 2 inch in size of the final wood stain/finish selection and rings for counter top finish selection.

1.3 QUALITY ASSURANCE

- A. Perform Work in accordance with KCMA (Directory of Certified Cabinet Manufacturers) - Certification Program.

1.4 ENVIRONMENTAL REQUIREMENTS

- A. Install after interior temperature and humidity are controlled and stabilized.

PART 2 PRODUCTS

2.1 KITCHEN AND BATHROOM CASEWORK

- A. Manufacturer
 - 1. Quality Cabinets
 - 2. Smart Cabinets
 - 3. Mid America Cabinets
 - 4. Evans
 - 5. TruWood
- B. Cabinet Specification:
 - 1. Wood Species: Maple
 - 2. Door Overlay Style: Partial Overlay,
 - 3. Drawer Style: Solid Drawer Front
 - 4. Door Style: Recessed Panel Door style [exact profile as selected by Architect]
 - 5. Finish: Stained Finish as selected from full range of available finishes for Maple Cabinets, all exposed to view components shall be maple / maple veneer and of matching finishes.
- C. Kitchen and Bathroom cabinet Construction:
 - 1. Traditional HUD severe use
 - 2. Face Frames: 3/4 inch thick solid door frames and drawer fronts
 - a. 1-1/2 inch wide stiles
 - b. 3 inch wide mulls
 - c. 1-3/4 inch wide rails
 - 3. End Panels: 1/2 inch thick multi-ply hardwood plywood dadoed to receive tops and bottoms, Type 1 exterior glue
 - 4. Top and Bottom Panels: 1/2 inch thick multi-ply hardwood plywood
 - 5. Hanging Rails:
 - a. Base Cabinets: 3/4 inch thick x 7-1/4 inch high multi-ply hardwood plywood running full cabinet width at top

- b. Wall Cabinets: 3/4 inch thick x 3 inch high multi-ply hardwood plywood running full cabinet width at the top and bottom
 6. Back Panel: 1/4 inch thick hardwood plywood
 7. Shelves: FIXED, 1/2 inch multi-ply hardwood plywood, 11 inch deep with hardwood veneer banded front edge. Shelves fixed into dadoes in end panels, typical base and wall cabinets.
 8. Toe Board: 3/4 inch thick pressure treated toe board, 4 inches high
 9. Base I-Beam Braces: [2] 1/2 inch thick x 3 inch wide plywood braces running full depth front to back of cabinet, recessed 1 inch from top. Glue and staple at top of cabinet to front frame and hang rail, and dadoed into end panel
 10. Drawers: 5/8 inch thick solid wood front, back, and sides with dovetail construction.
 11. Drawer Bottom: 1/4 inch multi-ply hardwood plywood inserved and stapled into dado in front, back, and sides
 12. Drawer Guides: Epoxy coated steel, extreme grade, side mounted guides, self-adjusting in mounting brackets, built in stop, self-closing, and stay closed feature, 100 lb rated load capacity.
 13. Hinges: heavy duty, high-quality, concealed 6 way adjustable hinge
 14. Scribe trim, fillers, other miscellaneous panels: manufacturer supplied components of same species and finish as cabinets as required by conditions.
- D. Kitchen cabinets and vanity frame/panel Construction – Accessible Units:
 1. Traditional HUD severe use
 2. Face Frames: 3/4 inch thick solid door frames and drawer fronts
 - a. 1-1/2 inch wide stiles
 - b. 3 inch wide mulls
 - c. 1-3/4 inch wide rails
 3. End Panels: 1/2 inch thick multi-ply hardwood plywood dadoed to receive tops and bottoms, Type 1 exterior glue
 4. Top and Bottom Panels: 1/2 inch thick multi-ply hardwood plywood
 5. Hanging Rails:
 - a. Base Cabinets: 3/4 inch thick x 7-1/4 inch high multi-ply hardwood plywood running full cabinet width at top
 - b. Wall Cabinets: 3/4 inch thick x 3 inch high multi-ply hardwood plywood running full cabinet width at the top and bottom
 6. Back Panel: 1/4 inch thick hardwood plywood
 7. Shelves:
 - a. FIXED, 1/2 inch multi-ply hardwood plywood, 11 inch deep with hardwood veneer banded front edge. Shelves fixed into dadoes in end panels, typical base and wall cabinets.
 - b. Full Depth Shelves in pantry and linen cabinets
 - c. Slide out shelve tray at all base cabinets
 8. Toe Board: 3/4 inch thick pressure treated toe board, 8-1/2 inches high
 9. Base I-Beam Braces: [2] 1/2 inch thick x 3 inch wide plywood braces running full depth front to back of cabinet, recessed 1 inch from top. Glue and staple at top of cabinet to front frame and hang rail, and dadoed into end panel
 10. Drawers: 5/8 inch thick solid wood front, back, and sides with dovetail construction.
 11. Drawer Bottom: 1/4 inch multi-ply hardwood plywood inserved and stapled into dado in front, back, and sides
 12. Drawer Guides: Epoxy coated steel, extreme grade, side mounted guides, self-adjusting in mounting brackets, built in stop, self-closing, and stay closed feature, 100 lb rated load capacity.
 13. Hinges: heavy duty, high-quality, concealed 6 way adjustable hinge

14. Scribe trim, fillers, other miscellaneous panels [countertop support brackets]: manufacturer supplied components of same species and finish as cabinets as required by conditions.

2.2 HARDWARE

- A. Hinges: Manufacturers standard high quality steel wrap around hinge with self-closing feature.
 1. Slides: 100#, high quality epoxy coated steel, extreme grade, side mounted or equal.
 2. Provide slide out shelves at all pantry and base cabinets at Accessible units
- B. Pulls: Manufacturer: Armstrong or equal and as follows:
 - a. Model: BP76313-BN
 - b. Length: 4-1/8"
 - c. Width: 5/16"
 - d. Projection: 1-3/16"
 - e. Material: Zinc Die cast

2.3 FACTORY FINISHING

- A. Exposed To View Surfaces: Stain, seal and varnish.
- B. Interior Surfaces: Manufacturers standard.

2.4 PLASTIC LAMINATE COUNTERTOPS

- A. Manufacturers:
 1. Formica
 2. Wilsonart
 3. Arborite
- B. Plastic Laminate: NEMA LD 3, Grade HGS laminate.
 1. Substrate: 3/4" exterior plywood backing with one coat water lox transparent finish.
 2. Countertop Configuration: As follows:
 - a. Front Style: Waterfall.
 - b. Cove Type: Post formed laminate supported at junction of top and backsplash by wood cove molding.
 - c. Backsplash: 4" Curved or waterfall shape
 - d. End Splash: 4" Square edge.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify adequacy of backing and location of mechanical and electrical outlets.

3.2 PREPARATION

- A. Install supplementary support framing.

3.3 INSTALLATION

- A. Set and secure casework in place rigid, plumb, and level.
- B. Provide cutouts for plumbing fixtures, appliances, and other fixtures and fittings.
- C. Use fixture attachments at concealed locations for wall mounted components.
- D. Use concealed joint fasteners to align and secure adjoining cabinet units and counter tops
- E. Carefully scribe casework against other building materials, leaving gaps of 1/32 inch maximum. Use filler strips not additional overlay trim for this purpose.
- F. Secure cabinet and counter bases to floor using appropriate anchorage.

- G. Adjust moving or operating parts to function smoothly and correctly.
- H. Install backsplashes and end splashes.
- I. Install door and drawer hardware.

END OF SECTION

SECTION 31 10 00 - SITE CLEARING

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Removing surface debris, paving, curbs, etc.
 - 2. Removing designated plant life.
 - 3. Removing topsoil and subsoil.
 - 4. Rough grading and site contouring.

1.2 SUBMITTALS

- A. Product Data: Submit data for herbicide.

PART 2 PRODUCTS

2.1 SITE CLEARING

- A. Herbicide: approved by authority having jurisdiction.

PART 3 EXECUTION

3.1 PREPARATION

- A. Call Local Utility Line Information service not less than three working days before performing Work.
 - 1. Request underground utilities to be located and marked within and surrounding construction areas.

3.2 PROTECTION

- A. Locate, identify, and protect utilities indicated to remain, from damage.
- B. Protect trees, plant growth, and features designated to remain, as final landscaping.
- C. Protect bench marks, [survey control points,] [and existing structures] from damage or displacement.

3.3 CLEARING

- A. Clear areas required for access to site and execution of Work.
- B. Remove paving, curbs, and other site improvements to be removed.
- C. Remove trees and shrubs. Remove stumps, main root ball and root system.
- D. Apply herbicide to remaining stumps or plant life to inhibit growth.

3.4 ROUGH GRADING

- A. Identify required lines, levels, contours, and datum.
- B. Identify known underground, above ground, and aerial utilities. Stake and flag locations.
- C. Notify utility company to remove and relocate utilities as applicable.
- D. Excavate topsoil and subsoil from areas to be further excavated, re-landscaped or re-graded.
- E. Stockpile topsoil in area designated on site.
- F. Remove excess topsoil and subsoil not being reused, from site.

3.5 CLEAN UP

- A. Remove debris, rock larger than 1.5 cu ft, and extracted plant life from site.

END OF SECTION

SECTION 31 20 00 - EARTH MOVING

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes site grading, removal of topsoil and subsoil, trenching, backfilling, and compacting.

PART 2 PRODUCTS

2.1 SOIL MATERIALS

- A. Topsoil: Reusable excavated or Imported friable loam; free of subsoil, roots, grass, weeds, large stone, and foreign matter. ASTM D 4268, pH range of 5.5 to 7, minimum of 4 percent organic material content.
 - 1. Amend existing in place surface soil to produce topsoil. Verify suitability of surface soil to produce topsoil. Surface soil may be supplemented with imported or manufactured topsoil from off-site sources.
- B. Subsoil: Excavated material, graded free of lumps larger than 6 inches, rocks larger than 2 inches, organic material, and debris. ASTM D 2487 Soil Classification Groups GW, GP, GM, SW, SP, and SM or a combination there of.

2.2 FILL MATERIALS

- A. Type A - Select Granular Material: Coarse stone: Pit run, washed natural stone; free of shale, clay, friable material, sand, debris.
 - 1. Grading: AASHTO M147; Grade 57.

2.3 ACCESSORIES

- A. Geotextile Fabric: See 32 90 00.

PART 3 EXECUTION

3.1 EXAMINATION AND PREPARATION

- A. Call OUPS to mark locations of all underground utilities a minimum of 3 working days prior to starting work.
- B. Identify required lines, levels, contours, and datum.
- C. Notify Architect/Engineer of unexpected subsurface conditions and discontinue affected work in area until notified to resume work.
- D. Maintain and protect existing utilities to remain.
- E. Provide erosion control measures to prevent erosion or displacement of soils and discharge of soil bearing water runoff of airborne dust to adjacent properties.
- F. Prevent surface water and ground water from entering excavations, from ponding on prepared sub-grades, and from flooding the project site and surrounding areas.

3.2 PROTECTION OF ADJACENT WORK

- A. Grade excavation top perimeter to prevent surface water run-off into excavation or to adjacent properties.
- B. Contractor shall be responsible for damage to utilities caused by construction operations.

3.3 TOPSOIL EXCAVATING

- A. Do not excavate wet topsoil.

- B. Excavate topsoil and stockpile for reuse.

3.4 SUBSOIL EXCAVATING

- A. Do not remove wet subsoil. Remove groundwater by pumping to keep excavations dry.
- B. Excavate subsoil required for construction operations, and other Work.
- C. Slope banks [to angle of repose or less, until shored].
- D. Do not interfere with 45 degree bearing splay of foundations.
- E. Correct unauthorized excavation at no cost to Owner.
- F. Fill over-excavated areas under structure bearing surfaces in accordance with direction by Architect/Engineer.
- G. Stockpile subsoil in area designated on site. Remove excess subsoil not being reused from site.

3.5 TRENCHING

- A. Cut trenches sufficiently wide to enable installation of utilities and allow inspection.
- B. Hand trim excavation and leave free of loose matter.
- C. Support pipe during placement and compaction of bedding fill.
- D. Backfill trenches to required contours and elevations.
- E. Place and compact fill materials as for Backfilling.

3.6 BACKFILLING

- A. Backfill areas to contours and elevations. Use unfrozen and unsaturated materials.
- B. Backfill systematically, as early as possible, to allow maximum time for natural settlement. Do not backfill over porous, wet, frozen, or spongy subgrade surfaces.
- C. Place geotextile fabric over unstable subsoil.
- D. Place material in continuous layers as follows:
 - 1. Soil Materials: Maximum 8 inches compacted depth.
 - 2. Fill Materials: Maximum 6 inches compacted depth.
- E. Employ placement method so not to disturb or damage utilities in trenches.
- F. Maintain optimum moisture content of backfill materials to attain required compaction density.
- G. Slope grade away from building minimum 1/2" per 1 ft, unless noted otherwise.

3.7 PLACING TOPSOIL

- A. Place topsoil in areas where seeding and planting is scheduled.
- B. Fine grade topsoil eliminating rough or low areas. Maintain levels, profiles, and contours of subgrade.
- C. Remove large stone, roots, grass, weeds, debris, and foreign material while spreading.
- D. Lightly compact placed topsoil. 85% proctor.
- E. Leave stockpile area and site clean and raked, ready to receive landscaping.

END OF SECTION

SECTION 31 21 13 - RADON MITIGATION

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Passive Building Radon Venting system.

1.2 SYSTEM DESCRIPTION

- A. Radon venting system consists of the following:
 - 1. Permeable floor slab base course.
 - 2. Sealing joints, cracks, and other penetrations through floor slab.
 - 3. Piping to exhaust underslab air to above the roofline.
 - 4. In-Line vacuum motor [future].

1.3 QUALITY ASSURANCE

- A. Perform Work in accordance with EPA requirements.

1.4 ENVIRONMENTAL REQUIREMENTS

- A. Maintain temperature and humidity recommended by sealant manufacturer during and after installation.

PART 2 PRODUCTS

2.1 PIPE MATERIALS

- A. Pipe: ASTM D2729; polyvinyl chloride pipe.
 - 1. Joints: Socket ends for solvent welding.
 - 2. Joint Cement: ASTM D2564, solvent type.
 - 3. Fittings: Polyvinyl chloride.

2.2 ACCESSORIES

- A. Penetration Boot: Form using vapor retarder with stainless steel clamping ring.
- B. Roof Flashing: Boot type.
- C. Vent Cap: Plastic with screen to prevent insect intrusion.
- D. Joint Filler: Compressible PVC foam type with recovery rate of minimum 95 percent.
- E. Tape: Self-adhering type, 2 inch wide, compatible with vapor retarder.
- F. Electrical Junction Box: As required for electrical connection to future fan.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify slab on grade subbase is compacted, graded, and ready to receive work.
- B. Verify subbase elevations are as indicated on Drawings.

3.2 VAPOR RETARDER INSTALLATION

- A. Install vapor retarder over entire base course surface at open areas of slab.
- B. Lap joints minimum 12 inches. Seal laps with one continuous bead of sealant. Tape joints to retain retarder in place.
- C. Inspect vapor retarder immediately before placing concrete for slab on grade.

1. Repair tears and punctures with patches extending minimum 12 inches beyond extent of tears and punctures.
2. Seal and tape repairs as specified for lap joints.

3.3 PASSIVE RADON SYSTEM INSTALLATION

- A. Drill concrete slab where indicated on drawings, or otherwise approved by Architect and Contractor.
- B. Install radon vent piping from below slab to above roof line.
- C. Seal slab penetrations.
- D. Extend electrical junction box to location to suit installation for in-line fan.
- E. Refer to attached details.

END OF SECTION

SECTION 31 23 17 - TRENCHING

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Excavating trenches for utilities outside building to utility service.
 - 2. Compacted fill from top of utility bedding to subgrade elevations.
 - 3. Backfilling and compaction.

1.2 QUALITY ASSURANCE

- A. Perform Work according to City of Dayton standards as applicable.

1.3 FIELD MEASUREMENTS

- A. Verify field measurements, inverts, etc prior to fabrication.

1.4 COORDINATION

- A. Verify Work associated with lower elevation utilities is complete before placing higher elevation utilities.

PART 2 PRODUCTS

2.1 FILL MATERIALS

- A. Subsoil / Granular Fill: Type as required to suit conditions, suitability installed in compacted lifts.

2.2 ACCESSORIES

- A. Geotextile Fabric: Non-biodegradable, woven.

PART 3 EXECUTION

3.1 LINES AND GRADES

- A. Lay pipes to lines and grades indicated.
 - 1. Architect/Engineer may make changes in lines, grades, and depths of utilities when changes are required for Project conditions.
- B. Use laser-beam instrument with qualified operator to establish lines and grades.

3.2 PREPARATION

- A. Call local utility line information service not less than three working days before performing Work.
 - 1. Request underground utilities to be located and marked within and surrounding construction areas.
- B. Identify required lines, levels, contours, and datum locations.
- C. Protect plant life, lawns and other features remaining as portion of final landscaping.
- D. Protect bench marks, existing structures, fences, sidewalks, paving, and curbs from excavating equipment and vehicular traffic.
- E. Maintain and protect above and below grade utilities indicated to remain.
- F. Establish temporary traffic control when trenching is performed in public right-of-way. Relocate controls as required during progress of Work.

3.3 TRENCHING

- A. Excavate subsoil required for utilities to utility service.

- B. Perform excavation within 24 inches of existing utility service according to utility's requirements.
- C. Cut trenches sufficiently wide to enable installation and allow inspection. Remove water or materials that interfere with Work.
- D. Excavate bottom of trenches maximum 24 inches wider than outside diameter of pipe.
- E. Excavate trenches to depth required for utilities. Provide uniform and continuous bearing and support for bedding material and pipe and utilities.
- F. Do not interfere with 45-degree bearing splay of foundations.
- G. When Project conditions permit, slope side walls of excavation starting 24 inches above top of pipe. When side walls cannot be sloped, provide sheeting and shoring to protect excavation as specified in this Section.
- H. When subsurface materials at bottom of trench are loose or soft, excavate to greater depth as directed by Architect/Engineer until suitable material is encountered.
- I. Cut out soft areas of subgrade not capable of compaction in place. Backfill and compact to density equal to or greater than requirements for subsequent backfill material.
- J. Trim excavation. Remove loose matter.
- K. Correct areas over excavated areas with compacted backfill as specified for authorized excavation or replace with fill concrete as directed by Architect/Engineer.
- L. Remove excess subsoil not intended for reuse, from Site.

3.4 SHEETING AND SHORING

- A. Sheet, shore, and brace excavations to prevent danger to persons, structures and adjacent properties and to prevent caving, erosion, and loss of surrounding subsoil.
- B. Support trenches more than 5 feet deep excavated through unstable, loose, or soft material. Provide sheeting, shoring, bracing, or other protection to maintain stability of excavation.
- C. Design sheeting and shoring to be removed at completion of excavation Work.
- D. Repair damage caused by failure of sheeting, shoring, or bracing and for settlement of filled excavations or adjacent soil.
- E. Repair damage to [new] [and] [existing] Work from settlement, water or earth pressure or other causes resulting from inadequate sheeting, shoring, or bracing.

3.5 BACKFILLING

- A. Backfill trenches to contours and elevations with unfrozen fill materials.
- B. Systematically backfill to allow maximum time for natural settlement. Do not backfill over porous, wet, frozen, or spongy subgrade surfaces.
- C. Place geotextile fabric prior to placing subsequent fill materials.
- D. Place material in continuous layers as follows:
 - 1. Subsoil Fill: Maximum 8 inches compacted depth.
 - 2. Structural Fill: Maximum 6 inches compacted depth.
 - 3. Granular Fill: Maximum 6 inches compacted depth.
- E. Employ placement method that does not disturb or damage foundation perimeter drainage, utilities in trench, and any other obstructions or utilities encountered.
- F. Maintain optimum moisture content of fill materials to attain required compaction density.
- G. Protect open trench to protect the public/residents.

3.6 TOLERANCES

- A. Top Surface of Backfilling Under Paved Areas: Plus or minus 1 inch from required elevations.
- B. Top Surface of General Backfilling: Plus or minus 1 inch from required elevations.

3.7 FIELD QUALITY CONTROL

- A. Perform laboratory material tests according to ASTM D1557.
- B. Perform in place compaction tests according to following:
 - 1. Density Tests: ASTM D1556.
 - 2. Moisture Tests: ASTM D3017.
- C. When tests indicate Work does not meet specified requirements, remove Work, replace, compact, and retest.

3.8 PROTECTION OF FINISHED WORK

- A. Reshape and re-compact fills subjected to vehicular traffic during construction.

END OF SECTION

THIS SHEET LEFT INTENTIONALLY BLANK

SECTION 32 01 16 - ASPHALT PAVING REHABILITATION

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Repair and replacement of existing asphaltic concrete paving as identified.

1.2 SUBMITTALS

- A. Product Data:
 - 1. Submit product information for asphalt and aggregate materials.
 - 2. Submit mix design with laboratory test results supporting design.

1.3 QUALITY ASSURANCE

- A. Perform Work according to State of Ohio, ODOT standards as applicable.
 - 1. State of Ohio Department of Transportation Construction and Materials Specifications Guide shall be used as a reference for all applicable materials, construction conditions, operations, and finished products, etc.
- B. Mixing Plant: Conform to State of Ohio, ODOT standard.
- C. Obtain materials from same source throughout.

1.4 ENVIRONMENTAL REQUIREMENTS

- A. When ambient air temperature is below **50** degrees F, obtain Architect approval prior to proceeding with Work.
- B. Place bitumen mixture when temperature is not more than 15 degrees F below bitumen suppliers bill of lading and not more than maximum specified temperature.

PART 2 PRODUCTS

2.1 MATERIALS

- A. Subgrade: ODOT Item 204.
 - 1. Compact the subgrade materials that have a maximum dry density of 100 to 105 pounds per cubic foot to not less than 102 percent of maximum dry density. Compact all other subgrade materials to not less than 100 percent of maximum dry density. Determine the maximum dry density using AASHTO T99, AASHTOT T272, or test section method in Supplement 1015.
- B. Aggregate Base Course: ODOT Item 304.
 - 1. 98% of the material's maximum dry density as determined by the modified Proctor Test (AASHTOT-180 or ASTM D-1557)
- C. Asphalt Concrete Base Course: ODOT Item 301.
- D. Tack Coat for Chip & Seal Primer: ODOT Item 702.04
 - 1. ASTM D2027, MC-3000; medium curing, cutback asphalt.
- E. Tack Coat: ODOT Item 407.
 - 1. Use one of following types: 702.04 RS-1, SS-1, SS-1h, CRS-1, CSS-1, or CSS-1h; or 702.13
- F. Intermediate Asphalt Surface: ODOT Item 448, Type 1, medium duty.
- G. Asphaltic Concrete Surface Course: ODOT Item 448, Type 1, medium duty.
- H. Sealcoat: ASTM D244; ASTM D 2939
 - 1. Asphalt Emulsion Pavement Sealer with mineral/sand filler, polymer additive, water.

- I. Spot Primer: Oil spot primer formulated to ensure adhesion of pavement sealer to oil, gas, grease, and chemical stained areas on asphalt pavement.
- J. Crack Seal: ODOT Item 423.
 - 1. Type II; mixture of PG 64-22 certified binder and polyester fibers; hot applied type. Modified, single component, rubber/asphalt joint and crack sealant. Formulated for sealing asphalt cracks.
- K. Reinforcing Fabric: ODOT Section 457 Heavy Duty, high strength pavement repair geocomposite membrane for the reinforcements of pavement joints and cracks. PavePrep by Crafcoc or Equal.
 - 1. Top Layer: heat resistant, high strength woven polyester reinforcing fabric
 - 2. Binder/Intermediate Layer: Flexible, high density asphalt mastic bitumen
 - 3. Bottom Layer: non-woven heat resistant polyester fabric.
 - 4. Size: 12 inches wide x 50' roll
 - 5. Tensile Strength: ASTM D412, Die C: 2000 psi min.
 - 6. Elongation: ASTM D412 Die C: 20% min.

2.2 EQUIPMENT

- A. Milling Unit: Type for intended purpose as follows:
 - 1. Self-propelled; wheel base sufficient to maximize leveling action.
 - 2. Capable of loosening pavement material to thicknesses identified.
- B. Compactor: 3 ton minimum steel wheeled vibratory rollers

PART 3 EXECUTION

3.1 PREPARATION

- A. General:
 - 1. Install Work in accordance with ODOT and City of Dayton standards, including all base and preparation.
 - 2. Scheduling: Schedule and manage work to minimize cold joints in the paving system. Coordinate requirements with Owner prior to mobilizing on the job.
 - 3. Clean all existing surfaces and remove any foreign debris.
 - 4. Ensure positive drainage to storm drains/ catch basins throughout. Provide leveling course as required to attain proper drainage [confirm conditions with Owner prior to proceeding].
- B. Mechanically sweep, blow, or scrub pavement surfaces immediately prior to commencement of Work. Clean pavement surfaces of all loose foreign matter. Verify surfaces are dry.
- C. Protect existing improvements, adjacent finishes, overhanging trees, and plant life from heat damage by individual shielding and water spray.
- D. Protect manhole covers and frames, catch basin covers and frames.

3.2 ASPHALT REPAIRS

- A. **General Requirements for Repairs:**
 - 1. Call 811 before you dig.
 - 2. The area and depths for asphalt repairs are displayed and listed on the Defect/Treatment Map and Treatment List. Each contractor bidding is responsible for verifying all dimensions. Every patch will be milled to the excavated depth stated on the Defect Treatment Map and Treatment List unless otherwise modified by the Owner. The subgrade will be proof rolled to ensure stability prior to placement of asphalt. Weak areas will be reported to the Owner. All finished patches must be level with the existing surface and possess only 90 degree angles. Finished surface must not trap or hold water on or adjacent to new patch. Contractor will be responsible to maintain positive drainage across all repaired areas. Price will include removal from site of all excavated materials to an approved off-site location. If any edges

break during construction, edges will be re-cut square and replaced with full depth asphalt per specification. If any cracking of the sub-base or base asphalt occurs during the lay down of wearing course you are to inform the Owner immediately. No raveling of the finished surface will be accepted.

3. All asphalt pavement materials are to meet or exceed state department of transportation standards. These standards are referenced in the Asphalt Materials Table.

B. 4" – 6" thickness Asphalt Patch

1. Call 811 before you dig. Provide Owner with confirmation number.
2. Mill specified area and dispose of excavated materials at an authorized dump site.
3. Proof roll subgrade and notify Owner of "soft spots" prior to backfill.
4. Re-compact subgrade prior to backfill.
5. Prep and apply Tack Coat as needed to vertical perimeter and base of patch area.
6. Install 2"-4" compacted layer of base asphalt. Compact using 3 ton or greater vibratory rollers if patch size and location allows for roller access.
7. Install 2" compacted layer of surface asphalt. Compact using 3 ton or greater vibratory rollers if patch size and location allows for roller access.
8. Seal all edges of patch using non-tracking sealant.

C. New Asphalt Paving: 2 1/2" base course, 1 1/2" wear course

1. Remove existing paving complete including aggregate base if applicable.
2. Adjust sub-grade elevations to prep for new asphalt paving and to match adjacent elevations of parking lot.
3. Install new compacted aggregate base course.
4. Notify Owner of any subgrade deficiencies requiring undercut.
5. Upon approval of Owner, repair soft areas with appropriate depth asphalt per patch specification and using specific materials that meet or exceed ODOT standards.
6. NOTE: Contractor responsible to maintain positive drainage across entire lot. Contact Owner for additional directive as needed by existing conditions.
7. Prime entire area with Tack Coat at a rate of 0.10 Gallons/SY.
8. Machine install 2 1/2" of finished compacted thickness base course asphalt over primed area. Minimum thickness of finished, compacted pavement to be 2 1/2" and asphalt tonnage yield should be based on 2 1/2" compacted minimum thickness. Tickets will be collected at end of each day and final tonnage yield must be within 5% of expected 2 1/2" fully compacted yield.
9. Apply RS-2 or CRS-2 asphalt emulsion uniformly to existing surfaces at a rate of 0.40 to 0.50 gal/yd².
10. Machine install 1 1/2" of finished compacted thickness surface asphalt over primed area. Minimum thickness of finished, compacted pavement to be 2" and asphalt tonnage yield should be based on 1 1/2" compacted minimum thickness. Tickets will be collected at end of each day and final tonnage yield must be within 5% of expected 1 1/2" fully compacted yield.
11. Compact using 3 ton or greater vibratory rollers.
12. Seal all edges of paved area where matched to existing asphalt surfaces using non-tracking sealant.
13. Reset all signage, repin parking blocks; replace all speed bumps per existing.
14. Repaint per existing layout unless otherwise specified.

D. 1 1/2" Asphalt Overlay with full milling

1. Mill specified asphalt area 1 1/2" and dispose of grindings at an authorized dump site.
 - a. Profile mill as required for grade / plane modifications.
2. NOTE: Contractor responsible to maintain positive drainage across entire lot. Contact Owner for additional directive as needed by existing conditions.
3. Mill butt joints and/or adjust elevations of drainage structures as necessary to provide for proper drainage per slope tolerances noted above. All areas abutting catch basins must

- allow for full 1 1/2" compacted thickness of finished overlay and allow for positive drainage into structures. No tapered edges will be permitted and no ponding will be accepted.
4. Provide power sweeper and vacuum truck to ensure clean area for asphalt work.
 5. Proof roll subject area, mark soft pockets, areas of excess yielding, and any other area that requires further compaction.
 - a. Notify Owner of any subgrade deficiencies requiring undercut.
 - b. Upon approval of Owner, repair soft areas with appropriate depth asphalt per patch specification and using specific materials that meet or exceed ODOT standards.
 6. Prime entire area with Tack Coat at a rate of 0.10 Gallons/SY.
 7. Machine install leveling course as necessary to remove any low spots.
 8. Machine install 1 1/2" of finished compacted thickness surface asphalt over primed area. Minimum thickness of finished, compacted pavement to be 1 1/2 inches and asphalt tonnage yield should be based on 1 1/2 inches compacted minimum thickness. Tickets will be collected at end of each day and final tonnage yield must be within 5% of expected 1 1/2 inch fully compacted yield.
 9. Compact using 3 ton or greater vibratory rollers.
 10. Seal all edges of paved area where matched to existing asphalt surfaces using non-tracking sealant.
 11. Reset all signage, repin parking blocks; replace all speed bumps per existing.
 12. Repaint per existing layout unless otherwise specified.

3.3 ASPHALT MAINTENANCE REPAIRS

A. Crack Sealing

1. All Longitudinal, transverse and block cracks are to be thoroughly cleaned using compressed air lance as necessary. Remove all vegetation and debris from cracks. Clean lot of all debris.
 - a. Notify Owner in advance if size [width or depth] of crack exceeds the manufacturer's recommendations for crack fill. Request directive to proceed.
2. Seal cracks per ASTM D3405/D6690
3. All fatigue crack areas are to be circled by filling perimeter of area. Do not fill interior of any fatigue (alligator) crack areas.

3.4 SCHEDULES

- A. Refer to Drawings for extent and type of paving repair or replacement.

END OF SECTION

SECTION 32 01 26 – CONCRETE PAVING REHABILITATION

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Repair and replacement of existing concrete paving as identified on Drawings.
 - 2. Parking Lot accessories

1.2 SYSTEM DESCRIPTION

- A. Paving and Base: Designed for Parking.

1.3 SUBMITTALS

- A. Product Data:
 - 1. Submit product information for concrete, cement, and aggregate materials.
 - 2. Submit mix design with laboratory test results supporting design.

1.4 QUALITY ASSURANCE

- A. Perform Work according to State of Ohio, ODOT standards as applicable.
 - 1. State of Ohio Department of Transportation Construction and Materials Specifications Guide shall be used as a reference for all applicable materials, construction conditions, operations, and finished products, etc.
 - 2. Perform Work in accordance with ACI 330.

PART 2 PRODUCTS

2.1 MATERIALS

- A. Subgrade: ODOT Item 204.
 - 1. Compact the subgrade materials that have a maximum dry density of 100 to 105 pounds per cubic foot to not less than 102 percent of maximum dry density. Compact all other subgrade materials to not less than 100 percent of maximum dry density. Determine the maximum dry density using AASHTO T99, AASHTOT T272, or test section method in Supplement 1015.
- B. Aggregate Base Course: ODOT Item 304 [304.01 and 304.02].
 - 1. 98% of the material's maximum dry density as determined by the modified Proctor Test (AASHTOT-180 or ASTM D-1557)
- C. Concrete: ODOT Item 452 Nonreinforced Portland cement concrete pavement [transportation center]
- D. Concrete: ODOT Item 499.
 - 1. Class QC 1, 4,000 PSI design strength at 28 days; 2,000 Coulombs maximum Permeability; Cement Content minimum 520 lb.; well –graded aggregate
 - 2. Maximum slump 4 inches.
 - 3. Air Content: 6% +/- 2%; ASTM C260
- E. Cement: ASTM C150 Normal Type I Portland type, gray color.
- F. Fine and Coarse Aggregates: ASTM C33, Class 4S.
- G. Water: ASTM C94, potable, Clean, not detrimental to concrete without deleterious amounts of chloride ions.

2.2 ACCESSORIES

- A. Forms: Wood or steel material, profiled to suit conditions; conform to ACI 301.

- B. Joint Filler: ASTM D1751; Asphalt impregnated wood fiberboard.
- C. Dowels/Reinforcing Steel: ASTM A615; Epoxy Coated steel Grade 60, deformed billet bars. ODOT Item 709.
- D. Reinforcement Mesh: 6x6-W4.0xW4.0 welded wire reinforcement
- E. Liquid Surface Sealer: Penetrating Silane/Siloxane Sealer; clear, non-yellowing UV resistant; vapor permeable.
- F. Curing Compound: ASTM C309, white pigmented water based liquid membrane.

PART 3 EXECUTION

3.1 EXAMINATION AND PREPARATION

- A. Verify gradients and elevations of base.
- B. Verify compacted base is ready to support paving and imposed loads.
- C. Moisten substrate to minimize absorption of water from fresh concrete.
- D. Sawcut and remove existing concrete to allow installation of new concrete as indicated.

3.2 FORMING

- A. Place and secure forms to correct location, dimension, and profile. Secure forms to allow the placement of concrete to be continuous and true.
- B. Place joint filler in joints, vertical in position, in straight lines. Secure to formwork.
- C. Place control joints at maximum 30 foot intervals. Align joints.
- D. Place joint filler between paving components and other appurtenances.
- E. Chamfer outside corners and edges of permanently exposed concrete. – $\frac{3}{4}$ " chamfer

3.3 PLACING CONCRETE

- A. Place concrete in accordance with ACI 330.
- B. Place reinforcement to achieve pavement and concrete alignment as appropriate.
- C. Check with electronic level that the correct slopes have been achieved to provide drainage.
- D. Do not disturb reinforcement or formwork components during concrete placement.
- E. Place concrete continuously between predetermined joints.
- F. Apply surface sealer per manufacturer's instructions.

3.4 CONCRETE REPAIRS

A. General Requirements for Repairs:

1. The dimensions and depths for concrete repairs are displayed and listed on the Drawings. Each contractor bidding must be responsible for verifying all dimensions. Every patch will be saw cut with 90 degree angles and excavated to the depth stated on the Drawings or as needed to proposed subgrade depth beneath the finished grade. The subgrade will be proof rolled to ensure stability when going full depth. Proper subgrade compaction is CRITICAL. Weak areas will be reported to the Owner.
2. All finished patches will be level with the existing surface and rectangular in shape. If any edges break during construction, they will be re-cut and replaced with full depth concrete per specification. No slumping or cracking of the finished surface will be accepted. Price will include the removal of all excavated materials to an approved off-site location.

3. All concrete pavement materials are to meet or exceed state department of transportation [ODOT] standards. These standards are referenced in the Concrete Materials Table.

B. 4" Concrete Patch [Typical Concrete Walk Replacement]

1. All Concrete Repairs to conform to ACI 330.
2. Call 811 before you dig. Provide Owner with confirmation number.
3. Saw cut and excavate specified area and dispose of excavated materials at an authorized dump site.
4. Core drill 4" into any adjacent/existing slab every 2' on center and at midpoint of existing slab thickness. Install 0.5" Diameter rebar.
5. Form as needed for installation of new concrete area.
6. Install 4" layer of 4000 psi Concrete.
7. Finish concrete surface to client's preference / match existing conditions/finish.
8. Saw cut joints in proper pattern and at proper depth to prevent curing cracks. All cracking which occurs after curing are to be sealed by contractor at contractor's expense. Excessive cracking could constitute job rejection.

C. 6" Concrete Patch [Typical Concrete Drive Approach / Curb Cut Replacement]

1. All Concrete Repairs to conform to ACI 330.
2. Call 811 before you dig. Provide Owner with confirmation number.
3. Saw cut and excavate specified area and dispose of excavated materials at an authorized dump site.
4. Core drill 4" into any adjacent/existing slab every 2' on center and at midpoint of existing slab thickness. Install 0.5" Diameter rebar.
5. Form as needed for installation of new concrete area.
6. Install 6" layer of 4000 psi Concrete.
7. Finish concrete surface to client's preference / match existing conditions/finish.
8. Saw cut joints in proper pattern and at proper depth to prevent curing cracks. All cracking which occurs after curing are to be sealed by contractor at contractor's expense. Excessive cracking could constitute job rejection.

3.5 CONCRETE PAVING

A. 6" Concrete Paving

1. All Concrete Repairs to conform to ACI 330.
2. Call 811 before you dig. Provide Owner with confirmation number.
3. Install new 6" aggregate base over prepped sub-grade.
4. Form as needed for installation of new concrete area.
5. Place reinforcing mesh as indicated in details.
6. Install new 6" concrete paving.
7. Finish concrete surface to Owner's preference / match existing conditions/finish.
8. Saw cut joints in proper pattern and at proper depth to prevent curing cracks. All cracking which occurs after curing are to be sealed by contractor at contractor's expense. Excessive cracking could constitute job rejection.

3.6 CONCRETE CURB

A. Remove and Replace Concrete Barrier Curb

1. Excavate existing damaged curb, dispose of excavated materials at an authorized dump site.
2. Construct forms to install new curb identical in dimension, line and grade to existing curbing.
3. Use appropriate hand forms to match new curb identical to existing curbing.
4. Install 4000 psi Concrete.
5. Apply cure and seal product upon installation.
6. Backfill as necessary to restore adjacent areas in rear and face of curb to original condition.

B. Remove and Replace Concrete Curb and Gutter

1. Excavate existing damaged curb, dispose of excavated materials at an authorized dump site.
2. Construct forms to install new curb identical in dimension, line and grade to existing curbing.
3. Use appropriate hand forms to match new curb identical to existing curb.
4. Install 4000 psi Concrete.
5. Apply cure and seal product upon installation.
6. Backfill as necessary to restore adjacent areas in rear and face of curb to original condition.

3.7 PARKING LOT ACCESSORIES

- A. Accessible Parking Signage: Provide and install signage in accordance with the detail drawings.

3.8 FINISHING

- A. Apply curing compound on exposed surfaces as applicable to conditions.
- B. Apply Surface Sealer on exposed surfaces.
- C. Paving Surfaces: Medium broom finish - or as required to match existing conditions and finish.

END OF SECTION

SECTION 32 17 13 - PARKING BUMPERS

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Precast concrete parking bumpers.

1.2 COORDINATION

- A. Coordinate Work with pavement placement and parking striping.

1.3 SUBMITTALS

- A. Product Data: Unit configuration, dimensions.

PART 2 PRODUCTS

2.1 CONCRETE BUMPERS

- A. Cement: ANSI/ASTM C150, portland Type I - Normal; white color.
- B. Concrete Materials: ASTM C33; water and sand.
- C. Reinforcing Steel: ASTM A615/A615M, 60 ksi yield grade, deformed billet bars, uncoated finish, strength and size commensurate with precast unit design.
- D. Air Entrainment Admixture: ANSI/ASTM C260.
- E. Concrete Mix: Minimum 5,000 psi, 28-day strength, air entrained to 5 to 7 percent.
- F. Use rigid molds, constructed to maintain precast units uniform in shape, size and finish. Maintain consistent quality during manufacture.
- G. Embed reinforcing steel, and drill or sleeve for two dowels.
- H. Cure units to develop concrete quality, and to minimize appearance blemishes including non-uniformity, staining, or surface cracking.

2.2 CONFIGURATION

- A. Nominal Size: 5 inches high, 9 inches wide, 6 feet long.
- B. Profile: Manufacturer's standard; match existing if appropriate; provide drainage slots.

2.3 ACCESSORIES

- A. Dowels: Cut Reinforcing Steel, unfinished; 1/2 inch diameter.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install units without damage to shape or finish. Replace or repair damaged units.
- B. Install units in alignment with adjacent Work.
- C. Fasten units in place with two dowels for each bumper.

3.2 SCHEDULE

- A. Remove existing, install new parking bumpers where indicated and noted on drawings. Pin to asphalt after being set in position.

END OF SECTION

THIS SHEET LEFT INTENTIONALLY BLANK

SECTION 32 17 23 - PAVEMENT MARKINGS

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Traffic lines and markings.
 - 2. Paint.

1.2 SUBMITTALS

- A. Product Data: Paint formulation for each type of paint.
- B. Manufacturer's Certificate: Products meet or exceed specified requirements.
- C. Test and Evaluation Reports: Submit source and acceptance test results according to AASHTO M247.
- D. Manufacturer's Instructions: Application temperatures, eradication requirements, application rate, line thickness, type of glass beads, bead embedment and bead application rate, and any other data on proper installation.

1.3 QUALITY ASSURANCE

- A. Perform Work according to State of Ohio, ODOT standards.
- B. Manufacturer: Company specializing in manufacturing products specified in this Section with five years' experience.
- C. Applicator: Company specializing in performing Work of this Section with five years' experience.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Invert containers several days prior to use when paint has been stored more than two months. Minimize exposure to air when transferring paint. Seal drums and tanks when not in use.

1.5 AMBIENT CONDITIONS

- A. Do not apply materials when surface and ambient temperatures are outside temperature ranges required by paint product manufacturer.
- B. Do not apply exterior coatings during rain or snow when relative humidity is outside humidity ranges, or moisture content of surfaces exceed those required by paint product manufacturer.
- C. Do not apply paint when temperatures are expected to fall below 50 degrees F for 24 hours after application.
- D. Volatile Organic Content (VOC). Do not exceed State or U.S. EPA maximum VOC on traffic paint.

1.6 WARRANTY

- A. Furnish one-year manufacturer's warranty for traffic paints.

PART 2 PRODUCTS

2.1 PAINTED PAVEMENT MARKINGS

- A. Performance / Design Criteria:
 - 1. Paint Adhesion: Adhere to road surface forming smooth continuous film one minute after application.
 - 2. Paint Drying: Tack free by touch so as not to require coning or other traffic control devices to prevent transfer by vehicle tires within two minutes after application.

- B. Paint: Ready mixed, conventional and fast dry waterborne traffic paints, lead-free, non-toxic, NASSHTO Test Deck, minimum retroreflectance of 100 mcds, durability rating of 6 or more after in place for nine months; within following limits: Sherwin Williams, Pro-Park 113.80 or Equal.
 - 1. Volume Solids: 62 +/- 2%
 - 2. Weight Solids 77 +/- 2%
 - 3. VOC <50 g/L; <0.42 lb/gal

2.2 EQUIPMENT

- A. Continuous Longitudinal Line Application Machine:
 - 1. Dual-nozzle paint gun to simultaneously apply parallel lines of indicated width in solid or broken patterns or various combinations of those patterns.
 - 2. Pressurized bead gun to automatically dispense glass beads onto painted surface, at required application rate.
 - 3. Measuring device to automatically and continuously measure length of each line placed, to nearest foot.
 - 4. Device to heat paint for fast dry applications.
- B. Machine Calibration:
 - 1. Calibrate equipment to be in conformance with ODOT requirements as applicable.
 - 2. Paint Guns: Calibrate to simultaneously apply paint binder at uniform rates as specified with an allowable tolerance of plus or minus 1 mil.
 - 3. Bead Guns: Calibrate to dispense glass beads simultaneously at specified rate. Check guns by dispensing glass beads into gallon container for predetermined fixed period of time. Verify weight of glass beads.
- C. Other Equipment:
 - 1. For application of crosswalks, intersections, stop lines, legends and other miscellaneous items by walk behind strippers, hand spray or stencil trucks, apply with equipment meeting requirements of this Section. Do not use hand brushes or rollers.

PART 3 EXECUTION

3.1 PREPARATION

- A. Maintenance and Protection of Traffic:
 - 1. Prevent interference with marking operations and to prevent traffic on newly applied markings before markings dry.
 - 2. Coordinate access requirements with Owner prior to application of markings.
- B. Surface Preparation.
 - 1. Clean and dry paved surface prior to painting.
 - 2. Blow or sweep surface free of dirt, debris, oil, grease or gasoline.
 - 3. Spot location of final pavement markings as specified and as indicated by applying pavement spots 25 feet o.c.

3.2 APPLICATION

- A. Agitate paint for 1 to 15 minutes prior to application to ensure even distribution of paint pigment.
- B. Dispense paint at ambient temperature or heated as applicable to wet film thickness of 15 mils.
- C. Unless material is track free at end of paint application convoy, use traffic cones to protect markings from traffic until track free. When vehicle crosses a marking and tracks it or when splattering or over spray occurs, eradicate affected marking and resultant tracking and apply new markings.

3.3 TOLERANCES

- A. Maximum Variation from Wet Film Thickness: 1 mil.

- B. Maximum Variation from Wet Paint Line Width: Plus or minus 1/8 inch.
- C. Maintain cycle length for skip lines at tolerance of plus or minus 6 inches per 40 feet and line length of plus or minus 3 inches per 10 feet.

3.4 FIELD QUALITY CONTROL

- A. Inspect for incorrect location, insufficient thickness, line width, coverage, retention, uncured or discolored material, and insufficient bonding.
- B. Repair lines and markings, which after application and curing do not meet following criteria:
 - 1. Incorrect Location: Remove and replace incorrectly placed patterns.
 - 2. Insufficient Thickness, Line Width, Paint Coverage, Glass Bead Coverage or Retention: Prepare defective material by acceptably grinding or blast cleaning to remove substantial amount of beads and to roughen marking surface. Remove loose particles and debris. Apply new markings on cleaned surface according to this Section.
 - 3. Uncured or Discolored Material, Insufficient Bonding: Remove defective markings according to this Section and clean pavement surface 1 foot beyond affected area. Apply new markings on cleaned surface according to this Section.
- C. Replace defective pavement markings as specified throughout warranted period. Replace markings damaged by anti-skid materials, chemical deicers, snow plowing or other loss of marking material regardless of cause. When markings are damaged by pavement failure or by Owner's painting, crack sealing, or pavement repair operations, Contractor is released from warranty requirements for damaged Work.
- D. Replace failed or defective markings in entire section of defective markings within 30 days after notification when any of following exists during warranty period:
 - 1. Marking is discolored or exhibits pigment loss, and is determined to be unacceptable by Owner.
 - 2. More than 15 percent of area of continuous line, or more than 15 percent of combined area of skip lines, within any 528 foot section of roadway is missing.
- E. Replace pavement marking material under warranty using original or better type material. Continue warranty to end of original warranty period even when replacement materials have been installed as specified.
- F. When eradication of existing paint lines is necessary, eradicate by shot blast or water blast method. Do not gouge or groove pavement more than 1/16 inch during removal. Limit area of removal to area of marking plus 1 inch on all sides. Prevent damage to transverse and longitudinal joint sealers, and repair any damage according to requirements in Section 32 12 16.

3.5 PROTECTION

- A. Protect painted pavement markings from vehicular and pedestrian traffic until paint is dry and track-free. Follow manufacturer's recommendations or use minimum of 30 minutes. Consider barrier cones as satisfactory protection for materials requiring more than two minutes dry time.

3.6 PAVEMENT MARKING APPLICATION / REQUIREMENTS

- A. Thoroughly clean pavement surface of all dirt and debris.
- B. Stripe new asphalt lot as indicated.
- C. Paint to be applied at a wet mil thickness of 15 mm, 1 coat.
- D. The all markings shall be applied with a commercial motorized striping machine.

END OF SECTION

THIS SHEET LEFT INTENTIONALLY BLANK

SECTION 32 90 00 - PLANTING

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Preparation of soil and fertilizer.
 - 2. Placement of plant life.

1.2 SUBMITTALS

- A. Product Data: Submit list of plant material sources, data for fertilizer and other accessories.
- B. Comply with ANSI Z60.1, "American Standard for Nursery Stock," for trees, shrubs, ground covers, and plants.

1.3 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: Include pruning objectives, types and methods; types, application frequency, and recommended coverage of fertilizer.

1.4 QUALIFICATIONS

- A. Nursery: Company specializing in growing and cultivating plant life specified in this section.
- B. Qualifications of workmen: Provide at least one person who shall be present at all times during execution of this portion of the work and who shall be thoroughly familiar with the type of materials being installed and the best methods for their installation and who shall direct all work performed under this section.
- C. Maintenance Services: Performed by installer.

1.5 WARRANTY

- A. Furnish two year warranty including one continuous growing season including coverage of plants from death or unhealthy conditions.
- B. Replacements: Plants of same size and species as specified, planted in next growing season, with new warranty beginning on date of replacement.

1.6 MAINTENANCE SERVICE

- A. Maintain seeded areas and plant life for three months from Date of Substantial Completion. Seeded areas and plant life shall be well established and exhibit growth at the time of turn over to Owner.

PART 2 PRODUCTS

2.1 TREES, PLANTS, AND GROUND COVER

- A. Trees, Plants and Ground Cover: Species and size identified in Plant Schedule as indicated on Drawings, grown in climatic conditions similar to those in locality of the Work.
- B. Balled and Burlapped Shrubs: Well-shaped, fully branched, healthy, vigorous nursery-grown stock.
- C. Ground Covers and Plants: Established and well rooted in removable containers or integral peat pots.
- D. Fertilizer For Plantings: Fertilizer shall be 20-10-5 Agriform Planting tablets manufactured by Sierra Chemical Company, 1-408-263-8080 or equal and suitable for application with approved equipment. Delivered to the site in bags or other convenient containers, each fully

labeled, conforming to applicable State Fertilizer Law, and bearing the name, trade name or trademark, and warranty of the producer.

2.2 SOIL AND SOIL MODIFICATION MATERIALS

- A. Topsoil: ASTM D 5268, Fertile, agricultural soil, typical for locality, capable of sustaining vigorous plant growth, free of subsoil, clay or impurities, plants, weeds and roots, free of stones 1 inch or larger. Equal to ODOT Item 653.
- B. Fertilizer: Fifty percent of elements derived from organic sources,
- C. Lime: ASTM C602, Class T agricultural limestone containing a minimum 80 percent calcium carbonate equivalent.
- D. Organic Mulch: Double shredded hardwood mulch.
- E. Weed-Control Barrier: Polypropylene or polyester nonwoven fabric.
- F. Organic Compost: leaf and mushroom compost to be added to mulch at 1 cubic yard per 5 cubic yards of mulch.
- G. Tree Gator Bags
- H. Weed-Control Additive: Preen weed control.

2.3 ACCESSORIES

- A. Mulching Material: Composted, double shredded hardwood bark, dark brown in color.
- B. Landscape fabric: doubly reinforced polypropylene fabric with a 28-mil thickness. Install under all new landscape areas.

2.4 UNDERGROUND STORM DRAINAGE

- A. 4" or 6" corrugated drain piping, solid or perforated type. Connect to downspout boot and extend to storm water as designed.

PART 3 EXECUTION

3.1 EXAMINATION AND PREPARATION

- A. Verify required underground utilities are in proper location.
- B. Prepare subsoil to eliminate uneven areas. Maintain profiles and contours. Make changes in grade gradual. Blend slopes into level areas.
- C. Scarify subsoil to depth of 6 inches.

3.2 PLACING TOPSOIL

- A. Spread topsoil to minimum depth of 6 inches. Rake smooth.
- B. Grade topsoil to eliminate rough, low or soft areas. Slope for positive drainage.
- C. Place topsoil into pits and beds intended for plant root balls to minimum thickness of 6 inches.
- D. At affected areas of the site, strip existing topsoil and stockpile for reuse. Spread as required to meet new grades.
- E. Provide additional fill as required to complete the work. Additional fill material shall be free of organic matter, rubbish, debris, and rocks greater than 4" diameter.

3.3 PLANTING

- A. Install landscape fabric at landscape beds. Install 3 inch mulch bed at all landscape areas.

- B. Set plants in pits or beds partly filled with prepared topsoil mixture. Backfill soil mixture.
- C. Saturate soil with water when pit or bed is half full of top soil and again when full.
- D. General:
 - 1. All plantings shall be done between the dates of March 1 and June 1 or September 1 and November 1. All other plantings to be done between the dates of June 2nd and August 31 to be Wilt Proofed (or equal) and a watering schedule shall be maintained by the Contractor until acceptance by Owner.
 - 2. Plant areas: Planting areas are pits, or prepared planting beds, for trees, shrubs and vines where indicated on the drawings.
 - 3. Topsoil for planting operations shall be furnished by the Contractor.
 - 4. The depth of planting areas is the depth below the finished grade.
- E. Shrub pits:
 - 1. Dig and prepare shrub pits or beds prior to planting to a minimum depth of 8".
 - 2. Width of the pits - at least greater in diameter than their ball of earth or spread of roots.
 - 3. Add 21 gram 'Agriform' planting tablets, to planting pit, manufactured by Sierra Chemical Co. (1-408-263-8080) or equal. Backfill planting pit halfway with planting soil mixture and place tablet beside rootball about 1" from root tips. Do not place in bottom of hole. Follow manufacture's recommended application rates for size of plant installed.
 - 4. Set shrubs so as to allow sufficient depth. Properly set the crown of plant at the finished surface of the bed.
 - 5. Backfill topsoil about the roots and thoroughly settle by watering. Form a mound of earth around each shrub so as to produce a shallow saucer.
 - 6. Edge the bed in a neat line as directed and make sure an even 6" layer of topsoil remains over entire area.
 - 7. Dress all beds with a uniform 3" layer of finely shredded hardwood bark.
- F. Tree Gator Bags:
 - 1. Contractor to supply and install tree gator bags on all trees planted.
 - 2. Contractor to be responsible for proper filing and maintenance of tree gator bags until acceptance by owner.

3.4 MAINTENANCE

- A. Mow grass at regular intervals to maintain maximum height of 2-1/2 inches. Do not cut more than 1/3 of grass blade at each mowing. Contractor to maintain through at least 3 mowings.
- B. Contractor to water to prevent grass and soil from drying out.
- C. Control growth of weeds.

3.5 GUARANTEE PERIOD

- A. Guarantee period shall begin at the issuance of the Substantial Completion and shall end exactly two years from that date.
- B. At the conclusion of the guarantee period, a final inspection of the work will be made to determine the condition of the plant material. All plant material not in a healthy or 40% defoliated growing condition will be noted.
- C. Remove the material so noted from the site at the direction of the Architect and replace during the following planting season with the materials of like kind and size and in a manner specified for the original planting at no extra cost.
- D. Guarantee period also applies to replaced material.

END OF SECTION

SECTION 32 92 19 – SEEDING / SITE REPAIR

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Seeding and Site Repairs related to asphalt and concrete repair and replacement.

1.2 DEFINITIONS

- A. Weeds: Vegetative species other than specified species to be established in given area.

1.3 SUBMITTALS

- A. Product Data: Topsoil, Seed mix, fertilizer, mulch, and other accessories.

1.4 QUALITY ASSURANCE

- A. Provide seed mixture in containers showing percentage of seed mix, germination percentage, inert matter percentage, weed percentage, year of production, net weight, date of packaging, and location of packaging.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver grass seed mixture in sealed containers. Seed in damaged packaging is not acceptable.
- B. Deliver fertilizer in waterproof bags showing weight, chemical analysis, and name of manufacturer.

PART 2 PRODUCTS

2.1 SEED MIXTURE

- A. Seed Mixture: Green Velvet's Finest mixture, fescue or bluegrass to match existing and for soils conditions, sun/shade, etc. ODOT Item 659.
- B. Commercial Fertilizer for seed: Commercial-grade complete fertilizer, consisting of 1 lb/1000 sq. ft. of actual nitrogen, 4 percent phosphorous, and 2 percent potassium, by weight.
- C. Slow-Release Fertilizer: Granular fertilizer consisting of 50 percent water-insoluble nitrogen, phosphorus, and potassium; 5 percent nitrogen; 10 percent phosphorous; and 5 percent potassium; by weight.
- D. Straw Mulch: Clean, mildew- and seed-free salt hay or threshed straw.

2.2 SOIL AND SOIL MODIFICATION MATERIALS

- A. Topsoil: ASTM D 5268, Fertile, agricultural soil, typical for locality, capable of sustaining vigorous plant growth, free of subsoil, clay or impurities, plants, weeds and roots, free of stones 1 inch or larger. Equal to ODOT Item 653.
- B. Fertilizer: Fifty percent of elements derived from organic sources,
- C. Lime: ASTM C602, Class T agricultural limestone containing a minimum 80 percent calcium carbonate equivalent.
- D. Organic Compost: leaf and mushroom compost to be added to mulch at 1 cubic yard per 5 cubic yards of mulch.
- E. Weed-Control Additive: Preen weed control.

2.3 ACCESSORIES

- A. Mulching Material: Oat or wheat straw, free from weeds, foreign matter detrimental to plant life, and dry. Hay or chopped cornstalks are **not** acceptable.

2.4 SOURCE QUALITY CONTROL

- A. Analyze to ascertain percentage of nitrogen, phosphorus, potash, soluble salt content, organic matter content, and pH value.
- B. Provide recommendation for fertilizer and lime application rates for specified seed mix as result of testing.
- C. Testing is not required when recent tests and certificates are available for imported topsoil. Submit these test results to testing laboratory. Indicate, by test results, information necessary to determine suitability.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify prepared soil base is ready to receive Work of this Section.

3.2 PLACING TOPSOIL

- A. Spread topsoil to minimum depth of 6 inches. Rake smooth.
- B. Grade topsoil to eliminate rough, low or soft areas. Slope for positive drainage.
- C. Place topsoil into pits and beds intended for plant root balls to minimum thickness of 6 inches.
- D. At affected areas of the site, strip existing topsoil and stockpile for reuse. Spread as required to meet new grades.
- E. Provide additional fill as required to complete the work. Additional fill material shall be free of organic matter, rubbish, debris, and rocks greater than 4" diameter.

3.3 SEEDING

- A. Apply seed at a rate of 10 lb per 1000 sq ft, evenly in two intersecting directions.
- B. Immediately following seeding, apply agricultural mulch to a thickness of 1/8 inches.
- C. Apply water with fine spray immediately after each area has been mulched.

3.4 SEED PROTECTION

- A. Identify seeded areas with stakes and string around area periphery.

3.5 MAINTENANCE

- A. Water to prevent grass and soil from drying out. Maintain until vigorously growing.
- B. Control growth of weeds. Apply herbicides. Remedy damage resulting from improper use of herbicides.
- C. Immediately reseed areas showing bare spots.
- D. Repair washouts or gullies.

3.6 SCHEDULE OF SITE REPAIR

- A. Backfill areas impacted by work with topsoil to match existing grade.
- B. Re-seed area impacted by work.
- C. Apply mulch/straw.
- D. Water and maintain seed until vigorously growing.

END OF SECTION

SECTION 32 92 23 - SODDING

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Preparation of subsoil.
 - 2. Placing topsoil.
 - 3. Fertilizing.
 - 4. Sod installation.
 - 5. Maintenance.
- B. General: Restore all turf areas affected by site work with the installation of new sod.

1.2 DEFINITIONS

- A. Weeds: Vegetative species other than specified species to be established in given area.

1.3 SUBMITTALS

- A. Product Data: Sod grass species, fertilizer, mulch, and other accessories.
- B. Test Reports: Indicate topsoil nutrient and pH levels with recommended soil supplements and application rates.

1.4 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: Maintenance instructions, cutting method and maximum grass height; types, application frequency, and recommended coverage of fertilizer.

1.5 QUALITY ASSURANCE

- A. Sod: Root development capable of supporting its own weight without tearing, when suspended vertically by holding upper two corners.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver sod on pallets in rolls. Protect exposed roots from dehydration.
- B. Do not deliver more sod than can be laid within 24 hours.

1.7 COORDINATION

- A. Coordinate with installation of underground sprinkler system piping and watering heads.

1.8 MAINTENANCE SERVICE

- A. Maintain sodded areas immediately after placement until grass is well established and exhibits vigorous growing condition for two cuttings.

PART 2 PRODUCTS

2.1 SOD

- A. Sod: TPI Certified Nursery grown grade; cultivated grass sod; type indicated in this Section; with strong fibrous root system, free of stones, burned or bare spots; containing no more than 5 weeds per 1,000 sq ft.
 - 1. Green Velvet Turf Type Tall Fescue, blend of elite Turf Type Tall Fescue Varieties, with up to 10% Kentucky Bluegrass, drought tolerant.

2.2 SOIL MATERIALS

- A. Topsoil: ASTM D 5268, Fertile, agricultural soil, typical for locality, capable of sustaining vigorous plant growth, free of subsoil, clay or impurities, plants, weeds and roots, free of stones 1 inch or larger. Equal to ODOT Item 653.

2.3 ACCESSORIES

- A. Fertilizer: Commercial grade; recommended for grass, with fifty percent of elements derived from organic sources; of proportion necessary to eliminate deficiencies of topsoil.
- B. Water: Clean, fresh and free of substances or matter capable of inhibiting vigorous growth of grass.
- C. Wood Pegs: Softwood, sufficient size and length to anchor sod on slope.

2.4 HARVESTING SOD

- A. Machine cut sod and load on pallets according to TPI.
 - 1. Minimum 1/2 inch and maximum 1 inch topsoil base.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify prepared soil base is ready to receive Work of this Section.

3.2 PREPARATION OF SUBSOIL

- A. Prepare sub-soil and eliminate uneven areas and low spots.
- B. Maintain lines, levels, profiles and contours. Make changes in grade gradual. Blend slopes into level areas.
- C. Remove foreign materials and undesirable plants and their roots. Do not bury foreign material beneath areas to be sodded.
- D. Remove contaminated subsoil.
- E. Scarify subsoil to depth of 3 inches where topsoil is to be placed.
- F. Repeat cultivation in areas where equipment, used for hauling and spreading topsoil, has compacted subsoil.

3.3 LAYING SOD

- A. Moisten prepared surface immediately prior to laying sod.
- B. Lay sod immediately after delivery to Site to prevent deterioration.
- C. Lay sod tight with no open joints visible, and no overlapping; stagger end joints 12 inches minimum. Do not stretch or overlap sod pieces.
- D. Lay smooth. Align with adjoining grass areas.
- E. Place top elevation of sod 1/2 inch below adjoining paving, curbs.
- F. On slopes 6 inches per foot and steeper, lay sod perpendicular to slope and secure every row with wooden pegs at maximum 2 feet o.c. When using "big roll," lay sod parallel to slope. Drive pegs flush with soil portion of sod.
- G. Do not place sod when temperature is less than 32 degrees F.
- H. Water sodded areas immediately after installation. Saturate sod to 4 inches of soil.

- I. After sod and soil have dried, roll sodded areas to bond sod to soil and to remove minor depressions and irregularities.
- J. Roll before first watering.

3.4 MAINTENANCE

- A. Contractor to water sod until established.
- B. Mow grass at regular intervals to maintain at maximum height of 2-1/2 inches. Do not cut more than 1/3 of grass blade at each mowing. Contract to maintain until 1st 3 mowings.
- C. Neatly trim edges and hand clip where necessary.
- D. Immediately remove clippings after mowing and trimming.
- E. Water to prevent grass and soil from drying out.
- F. Roll surface to remove or irregularities.
- G. Control growth of weeds. Apply herbicides. Remedy damage resulting from improper use of herbicides.
- H. Immediately replace sod on areas showing deterioration or bare spots.
- I. Protect sodded areas with warning signs during maintenance period.

END OF SECTION

THIS SHEET LEFT INTENTIONALLY BLANK