
LEAD-BASED PAINT INSPECTION AND
VISUAL ASSESSMENT REPORT

Property Address:

1559 H50 Road
Delta, Colorado 81416

Prepared for:

GMUG NFs
2250 Highway 50
Delta, Colorado 81416

Inspected & Prepared By:

Christopher A. Lakin, PE
Lead Inspector / Risk Assessor
Plateau, Inc.
236 So 3rd St., #340
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970.252.1363
CDPHE License No: 21988
EPA License No: LBP-R-1178512-1

Lead-Based Paint Inspection Date:

August 16, 2017

Report Date:

August 23, 2017

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
LEAD CONSULTING FIRM # 17358



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1.0) Cover Letter

August 23, 2017

Prepared for: GMUG NFS
2550 Hwy 50
Delta, Colorado 81416

Subject Property: 1559 H50 Road
Delta, Colorado 81416

Dear Sirs:

Please find the lead-based paint inspection report for the future demolition project located at 1559 H50 Road, Delta, Colorado. The lead-based paint inspection and visual assessment was performed following guidelines set forth by the EPA model for lead-based paint. The purpose of the LBP survey was to determine the presence or absence of lead-based paint of suspect surfaces on accessible building materials at the subject property that will be demolished in the future.

Plateau, Inc. is a certified evaluation firm in the State of Colorado and their certification # is 17358. Chris Lakin performed the Inspection and is a Certified Lead Inspector/Risk Assessor in the State of Colorado and his certification # is 21988 with an expiration date April 29, 2018. Plateau conducted the visual assessment and lead paint inspection on August 16, 2017.

This report is for informational purposes only not allowing hazard assessments for future occupants. The structures were originally constructed in 1975 according to the Delta county assessor records. The structures are concrete block walls exterior, one story. The brown/tan structure has a gabled green metal roof; the green storage shed structure is a hipped metal roof. Interior materials for the brown/tan structure include painted gypsum wallboard, trim components and flooring. Only painted exterior blocks were evaluated on the green building as well as the exterior painted blocks on the brown/tan building.

Chris Lakin performed the inspection utilizing laboratory paint-chip analysis. During the visual assessment Plateau, Inc. observed paint on the interior and exterior components of the property. The survey is a general assessment of existing paint products providing information for what can be anticipated during demolition.

A lead-based paint inspection was performed on components that will be disturbed during demolition of the property. Positive lead-based paint was found in multiple locations. The brown/tan building includes:

- 1. Office floor, grey paint**
- 2. Exterior wood components with brown paint**
- 3. Walls with white over green paint found on the south service bay wall**
- 4. Floor with yellow paint**
- 5. Ochre colored (off yellow) paint on interior walls**
- 6. Service Bay floor, grey paint.**

The green storage building includes:

- 1. Exterior Siding, green paint.**

Due to these findings your demolition contractor will be required to comply with OSHA's Lead in Construction

standards.

If you have any questions please contact us directly at 970.252.1363.

Regards,
Christopher Lakin
Lead Inspector / Risk Assessor
Plateau, Inc.

2.0) Executive Summary

The GMUG FS's has authorized Plateau, Inc. to perform a visual assessment and lead-based paint (LBP) inspection on a future demolition project located at, **1559 H50 Road, Delta, Colorado 81416**. Plateau, Inc. tested a number of painted components according to the specifications described in the protocols for Lead-Based Paint testing in Chapter 7 of the Housing and Urban Development (HUD) Guidelines (Revised 1997) and all applicable Federal, State, and Local regulations for the inspection of lead based paint.

Plateau's scope of services involved laboratory paint-chip testing as well as a surface-by-surface visual inspection of the painted surfaces documented to be constructed prior to 1978 and will be disturbed by future demolition activities.

Plateau sampled a total of twenty-two (22) surfaces. Thirteen components were found to contain lead at levels less than the regulatory level of 0.5% by weight. These surfaces are identified in Section 4.0 (Findings). This report represents all field data, observations and findings related to the lead inspection performed in the above referenced property. The results stated in this report are representative of the conditions observed in the property at the time of inspection.

Lead inspections determine the presence of lead in paint and other possible lead-based and contaminated areas. This inspection, measures lead in both deteriorated and intact paint surfaces. The procedure involved taking samples from representative surfaces throughout the testing area or room.

3.0) Scope of Inspection

Background Information

The property is located at 1559 H50 Road, Delta, Colorado. The property is currently used by the GMUG staff. Future plans include the demolition of the structures. No written permission was required to access the property as the owner's representative provided access at the time of the inspection.

Preface

Plateau, Inc. was authorized by Linda Lanham with the GMUG Forest Services to perform a lead-based paint inspection on the above referenced property to determine the possible presence of lead-based paint. Results of the survey will be used when requesting general contractor bids for the demolition of the structures. It is the responsibility of the owners to notify all persons interested in bidding the demolition of the structures the results of this survey. The inspection was conducted on August 15, 2017.

Training

All inspectors utilized by Plateau, Inc. have EPA/State licensure and are licensed Lead Risk Assessors, or Inspectors who have passed the "HUD Visual Assessment Course". Training certificates are included with this report.

Inspection Company

The inspection was performed by an employee of Plateau, Inc. Plateau, Inc. is a Colorado registered Lead

Evaluation Firm No: LEF17358. Company certificates are included with this report.

Methods

Inspections are done using the inspection protocol in Chapter 7 of the Housing of Urban Development (HUD) Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing (1997 Revision) as well as all other Federal, State and Local guidelines. The methods utilized for lead analysis include careful removal of material, documenting amount and characteristics of material. Material is submitted under chain of custody to an accredited laboratory. Only laboratories recognized under the EPA NLLAP may be used for analyzing samples of paint in target housing or pre-1978 child occupied facilities. Laboratory analysis is more accurate and precise than XRF, but only if great care is used to collect and analyze the paint-chip sample.

4.0) Findings

1559 H50 Road, Delta, Colorado

This property is currently in use by the GMUG FS. Future demolition of the structures has not been scheduled.

Plateau, Inc. tested twenty-two surfaces via laboratory analysis. Thirteen tested components were found to contain lead at levels below the EPA regulatory level of 0.5% by weight. Nine surfaces were found to contain lead at levels above the EPA regulatory level of 0.5% by weight. Please review Table A for location and description.

5.0) Conclusions

When evaluating this report, it is assumed that according to Chapter 7 HUD guidelines, that if one testing combination (i.e. window, door) is positive for lead in an interior or exterior room equivalent, that all other similar testing combinations in those areas are assumed to be positive. The same is true for negative readings. All inaccessible areas are assumed to be positive, even though they were not able to be tested. The identified positive findings include:

The brown/tan building:

- 1. Office floor, grey paint**
- 2. Exterior wood components with brown paint**
- 3. Walls with white over green paint found on the south service bay wall**
- 4. Floor with yellow paint**
- 5. Ochre colored (off yellow) paint on interior walls**
- 6. Service Bay floor, grey paint.**

The green storage building:

- 1. Exterior Siding, green paint.**

Some painted surfaces may contain levels of lead below 0.5% by weight; these components could create lead dust or lead contaminated soil hazards if the paint is turned into dust by abrasion, scraping, sanding or friction. If conditions of intact paint surfaces become destabilized prior to demolition, these conditions will need to be addressed in the future. If any construction or modernization work is done on the premises, this report should be given to the contractors, as well as to any future tenants.

Any stabilization/construction activities that affect the existing paint films (including sanding and demolition) must be initiated by workers who have successfully received proper training and certification in the handling of lead-

contaminated materials.

Plateau, Inc. recommends all contractors follow the "Lead Safe Work Practices" as outlined in The Lead Safe Housing Rule 24 CFR Part 35 as amended June 21, 2004. Interim control measures on friction or impact surfaces, such as windows and doors, may lead to rapid treatment failure. It is the contractor's responsibility to follow all city, state and federal regulations when performing Lead Hazard Reduction Activities.

6.0) Disclosure Responsibility

A copy of this limited report must be provided to new lessees (tenants) and purchasers of this property under Federal Law (24 CFR part 35 and 40 CFT part 745) before they become obligated under a lease or sales contract. The complete report must also be provided to new purchasers and it must be made available to new tenants. Landlords (lessors) and sellers are also required to distribute an educational pamphlet and include standard warning language in their leases or sales contracts to ensure that parents have the information they need to protect their children from lead-based paint hazards.

7.0) Disclaimers

This is our report of a lead-based paint analysis. The presence or absence of lead-based paint (LBP) or lead-based paint hazards applies only to the tested or assessed surfaces on the date of the field visit and should be understood that conditions might change due to deterioration or maintenance. The results and material conditions noted within this report were accurate at the time of the inspection and in no way reflect the conditions at the property after the date of the inspection. Ongoing monitoring by the owner is usually necessary.

Those surfaces that do not contain lead-based paint at or above the federal, state, or local standards may still pose a hazard if disturbed.

The Occupational Safety and Health Administration (OSHA) Lead in Construction Standard states that "negative" readings (i.e. those below the HUD/EPA definition of what constitutes LBP [1.0 mg/cm²]) do not relieve contractors from performing exposure assessments (personal air monitoring) on their employees per the OSHA Lead Standard, and should not be interpreted as lead free. Although a reading may indicate "negative", airborne lead concentrations still may exceed the OSHA Action Level or the OSHA Permissible Exposure Limit (PEL) depending on the work activity.

TABLE A
EMSL Laboratory
Lead Analysis
Results

NO	COMPONENT	SUBSTRATE	COLOR	ROOM	SIDE	RESULTS	LAB RESULTS
1	SIDING	BLOCK	BROWN	EXTERIOR	SOUTH	NEGATIVE	0.036 % wt
2	SIDING	BLOCK	YELLOW	EXTERIOR	SOUTH	NEGATIVE	≤0.0080% wt
3	SIDING	WOOD	BROWN	EXTERIOR	NORTH	NEGATIVE	≤0.0080% wt
4	SIDING	WOOD	YELLOW	EXTERIOR	NORTH	NEGATIVE	≤0.0080% wt
5	BLOCK	BLOCK	YELLOW	EXTERIOR	NORTH	NEGATIVE	0.031% wt
6	BLOCK	BLOCK	BROWN	EXTERIOR	NORTH	NEGATIVE	0.0080% wt
7	GABLE	WOOD	BROWN	EXTERIOR	SOUTH	POSITIVE	2.9% wt
8	WALL		WHITE OVER GREEN	SOUTH SERVICE BAY AREA	SOUTH	POSITIVE	1.3% wt
9	FLOOR	CONCRETE	GREY	SOUTH SERVICE BAY AREA	SOUTH	NEGATIVE	0.13% wt
10	FLOOR	CONCRETE	YELLOW	SOUTH SERVICE BAY AREA	SOUTH	POSITIVE	3.2% wt
11	WALL		OCHRE	INTERIOR	EAST	POSITIVE	1.5% wt
12	FLOOR	CONCRETE	GREY	NORTH SERVICE BAY AREA	NORTH	POSITIVE	0.61% wt
13	WALL		WHITE	NORTH SERVICE BAY AREA	NORTH	NEGATIVE	0.14% wt
14	WALL		OCHRE	NORTH SERVICE BAY AREA	NORTH	POSITIVE	1.5% wt
15	WALLS	GYPSUM	WHITE	OFFICE		NEGATIVE	0.019 mg/cm ²
16	TRIM	WOOD	WHITE	OFFICE		NEGATIVE	<0.0080% wt
17	FLOOR	CONCRETE	GREY	OFFICE		POSITIVE	0.77% wt
18	WALL	GYPSUM	WHITE	BATHROOM		NEGATIVE	<0.0080% wt
GREEN SHED							
1	SIDING		GREEN	EXTERIOR	NORTH	POSITIVE	0.75% wt
2	SIDING		WHITE	EXTERIOR	NORTH	NEGATIVE	<0.0080% wt
3	SIDING		WHITE	EXTERIOR	SOUTH	NEGATIVE	0.36% wt
4	SIDING		GREEN	EXTERIOR	SOUTH	POSITIVE	4.4% wt

APPENDIX C GLOSSARY

- Abatement** - A measure or set of measures designed to permanently eliminate lead-based paint hazards or lead-based paint. Abatement strategies include the removal of lead-based paint, enclosure, encapsulation, replacement of building components coated with lead-based paint, removal of lead-contaminated dust, and removal of lead-contaminated soil or overlaying of soil with a durable covering such as asphalt (grass and sod are considered interim control measures). All of these strategies require preparation; cleanup, waste disposal, post-abatement clearance testing; recordkeeping; and, if applicable, monitoring. See also Complete Abatement and Interim Controls.
- Accessible surface** - Any protruding interior or exterior surface, such as an interior windowsill, that a young child can mouth or chew.
- Accreditation** - A formal recognition that an organization, such as a laboratory, is competent to carry out specific tasks or types of tests.
- Accredited laboratory** - A laboratory that has been evaluated and approved by the National Lead Laboratory Accreditation Program (NLLAP) to perform lead measurement or analysis, usually over a specified period of time.
- Apron** - A trim board that is installed beneath a window sill.
- Area walls** - Corrugated metal or concrete barrier walls installed around a basement window to hold back the earth.
- Attic access** - An opening that is placed in the dry walled ceiling of a home providing access to the attic.
- Attic Ventilators** - In houses, screened openings provided to ventilate an attic space.
- Backing** - Frame lumber installed between the wall studs to give additional support for drywall or an interior trim related item, such as handrail brackets, cabinets, and towel bars. In this way, items are screwed and mounted into solid wood rather than weak drywall that may allow the item to break loose from the wall. Carpet backing holds the pile fabric in place.
- Balusters** - Vertical members in a railing used between a top rail and bottom rail or the stair treads. Sometimes referred to as 'pickets' or 'spindles'.
- Balustrade** - The rail posts and vertical balusters along the edge of a stairway or elevated walkway.
- Bare soil** - Soil not covered with grass, sod, some other similar vegetation, or paving, including the sand in sandboxes.
- Barge board** - A decorative board covering the projecting rafter (fly rafter) of the gable end. At the cornice, this member is a fascia board.
- Base or baseboard** - A trim board placed against the wall around the room next to the floor.
- Basement window inserts** - The window frame and glass unit that is installed in the window.
- Base shoe** - Molding used next to the floor on interior baseboard. Sometimes called a carpet strip.
- Batt** - A section of fiber-glass or rock-wool insulation measuring 15 or 23 inches wide by four to eight feet long and various thicknesses. Sometimes "faced" (meaning to have a paper covering on one side) or "unfaced" (without paper).
- Batten** - Narrow strips of wood used to cover joints or as decorative vertical members over plywood or wide boards.
- Bay window** - Any window space projecting outward from the walls of a building either square or polygonal in plan.
- Beam** - A structural member transversely supporting a load. A structural member carrying building loads (weight) from one support another. Sometimes called a "girder".
- Bearing wall** - A wall that supports any vertical load in addition to its own weight.
- Bearing header** - (a) A beam placed perpendicular to joists and to which joists are nailed in framing for a chimney, stairway, or other opening. (b) The horizontal structural member over an opening (for example over a door or window).
- Bi-fold door** - Doors that are hinged in the middle for opening in a smaller area than standard swing doors. Often used for closet doors.
- Bi-pass doors** - Doors that slide by each other and commonly used as closet doors.
- Blocking** - Small wood pieces to brace framing members or to provide a nailing base for gypsum board or paneling.
- Blood lead threshold** - Any blood level greater than or equal to 10 ug/dl as defined by the Centers for Disease Control and Prevention. See also Elevated Blood Lead Level (EBL) child.
- Brace** - An inclined piece of framing lumber applied to wall or floor to strengthen the structure. Often used on walls as temporary bracing until framing has been completed.
- Breaker panel** - The electrical box that distributes electric power entering the home to each branch circuit (each plug and switch) and composed of circuit breakers.
- Brick mold** - Trim used around an exterior door jamb that siding butts to.
- Brick tie** - A small, corrugated metal strip @ 1" x 6" x 8" long nailed to wall sheathing or studs. They are inserted into the grout mortar joint of the veneer brick, and holds the veneer wall to the sheeted wall behind it.
- Brick veneer** - A vertical facing of brick laid against and fastened to sheathing of a framed wall or tile wall construction.
- Building component** - Any element of a building that may be painted or have dust on its surface, e.g. walls, stairtreads, floors, railings, doors, window sills, etc.
- Bi fold door** - Doors that are hinged in the middle for opening in a smaller area than standard swing doors. Often used for closet doors.
- Bypass doors** - Doors that slide by each other and commonly used as closet doors.
- Cantilever** - An overhang. Where one floor extends beyond and over a foundation wall.
- Cap** - The upper member of a column, pilaster, door cornice, molding, or fireplace.
- Cap flashing** - The portion of the flashing attached to a vertical surface to prevent water from migrating behind the base flashing.
- Casement** - Frames of wood or metal enclosing part (or all) of a window sash. May be opened by means of hinges affixed to the vertical edges.
- Casement Window** - A window with hinges on one of the vertical sides and swings open like a normal door.
- Casing** - Wood trim molding installed around a door or window opening.
- Celotex™** - Black fibrous board that is used as exterior sheathing.
- Celling joist** - One of a series of parallel framing members used to support ceiling loads and supported in turn by larger beams, girders or bearing walls. Also called roof joists.
- Cement** - The gray powder that is the "glue" in concrete. Portland cement. Also any adhesive.
- Ceramic Tile** - A man-made or machine-made clay that used to finish a floor or wall. Generally used in bathtub and shower enclosures and on counter tops.
- Certification** - The process of testing and evaluating against certain specifications the competence of a person, organization, or other entity in performing a function or service, usually for a specified period of time.
- Certified** - The designation for contractors who have completed training and other requirements to allow them to safely undertake risk assessments, inspections, or abatement work. Risk assessors, inspectors and abatement contractors should be certified by the appropriate Local, State or Federal agency.
- Chair Rail** - Interior trim material installed about 3-4 feet up the wall, horizontally.
- Chalking** - The photo-oxidation of paint binders - usually due to weathering that causes a powder to form on the film surface.
- Chase** - A framed enclosed space around a flue pipe or a channel in a wall, or through a ceiling.
- Chewed surface** - Any painted surface that shows evidence of having been chewed or mouthed by a child. A chewed surface is usually a protruding, horizontal part of a building, such as an interior window sill. See also accessible surface.
- Chip Board** - A manufactured wood panel made out of 1"-2" wood chips and glue. Often used as a substitute for plywood in the exterior wall and roof sheathing. Also called OSB (Oriented Strand Board) or wafer board.
- Cleaning** - The process of using a HEPA vacuum and wet cleaning agents to remove leaded dust; the process includes the removal of bulk debris from the work area. OSHA prohibits the use of compressed air to clean lead-contaminated dust from a surface.
- Clearance examination** - Visual examination and collection of environmental samples by an inspector or risk assessor and analysis by an accredited laboratory upon completion of an abatement project, interim control interventions, or maintenance job that disturbs lead-based paint (or paint suspected of being lead-based). The clearance examination is performed to ensure that lead exposure levels do not

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- exceed standards established by the EPA administrator pursuant to Title IV of the Toxic Substances Control Act, and that any cleaning following such work adequately meets those standards.
- Clearance examiner** - A person who conducts clearance examinations following lead-based paint hazard control and cleanup work. Usually a certified risk assessor or a certified inspector.
- Code of Federal Regulations (CFR)** • The codification of the regulations of Federal agencies.
- Column** - A vertical structural compression member, which supports loads.
- Complete abatement** • Abatement of all lead-based paint inside and outside a dwelling or building and reduction of any lead-contaminated dust or soil hazards. All of these strategies require preparation; cleanup: waste disposal; post-abatement clearance testing; record-keeping; and, if applicable, re-inspection and on-going monitoring. See also Abatement.
- Concrete** • The mixture of Portland cement sand, gravel and water. Used to make garage and basement floors, sidewalks, patios, foundation walls..
- Concrete block** - A hollow concrete 'brick' often 8" x 8" x 16" in size.
- Concrete board** - A panel made out of concrete and fiberglass usually used as a tile backing material.
- Containment** - A process to protect workers and the environment by controlling exposures to the lead-contaminated dust and debris created during abatement.
- Corbel** - The triangular, decorative and supporting member that holds a mantel or horizontal shelf.
- Cotner bead** - A strip of formed sheet metal placed on outside corners of drywall before applying drywall 'mud'.
- Cotner boards** - Used as trim for the external corners of a house or other frame structure against which the ends of the siding are finished.
- Corner braces** - Diagonal braces at the corners of the framed structure designed to stiffen and strengthen the wall.
- Cornice** - Overhang of a pitched roof, usually consisting of a fascia board, a soffit and appropriate trim moldings.
- Counter flashing** - A metal flashing usually used on chimneys at the roofline to cover shingle flashing and used to prevent moisture entry.
- Cove molding** - A molding with a concave face used as trim or to finish interior corners.
- Crawl space** • A shallow space below the living quarters of a house, normally enclosed by the foundation wall and having a dirt floor.
- Cross Tee** • Short metal "T" beam used in suspended ceiling systems to bridge the spaces between the main beams.
- Damper** - A metal "door" placed within the fireplace chimney, normally closed when the fireplace is not in use.
- Deteriorated lead-based paint** - Any lead-based paint coating on a damaged or deteriorated surface or fixture, or any interior or exterior lead-based paint that is peeling, chipping, blistering, flaking, worn, chalking, alligatoring, cracking, or otherwise becoming separated from the substrate.
- Door Jamb** - The surrounding case into which and out of which a door closes and opens. It consists of two upright pieces, called side jambs, and a horizontal head jamb.
- Door stop** - The wooden style that the door slab will rest upon when it's in a closed position.
- Dormer** - An opening in a sloping roof, the framing of which projects out to form a vertical wall suitable for windows or other openings.
- Downspout** • A pipe, (usually of metal), for carrying rain water down from the roof's horizontal gutters.
- Drip cap** • A molding or metal flashing placed on the exterior top side of a door or window frame to cause water to drip beyond the outside of the frame.
- Drywall (or Gypsum Wallboard (GWB), Sheet rock or Plasterboard)** - Wall board or gypsum • manufactured panels made out of gypsum plaster and encased in a thin cardboard. Usually 1/2" thick and 4' x 8' or 4' x 12' in size. The panels are nailed or screwed onto the framing and the joints are taped and covered with a 'joint compound'. 'Green board' type drywall has a greater resistance to moisture than regular (white) plasterboard and is used in bathrooms and other "wet areas".
- Ducts** - The heating system. Usually round or rectangular metal pipes installed for distributing warm (or cold) air from the furnace to rooms in the home. Also a tunnel made of galvanized metal or rigid fiberglass, which carries air from the heater or ventilation opening to the rooms in a building.
- Dura board, Dura rock** - A panel made out of concrete and fiberglass usually used as a ceramic tile backing material. Commonly used on bathtub decks. Sometimes called Wonder board
- Dust removal** - A form of interim control that involves initial cleaning followed by periodic monitoring and re-cleaning, as needed. Depending on the severity of lead-based paint hazards, dust removal may be the primary activity or just one element of a broader control effort.
- Eaves** - The horizontal exterior roof overhang.
- Elevated Blood Lead Level (EBL) child** - A child who has a blood level greater than or equal to 20 ug/dl or a persistent 15 ug/dl. See also Blood lead threshold.
- Encapsulation** - Any covering or coating that acts as a barrier between lead-based paint and the environment. The durability of which relies on adhesion and the integrity of the existing bonds between multiple layers of paint and between the paint and the substrate. See also Enclosure.
- Enclosure** - The use of rigid, durable construction materials that are mechanically fastened to the substrate to act as a barrier between the lead-based paint and the environment.
- Escutcheon** - An ornamental plate that fits around a pipe extending through a wall or floor to hide the cut out hole
- Exterior work area** - For lead hazard control work, the exterior work area includes any exterior building components, such as a porch or stairway, the safety perimeter and access barrier's.
- Facing brick** - The brick used and exposed on the outside of a wall. Usually these have a finished texture.
- Fascia** • Horizontal boards attached to rafter/truss ends at the eaves and along gables. Roof drain gutters are attached to the fascia.
- Flue** • Large pipe through which fumes escape from a gas water heater, furnace, or fireplace.
- Friction surface** • Any interior or exterior surface, such as a window or stair tread, subject to abrasion or friction.
- Gable** • The end, upper, triangular area of a home, beneath the roof.
- Gyp board - Drywall, Wallboard or gypsum** • A panel (normally 4' X 8', 10', 12', or 16') made with a core of Gypsum (chalk-like) rock, which covers interior walls and ceilings.
- Header** - (a) A beam placed perpendicular to joists and to which Joists are nailed in framing for a chimney, stairway, or other opening. (b) The horizontal structural member over an opening (for example over a door or window).
- Hearth** • The fireproof area directly in front of a fireplace. The inner or outer floor of a fireplace usually made of brick, tile, or stone.
- Hip** • A roof with four sloping sides. The external angle formed by the meeting of two sloping sides of a roof.
- Hip roof** • A roof that rises by inclined planes from all four sides of a building.
- HVAC** - An abbreviation for Heat, Ventilation, and Air Conditioning
- Inspection (of paint)** - A surface-by-surface investigation to determine the presence of lead-based paint (in some cases including dust and soil sampling) and a report of the results.
- Interim controls** - A set of measures designed to temporarily reduce human exposure or possible exposure to lead-based paint hazards. Such measures include specialized cleaning, repairs, maintenance, painting, temporary containment, and management and resident education programs. Monitoring, conducted by owners, and re-inspections, conducted by professionals, are integral elements of interim control. Interim controls include dust removal; paint film stabilization; treatment of friction and impact surfaces; installation of soil coverings, such as grass or sod; and land-use controls. See also Monitoring, Re-inspection, and Abatement
- Interior window sill** - The portion of the horizontal window ledge that

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protrudes into the interior of the room, adjacent to the window sash when the window is closed; often called the window stool.

Jamb • The side and head lining of a doorway, window, or other opening includes studs as well as the frame and trim.

Joint • The location between the touching surfaces of two members or components joined and held together by nails, glue, cement, mortar, or other means.

Joist • Wooden 2 X 8's, 10's, or 12's that run parallel to one another and support a floor or ceiling, and supported in turn by larger beams, girders, or bearing walls

Laminated shingles • Shingles that have added dimensionality because of extra layers or tabs, giving a shake-like appearance. May also be called "architectural shingles" or "three-dimensional shingles."

Lath - A building material of narrow wood, metal, gypsum, or insulating board that is fastened to the frame of a building to act as a base for plaster, shingles, or tiles.

Lattice - An open framework of crisscrossed wood or metal strips that form regular, patterned spaces.

Lead • Lead includes metallic lead and organic and inorganic compounds of lead.

Lead-Based Paint - Any paint, varnish, shellac, or other coating that contains lead equal to or greater than 1.0 mg/cm² as measured by XRF or laboratory analysis, or 0.5 percent by weight (5000 ug/g, 5000 ppm, or 5000 mg/kg) as measured by laboratory analysis.

Lead-based paint hazard • A condition in which exposure to lead from lead-contaminated dust, lead contaminated soil, or deteriorated lead-based paint would have an adverse effect on human health (as established by the EPA Administrator under Title IV of the Toxic Substances Control Act). Lead-based paint hazards include, for example, deteriorated lead-based paint, leaded dust levels above applicable standards, and bare leaded soil above applicable standards.

Lead-based paint hazard control • Activities to control and eliminate lead-based paint hazards, including interim controls, abatement, and complete abatement.

Lead-contaminated dust Surface dust in residences that contains an area or mass concentration of lead in excess of the standard established by the EPA Administrator, pursuant to Title IV of the Toxic Substances Control Act. Until the EPA standards are set, the HUD-recommended clearance and risk assessment standards for leaded dust are 100 ug/ft² on floors, 500 ug/ft² on interior window sills, and 800 ug/ft² on window troughs. The recommended standard for lead hazard screens for floors is 50 ug/ft² and for window troughs is 400 ug/ft².

Lead-contaminated soil • Bare soil on residential property that contains lead in excess of the standard established by the EPA Administrator, pursuant to Title IV of the Toxic Substances Control Act. The HUD recommended standard and interim EPA guidance is 400 ug/g for high contact play areas and 2,000 ug/g in other bare areas of the yard. Soil contaminated with lead at levels greater than or equal to 5,000 ug/g should be abated by removal or paving.

Lead-free dwelling - A lead-free dwelling contains no lead-based paint and has interior dust and exterior soil lead levels below the applicable HUD and EPA standards.

Licensed • Holding a valid license or certification issued by EPA or by an EPA-approved State program pursuant to Title V of the Toxic Substances Control Act. The license is based on certification for lead-based paint hazard control work. See also Certified.

Louver - A vented opening into the home that has a series of horizontal slats and arranged to permit ventilation but to exclude rain, snow, light, insects, or other living creatures.

Maintenance - Work intended to maintain adequate living conditions in a dwelling, which has the potential to disturb lead-based paint or paint that is suspected of being lead-based.

Mantel - The shelf above a fireplace opening. Also used in referring to the decorative trim around a fireplace opening.

Masonry • Stone, brick, concrete, hollow-tile, concrete block, or other similar building units or materials. Normally bonded together with mortar to form a wall.

Mastic • A pasty material used as a cement (as for setting tile) or a protective coating (as for thermal insulation or waterproofing)

Mg - Milligram; 1/1000 of a gram.

Microgram - see ug.

Milligram - see Mg.

Molding - A wood strip having an engraved, decorative surface.

Monitoring - Surveillance to determine (1) that known or suspected lead-based paint is not deteriorating; (2) that lead-based paint hazard controls, such as paint stabilization, enclosure, or encapsulation have not failed. (3) that structural problems do not threaten the integrity of hazard controls or of known or suspected lead based paint, and (4) that dust lead levels have not risen above applicable levels.

Mortar - A mixture of cement (or lime) with sand and water used in masonry work.

Mullion • A vertical divider in the frame between windows, doors, or other openings.

Muntin • A small member, which divides the glass or openings of sash or doors.

Natural finish • A transparent finish, which does not seriously alter the original color or grain of the natural wood. Natural finishes are usually provided by sealers, oils, varnishes, water repellent preservatives, and other similar materials.

Newel post • The large starting post to which the end of a stair guard railing or balustrade is fastened.

Oriented Strand Board or OSB - A manufactured 4' X 8' wood panel made out of 1"-2" wood chips and glue. Often used as a substitute for plywood.

Overhang • Outward projecting eave-soffit area of a roof; the part of the roof that hangs out or over the outside wall. See also Cornice.

Paint film stabilization - The process of wet scraping, priming and repainting surfaces coated with deteriorated lead-based paint; paint film stabilization includes cleanup and clearance.

Paint removal - An abatement strategy that entails the removal of lead-based paint from surfaces. For lead-hazard control work, this can mean using chemicals, heat guns below 1,100 F, and certain contained abrasive methods. Open-flame burning, open abrasive blasting, and extensive dry scraping are prohibited paint removal methods.

Panel - A thin flat piece of wood, plywood, or similar material, framed by stiles and rails as in a door (or cabinet door), or fitted into grooves of thicker material with molded edges for decorative wall treatment.

Parting stop or strip - A small wood piece used in the side and head jambs of double hung windows to separate the upper sash from the lower sash.

Particle board - Plywood substitute made of course sawdust that is mixed with resin and pressed into sheets. Used for closet shelving, floor underlayment, stair treads, etc.

Partition • A wall that subdivides spaces within any story of a building or room.

Plenum • The main hot air supply duct leading from a furnace.

Plywood • A panel (normally 4' X 8') of wood made of three or more layers of veneer, compressed and joined with glue, and usually laid with the grain of adjoining plies at right angles to give the sheet strength.

Portland cement • Cement made by heating clay and crushed limestone into a brick and then grinding to a pulverized powder state,

Pressure-treated wood - Lumber that has been saturated with a preservative.

Quarry tile • A man-made or machine-made clay tile used to finish a floor or wall. Generally 6" X 6" X 1/4" thick.

Quarter round • A small trim molding that has the cross section of a quarter circle.

Rafter - Lumber used to support the roof sheeting and roof loads. Generally, 2 X 10's and 2 X 12's are used. The rafters of a flat roof are sometimes called roof joists.

Rake fascia - The vertical face of the sloping end of a roof eave.

Re-Inspection - In hazard control work, the combination of a visual assessment and collection of environmental samples performed by a certified risk assessor to determine a previously implemented lead-based paint hazard control measure is still effective and if the dwelling remains lead-safe.

Register - A grill placed over a heating duct or cold air return.

Renovation • Work that involves construction and/or home or building improvement measures such as window replacement, weatherization, remodeling, and repainting.

Replacement • A strategy of abatement that entails the removal of building components coated with lead-based paint (such as windows, doors, and trim) and the installation of new components free of lead-based paint.

Retaining wall - A structure that holds back a slope and prevents erosion.

APPENDIX C

GLOSSARY

- Riser** • Each of the vertical boards closing the spaces between the treads of stairways.
- Risk assessment** • An onsite investigation of a residential dwelling to discover any lead-based paint hazard. Risk assessments include an investigation of the age, history, management, and maintenance of the dwelling, and the number of children under age 6 and women of child-bearing age who are residents; a visual assessment; limited environmental sampling (i.e., collection of dust Wipe samples, soil samples, and deteriorated paint samples); and preparation of a report identifying acceptable abatement and interim control strategies based on specific conditions.
- Risk assessor** • A certified individual who has completed training with an accredited training program and who has been certified to (1) perform risk assessments, (2) identify acceptable abatement and interim control strategies for reducing identified lead-based paint hazards, (3) perform clearance testing and re-inspections, and (4) document the successful completion of lead-based paint hazard control activities.
- Shake** • A wood roofing material, normally cedar or redwood. Produced by splitting a block of the wood along the grain line. Modern shakes are sometimes machine sawn on one side. See shingle.
- Shed roof** • A roof containing only one sloping plane.
- Sheet rock Drywall-Wall board or gypsum** • A manufactured panel made out of gypsum plaster and encased in a thin cardboard. Usually 1/2" thick and 4' x 8' or 4' X 12' in size. The 'joint compound'. 'Green board' type drywall has a greater resistance to moisture than regular (white) plasterboard and is used in bathrooms and other "wet areas".
- Shim** • A small piece of scrap lumber or shingle, usually wedge shaped, which when forced behind a furring strip or framing member forces it into position. Also used when installing doors and placed between the door jambs and 2 X 4 door trimmers. Metal shims are wafer 1 1/2" X 2" sheet metal of various thicknesses used to fill gaps in wood framing members, especially at bearing point locations.
- Shingles** • Roof covering of asphalt, asbestos, wood, tile, slate, or other material cut to stock lengths, widths, and thicknesses.
- Shingles, siding** • Various kinds of shingles, used over sheathing for exterior wall covering of a structure.
- Shutter** • Usually lightweight louvered decorative frames in the form of doors located on the sides of a window. Some shutters are made to close over the window for protection.
- Siding** • The finished exterior covering of the outside walls of a frame building.
- Skylight** • A more or less horizontal window located on the roof of a building.
- Slab, concrete** • Concrete pavement, i.e. driveways, garages and basement floors.
- Slab, door** • A rectangular door without hinges or frame.
- Soffit** • The area below the eaves and overhangs. The underside where the roof overhangs the walls. Usually the underside of an overhanging cornice.
- Stair Landing** • A platform between flights of stairs or at the termination of a flight of stairs. Often used when stairs change direction. Normally no less than 3 ft. X 3 ft. square.
- Stile** • An upright framing member in a panel door.
- Stool** • The flat molding fitted over the window sill between jambs and contacting the bottom rail of the lower sash.
- Stops** • Moldings along the inner edges of a door or window frame. Also valves used to shut off water to a fixture.
- Storm sash or storm window** • An extra window usually placed outside of an existing one, as additional protection against cold weather.
- String, stringer** • A timber or other support for cross members in floors or ceilings. In stairs, the supporting member for stair treads. Usually a 2 X 12 inch plank notched to receive the treads.
- Stucco** • Refers to an outside plaster finish made with Portland cement as its base.
- Stud** • A vertical wood framing member, also referred to as a wan stud, attached to the horizontal sole plate below and the top plate above. Normally 2 X 4's or 2 X 6's, 8' long (sometimes 92 5/8"). One of a series of wood or metal vertical structural members placed as supporting elements in walls and partitions.
- Subfloor** • The framing components of a floor to include the sill plate, floor joists, and deck sheathing over which a finish floor is to be laid.
- Substrate** • A surface on which paint, varnish, or other coating has been applied or may be applied. Examples of substrates include wood, plaster, metal, and drywall.
- Suspended ceiling** • A ceiling system supported by hanging it from the overhead structural framing.
- Terra cotta** • A ceramic material molded into masonry units.
- Testing combination** • A unique surface to be tested that is characterized by the room equivalent, component, and substrate.
- Threshold** • The bottom metal or wood plate of an exterior door frame. Generally they are adjustable to keep a tight fit with the door slab.
- Tread** • The walking surface board in a stairway on which the foot is placed.
- Treated lumber** • A wood product, which has been impregnated with chemical pesticides such as CCA (Chromate Copper Arsenate) to reduce damage from wood rot insects. Often used for the portions of a structure, which are likely to be in contact with soil and water. Wood may also be treated with a fire retardant.
- Treatment** • In residential lead-based paint hazard control work, any method designed to control lead-based paint hazards. Treatment includes interim controls, abatement, and removal.
- Trim** • Interior • The finish materials in a building, such as moldings applied around openings (window trim, door trim) or at the floor and ceiling of rooms (baseboard, cornice, and other moldings). Also, the physical work of installing interior doors and interior woodwork, to include all handrails, guardrails, stair way balustrades, mantles, light boxes, base, door casings, cabinets, countertops, shelves, window sills and aprons, etc. Exterior - The finish materials on the exterior of a building, such as moldings applied around openings (window trim, door trim), siding, windows, exterior doors, attic vents, crawl space vents, shutters, etc. Also, the physical work of installing these materials.
- Ug** • Micrograms. The prefix micro means 1/1,000,000 (or one-millionth); a microgram is 1/1,000,000 of a gram and 1/1,000 or a milligram.
- Veneer** • Extremely thin sheets of wood. Also a thin slice of wood, brick or stone covering a framed wall.
- Vent** • A pipe or duct, which allows the flow of air and gasses to the outside. Also, another word for the moving glass part of a window sash, i.e. window vent.
- Wafer board** • A manufactured wood panel made out of 1"-2" wood chips and glue. Often used as a substitute for plywood in the exterior wall and roof sheathing.
- Water board** • Water resistant drywall used in a tub or shower location, normally green or blue colored.
- Window frame** • The stationary part of a window unit; window sash fits into the window frame.
- Window sash** • The operating or movable part of a window; the sash is made of window panes and their border.
- Window sill** • See Interior window sill.
- Window trough** • For a typical double-hung window, the portion of the exterior window sill between the exterior window sill and the interior window sill (or stool) and the frame of the storm window. If there is no storm window, the window trough is the area that receives both the upper and lower window troughs when they are both lowered. Sometimes inaccurately called the window "well." See also Window well.
- Window well** • The space that provides exterior access and/or light to a window that is below grade, i.e., below the level of the surrounding earth or pavement.
- XRF analyzer** • An instrument that determines lead concentration in milligrams per square centimeter (mg/cm²) using the principle of x-ray fluorescence (XRF). For lead based paint inspections, the term XRF analyzer only refers to portable instruments manufactured to analyze paint, and does not refer to laboratory-grade units or portable instruments designed to analyze soil.