Asbestos Survey Inspection Report

Wood Frame Single Residence & Shed
Southside of US 84
Tullos, Louisiana 71478
State Project Number: H000754
Parcel Number: 3-2-C-1

Prepared For:

Louisiana Department of Transportation & Development
1201 Capitol Access Road
Baton Rouge, LA 70802

October 15, 2018

By:

Newman Marchive Incorporated
A Professional Corporation
A Veteran Owned Small Business
Architecture / Environmental Consulting
2800 Youree Drive, Suite 310
Shreveport, LA 71104
Phone: 318-219-1814

NM #184000

Table of Contents

Executive Summary

Cynthia M. Garner from Newman Marchive Incorporated (NMI) performed an asbestos survey in of the wood frame home and adjacent shed located on the Southside of US 84 in Tullos, Louisiana. The survey was completed on October 4, 2018. The survey was performed at the request of Radha Kumar and the state project number is H000754. The purpose of the survey was to verify there were no asbestos containing building materials and to update the existing Management Plan.

Samples were collected and analyzed by an accredited laboratory in accordance with Environmental Protection Agency (EPA) guidance.

Sample Results

The materials listed in Table 1, provided in Appendix 1, were observed and considered suspect materials. Sample locations are identified in Sample Floor Plans included Appendix 4. Homogenous Floor Plans identifying locations of asbestos are included in Appendix 5. All laboratory analysis reports are provided in Appendix 2.

Recommendations

Asbestos abatement is required if materials will be damaged or disturbed during renovations or repairs. An asbestos abatement design by a licensed designer is recommended to protect the owner. Asbestos containing materials are regulated by various State and Federal agencies including:

- Asbestos Hazard Emergency Response Act (AHERA)
- National Emission Standards for Hazardous Air Pollutants (NESHAP)
- Louisiana Emission Standards for Hazardous Air Pollutants (LESHAPS)
- Occupational Safety and Health Administration (OSHA)
- Louisiana Department of Environmental Quality (LDEQ)

Summary

The sample results, observations, and recommendations in this report are based on the conditions observed and recorded on the day of the inspection. The assessment conducted was a limited inspection and did not include an extensive review of all building systems. The areas of the building indicated as a concern were the primary focus of this review.

This report is provided to the client and the results and information contained herein are for the express use of the client relative to the Department of Transportation and Development. The data in this report has not been released to others and will not be released without express written permission of the client.

Prepared by:
Newman Marchive Incorporated

Cynthia M. Garner
Environmental Manager

Acronyms

ACM.....Asbestos Containing Materials
AHERA ..... Asbestos Hazard Emergency Response Act
EPA ..... Environmental Protection Agency
LDEQ..... Louisiana Department of Environmental Quality
LESHAPS ..... Louisiana Emission Standards for Hazardous Air Pollutants
NESHAP.....National Emission Standards for Hazardous Air Pollutants
NMI ..... Newman Marchive Incorporated
O&M ..... Operations and Maintenance
OSHA ..... Occupational Safety and Health Administration

Appendix 1 – Sample Results

Table 1 – Materials Sampled

Sample Number	Homogeneous Area	Description	Condition	Friable	Lab Results
House					
DT001	M1	Cement Board Siding	Poor	No	**20% Chrysotile**
DT002	M1	Cement Board Siding	Poor	No	**20% Chrysotile**
DT003	F1	Linoleum Flooring – Yellow & Tan Mastic	Poor	Yes	**20% Chrysotile**
DT004	F1	Linoleum Flooring – Yellow & Tan Mastic	Poor	Yes	**20% Chrysotile**
DT005	F2	Linoleum Flooring – Floral & Tan Mastic	Poor	Yes	None Detected
DT006	F2	Linoleum Flooring – Floral & Tan Mastic	Poor	Yes	None Detected
DT007	W1	Wall Board	Poor	No	None Detected
DT008	W1	Wall Board	Poor	No	None Detected
DT009	C1	Ceiling Tile – Grooved	Poor	Yes	None Detected
DT010	C1	Ceiling Tile – Grooved	Poor	Yes	None Detected
DT011	C2	Gypsum Board Ceiling	Poor	Yes	None Detected
DT012	C2	Gypsum Board Ceiling	Poor	Yes	None Detected
DT013	M2	Window Caulking	Poor	Yes	None Detected
DT014	M2	Window Caulking	Poor	Yes	None Detected
DT015	C3	Ceiling Tile – Smooth	Poor	Yes	None Detected
DT016	C3	Ceiling Tile – Smooth	Poor	Yes	None Detected
Shed					
DT017	M3	Wall Board	Poor	No	None Detected
DT018	M3	Wall Board	Poor	No	None Detected

Appendix 2 – Laboratory Results

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Newman Marchive Carlisle
2800 Youree Drive, Suite 310
Shreveport, LA 71104

Attn: John Carlisle
Customer Project: 184000
Reference #: CBR18104858 Date: 10/12/2018

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated of asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found be PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be delectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one these disciplines .Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. This report is not covered by the scope of AIHA accreditation. Analysis performed at CA Labs, LLC 12232 Industriplex, Suite 32 Baton Rouge, LA 70809.

Baton Rouge NVLAP Lab Code 200772-0 TEM/PLM *TDH 30-0370*
LDEQ

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project: 184000 **CA Labs Project #:** CBR18104858

Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
DT001	1	*White Surfaced Gray Transite*	***20% Chrysotile***	***White Surfaced Gray Transite*** ***Tan Linoleum***
DT002	1	*White Surfaced Gray Transite*	***20% Chrysotile***	
DT003	1	*Tan Linoleum*	***20% Chrysotile***	
DT004	1	*Tan Linoleum*	***20% Chrysotile***	

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Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix
mi - mica
ve - vermiculite
ot - other
pe - perlite
qu - quartz
fg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)
pa - palygorskite (clay)

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CA Labs
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Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** John Carlisle
Newman Marchive Carlisle
2800 Youree Drive, Suite 310
Shreveport, LA 71104

Phone # 318-219-1814
Fax # 318-219-1818

Customer Project:
184000

Turnaround Time: 5 day

CA Labs Project #:
CBR18104858

Date: 10/12/2018
Samples Received: 10/8/2018
Date Of Sampling:
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
DT001		1	*White Surfaced Gray Transite*	N	***20% Chrysotile***		80% qu, ma, bi, ca
DT002		1	*White Surfaced Gray Transite*	N	***20% Chrysotile***		80% qu, ma, bi, ca
DT003		1	*Tan Linoleum*	Y	***20% Chrysotile***		80% qu, ma
	4	2	*Tan Mastic*	N			
DT004		1	*Tan Linoleum*	Y	***20% Chrysotile***		80% qu, ma
	4	2	*Tan Mastic*	N			
DT005		1	*Red Linoleum with Black Felt Backing*	Y	***None Detected***	20% ce	80% qu, bi

Baton Rouge NVLAP Lab Code 200772-0 TEM/PLM *TDH 30-0370*

LDEQ

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Sidney Pinkerton
Analyst

Senior Analyst
Alicia Stretz

Laboratory Director
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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2800 Youree Drive, Suite 310
Shreveport, LA 71104

Phone # 318-219-1814
Fax # 318-219-1818

Customer Project:
184000

Turnaround Time: 5 day

CA Labs Project #:
CBR18104858

Date: 10/12/2018
Samples Received: 10/8/2018
Date Of Sampling:
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		2	*Tan Mastic*	Y	***None Detected***		100% qu, bi
DT006		1	*Red Linoleum with Black Felt Backing*	Y	***None Detected***	20% ce	80% qu, bi
		2	*Tan Mastic*	Y	***None Detected***		100% qu, bi
DT007		1	*White Surfacing*	Y	***None Detected***		100% qu, ma, bi
		2	*Brown Paneling*	Y	***None Detected***	100% ce	
DT008		1	*White Surfacing*	Y	***None Detected***		100% qu, ma, bi
		2	*Brown Paneling*	Y	***None Detected***	100% ce	

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gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

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Customer Project:
184000

Turnaround Time: 5 day

CA Labs Project #:
CBR18104858

Date: 10/12/2018
Samples Received: 10/8/2018
Date Of Sampling:
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
DT009		1	*White Surfacing*	Y	***None Detected***		100% qu, bi, ca
		2	*Brown Ceiling Tile*	Y	***None Detected***	100% ce	
DT010		1	*White Surfacing*	Y	***None Detected***		100% qu, bi, ca
		2	*Brown Ceiling Tile*	Y	***None Detected***	100% ce	
DT011		1	*White Drywall with Paper*	N	***None Detected***	10% ce	90% qu, gy
DT012		1	*White Drywall with Paper*	N	***None Detected***	10% ce	90% qu, gy
DT013		1	*Gray Sealant*	Y	***None Detected***		100% qu, ma, ca

Baton Rouge NVLAP Lab Code 200772-0 TEM/PLM *TDH 30-0370*

LDEQ

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gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Sidney Pinkerton
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Turnaround Time: 5 day

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Date Of Sampling:
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
DT014		1	*Gray Sealant*	Y	***None Detected***		100% qu, ma, ca
DT015		1	*Gray Surfacing*	Y	***None Detected***		100% qu, bi, ca
		2	*Brown Ceiling Tile*	Y	***None Detected***	100% ce	
DT016		1	*Gray Surfacing*	Y	***None Detected***		100% qu, bi, ca
		2	*Brown Ceiling Tile*	Y	***None Detected***	100% ce	
DT017		1	*Gray Surfacing*	Y	***None Detected***		100% qu, bi, ca
		2	*Brown Ceiling Tile*	Y	***None Detected***	100% ce	

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2800 Youree Drive, Suite 310
Shreveport, LA 71104

Phone # 318-219-1814
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Customer Project:
184000

Turnaround Time: 5 day

CA Labs Project #:
CBR18104858

Date: 10/12/2018
Samples Received: 10/8/2018
Date Of Sampling:
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
DT018		1	*Gray Surfacing*	Y	***None Detected***		100% qu, bi, ca
		2	*Brown Ceiling Tile*	Y	***None Detected***	100% ce	

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Newman Marchive Carlisle, Inc.
2800 Youree Drive - Suite 310
Shreveport, Louisiana 71104

318-219-1814

CBR18104858

SAMPLE TRANSMITTAL FORM
CHAIN OF CUSTODY

TO:	CA Labs
	Fed Ex Baton Rouge
VIA:	Fed Ex

✓	ORIGINAL		Copy

DATE	PROJECT NO.	QUANTITY
10/4/18	184000	18

✓	Bulk Samples		Chips
	Air Samples		Water
	Soil Samples		MicroVac
	Wipe Samples		Other

Turn Around Time		RUSH	5	Days
Results To:	✓	Cyndi Garner		Brady Henderson
		Phone	318-219-1814	
		Email	brady@newmaninc.com	
	✓	Email	garnerc@newmaninc.com	

If enclosures are not as noted, please notify our office.

Asbestos		Lead		Microbial	
	PCM - NIOSH 7400		Wipe		Air-O-Cell
	TEM - AHERA 40 CFR		Soil		Wipe
✓	PLM - EPA 600		Air		Bulk
	Soil		Chips		Culture
	Wipe - TEM		Water		Agar Plate
	Other		Other		Other

	SAMPLE NO:	Vol / Qty / Area	SAMPLE NO:	Vol / Qty / Area	SAMPLE NO:	Vol / Qty / Area
1	DT001	NA	DT016	NA		
2	DT002	"	DT017	"		
3	DT003	"	DT018	"		
4	DT004	"				
5	DT005	"				
6	DT006	"				
7	DT007	"				
8	DT008	"				
9	DT009	"				
10	DT010	"				
11	DT011	"				
12	DT012	"				
13	DT013	"				
14	DT014	"				
15	DT015	"				

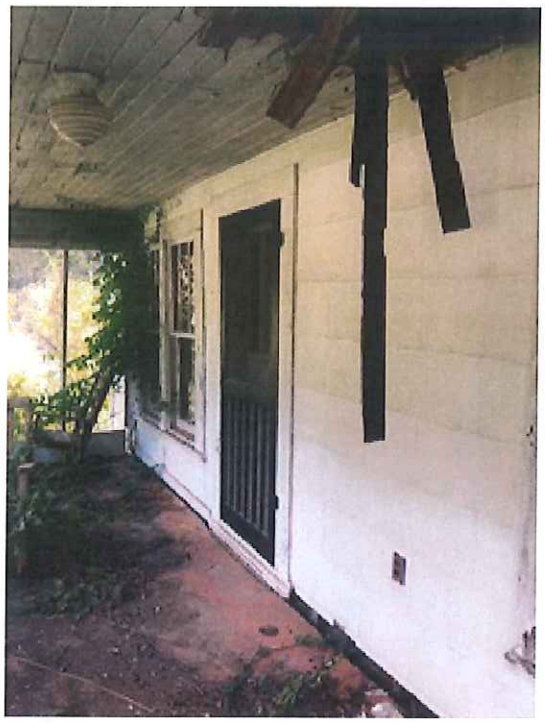
COMMENTS / or Sample Testing Instructions:

SAMPLE TRANSFERRED FROM:		
	DATE	SIGNATURE / COMPANY
1	10/5/18	Newman Marchive Carlisle, Inc.
3		

SAMPLE TRANSFERRED TO:		
	DATE	SIGNATURE / COMPANY
2	10/8/18 9:44AM	Jennifer Waters CA Labs
4		Newman Marchive Carlisle, Inc.

NMC Office Use	Results To:	
	Date:	

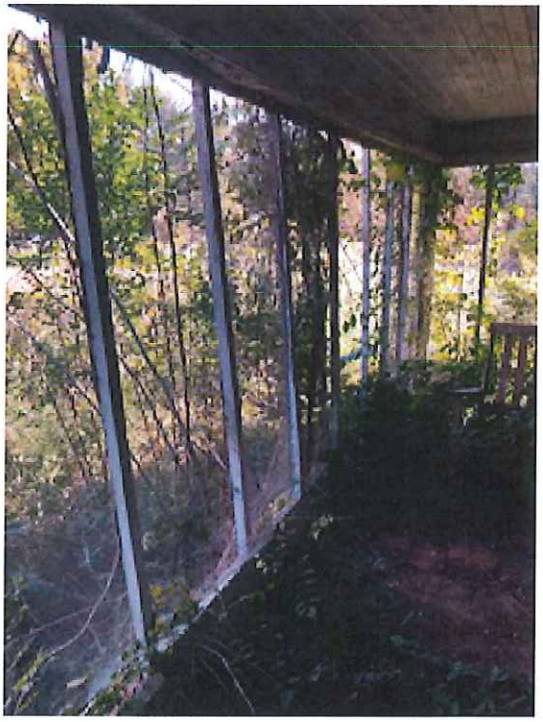
Appendix 3 – Pictures



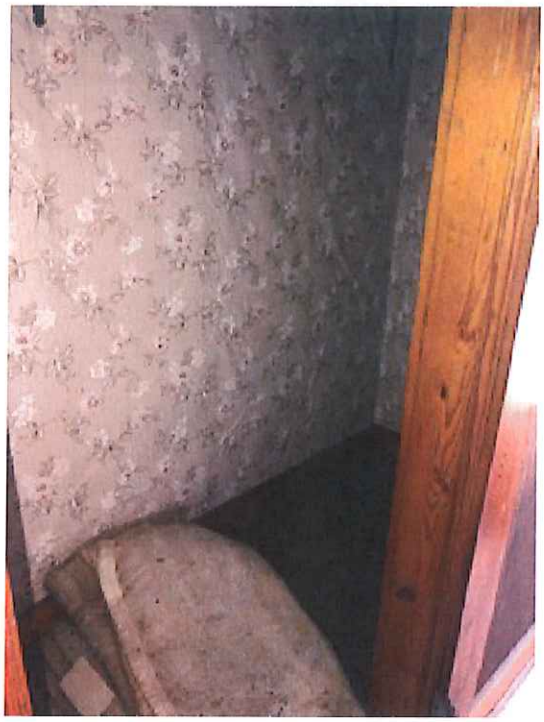
10/4/2018
M1 - Cement Board Siding

10/4/2018

10/4/2018



10/4/2018



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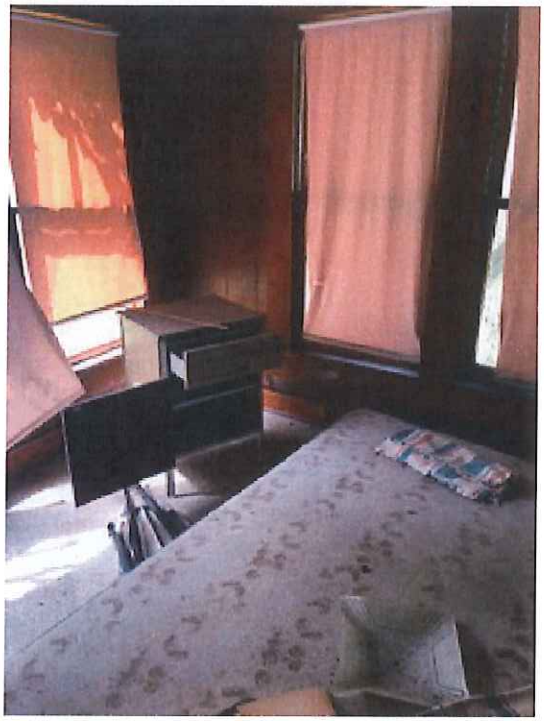
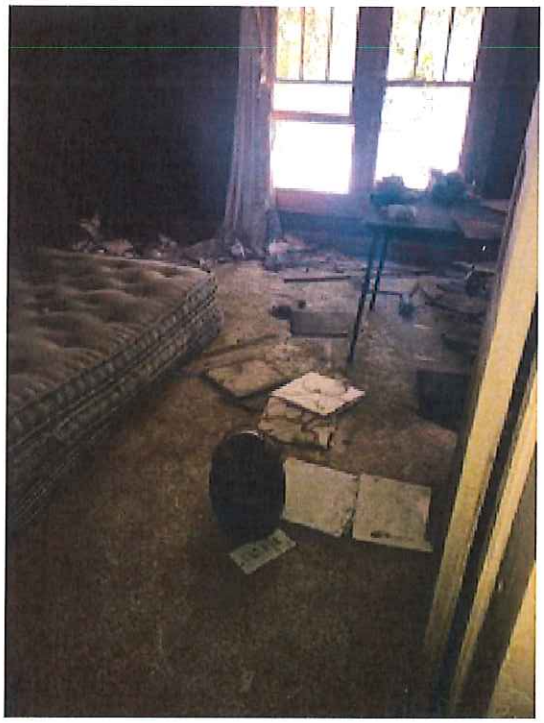


10/4/2018

10/4/2018



10/4/2018
F1 - Yellow Linoleum Flooring

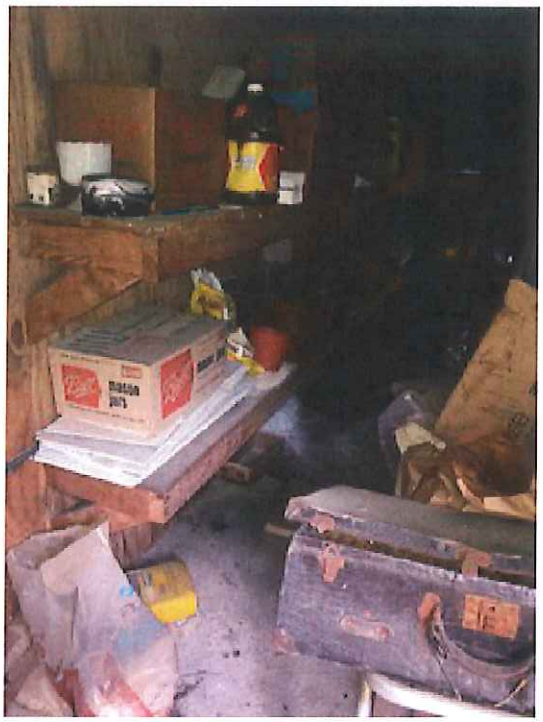
10/4/2018

10/4/2018

10/4/2018

10/4/2018

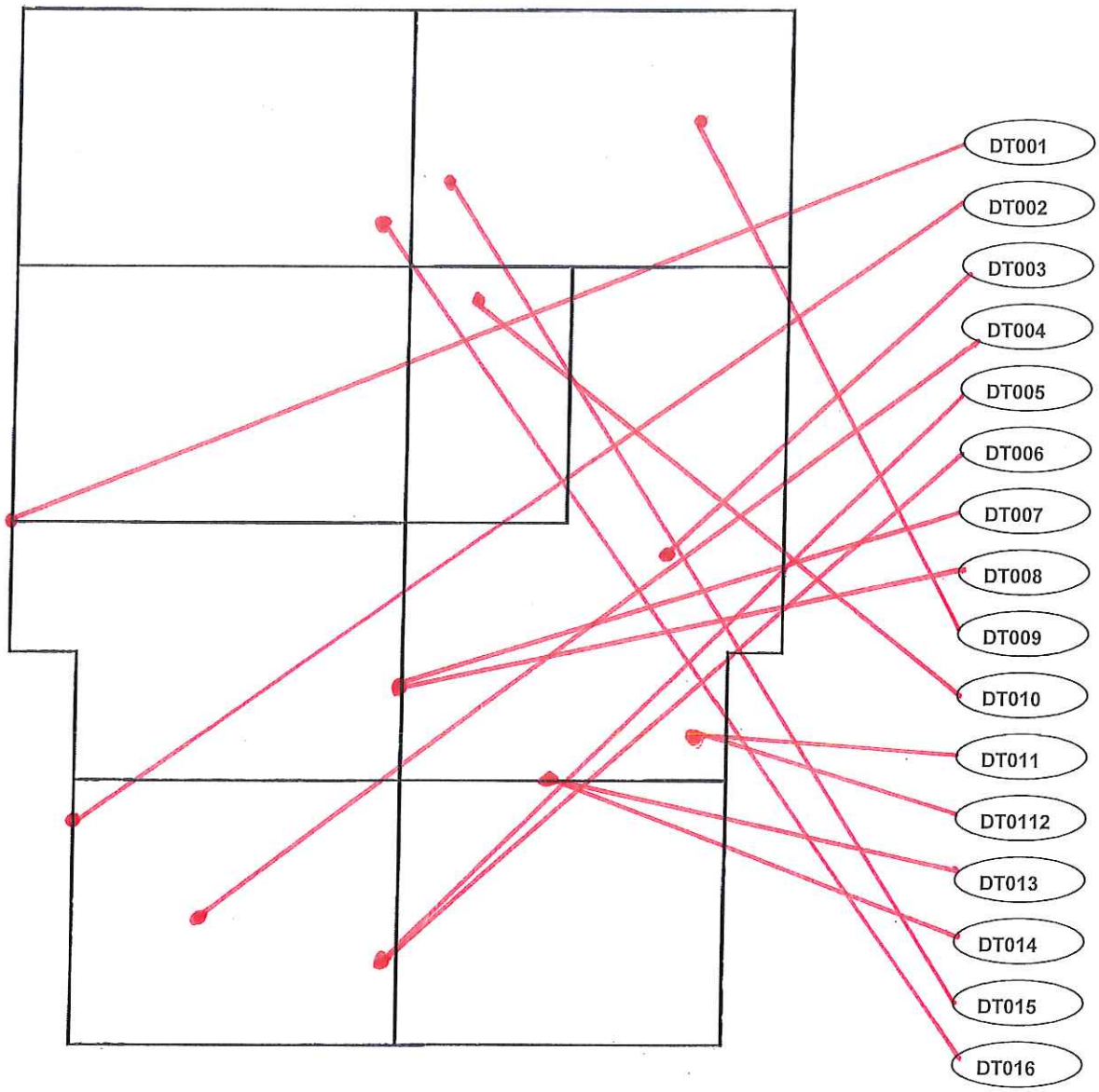
10/4/2018



10/4/2018

10/4/2018

Appendix 4 – Sample Plans



Department of Transporation & Development
US 84: UP Railroad Overpass
Tullos, LA 71748

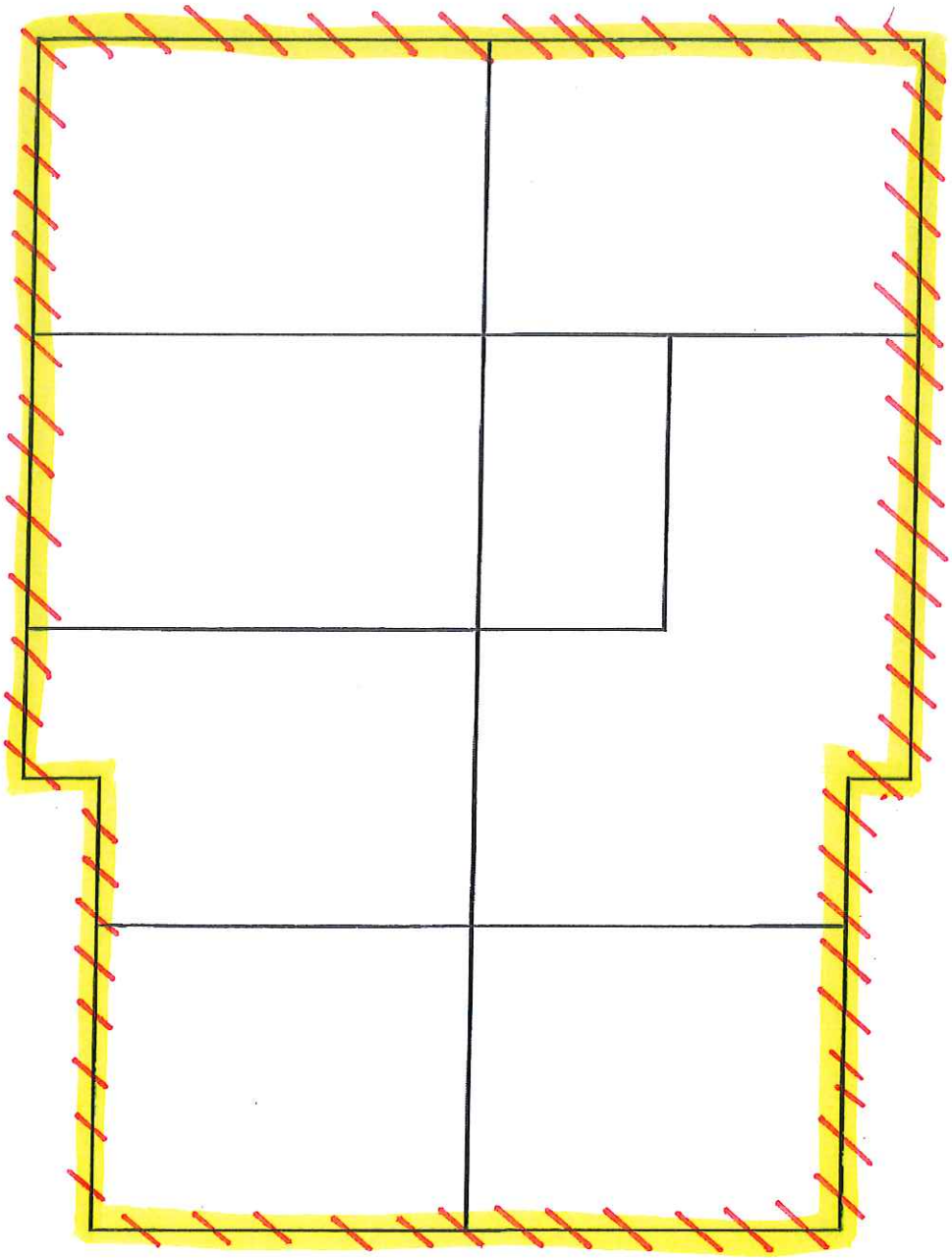
Newman Marchive Incorporated

Scale: Not to Scale
Project # 184000

Floor Plan

Asbestos Sample Locations

Appendix 5 – Homogenous Plans



Indicates Locations of Material

Indicates Positive Material

Department of Transporation & Development
US 84: UP Railroad Overpass
Tullos, LA 71748

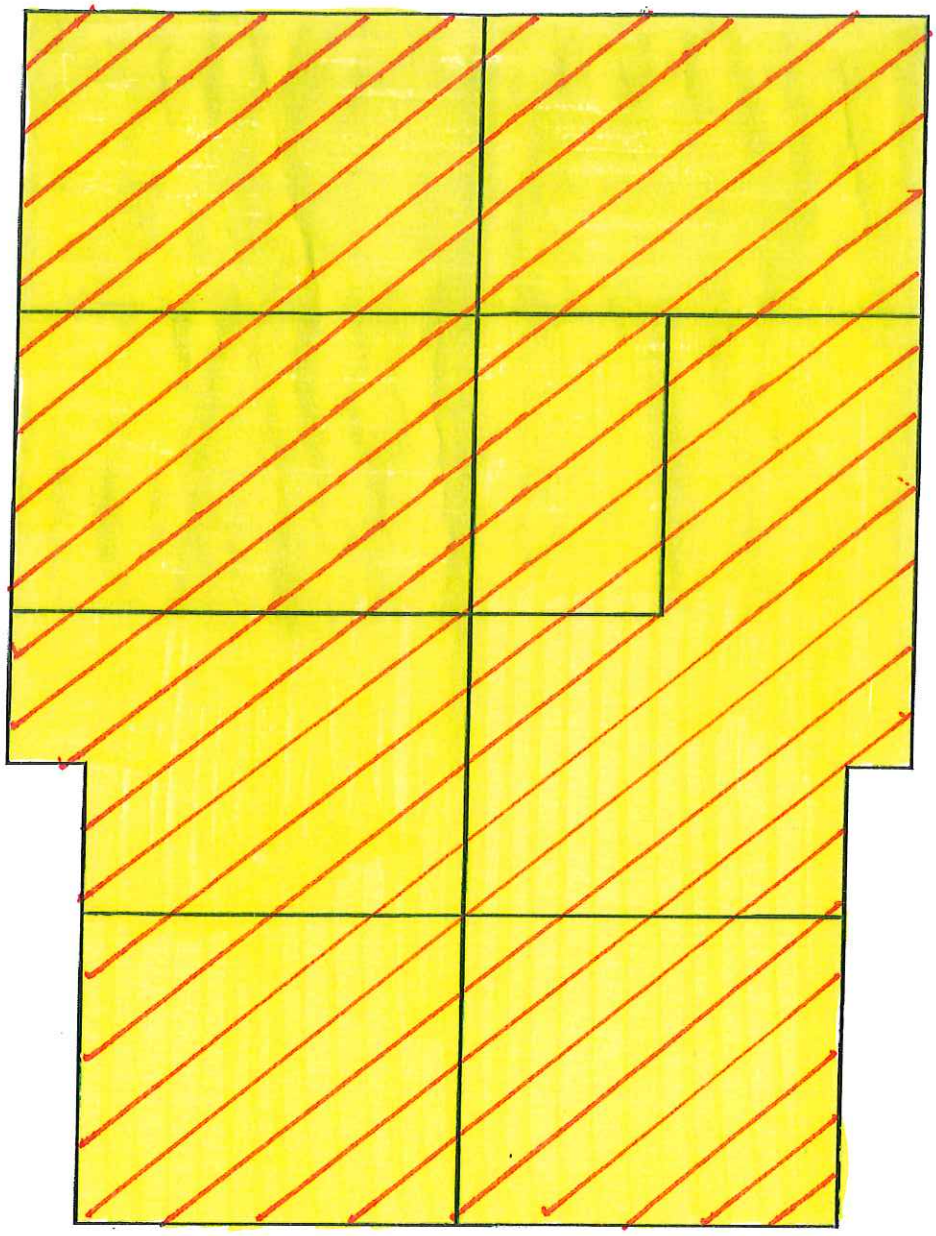
Scale: Not to Scale
Newman Marchive Incorporated Project # 184000

Homogeneous ID

M1

Description

Cement Board Siding



Indicates Locations of Material

Indicates Positive Material

Department of Transporation & Development
US 84: UP Railroad Overpass
Tullos, LA 71748

Scale: Not to Scale
Newman Marchive Incorporated Project # 184000

Homogeneous ID

F1

Description

Linoleum Floor & Mastic

Appendix 6 – Certificates

STATE OF LOUISIANA

DEPARTMENT OF ENVIRONMENTAL QUALITY

certifies that

Cynthia M Garner

Has complied with all requirements of the Louisiana Department of Environmental Quality and is authorized to perform the duties of

ASBESTOS CONTRACTOR/SUPERVISOR

Accreditation No. 9S200895 AI No. 200895

Date of Issuance 2/15/2018 Expiration 2/12/2019

Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a) may result in civil and/or criminal enforcement actions by the State.

Christopher Mayeux
Permit Support Services Division
Office of Environmental Services

CG

STATE OF LOUISIANA

DEPARTMENT OF ENVIRONMENTAL QUALITY

certifies that

Cynthia M Garner

Has complied with all requirements of the Louisiana Department of Environmental Quality and is authorized to perform the duties of

ASBESTOS INSPECTOR

Accreditation No. 9I200895 AI No. 200895

Date of Issuance 2/15/2018 Expiration 1/26/2019

Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a) may result in civil and/or criminal enforcement actions by the State.

Christopher Mayeux
Permit Support Services Division
Office of Environmental Services

CG

STATE OF LOUISIANA

DEPARTMENT OF ENVIRONMENTAL QUALITY

certifies that

Cynthia M Garner

Has complied with all requirements of the Louisiana Department of Environmental Quality and is authorized to perform the duties of

ASBESTOS MANAGEMENT PLANNER

Accreditation No. 9P200895 AI No. 200895

Date of Issuance 2/15/2018 Expiration 1/24/2019

Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a) may result in civil and/or criminal enforcement actions by the State.

Christopher Mayeux
Permit Support Services Division
Office of Environmental Services

CG