

**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
EQUIPMENT AND PROCUREMENT DIVISION
BID INVITATION**

Bid Number: M-14-001P

BID OPENING LOCATION:
AHTD Equipment and
Procurement Division
11302 W. Baseline Road
Little Rock, AR 72209

MAIL TO:
AHTD Equipment and
Procurement Division
P.O. Box 2261
Little Rock, AR 72203

DELIVER TO:
AHTD Equipment and
Procurement Division
11302 W. Baseline Road
Little Rock, AR 72209

Bid Opening Date: July 2, 2013 Time: 11:00 a.m.

Sealed bids for furnishing the commodities and/or services described below, subject to the Conditions on Page 2 of this Bid Invitation will be received at the above-noted mail and delivery locations until the above-noted bid opening date and time, and then publicly opened at the above-noted bid opening location. **Bids must be submitted on this form, with attachments when appropriate, or bids will be rejected. Late bids and unsigned bids will not be considered.**

In compliance with this Bid Invitation and subject to all the Conditions thereof, the undersigned offers and agrees to furnish any and all items upon which prices are quoted, at the price set opposite each item.

Company Name: _____

Name (Type or Print): _____

Address: _____

Title: _____

Phone: _____ Fax: _____

City: _____ State: _____ Zip: _____

E-mail Address: _____

Federal Tax ID or Social Security No.: _____

Signature: _____

Signature must be legible, original (not photocopied) and in ink.
Unsigned bids will be rejected.

1. Asbestos Abatement and Demolition located at Conway South Interchange, Hwy. 365 (Gr. & Strs.) Route I-40 Section 32, Faulkner County; as per attached work list for Tracts 7X, 8X, 9X, 10X, 12X, 14X, 22X, 23X, 25X, 28X, 29X, 30X, 33X, 34X & 76X - Job 080395.

To meet the requirements of Arkansas State Highway and Transportation Department Specifications and Drawings attached to and made a part of this bid.

LUMP SUM _____

Tracts **must** be priced individually as listed on the Work List but bid will be awarded by the Lump Sum.

Additional tracts and/or structures may be added to this contract from this job.

Pricing for Additional Pay Items is requested on Page 4.

(Additional pay item pricing will be on an as needed basis and does not obligate the Department to award any additional tracts.)

Contact for Technical Information: Joel Clark, Property Manager (501-569-2317)

Contacts for Bidding Information: Danny Keene (501-569-2674) or Chicita Pate (501-569-2675)

Bid price shall include all labor, materials, and equipment necessary to perform the work as specified, and shall further include all licenses, fees, permits, royalties, and all taxes. Bid price shall represent full compensation for completion of the work. This provision supersedes Condition 4 on page 2 of Bid Invitation. Payment will be made in accordance with Arkansas Highway & Transportation Department Standard Specifications and Applicable Special Provisions.

Bid Bond in the amount of 5% of total bid price required of all bidders at time of bid opening or bid will be rejected. **Personal and company checks are not acceptable as Bid Bonds.** See Condition 3 on page 2 of Bid Invitation.

Performance Bond only (no checks of any kind allowed) in the amount of 100% of total bid price will be required of successful bidder prior to providing goods/services. See Condition 3 on page 2 of Bid Invitation.

The successful bidder will be required to submit Notice of Intent (NOI) to ADEQ within 3 days after receipt of Purchase Order and to complete all work within forty-five (45) calendar days from the starting date on the NOI. Work not completed within this time frame shall result in the successful bidder being charged \$120.00 per day until work is completed.

Name, Address, Phone No. of Disposal Site: _____

Bids and Specifications are available on-line by going to the AHTD Web Site – www.arkansashighways.com and clicking on “Commodities and Services Bids/Contracts Information”. Tabulations will also be available at this site within 72 hours after bid opening. If you have any questions, call this office at 501-569-2667.

STANDARD BID CONDITIONS

M-14-001P

1. **ACCEPTANCE AND REJECTION:** The Arkansas State Highway and Transportation Department (AHTD) reserves the right to reject any or all bids, to accept bids in whole or in part (unless otherwise indicated by bidder), to waive any informalities in bids received, to accept bids on materials or equipment with variations from specifications where efficiency of operation will not be impaired, and to award bids to best serve the interest of the State.
2. **PRICES:** Unless otherwise stated in the Bid Invitation, the following will apply: (1) unit prices shall be bid, (2) prices should be stated in units of quantity specified (feet, each, lbs., etc.), (3) prices must be F.O.B. destination specified in bid, (4) prices must be firm and not subject to escalation, (5) bid must be firm for acceptance for 30 days from bid opening date. In case of errors in extension, unit prices shall govern. Discounts from bid price will not be considered in making awards.
3. **BID BONDS AND PERFORMANCE BONDS:** If required, a **Bid Bond** in the form of a cashier's check, certified check, or surety bond issued by a surety company, in an amount stated in the Bid Invitation, must accompany bid. **Personal and company checks are not acceptable as Bid Bonds.** Failure to submit a Bid Bond as required will cause a bid to be rejected. The Bid Bond will be forfeited as liquidated damages if the successful bidder fails to provide a required Performance Bond within the period stipulated by AHTD or fails to honor their bid. Cashier's checks and certified checks submitted as Bid Bonds will be returned to unsuccessful bidders; surety bonds will be retained. The successful bidder will be required to furnish a **Performance Bond** in an amount stated in the Bid Invitation and in the form of a cashier's check, certified check, or surety bond issued by a surety company, unless otherwise stated in the Bid Invitation, as a guarantee of delivery of goods/services in accordance with the specifications and within the time established in the bid. **Personal and company checks are not acceptable as Performance Bonds.** In some cases, a cashier's check or certified check submitted as a Bid Bond will be held as the Performance Bond of the successful bidder. Cashier's checks or certified checks submitted as Performance Bonds will be refunded shortly after payment has been made to the successful bidder for completion of all terms of the bid; surety bonds will be retained. Surety bonds must be issued by a surety company authorized to do business in Arkansas, and must be signed by a Resident Local Agent licensed by the Arkansas State Insurance Commissioner to represent that surety company. Resident Agent's Power-of-Attorney must accompany the surety bond. Certain bids involving labor will require Performance Bonds in the form of surety bonds only (no checks of any kind allowed). In such cases, the company issuing the surety bond must comply with all stipulations herein and must be named in the U. S. Treasury listing of companies holding Certificates of Authority as acceptable sureties on Federal Bonds and as acceptable reinsuring companies. Any excess between the face amount of the bond and the underwriting limitation of the bonding company shall be protected by reinsurance provided by an acceptable reinsuring company. Annual Bid and Performance Bonds on file with E & P Division must have sufficient unencumbered funds to meet current bonding requirements, or the bid will be rejected, unless the balance is submitted as set forth above, prior to bid opening.
4. **TAXES:** The AHTD is not exempt from Arkansas State Sales and Use Taxes, or local option city/county sales taxes, when applicable, and bidders are responsible to the State Revenue Department for such taxes. These taxes should not be included in bid prices, but where required by law, will be paid by the AHTD as an addition thereto, and should be added to the billing to the AHTD. The AHTD is exempt from Federal Excise Taxes on all commodities except motor fuels; and excise taxes should not be included in bid prices except for motor fuels. Where applicable, tax exemption certificates will be furnished by the AHTD.
5. **"ALL OR NONE" BIDS:** Bidders who wish to bid "All or None" on two or more items shall so stipulate on the face of bid sheet; otherwise, bid may be awarded on an individual item basis.
6. **SPECIFICATIONS:** Complete specifications should be attached for any substitution or alternate offered, or where amplification is necessary. Bidder's name must be placed on all attachments to the bid.
7. **EXCEPTIONS TO SPECIFICATIONS:** Any exceptions to the bid specifications must be stated in the bid. Any exceptions to manufacturer's published literature must be stated in the bid, or it will be assumed that bidder is bidding exactly as stated in the literature.
8. **BRAND NAME REFERENCES:** All brand name references in bid specifications refer to that commodity or its equivalent, unless otherwise stated in Bid Invitation. Bidder should state brand or trade name of item being bid, if such name exists.
9. **FREIGHT:** All freight charges should be included in bid price. Any change in common carrier rates authorized by the Interstate Commerce Commission will be adjusted if such change occurs after the bid opening date. Receipted common carrier bills that reflect ICC authorized rate changes must be furnished.
10. **SAMPLES, LITERATURE, DEMONSTRATIONS:** Samples and technical literature must be provided free of any charge within 14 days of AHTD request, and free demonstrations within 30 days, unless AHTD extends time. Failure to provide as requested within this period may cause bid to be rejected. Samples, literature and demonstrations must be substantially the same as the item(s) being bid, unless otherwise agreed to by AHTD. Samples that are not destroyed will be returned upon request at bidders expense. Samples from successful bidders may be retained for comparison with items actually furnished.
11. **GUARANTY:** Unless otherwise indicated in Bid Invitation, it is understood and agreed that any item offered or shipped on this bid shall be newly manufactured, latest model and design, and in first class condition; and that all containers shall be new, suitable for storage or shipment and in compliance with all applicable laws relating to construction, packaging, labeling and registration.
12. **BACKORDERS OR DELAY IN DELIVERY:** Backorders or failure to deliver within the time required may constitute default. Vendor must give written notice to the AHTD, as soon as possible, of the reason for any delay and the expected delivery date. The AHTD has the right to extend delivery if reasons appear valid. If reason or delivery date is not acceptable, vendor is in default.
13. **DEFAULT:** All commodities furnished will be subject to inspection and acceptance by AHTD after delivery. Default in promised delivery or failure to meet specifications authorizes the AHTD to cancel award or any portion of same, to reasonably purchase commodities or services elsewhere and to charge full increase, if any, in cost and handling to defaulting vendor. Applicable bonds may be forfeited.
14. **ETHICS:** *"It shall be a breach of ethical standards for a person to be retained, or to retain a person, to solicit or secure a State contract upon an agreement of understanding for a commission, percentage, brokerage, or contingent fee, except for retention of bona fide employees or bona fide established commercial selling agencies maintained by the contractor for the purpose of securing business."* (Arkansas Code, Annotated, Section 19-11-708).

**ARKANSAS STATE HIGHWAY
AND TRANSPORTATION DEPARTMENT**

NOTICE OF NONDISCRIMINATION

The Arkansas State Highway and Transportation (Department) complies with all civil rights provisions of federal statutes and related authorities that prohibit discrimination in programs and activities receiving federal financial assistance. Therefore the Department does not discriminate on the basis of race, sex, color, age, national origin, religion or disability, in the admission, access to and treatment in the Department's programs and activities, as well as the Department's hiring or employment practices. Complaints of alleged discrimination and inquiries regarding the Department's nondiscrimination policies may be directed to Joanna P. Nelson, Section Head - EEO/DBE (ADA/504/Title VI Coordinator), P. O. Box 2261, Little Rock, AR 72203, (501) 569-2298, (Voice/TTY 711), or the following email address: joanna.nelson@arkansashighways.com.

This notice is available from the ADA/504/Title VI Coordinator in large print, on audiotape and in Braille.

ARKANSAS STATE HIGHWAY & TRANSPORTATION DEPARTMENT
LITTLE ROCK, ARKANSAS
EQUIPMENT & PROCUREMENT DIVISION

Bid No. M-14-001P

Page 4

BIDDER: _____

ITEM NO.	DESCRIPTION	AMOUNT
1.	Asbestos Abatement	\$_____ Square Foot
2.	Demolition	\$_____ Square Foot
3.	Foundation	\$_____ Linear Foot
4.	Foundation Slab	\$_____ Square Foot
5.	Well Closure	\$_____ Each
6.	Septic System Closure	\$_____ Each

Job 080395
Conway South Interchange
Hwy. 68 (Gr. & Strs.)
Route I-40 Section 32
Faulkner County
Tracts 7X, 8X, 9X, 10X, 12X, 14X, 22X,
23X, 25X, 28X, 29X, 30X, 33X, 34X, 76X

Work Site Directions

Traveling from Little Rock - take Interstate 40 west to Mayflower and take exit #135. Turn left onto Hwy. 89 West and cross over the interstate. Turn right onto Hwy. 365 North towards Conway, AR. The following tracts will be facing Hwy. 365. If you have made to Lawrence Landing Road, you have gone too far.

Tract 7 X, 295 Hwy. 365, Conway, AR 72032:
Tract 8 X, 297 Hwy. 365, Conway, AR 72032:
Tract 10 X, 301 Hwy. 365, Conway, AR 72032:
Tract 29 X, 305 Hwy. 365, Conway, AR 72032:
Tract 30 X, 307 Hwy. 365, Conway, AR 72032:

The following two tracts are located on McClure Acres Road.

Tract 9 X, #11 McClure Acres Road (Lane), Conway, AR 72032: McClure Acres Road turn east off of Hwy. 365. The road will have turn to the right and then the drive for #11 goes between two houses on your left and has another turn to the left. There you will find Tract 9 sitting about 130' to the north.

Tract 28 X, #3 McClure Acres Road (Lane), Conway, AR 72032: this will be the first house site on the left, just after turning onto McClure Acres Road.

Sturgis Road is located on the left side of Hwy. 365. Turn left at the Crossover 1 which is across the highway from G Town Road. Turn right onto Sturgis Road.

Tract 33 X, 369 Sturgis Road, Conway, AR 72032:
Tract 34 X, 367 Sturgis Road, Conway, AR 72032:

Lawrence Landing Road turns east off of Hwy. 365 and crosses over the interstate. Moore Lane runs south off of Lawrence Landing Road.

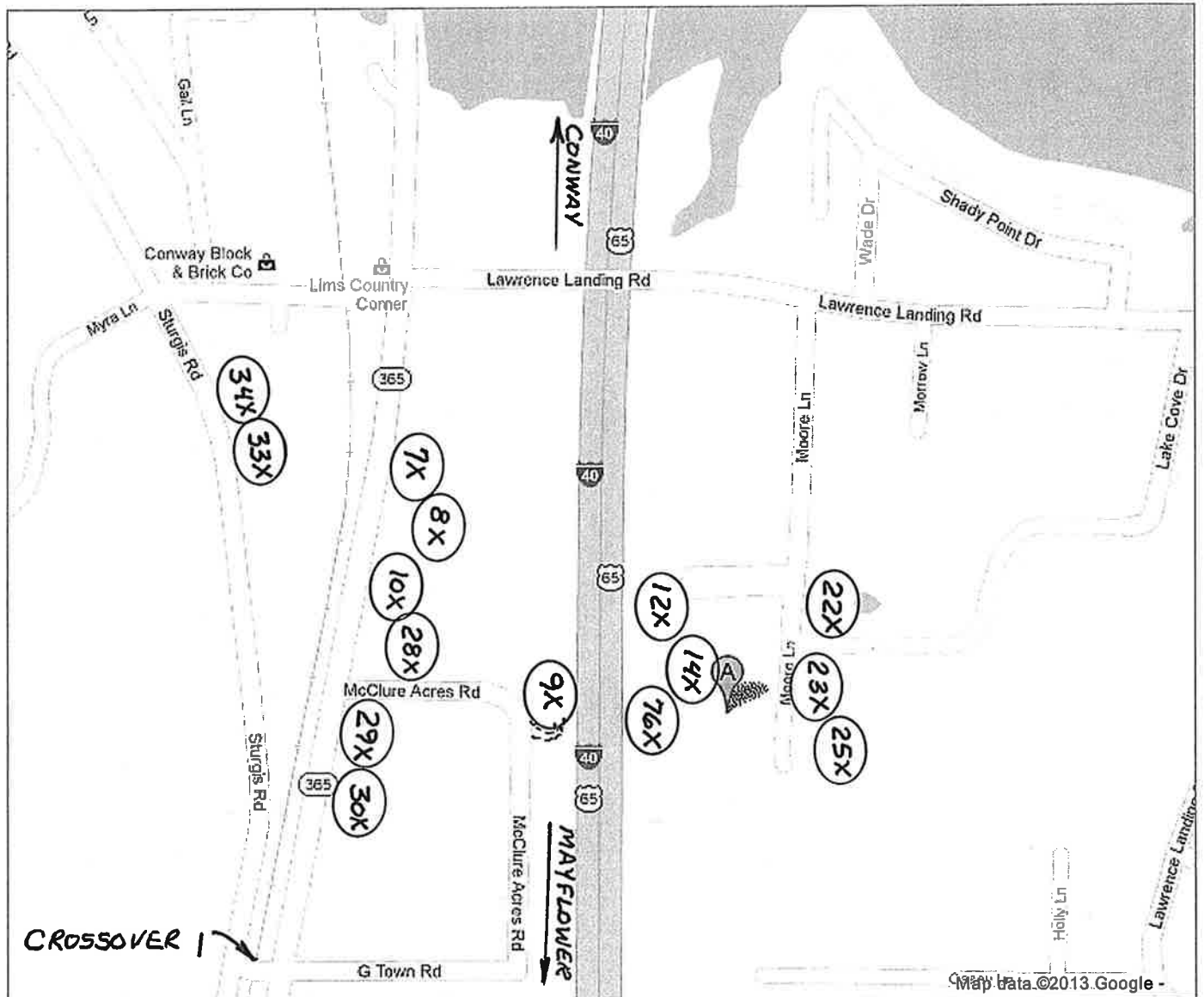
Tract 12X, 20 Moore Lane, Conway, AR:
Tractn 14X, 28 Moore Lane, Conway, AR:
Tract 22X, 27 Moore Lane, Conway, AR:
Tract 23X, 34 Moore Lane, Conway, AR:
Tract 25X, 34 A Moore Lane, Conway, AR:
Tract 76X, 30 Moor Lane, Conway, AR:

5/22/13

28 Moore Lane, Conway, AR - Google Maps

Google

To see all the details that are visible on the screen, use the "Print" link next to the map.



RIGHT OF WAY SIGNS AND SYMBOLS

- SECTION CORNER
QUARTER CORNER
QUARTER QUARTER CORNER
SECTION CENTER
STATE LINE OR CITY LIMITS
COUNTY LINE
TOWNSHIP LINE
QUARTER SECTION LINE
PROPERTY LINE
EXISTING R/W LINE
PROPOSED R/W LINE
EXISTING CONTROL OF ACCESS
PROPOSED CONTROL OF ACCESS
PROPOSED R/W & CONTROL OF ACCESS
EXISTING R/W DIMENSION
PROPOSED R/W DIMENSION
TEMPORARY & PERMANENT EXISTENT LINE
EXISTING BRIDGE OR SEPARATION STRUCTURE
PROPOSED BRIDGE OR SEPARATION STRUCTURE
EXISTING CULVERT
RAILROAD
PAVED ROADS
GRAVEL ROAD
DRAINAGE
FENCE
CONSTRUCTION LIMITS
TERRACE
LEAVE
RESIDENTIAL & COMMERCIAL BUILDING
INDUSTRIAL BUILDING
SMALL STREAM
LARGE STREAM
POND OR LAKE
TELEPHONE POLES
POWER POLES
TRANSMISSION LINES
OPENING TREES
DECIDUOUS WOODS
EVERGREEN WOODS
SET BACK R/W MONUMENT
TEMPORARY EXISTENT POINT
PERMANENT EXISTENT POINT
EXISTING R/W POINT
PROPERTY LINE POINT
ROAD MONUMENT
SURVEY CALCULATED POINT

"THIS IS A FULLY CONTROLLED ACCESS FACILITY"

STATE OF ARKANSAS
STATE HIGHWAY COMMISSION

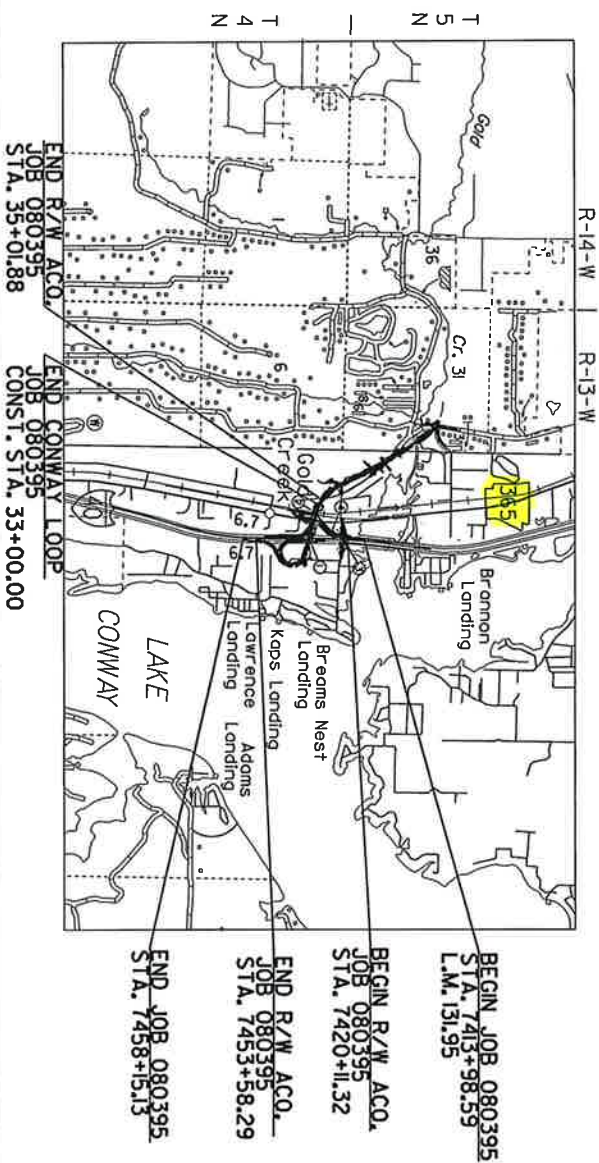
RIGHT OF WAY MAP CONWAY SOUTH INTERCHANGE

= HWY. 365 (GR. & STRS.) (F)

FAULKNER COUNTY
ROUTE I-40 SECTION 32
JOB 080395

JOB 080395

LAYOUT
NOT TO SCALE



02/2012



SURVEY CONTROL COORDINATES
Project Name: 5080395
Date: 1/27/2011
Coordinate System: ARKANSAS STATE PLANE - NORTH ZONE BASED ON GPS CONTROL
United U.S. Survey Foot PROJECTIONS TO GROUND.

Name	Nothing	Eating	Feet	Reaction
1-2345678901	233171 2514	1158460 3927	283 56	CL
2-3456789012	233172 2576	1158461 3928	283 56	CL
3-4567890123	233173 2576	1158462 3928	283 56	CL
4-5678901234	233174 2576	1158463 3928	283 56	CL
5-6789012345	233175 2576	1158464 3928	283 56	CL
6-7890123456	233176 2576	1158465 3928	283 56	CL
7-8901234567	233177 2576	1158466 3928	283 56	CL
8-9012345678	233178 2576	1158467 3928	283 56	CL
9-0123456789	233179 2576	1158468 3928	283 56	CL
10-1234567890	233180 2576	1158469 3928	283 56	CL
11-2345678901	233181 2576	1158470 3928	283 56	CL
12-3456789012	233182 2576	1158471 3928	283 56	CL
13-4567890123	233183 2576	1158472 3928	283 56	CL
14-5678901234	233184 2576	1158473 3928	283 56	CL
15-6789012345	233185 2576	1158474 3928	283 56	CL
16-7890123456	233186 2576	1158475 3928	283 56	CL
17-8901234567	233187 2576	1158476 3928	283 56	CL
18-9012345678	233188 2576	1158477 3928	283 56	CL
19-0123456789	233189 2576	1158478 3928	283 56	CL
20-1234567890	233190 2576	1158479 3928	283 56	CL
21-2345678901	233191 2576	1158480 3928	283 56	CL
22-3456789012	233192 2576	1158481 3928	283 56	CL
23-4567890123	233193 2576	1158482 3928	283 56	CL
24-5678901234	233194 2576	1158483 3928	283 56	CL
25-6789012345	233195 2576	1158484 3928	283 56	CL
26-7890123456	233196 2576	1158485 3928	283 56	CL
27-8901234567	233197 2576	1158486 3928	283 56	CL
28-9012345678	233198 2576	1158487 3928	283 56	CL
29-0123456789	233199 2576	1158488 3928	283 56	CL
30-1234567890	233200 2576	1158489 3928	283 56	CL
31-2345678901	233201 2576	1158490 3928	283 56	CL
32-3456789012	233202 2576	1158491 3928	283 56	CL
33-4567890123	233203 2576	1158492 3928	283 56	CL
34-5678901234	233204 2576	1158493 3928	283 56	CL
35-6789012345	233205 2576	1158494 3928	283 56	CL
36-7890123456	233206 2576	1158495 3928	283 56	CL
37-8901234567	233207 2576	1158496 3928	283 56	CL
38-9012345678	233208 2576	1158497 3928	283 56	CL
39-0123456789	233209 2576	1158498 3928	283 56	CL
40-1234567890	233210 2576	1158499 3928	283 56	CL
41-2345678901	233211 2576	1158500 3928	283 56	CL
42-3456789012	233212 2576	1158501 3928	283 56	CL
43-4567890123	233213 2576	1158502 3928	283 56	CL
44-5678901234	233214 2576	1158503 3928	283 56	CL
45-6789012345	233215 2576	1158504 3928	283 56	CL
46-7890123456	233216 2576	1158505 3928	283 56	CL
47-8901234567	233217 2576	1158506 3928	283 56	CL
48-9012345678	233218 2576	1158507 3928	283 56	CL
49-0123456789	233219 2576	1158508 3928	283 56	CL
50-1234567890	233220 2576	1158509 3928	283 56	CL
51-2345678901	233221 2576	1158510 3928	283 56	CL
52-3456789012	233222 2576	1158511 3928	283 56	CL
53-4567890123	233223 2576	1158512 3928	283 56	CL
54-5678901234	233224 2576	1158513 3928	283 56	CL
55-6789012345	233225 2576	1158514 3928	283 56	CL
56-7890123456	233226 2576	1158515 3928	283 56	CL
57-8901234567	233227 2576	1158516 3928	283 56	CL
58-9012345678	233228 2576	1158517 3928	283 56	CL
59-0123456789	233229 2576	1158518 3928	283 56	CL
60-1234567890	233230 2576	1158519 3928	283 56	CL
61-2345678901	233231 2576	1158520 3928	283 56	CL
62-3456789012	233232 2576	1158521 3928	283 56	CL
63-4567890123	233233 2576	1158522 3928	283 56	CL
64-5678901234	233234 2576	1158523 3928	283 56	CL
65-6789012345	233235 2576	1158524 3928	283 56	CL
66-7890123456	233236 2576	1158525 3928	283 56	CL
67-8901234567	233237 2576	1158526 3928	283 56	CL
68-9012345678	233238 2576	1158527 3928	283 56	CL
69-0123456789	233239 2576	1158528 3928	283 56	CL
70-1234567890	233240 2576	1158529 3928	283 56	CL
71-2345678901	233241 2576	1158530 3928	283 56	CL
72-3456789012	233242 2576	1158531 3928	283 56	CL
73-4567890123	233243 2576	1158532 3928	283 56	CL
74-5678901234	233244 2576	1158533 3928	283 56	CL
75-6789012345	233245 2576	1158534 3928	283 56	CL
76-7890123456	233246 2576	1158535 3928	283 56	CL
77-8901234567	233247 2576	1158536 3928	283 56	CL
78-9012345678	233248 2576	1158537 3928	283 56	CL
79-0123456789	233249 2576	1158538 3928	283 56	CL
80-1234567890	233250 2576	1158539 3928	283 56	CL
81-2345678901	233251 2576	1158540 3928	283 56	CL
82-3456789012	233252 2576	1158541 3928	283 56	CL
83-4567890123	233253 2576	1158542 3928	283 56	CL
84-5678901234	233254 2576	1158543 3928	283 56	CL
85-6789012345	233255 2576	1158544 3928	283 56	CL
86-7890123456	233256 2576	1158545 3928	283 56	CL
87-8901234567	233257 2576	1158546 3928	283 56	CL
88-9012345678	233258 2576	1158547 3928	283 56	CL
89-0123456789	233259 2576	1158548 3928	283 56	CL
90-1234567890	233260 2576	1158549 3928	283 56	CL
91-2345678901	233261 2576	1158550 3928	283 56	CL
92-3456789012	233262 2576	1158551 3928	283 56	CL
93-4567890123	233263 2576	1158552 3928	283 56	CL
94-5678901234	233264 2576	1158553 3928	283 56	CL
95-6789012345	233265 2576	1158554 3928	283 56	CL
96-7890123456	233266 2576	1158555 3928	283 56	CL
97-8901234567	233267 2576	1158556 3928	283 56	CL
98-9012345678	233268 2576	1158557 3928	283 56	CL
99-0123456789	233269 2576	1158558 3928	283 56	CL
100-1234567890	233270 2576	1158559 3928	283 56	CL

Note: 5/8" REBAR - Standard = 5/8" Rebar without Cap
5/8" REBAR w/ 2" ALUM MON. - Standard = 5/8" Rebar with 2" Aluminum Cap stamped
GARNER CONTROL POINT, PA.
5/8" REBAR w/ 2" ALUM. - Standard = 5/8" Rebar with 2" Aluminum Cap stamped
ANTID. JOER. 080328B, PA. *

THE DISTANCES ARE SPECIFIED FOR THIS PROJECT. A PROJECT OF 0.99999999 HAS BEEN USED TO COMPUTE THE ABOVE GROUND COORDINATES. THIS DISTANCE IS ROUNDED TO 5 DIGITS IN THE PROJECT LIMITS. HORIZONTAL DATUM: NAD 83 (1997) ACCURACY THIRD ORDER, UNLESS SPECIFIED OTHERWISE AT A SPECIFIC POINT. BASED ON NGS PTS. E 291 & E 291

ARIZONA STATE PLANE GRID BEARINGS - 0301-NORTH ZONE
BASED ON CGCS 85

DETERMINED FROM GPS CONTROL POINT: 62
AHD JOB #080385
NORTHING 264087.0068 EASTING 1187664.3294
CONVERGENCE ANGLE 0.1433 LEFT
GRID AZIMUTH * ASTRONOMICAL AZIMUTH - CONVERGENCE ANGLE

NO.	DATE	DESCRIPTION	BY	CY
DATE	02/20/02	REVISIONS		
DESCRIPTION	DMT	DESCRIPTION		724

ALIGNMENT NAME: RAMP 1				ALIGNMENT NAME: CONWAY LOOP				ALIGNMENT NAME: LAMBERS LANDING			
POINT	STATION	TYPE	EASTING	POINT	STATION	TYPE	EASTING	POINT	STATION	TYPE	EASTING
8000	7420+39.59	PC	24644.64,8551	8028	24639.67,62	PCB	1190160,4358	8057	12+01.18	PCB	24684.44,303
8001	7421+33.81	PI	24644.64,8551	8029	13+42.70	POB	1190160,4358	8058	12+04.47	PCB	24684.44,303
8002	7422+28.87	PT	24646.98,930	8030	30+48.10	PC	24677.28,11	8059	12+04.18	PC	24677.28,11
8003	7423+98.00	PC	24646.98,930	8031	37+32.12	PI	24689.44,174	8060	19+07.36	PI	24675.52,10
8004	7424+42.70	PI	24646.98,930	8032	42+26.11	PT	24692.44,296	8061	23+32.37	PT	24692.44,296
8005	7424+74.48	PT	24647.20,14	8033	56+51.50	PC	25072.7,145	8062	28+77.74	PCB	24678.97,13
8006	7431+37.34	PC	24647.20,14	8034	60+4.55	PI	251103,198	8063			
8007	7432+52.11	PI	24647.20,14	8035	64+43.34	PT	251433,132	8064			
8008	7433+01.70	PT	24647.20,14	8036	69+09.78	PC	252733,228	8065			
8009	7434+1.21	POE	24689.13,97	8037	67+09.39	PT	253386,224	8066			
ALIGNMENT NAME: RAMP 2				8038	123+22.20	POE	253206,412	ALIGNMENT NAME: MOORE ACCESS ROAD			
POINT	STATION	TYPE	EASTING	POINT	STATION	TYPE	EASTING	POINT	STATION	TYPE	EASTING
8010	7431+46.55	PC	24650.17,38	8039	39+00.00	POB	246302,940	8067	14+07.55	PI	246182,154
8011	7434+50.79	PI	24646.98,930	8040	43+04.50	PC	246705,5975	8068	16+04.13	POE	246184,577
8012	7436+44.32	PT	24646.98,930	8041	45+32.34	PI	246964,6896	ALIGNMENT NAME: MOORE ACCESS ROAD			
8013	7440+03.58	PC	24646.98,930	8042	46+02.50	PT	251342,2963	8069			
8014	7441+30.81	PI	246755,1377	8043	50+00+00.00	PC	254723,8110	8070			
8015	7442+32.22	PT	247080,3117	ALIGNMENT NAME: RAMP 3				8071			
ALIGNMENT NAME: RAMP 4				POINT	STATION	TYPE	EASTING	8072			
POINT	STATION	TYPE	EASTING	POINT	STATION	TYPE	EASTING	8073			
8016	7441+34.94	POB	24644.1141	8044	738+00+00	PCB	253501,4834	8074			
8017	7444+97.20	PC	247255,0303	8045	740+42+28	PI	251455,7447	8075			
8018	7448+38.47	PI	247309,4108	8046	741+12+40	PC	250972,5736	8076			
8019	7451+33.15	PT	246239,4382	8047	7431+43+05	PT	246887,6203	8077			
8020	7458+35.34	PC	246239,4382	8048	7448+47.88	PC	246802,8071	8078			
8021	7457+30.59	PI	246185,9715	8049	7468+46+80	PI	246182,3833	8079			
8022	7459+15.82	PT	246801,7865	8050	7482+49.78	PC	245835,1591	8080			
ALIGNMENT NAME: RAMP 5				8051	7487+48.55	POE	241272,7059	8081			
POINT	STATION	TYPE	EASTING	POINT	STATION	TYPE	EASTING	8082			
8023	7440+32+10	PC	247852,6239	8052	20+00+00	POB	246857,7404	8083			
8024	7448+15.99	PI	247805,4637	8053	22+41+27	PC	246813,1891	8084			
8025	7449+43.32	PT	247490,4302	8054	25+42+27	PI	246118,7390	8085			
ALIGNMENT NAME: MERGED RAMP 5 & 4				8055	28+77.53	PT	246710,3350	8086			
POINT	STATION	TYPE	EASTING	POINT	STATION	TYPE	EASTING	8056	20+77.75	POE	246755,5133
8028	7449+43.32	PC	247455,2722	8057	29+00+00	PCB	246755,5133	8057	29+00+00	PCB	246755,5133
8029	7480+10+17	PI	247852,7955	8058	30+00+00	PC	247852,7955	8058	30+00+00	PC	247852,7955
8028	7480+23+33	PT	248286,4702	8059	31+00+00	PC	248286,4702	8059	31+00+00	PC	248286,4702

CONWAY SOUTH INTERCHANGE
- HWY. 365 (GR. & STRS.) (F)
ARKANSAS STATE HIGHWAY COMMISSION
RIGHT OF WAY MAP
JOB 080395 FAULKNER COUNTRY
SURVEY CONTROL SHEET
SHEET 2 OF 2

LOT SCHEDULE
JORDAN ESTATES SUBDIVISION

TRACT	LOT	SO. FT.	ACQ.	RESIDUAL
4	2	43,332	173	43,359
4	PART OF 3	35,020	22,637	14,393
4	PART OF 5	6,884	6,884	0
4	6	17,941	46,421	19,20
5	1	45,269	0	45,269
5	7	44,266	17,572	30,614

[illegible][illegible]

CONWAY SOUTH INTERCHANGE
- HWY. 365 (GR. & STRS.) (F)
ARKANSAS STATE HIGHWAY COMMISSION
RIGHT OF WAY MAP
JOB 080395 FAULKNER COUNTY

SHEET 4 OF 11

Name	Radius	Length	Chord	Chord Direction
C26	31.60'	74.91'	58.56'	S 47°10'10" E



C.L. 1-40
 P.I. = 2418+12.40
 D = 0.1500° LT.
 L.C. = 1365+02'
 L.C. = 2765+47'
 P.T. = 2731+94.05
 R = 22918.31'

LAKE CONWAY

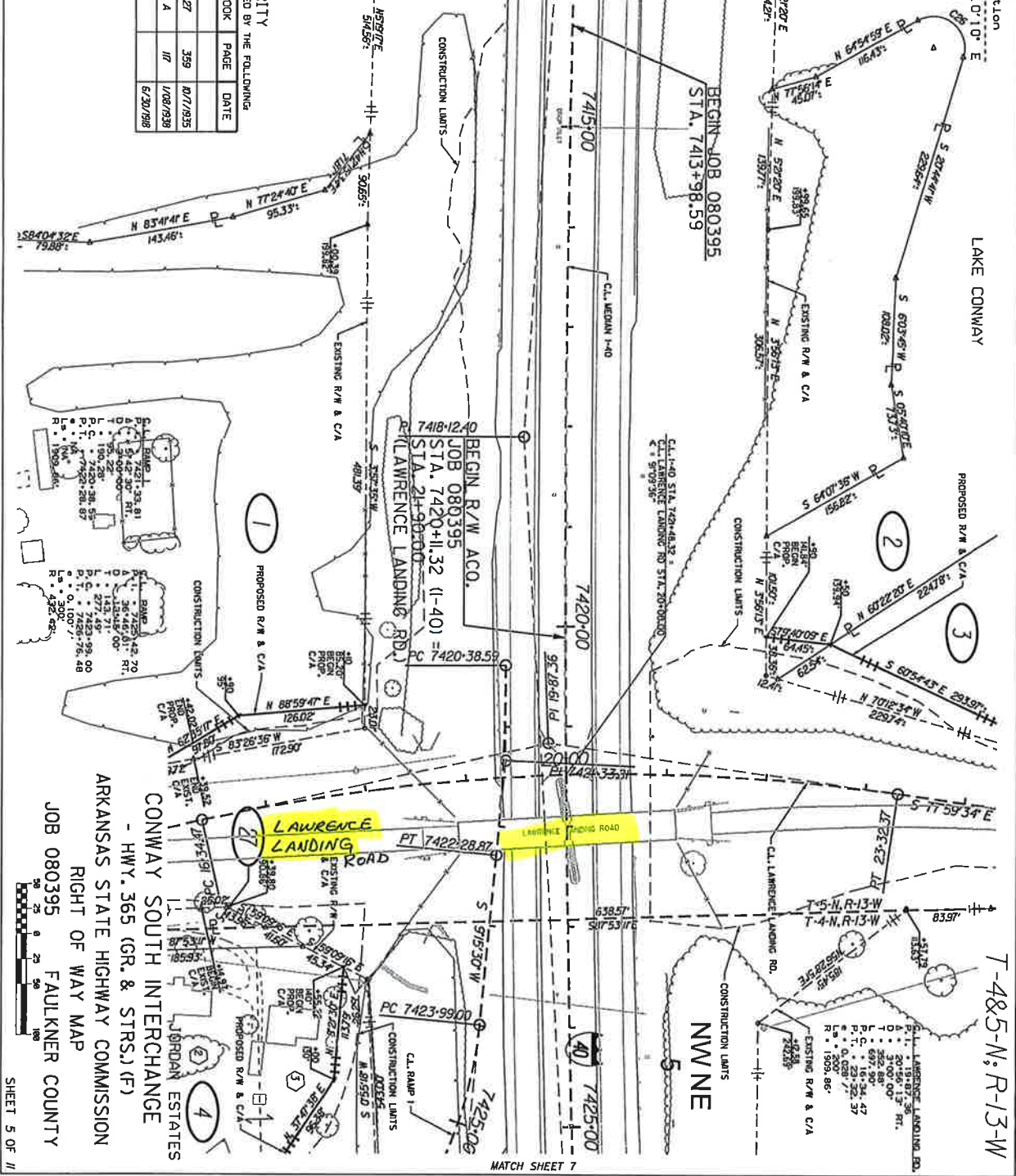
SWSE
 32
 BEGIN JOB 080395
 STA. 7413+98.59

EXISTING RIGHT OF WAY AUTHORITY

THE EXISTING R/W SHOWN IS WITHIN THE LIMITS OF THE R/W COVERED BY THE FOLLOWING

JOB NO.	HWY.	RIGHT OF WAY PLANS AND DEEDS	AUTHORITY	BOOK	PAGE	DATE
887 SECTION 2	I-40	RIGHT OF WAY PLANS AND DEEDS				
6201	365	COURT ORDER		27	359	07/7/935
STURDS RD.		GOLD-CREEK SUBDIVISION		A	III	1/08/938
RAILROAD		RIGHT OF WAY MAP				6/30/98

NO.	DATE	DESCRIPTION	BY	CHK
1	02/2002	REVISIONS		
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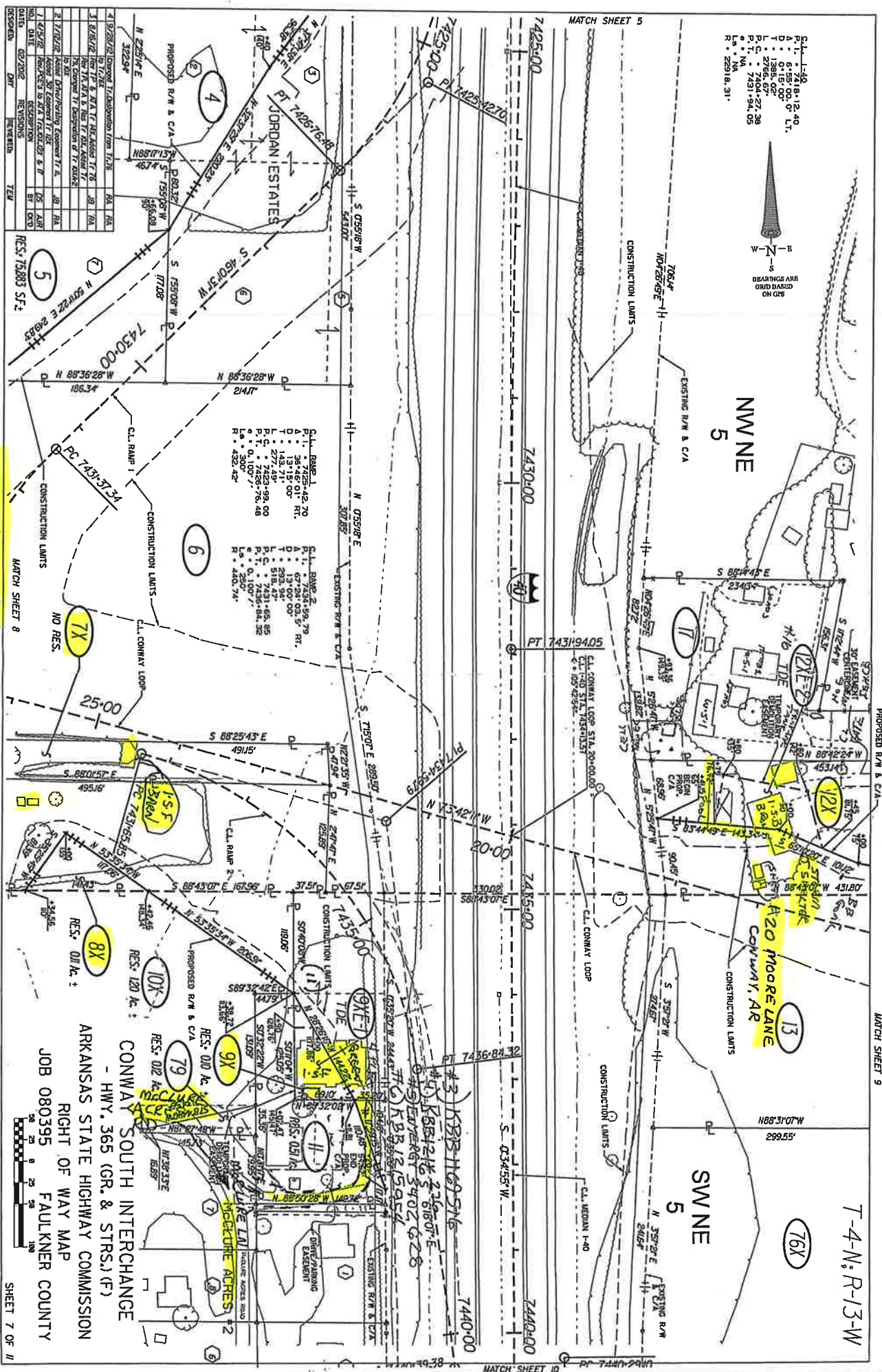


ARKANSAS STATE HIGHWAY COMMISSION
 CONWAY SOUTH INTERCHANGE
 - HWY. 365 (GR. & STRS.) (F)
 RIGHT OF WAY MAP
 JOB 080395 FAULKNER COUNTY
 SHEET 5 OF 11

MATCH SHEET 7

[illegible]

ARKANSAS STATE HIGHWAY COMMISSION
RIGHT OF WAY MAP
JOB 080395 FAULKNER COUNTY
SHEET 6 OF 11



C.I. MEDGED PAMPS 3
 P.I. = 7460.10.17
 A. = 132.48.11.0° LT
 D. = 12.31.51.2
 T. = 1046.65.
 L. = 1059.81.
 P.C. = 7449.63.52
 P.T. = 7460.23.33
 e. = 0.100°.
 Ls. = 300°
 R. = 457.24°



CONWAY SOUTH INTERCHANGE
- HWY. 365 (GR. & STRS.) (F)
ARKANSAS STATE HIGHWAY COMMISSION
RIGHT OF WAY MAP
JOB 080395 - FAULKNER COUNTY

PROPERTY MANAGEMENT
ASBESTOS ABATEMENT & DEMOLITION BIDS

Job 080395
Conway South Interchange
Hwy. 365 (Gr. & Strs.)
Route I-40 Section 32
Faulkner County
Tracts 7X, 8X, 9X, 10X, 12X, 14X, 22X,
23X, 25X, 28X, 29, 30X, 33X, 34X, 76X

Proposed Bid List

Tract 7 X , 295 Hwy. 365, Conway, AR 72032

Abate Approximately:

	<u>Unit Price</u>	<u>Extended Price</u>
442.75 SF Ceiling Textured Sheet Rock in Room (1, 4, 7, 8)	\$ _____ /SF	\$ _____
Total Abatement		\$ _____

Demolition:

1,075 SF 1-S-Rock & Frame Dwelling	\$ _____ /SF	\$ _____
Remove Septic System	\$ _____ /EA	\$ _____
200 SF Shed	\$ _____ /SF	\$ _____
180 SF Shed	\$ _____ /SF	\$ _____
540 SF Barn	\$ _____ /SF	\$ _____
All Asphalt Paving from Ditch line Back 200 SF	\$ _____ /SF	\$ _____
660 LF of 4' Chain Link Fence	\$ _____ /LF	\$ _____
(2) T - Post	\$ _____ /EA	\$ _____
Picnic Table	\$ _____ /EA	\$ _____
Total Demolition		\$ _____
Total Abatement & Demolition Tract 7 X		\$ _____

Tract 8 X, 297 Hwy. 365, Conway, AR

NO ABATEMENT NECESSARY

Demolition:

	<u>Unit Price</u>	<u>Extended Price</u>
1,882 SF 1-S-B Dwelling	\$ _____ /SF	\$ _____
Remove Septic System	\$ _____ /EA	\$ _____
100 SF Shed	\$ _____ /SF	\$ _____
96 SF Shed	\$ _____ /SF	\$ _____
Total Abatement & Demolition Tract 8 X		\$ _____

Tract 9 X, #11 McClure Acres Road (Lane), Conway, AR

NO ABATEMENT NECESSARY

Demolition:

3,003 SF 1-S-Frame 4-Plex Dwelling	\$ _____ /SF	\$ _____
Septic System	\$ _____ /EA	\$ _____
Satellite Dish	\$ _____ /EA	\$ _____
800 SF Concrete Paving	\$ _____ /SF	\$ _____
Total Demolition Tract 9 X		\$ _____

Tract 10 X, 301 Hwy. 365, Conway, AR

Abate Approximately:

All Ceiling Sheet Rock, at 1,257 SF

All Wall Sheet Rock at 3,182 SF

625 SF of Floor Tiles & Mastic in (2, 5, 6, 9)

500 SF Dumpsite

Total Abatement

<u>Unit Price</u>	<u>Extended Price</u>
\$ /SF	\$
\$ /SF	\$
\$ /SF	\$
\$ /SF	\$
\$	\$

Demolition:

1,296 SF 1-S Frame Dwelling

Remove Septic System

Approximately 17,000 SF Concrete

Total Demolition

Total Abatement and Demolition Tract 10 X

\$ /SF	\$
\$ /EA	\$
\$ /SF	\$
\$	\$
\$	\$

Tract 12 X, 20 Moore Lane, Conway, AR

Abate Approximately:

1,547 SF All Ceiling Sheet Rock

4,136 SF Sheet Rock Walls

192 SF Floor Material & Mastic

Total Abatement

Demolition:

1,547 SF 1-S-Brick Dwelling

Remove Septic System

64 SF Shed

140 SF Shed

480 SF Canopy

143 SF Storm Shelter

125 LF Wood Privacy Fence

Total Demolition

Total Abatement & Demolition Tract 12 X

<u>Unit Price</u>	<u>Extended Price</u>
\$ /SF	\$
\$ /SF	\$
\$ /SF	\$
\$	\$
\$	\$
\$ /SF	\$
\$ /EA	\$
\$ /SF	\$
\$ /SF	\$
\$ /SF	\$
\$ /SF	\$
\$ /LF	\$
\$	\$

Tract 14 X, 28 Moore Lane, Conway, AR

No Abatement Necessary:

Demolition:

1,280 SF Mobile Home

Remove Septic System

Satellite Dish

Total Demolition Tract 14 X

<u>Unit Price</u>	<u>Extended Price</u>
\$ /SF	\$
\$ /EA	\$
\$ /EA	\$
\$	\$

Tract 22 X, 27 Moore Lane, Conway, AR

No Abatement Necessary:

Demolition:

(8) 2X30 or 480 SF Mobile Home Foundation, French Drain

Remove Septic System

Total Demolition Tract 22 X

Unit Price

Extended Price

\$	/SF	\$
\$	/EA	\$
		\$

Tract 23 X, 34 Moore Lane, Conway, AR

No Abatement Necessary:

Demolition:

(8) 2X30 or 480 SF Mobile Home Foundation

Remove Septic System

600 SF Shed

Total Demolition Tract 23 X

Unit Price

Extended Price

\$	/SF	\$
\$	/EA	\$
\$	/SF	\$
		\$

Tract 25 X, 34 A Moore Lane, Conway, AR

Abate Approximately:

1,048 SF Roofing Material

Total Abatement Tr. 25 X

Demolition:

1, 048 SF Mobile Home Foundation

Remove Septic System

396 SF Shed

Total Demolition

Total Abatement & Demolition Tract 25 X

Unit Price

Extended Price

\$	/SF	\$
		\$
\$	/SF	\$
\$	/EA	\$
\$	/SF	\$
		\$
		\$

Tract 28 X, 3 McClure Drive, Conway, AR

No Abatement Necessary:

Demolition:

(4) 140 = 560 SF Mobile Home Pads

Wooden Steps, Concrete Block Debris (140 SF)

240 LF 4' Chain Link Fence

Remove Septic System

Total Demolition Tract 28 X

Unit Price

Extended Price

\$	/SF	\$
\$	/SF	\$
\$	/LF	\$
\$	/EA	\$
		\$

Tract 29 X, 305 Hwy. 365, Conway, AR

Abate Approximately:

All Ceiling Sheet Rock 1,396 SF

Total Abatement

Demolition:

1,520 SF 1-S-F Dwelling

Remove Septic System

(2) Concrete Block Burn Pits

100 LF of Wood Privacy Fence

Total Demolition

Total Abatement & Demolition Tract 29 X

Unit Price

Extended Price

\$	/SF	\$
		\$
\$	/SF	\$
\$	/EA	\$
\$	/EA	\$
	/LF	
		\$
		\$

Tract 30 X, 307 Hwy. 365, Conway, AR

No Abatement Necessary:

Demolition:

2,665 SF 1-S-B Dwelling

Remove Septic System

Total Demolition Tract 30 X

<u>Unit Price</u>	<u>Extended Price</u>
\$ _____ /SF	\$ _____
\$ _____ /EA	\$ _____
	\$ _____

Tract 33 X, 369 Sturgis Road, Conway, AR

Abate Approximately:

90 SF of Floor Material in Bathrooms

Total Abatement

Demolition:

1,952 SF 1-S-Brick & Frame Dwelling

100 SF Shed

Remove Septic System

Total Demolition

Total Abatement & Demolition Tract 33 X

<u>Unit Price</u>	<u>Extended Price</u>
\$ _____ /SF	\$ _____
	\$ _____
\$ _____ /SF	\$ _____
\$ _____ /EA	\$ _____
	\$ _____
	\$ _____
	\$ _____

Tract 34 X, 367 Sturgis Road, Conway, AR

Abate Approximately:

174 SF Floor Material in Kitchen & Laundry Room

Total Abatement

Demolition:

1,112 SF 1-S-Brick & Frame Dwelling

Remove Septic System

200 LF Chain Link Fence

Total Demolition

Total Abatement & Demolition Tract 34 X

<u>Unit Price</u>	<u>Extended Price</u>
\$ _____ /SF	\$ _____
	\$ _____
\$ _____ /SF	\$ _____
\$ _____ /EA	\$ _____
\$ _____ /LF	\$ _____
	\$ _____
	\$ _____

Tract 76 X, 30 Moore Lane, Conway, AR

No Abatement Necessary:

Demolition:

720 SF 1-S-Metal Building

Remove Septic System

275 LF Private Water Line

32 SF Concrete Slab

Total Demolition Tract 76 X

<u>Unit Price</u>	<u>Extended Price</u>
\$ _____ /SF	\$ _____
\$ _____ /EA	\$ _____
\$ _____ /LF	\$ _____
\$ _____ /SF	\$ _____
	\$ _____

Total Lump Sum Price of Abatement & Demolition

\$ _____

Note 1: Read “Demolition” and “Job Requirements” for extent of Demolition Bid.

Note 2: This document is to be returned with bid and becomes part of the contract.

DEMOLITION: For contract bidding purposes, demolition per square foot includes removal of any and all improvements within the acquired proposed right of way. All structures must be completely removed, including slabs, footings, foundations, basements, posts, poles, decks, interior fences and all debris. Leave site in a safe and level condition.

Disclaimer:

Samples were collected from materials identified as Homogeneous Materials based upon visual inspection of the site. AHTD is not responsible for assumptions on homogeneity which prove to be incorrect. In addition, samples collected represent only that portion of the entire homogeneous material. AHTD is not responsible for materials not identified and sampled due to the restraints on accessibility of the material due to the type of construction and finish materials of the building. This report refers to the Site and Facility as it appeared on the day of the inspection. No warranties, expressed or implied, relate to the previous and or future conditions at the Site.

Analysis was performed by Crisp Analytical Laboratories, L.L.C., Carrollton, TX. Crisp Analytical Laboratories, L.L.C. is solely responsible for all analytical results contained in and referred to in this report.

Job 080395
Conway South Interchange
Hwy. 365 (Gr. & Strs.)
Route I-40 Section 32
Faulkner County
Tracts 7X, 8X, 9X, 10X, 12X, 14X, 22X,
23X, 25X, 28X, 29, 30X, 33X, 34X, 76X

Bid Requirements

Bid price shall include all insurance, taxes, permits, ADEQ notifications, license, labor, equipment, and material necessary to complete the work. Actual quantity of material to be removed may differ slightly from the estimated amount shown above. Bid price shall reflect actual quantity of material to be removed and bidders are strongly encouraged to inspect the premises prior to bidding to verify the quantity. All asbestos abatement/demolition work must be done according to the method and requirements contained in the “SPECIAL PROVISIONS” and work list which will be attached and made a part of the bid and contract.

Contractor shall comply with all state, local and federal laws associated with this work. All structures must be completely removed, including slabs, footings, foundations, private walkways, decks, basements, posts, poles, fences within Proposed Right of Way along with all debris. Determination of the extent of work necessary for complete removal of the structures is strictly the responsibility of the bidder. Basements (pits, pools, storm shelters) **(if applicable)** will be removed, backfilled with suitable material and left level with the surrounding area. Septic tanks (in or out of the right of way, **(if applicable)**, will be pumped empty, removed, and backfilled void with suitable material and left level with the surrounding area. Water wells **(if applicable)** shall have equipment removed and casing securely covered for safety. Contractor will be required to comply with the provisions of “Appendix A” (Required Contract Provisions Federal-Aid Construction Contracts) that will be attached and made a part of the bid and contract.

It is understood that all combustible materials, construction material and all other rubbish, including shrubbery and trees which are cut or uprooted to facilitate operations, will be cleared from the premises by the contractor and **the premises will be left in a generally level, safe, and sanitary condition, a condition in which it can be mowed and maintained safely.** The contractor shall endeavor to avoid unnecessary damage or destruction of trees, shrubs, and plants on the premises.

NOTE: CONTRACTOR MUST FILE TEN (10) DAY NOTICE WITH ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY (ADEQ); HOWEVER, BIDS SHOULD INCLUDE REGISTRATION FEE ON EACH PROJECT. Dumping of demolition waste materials shall be at a landfill permitted by the Arkansas Department of Environmental Quality (ADEQ) or at an un-permitted site approved by ADEQ. Contractor must call ONE CALL for location of other utilities at this job site.

In the event that utility service lines, meters, etc., are disconnected, destroyed or otherwise impaired in any way by reason of performance of this operation by the contractor, the contractor shall, at his own expense, be responsible for all replacement utility service in lieu of those affected. **Contractor must call ONE CALL for location of other utilities at this job site**

Contractor shall be required to hold a current license issued by the Arkansas Department of Environmental Quality for the removal of asbestos. For demolition, State law requires a contractor’s license for jobs over \$20,000.00. Changes in the scope of work must have prior approval by the Departments Property Manager in order to be eligible for payment.

**NOTICE TO CONTRACTORS
COMPLIANCE WITH TITLE VI OF THE CIVIL RIGHTS ACT OF 1964
FOR
FEDERAL AID CONTRACTS
APPENDIX "A"**

During the performance of this contract, the contractor, for itself, its assignees and successors in interest (hereinafter referred to as the "contractor") agrees as follows:

(1) Compliance with Regulations: The contractor shall comply with the Regulations relative to nondiscrimination in Federally-assisted programs of the Department of Transportation, Title 49, Code of Federal Regulations, Part 21, as they may be amended from time to time, (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this contract.

(2) Nondiscrimination: The Contractor, with regard to the work performed by it during the contract, shall not discriminate on the grounds of race, color or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor shall not participate either directly or indirectly in the discrimination prohibited by section 21.5 of the Regulations, including employment practices when the contract covers a program set forth in Appendix B of the Regulations.

(3) Solicitations for Subcontracts, Including Procurements of Materials and Equipment: In all solicitations either by competitive bidding or negotiation made by the contractor or work to be performed under a subcontract, including procurements of materials or leases of equipment, each potential subcontractor or supplier shall be notified by the contractor of the contractor's obligations under this contract and the Regulations relative to nondiscrimination on the grounds of race, color, or national origin.

(4) Information and Reports: The contractor shall provide all information and reports required by the Regulations, or directives issued pursuant thereto, and shall permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Arkansas State Highway & Transportation Department or the Federal Highway Administration to be pertinent to ascertain compliance with such Regulations or directives. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish this information, the contractor shall so certify to the Arkansas State Highway & Transportation Department, or the Federal Highway Administration as appropriate, and shall set forth what efforts it has made to obtain the information.

(5) Sanctions for Noncompliance: In the event of the contractor's non-compliance with the nondiscrimination provisions of this contract, the Arkansas State Highway & Transportation Department shall impose such contract sanctions as it or the Federal Highway Administration may determine to be appropriate, including, but not limited to:

(a) Withholding of payments to the contractor under the contract until the contractor complies, and/or

(b) Cancellation, termination or suspension of the contract, in whole or in part.

(6) Incorporation of Provisions: The contractor shall include the provisions of paragraphs (1) through (6) in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Regulations, or directives issued pursuant thereto. The contractor shall take such action with respect to any subcontract or procurement as the Arkansas State Highway & Transportation Department or the Federal Highway Administration may direct as a means of enforcing such provisions including sanctions for non-compliance: Provided, however, that, in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or supplier as a result of such direction, the contractor may request the Arkansas State Highway & Transportation Department to enter into such litigation to protect the interests of the State, and, litigation to protect the interests of the United States.

**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
SPECIAL PROVISION**

**REMOVAL OF SHEET ROCK, WHICH CONTAINS ASBESTOS
FROM BUILDINGS TO BE DEMOLISHED**

GENERAL

The material which contains asbestos (ACM) has been identified in this building. This building must be demolished as part of the right-of-way clearing for the construction of the above-captioned job. Prior to demolition of these buildings, the ACM must be removed and disposed of in compliance with this special provision and the asbestos regulations promulgated by Arkansas Department of Environmental Quality (ADEQ) and the Environmental Protection Agency.

DESCRIPTION OF WORK:

All work performed under this special provision shall be in compliance with the Arkansas Asbestos Abatement Regulations promulgated by the Arkansas Department of Environmental Quality (ADEQ), as adopted pursuant to Part Two of the Arkansas Water and Air Pollution Act. (Date of Regulations: November 29, 1990)

Except as specified in this special provision, the contractor shall comply with all notification, record keeping, work procedure, containerization, storage, transportation, disposal and licensing requirements of the Arkansas Asbestos Abatement Regulations for the removal of ACM and applicable OSHA worker protection requirements (29 CFR, 1910 - Respiratory protection). Disposal and record keeping requirements of NESHAP - National Emission Standards for Hazardous Air Pollutants (40 CFR 61 Subpart M) shall also be incorporated into the project's work procedures and designated in the work plan of the asbestos abatement contractor.

The general work procedure shall include the removal of the ACM and any associated from the designated area in the identified buildings. Estimated quantities of material to be removed and disposed of are provided in the contract. The removal of the ACM must be conducted in a containment area, which includes polyethylene containment barrier walls. This containment area must also include the use of a negative air filtration system (HEPA filters) to create negative pressure as required by ADEQ regulations. The material shall be removed as required by ADEQ regulations with containerization, storage, transportation and disposal of the ACM accomplished according to ADEQ Asbestos regulations. Wet cleaning and HEPA filter vacuuming shall be repeated until no visible residuals are observed in the work area or until any remaining can be safely encapsulated. All records of the work performed and the disposal at an approved landfill (including the disposal receipt) shall be provided to the Arkansas Highway and Transportation Department within three working days of the completion of the contracted work.

All work shall be performed by a licensed asbestos contractor and by trained asbestos abatement workers as required by ADEQ. All appropriate worker protection rules for this removal of asbestos containing materials shall apply as per OSHA and ADEQ regulations.

A work plan and worker protection plan shall be provided to AHTD prior to the commencement of work for review and approval.

**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
SPECIAL PROVISION**

**REMOVAL OF FLOORING WHICH CONTAINS ASBESTOS
FROM BUILDINGS TO BE DEMOLISHED**

GENERAL

Floor covering which contains asbestos (ACM) has been identified in buildings to be demolished as part of the right-of-way clearing for the construction of the above captioned job. Prior to demolition of these buildings, the ACM must be removed and disposed of in compliance with this special provision and the asbestos regulations promulgated by Arkansas Department of Environmental Quality (ADEQ) and the Environmental Protection Agency.

DESCRIPTION OF WORK:

All work performed under this special provision shall be in compliance with the Arkansas Asbestos Abatement Regulations promulgated by the Arkansas Department of Environmental Quality (ADEQ), as adopted pursuant to Part Two of the Arkansas Water and Air Pollution Act. (Date of Regulations: November 29, 1990)

Except as specified in this special provision, the contractor shall comply with all notification, record keeping, work procedure, containerization, storage, transportation, disposal and licensing requirements of the Arkansas Asbestos Abatement Regulations for the removal of ACM and applicable OSHA worker protection requirements (29 CFR, 1910 - Respiratory protection). Disposal and record keeping requirements of National Emission Standards for Hazardous Air Pollutants (NESHAP) (40 CFR 61 Subpart M) shall also be incorporated into the project's work procedures and designated in the work plan of the asbestos abatement contractor.

The general work procedure shall include the removal of the ACM and any associated mastic material from the designated area in the identified buildings. Estimated quantities of material to be removed and disposed of are provided in the contract. The removal of the ACM flooring must be conducted in a containment area, which includes polyethylene containment barrier walls. This containment area must also include the use of a negative air filtration system (HEPA filters) to create negative pressure as required by ADEQ regulations. The material shall be removed as required by ADEQ regulations with containerization, storage, transportation and disposal of the ACM accomplished according to ADEQ Asbestos regulations. Wet cleaning and HEPA filter vacuuming shall be repeated until no visible residuals are observed in the work area or until any remaining mastic can be safely encapsulated. All records of the work performed and the disposal at an approved landfill (including the disposal receipt) shall be provided to the Arkansas Highway and Transportation Department within three working days of the completion of the contracted work.

All work shall be performed by a licensed asbestos contractor and by trained asbestos abatement workers as required by ADEQ. All appropriate worker protection rules for this removal of asbestos containing flooring shall apply as per OSHA and ADEQ regulations.

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

SPECIAL PROVISION

REMOVAL OF FLOOR COVERING MASTIC WHICH CONTAINS ASBESTOS FROM BUILDINGS TO BE DEMOLISHED

GENERAL:

Floor covering mastic which contains asbestos has been identified in a building to be demolished as part of the right-of-way clearing for the construction of the above captioned job. Prior to demolition of this building, the floor covering and associated mastic which contains asbestos must be removed and disposed of in compliance with this special provision and the asbestos regulations promulgated by Arkansas Department of Environmental Quality(ADEQ).

DESCRIPTION OF WORK:

All work performed under this special provision shall be in compliance with the Arkansas Asbestos Abatement Regulations promulgated by the Arkansas Department of Environmental Quality, as adopted pursuant to Part Two of the Arkansas Water and Air Pollution Act. (Date of Regulations: November 29, 1990)

Except as specified in this special provision, the contractor shall comply with all notification, record keeping, work procedure, containerization, storage, transportation, disposal and licensing requirements of the Arkansas Asbestos Abatement Regulations 21 for the removal of floor covering which contains asbestos and applicable OSHA worker protection requirements (29 CFR, 1910 - Respiratory protection). Disposal and record keeping requirements of NESHAP - National Emission Standards for Hazardous Air Pollutants (40 CFR 61 Subpart M) shall also be incorporated into the project's work procedures and designated in the work plan of the asbestos abatement contractor.

The general work procedure shall include the removal of the floor covering and all associated mastic material from the designated area in the identified building. The removal of the ACM mastic and flooring must be conducted in a containment area, which includes polyethylene containment barrier walls. This containment area must also include the use of a negative air filtration system (HEPA filters) to create negative pressure as required by ADEQ regulations. The material shall be removed as required by ADEQ regulations with containerization, storage, transportation and disposal of the ACM accomplished according to ADEQ Asbestos Regulations 21. Wet cleaning and HEPA vacuuming shall be repeated until no visible residuals are observed in the work area or until any remaining mastic can be safely encapsulated. All records of the work performed and the disposal at an approved landfill (including the disposal receipt) shall be provided to the Arkansas Highway and Transportation Department within two working days of the completion of the contracted work.

All work shall be performed by a licensed asbestos contractor and by trained asbestos abatement workers as required by ADEQ. All appropriate worker protection rules for this removal of asbestos containing flooring shall apply as per OSHA and ADEQ Regulations 21.

**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
SPECIAL PROVISION**

**REMOVAL OF HARD ASBESTOS-CONTAINING BUILDING MATERIAL
IN EXTERIOR SETTING**

General:

Siding which contains hard asbestos has been identified on the exterior of a building scheduled for demolition as part of the above referenced job. Prior to demolition of this building, the asbestos-containing building material (ACBM) must be removed and disposed of in compliance with all the Arkansas Department of Environmental Quality (ADEQ) and the Environmental Protection Agency asbestos regulations and these specifications.

Description of Work:

All work performed under this contract shall be in compliance with the Arkansas Asbestos Abatement Regulations promulgated by the Arkansas Department of Environmental Quality's adopted pursuant to Part Two of the Arkansas Water and Air Pollution Act. (Date of Regulations: November 29, 1990)

In addition, the contractor shall comply with all notification, record keeping, work procedure, containerization, storage, transportation, disposal and licensing requirements of the Arkansas Asbestos Abatement Regulations for the removal of hard ACBM in an outdoor setting and applicable OSHA worker protection requirements (29, 1910 - Respiratory Protection). Disposal and record keeping requirements of NESHAP -National Emission Standards for Hazardous Air Pollutants (40 CFR 61 Subpart M) shall also be incorporated into the work plan of the asbestos abatement contractor.

The general work procedure shall include the removal of the ACBM with minimal breakage, sanding or sawing. Wetting procedures shall be utilized as warranted by ADPC&E regulations. ACBM shall be placed in sealable metal drums with proper labeling then stored, transported and disposed of in accordance with ADEQ Asbestos Regulations (November, 1990). All records of the work performed and the disposal at an approved landfill (including the disposal receipt) shall be provided to the Arkansas Highway and Transportation Department within three working days of the completion of contracted work.

All work shall be performed by a licensed asbestos contractor and by trained asbestos abatement workers as required by ADEQ. All appropriate worker protection rules for this outdoor removal activity shall apply as per OSHA and ADEQ regulations.



Arkansas Central Office

#9 Remington Cove
Little Rock, Arkansas 72204
(501) 562-3818
Fax (501) 562-5701
E-mail: TBlaylock@epaonline.biz

May 29, 2013

Arkansas State Highway & Transportation Department
P.O. Box 2261 Room 705
Little Rock, AR 72203

RE: Asbestos Surveys multiple Tracts
Job 080395 - Conway South Interchange
Highway 68 (Gr. & Strs.)
Route I-40 Section 32 -Faulkner County

Mr. Joel Clark:

On May 21, 2013 to May 23, 2013, I conducted asbestos surveys at multiple tracts to determine if asbestos was present.

Laboratory analysis has determined the following Tracts **do not** contain asbestos.

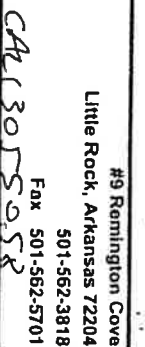
Tract 8X – Residential Structure and Barn – 297 Hwy. 365
Tract 9X – Apartment Structure – 3, 4, 5 & 6 McClure Drive
Tract 14X – Residential Structure – 28 Moore Lane
Tract 23X – Demolished Storage Building – 34 Moore Lane
34 Moore Lane House Trailer not sampled, owner is moving it.
Tract 30X – Residential Structure – 307 Hwy. 365
Tract 76X – Metal Building – 30 Moore Lane

I have attached my chain of custody and laboratory findings. Please contact me with any questions you may have.

Sincerely,

Gary Nooner
Inspector
License No. 005065

Enclosures



#9 Remington Cove
Little Rock, Arkansas 72204
501-562-3818
Fax 501-562-5701
CA13055058

Normal (2 days)

[illegible]

HA - Homogeneous Area A - Analyze C - Catalogue ♦ - Analyze only if the previous sample was found to be negative.

Qns: S-surfacing, T-thermal, M-miscellaneous. **F**iability: F-fiable, NF-non-fiable. **C**ondition: G-good, D-damaged, SD-severely damaged. **P**OT, **D**AM (Potential Damage): L-low, M-moderate, H-high

Relinquished By <u>David Wilson</u>	Time <u>1:50</u>	Date <u>5/25/13</u>
Relinquished By	Time	Date

Received By		Time	Date	Received By	Time	Date
	D. J.			[Signature]	10:30 AM	7/94

Comments: **Composite Sample all positive Sheetrock and Joint Compound Samples**



Environmental
Protection
Associates

Arkansas Central Office

#9 Remington Cove
Little Rock, Arkansas 72204
(501) 562-3818
Fax (501) 562-5701
E-mail: TBlaylock@epaonline.biz

May 29, 2013

Arkansas State Highway & Transportation Department
P.O. Box 2261 Room 705
Little Rock, AR 72203

RE: Asbestos Survey **Tract 7X**
Job 080395 - Conway South Interchange
Highway 68 (Gr. & Strs.)
Route I-40 Section 32 - Faulkner County

Mr. Joel Clark:

On May 23, 2013, I conducted an asbestos survey at the above referenced location. Laboratory analysis has determined that the following samples do contain asbestos.

Sample # 7X-01 – Ceiling Texture

Sample # 7X-08 – Sheetrock and Joint Compound

I had the laboratory perform composite sampling on the sheetrock and joint compound. This additional sampling has determined that the Sheetrock and joint compound contains less than 1% of Chrysotile Asbestos.

Federal and state regulations with the exception of OSHA, determine a material to be asbestos containing if it contains 1% or more asbestos. OSHA states that any amount is an asbestos containing material.

Therefore ceiling must be removed by a licensed asbestos contractor prior to demolition of the structure. However the sheetrock and Joint Compound may now be considered a Non-Asbestos containing material and left in place for demolition. The demolition contractor will be required to follow the OSHA regulations concerning asbestos.

I have attached my chain of custody and laboratory findings. Please contact me with any questions you may have.

Sincerely,

Gary Nooner
Inspector -License No. 005065



State of Arkansas
Department of
Environmental Quality



005065 GARY NOONER

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

Air Monitor 1/31/2014

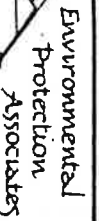
Project Designer 1/31/2014

Contractor/Supervisor 1/31/2014

Inspector 12/31/2013

Issue Date: 04-Mar-2013


ADEQ Director



Field Data Sheet

#9 Remington Cove

Gary Nooner

Traci 7X

5/23/2013

Normal (2 days)

[illegible]

HA - Homogeneous Area
A - Analyze
C - Catalogue
♦ - Analyze only if the previous sample was found to be negative.

Class: S-surfacing, T-thermal, M-miscellaneous, Friability: F-friable, NE-non-friable, **Condition:** G-good, D-damaged, SD-severely damaged, **POT. DAM (Potential Damage):** L-low, M-moderate, H-high

Male

2/24/13

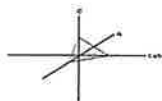
Composite Sample all positive Sheetrock and Joint Compound Samples

CA Labs

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Crisp Analytical, L.L.C.

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**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

Environmental Protection Associates

#9 Remington Cove
Little Rock, AR 72204

Customer Project: Tract 7X-Residential Structure & 2 Storage Bldg's
Reference #: CAL13055053NT Date: 5/29/2013

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 performed. Calibrated liquid refractive oils are used as liquid mounting 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 conjunction 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 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 by 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 detectable 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). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. 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 of 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. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

CA Labs

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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:		Tract 7X-Residential Structure & 2 Storage Bldg's		CA Labs Project #:	CAL13055053NT
Sample #	Layer #	Analysts	Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
7X-01	1-1		Ceiling Texture/ white textured surfacing	4% Chrysotile	white textured surfacing green surfaced tan compound composite of layer 1 and 2
			Sheetrock and Joint Compound/ green surfaced tan compound		
7X-08	8-1			2% Chrysotile	
	8-3		composite of layer 1 and 2	<1% Chrysotile	

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

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 - wollastonite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)

pa - palygorskite (clay)

This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.

CA LabsDedicated 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**Polarized Light Asbestiform Materials Characterization**

Customer Info: Attn:

Environmental Protection Associates#9 Remington Cove
Little Rock, AR 72204

Phone # 501-562-3818

Fax # 501-562-5701

Customer Project:

Tract 7X-Residential Structure
& 2 Storage Bldg's
Turnaround Time:
2 Day

CA Labs Project #:

CAL13055053NT

Date: 5/29/2013

Samples Received: 5/28/13 10:30am

Date Of Sampling: 5/23/2013

Purchase Order #:

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
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7X-01		1-1	Ceiling Texture/ white textured surfacing	y	4% Chrysotile		96% qu,ve,bi,ca
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7X-02		2-1	Ceiling Texture/ white textured surfacing		Positive Stop		
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7X-03		3-1	Ceiling Texture/ white textured surfacing		Positive Stop		
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7X-04		4-1	Ceiling Tile 12"x12"/ white surfacing	y	None Detected		100% qu,bi
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		4-2	tan fibrous ceiling tile	y	None Detected	100% ce	
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7X-05		5-1	Ceiling Tile 12"x12"/ white surfacing	y	None Detected		100% qu,bi
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		5-2	tan fibrous ceiling tile	y	None Detected	100% ce	
--	--	-----	--------------------------	---	----------------------	---------	--

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

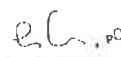
Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)

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 - perillite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Tanner Rasmussen
AnalystQAC
Leslie Crisp, P.G.Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages affecting 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

CA LabsDedicated to
Quality**Crisp Analytical, L.L.C.**1929 Old Denton Road
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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:**
Environmental Protection Associates
#9 Remington Cove
Little Rock, AR 72204

Phone # 501-562-3818

Fax # 501-562-5701

Customer Project:Tract 7X-Residential Structure
& 2 Storage Bldg's
Turnaround Time:
2 Day**CA Labs Project #:**

CAL13055053NT

Date: 5/29/2013**Samples Received:** 5/28/13 10:30am**Date Of Sampling:** 5/23/2013**Purchase Order #:**

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
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7X-06	6-1		Ceiling Tile 12"x12"/ white surfacing	y	None Detected		100% qu,bi
	6-2		tan fibrous ceiling tile	y	None Detected	100% ce	
7X-07	7-1		Sheetrock and Joint Compound/ white surfaced white compound	n	None Detected		100% mi,bi,ca
	7-2		white compound (beneath tape)	y	None Detected		100% mi,ca
	7-3		white drywall with brown paper	n	None Detected		100% mi,bi,ca
	7-4		off-white surfaced white compound	n	None Detected		100% mi,bi,ca
	7-5		white drywall with brown paper	n	None Detected	23% ce	77% qu,gy

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

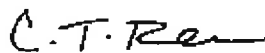
AIHA LAP, LLC Laboratory #102929

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:

Tanner Rasmussen
AnalystQAC
Leslie Crisp, P.G.Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages affecting 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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Polarized Light Asbestiform Materials Characterization

Customer Info: Attn:
Environmental Protection Associates
#9 Remington Cove
Little Rock, AR 72204

Customer Project:
Tract 7X-Residential Structure
& 2 Storage Bldg's
Turnaround Time:
2 Day

CA Labs Project #:
CAL13055053NT

Date: 5/29/2013
Samples Received: 5/28/13 10:30am
Date Of Sampling: 5/23/2013
Purchase Order #:

Phone # 501-562-3818
Fax # 501-562-5701

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
----------	-------------	------------	---	-------------------------------	--	--------------------------------------	-------------------------------

**Sheetrock and Joint
Compound/ green surfaced**
7X-08 8-1 tan compound

n 2% Chrysotile 98% mi,bi,ca

8-2 white drywall with brown paper n None Detected 24% ce 76% qu,gy

8-3 composite of layer 1 and 2 n <1% Chrysotile 11% ce 89% qu,mi,gy,ca

**Sheetrock and Joint
Compound/ white surfaced tan**
7X-09 9-1 compound

Positive Stop

9-2 tan compound (beneath tape) Not Analyzed

9-3 white drywall with brown paper Not Analyzed

7X-10 10-1 Linoleum/ gray linoleum y None Detected 32% ce 6% fg 62% gy,ma


Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

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 staining / 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:



Tanner Rasmussen
Analyst



QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

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CA LabsDedicated to
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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:**
Environmental Protection Associates
#9 Remington Cove
Little Rock, AR 72204Phone # 501-562-3818
Fax # 501-562-5701**Customer Project:**
Tract 7X-Residential Structure
& 2 Storage Bldg's
Turnaround Time:
2 Day**CA Labs Project #:**
CAL13055053NT**Date:** 5/29/2013
Samples Received: 5/28/13 10:30am
Date Of Sampling: 5/23/2013
Purchase Order #:

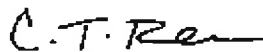
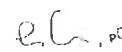
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
			10-2 tan mastic	y	None Detected		100% gy,bi
7X-11		11-1	Linoleum/ tan linoleum	y	None Detected	32% ce 5% fg	63% gy,ma
		11-2	tan patterned linoleum	y	None Detected	31% ce 5% fg	64% gy,ma
7X-12		12-1	Roof Shingle/ black roofing shingle with black gravel	n	None Detected	12% fg	88% qu,bi
		12-2	black roofing shingle with gray gravel	n	None Detected	13% fg	87% qu,bi
		12-3	black felt	y	None Detected	30% ce	70% qu,bi
7X-13		13-1	Roof Shingle/ black roofing shingle with black gravel	n	None Detected	11% fg	89% qu,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929Analysis 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
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ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Tanner Rasmussen
AnalystQAC
Leslie Crisp, P.G.Technical Manager
Chad Lytle

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

CA LabsDedicated 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**Polarized Light Asbestiform Materials Characterization****Customer Info: Attn:**
Environmental Protection Associates
#9 Remington Cove
Little Rock, AR 72204

Phone # 501-562-3818

Fax # 501-562-5701

Customer Project:Tract 7X-Residential Structure
& 2 Storage Bldg's
Turnaround Time:
2 Day**CA Labs Project #:**

CAL13055053NT

Date: 5/29/2013**Samples Received:** 5/28/13 10:30am**Date Of Sampling:** 5/23/2013**Purchase Order #:**

Sample #	Com ment	Layer #	Analysts Physical Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
			black roofing shingle with gray 13-2 gravel	n	None Detected	12% fg	88% qu,bi
			13-3 black felt	y	None Detected	31% ce	69% qu,bi
7X-14			Roof Shingle/ black roofing 14-1 shingle with black gravel	n	None Detected	13% fg	87% qu,bi
			black roofing shingle with gray 14-2 gravel	n	None Detected	12% ce	88% qu,bi
			14-3 black felt	y	None Detected	22% ce	78% qu,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

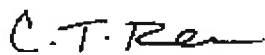
AIHA LAP, LLC Laboratory #102929

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 - perillite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Tanner Rasmussen
AnalystQAC
Leslie Crisp, P.G.Technical Manager
Chad Lytle

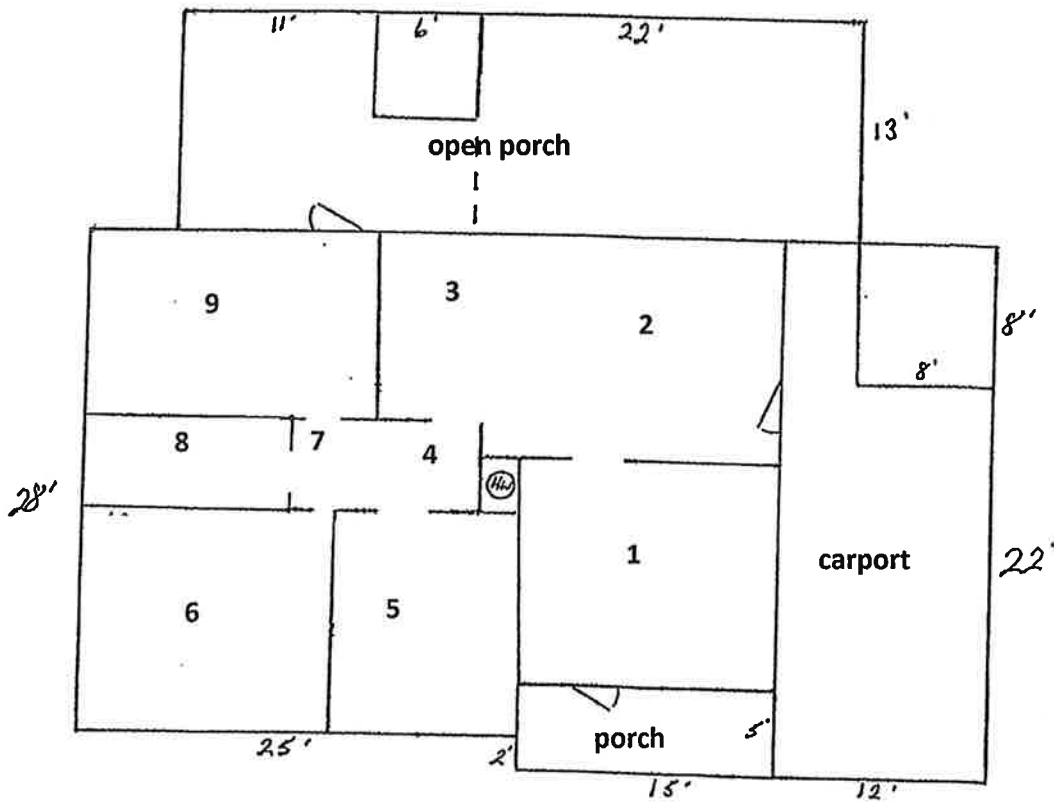
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7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

Tract 7X

11

10



- 1 living 12 x 13
- 2 dining 12 x 13
- 3 kitchen 12 x 14
- 4 hallway 3 x 7
- 5 bedroom 10 x 8
- 6 bedroom 10 x 12
- 7 hall 3 x 7
- 8 bathroom 8 x 8
- 9 bedroom 8 x 11
- 10 storage building 12 x 16
- 11 storage building 10 x 20



05-13-2013

7x 7x



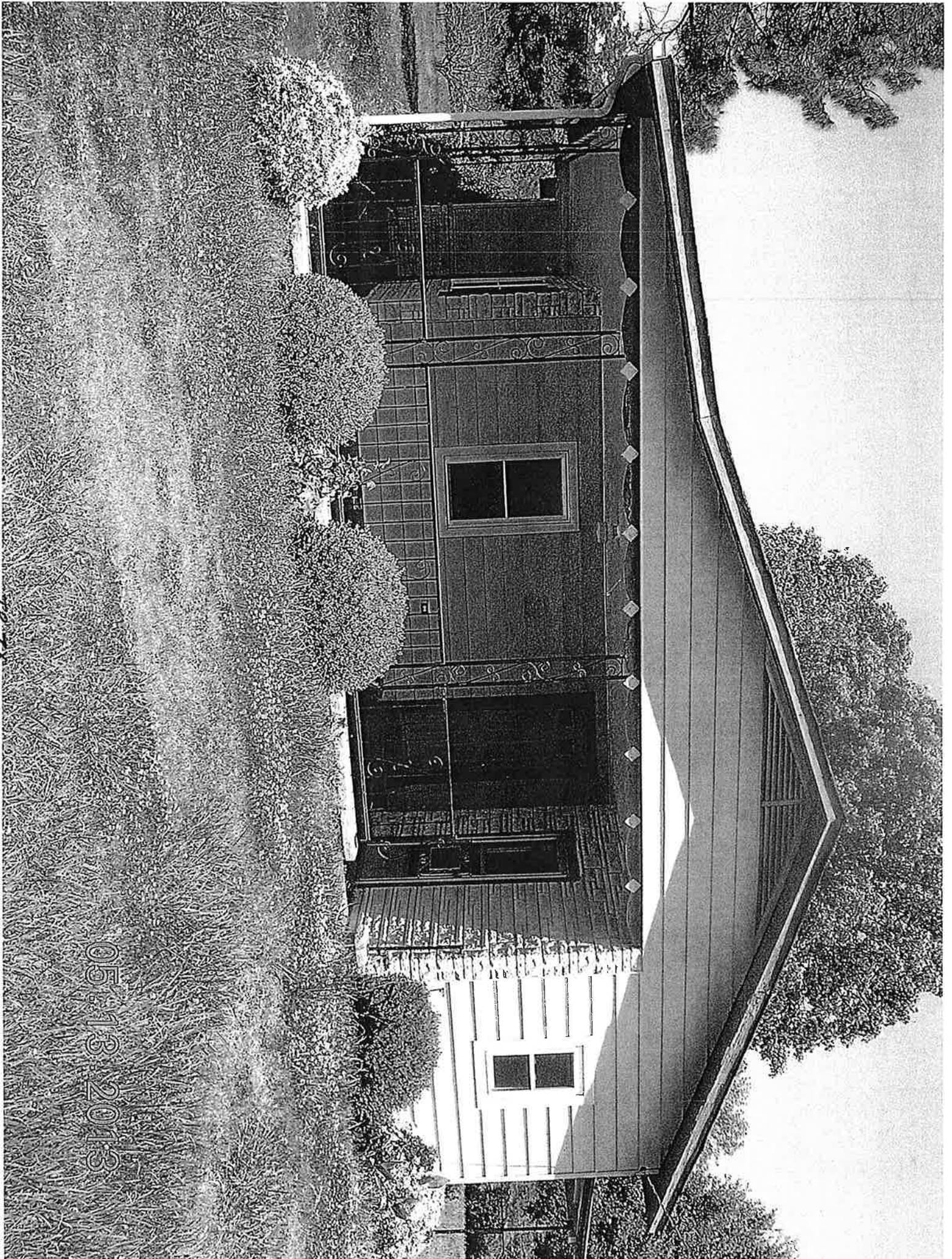
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781X



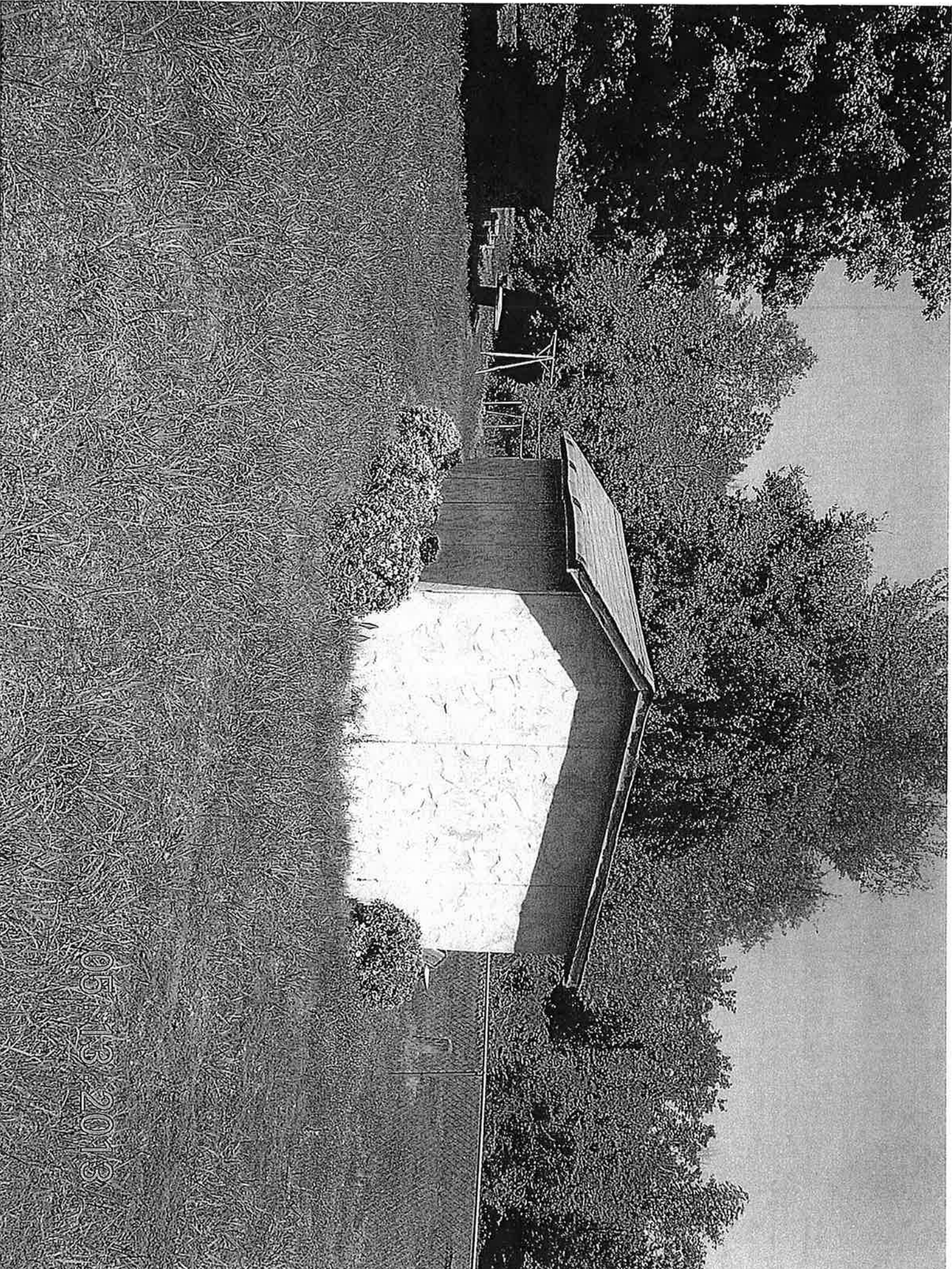
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TR 7X

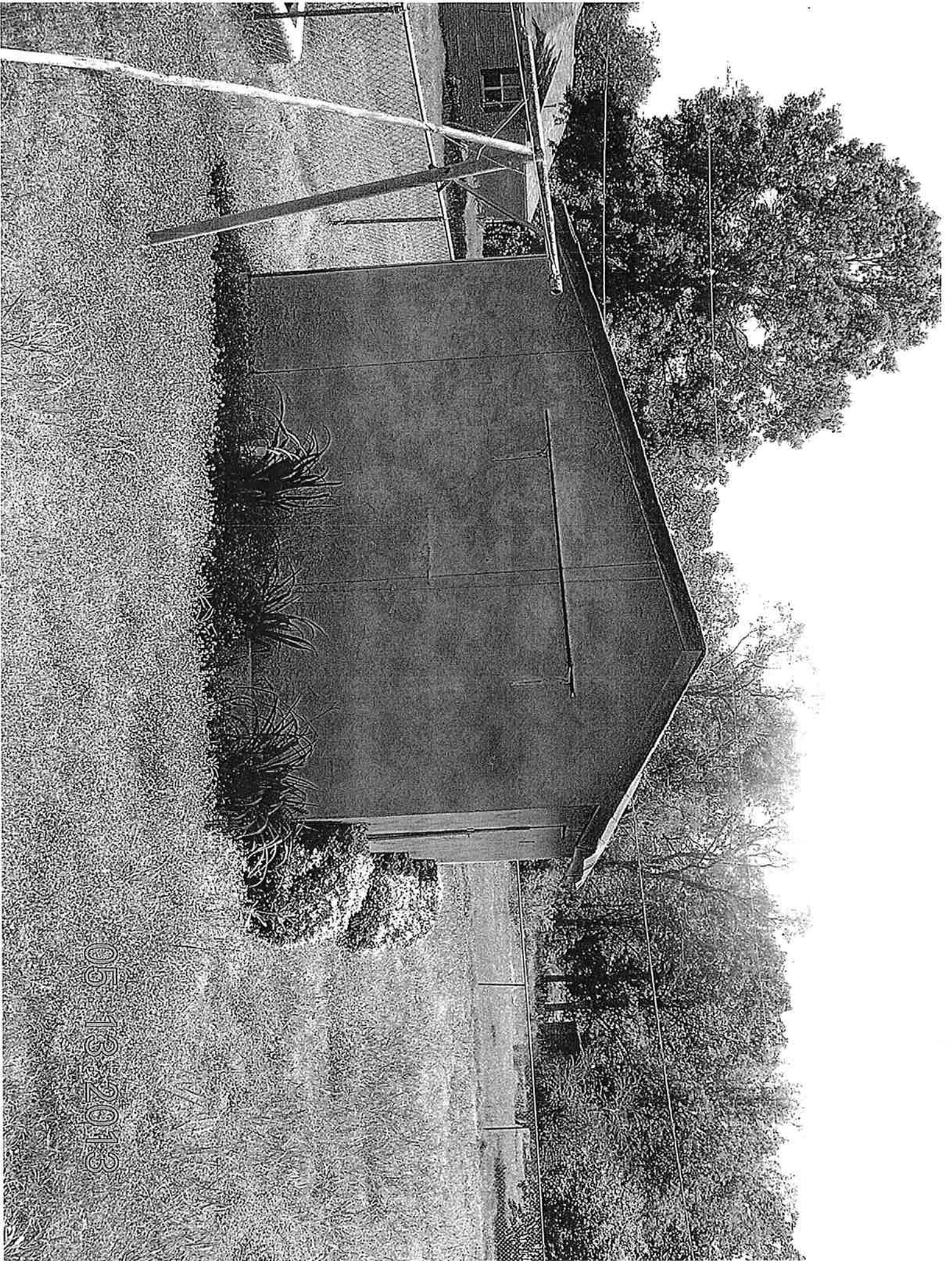


05-13-2013

767X



05-13-2013

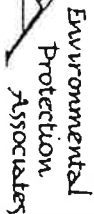


05-13-2013



05-13-2013

7K. 7X



Asbestos Sampling Chain of Custody Field Data Sheet

CA213055055

Fax 501-562-5701

Client

Arkansas Highway & Transportation Department

Little Rock, AR

Property

Tract 8X - Residential Structure & Barn

297 Highway 365

Mayflower, AR

Inspector

Building ID

Date _____

Turnaround Time

Gary Nooner

Traci 8X

5/23/2013

Normal (2 days)

[illegible]

HA - Homogeneous Area A - Analyze C - Catalogue ♦ - Analyze only if the previous sample was found to be negative

Class: S-surfacing, T-thermal, M-miscellaneous. Friability: F-friable, NF-non-friable. Condition: G-good, D-damaged, SD-severely damaged. POT. DAM (Potential Damage): L-low, M-moderate, H-high

Relinquished By Anthony Brown Time 1500 Date 5/23/13

Received By	Time	Date	Received By	Time	Date
			<i>MSJ</i>	10:30	2/24/13

Composite Sample all positive Sheetrock and Joint Compound Samples

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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

Environmental Protection Associates

#9 Remington Cove
Little Rock, AR 72204

Customer Project: Tract 8X-Residential Structure&Barn,297 Hwy 365
Reference #: CAL13055055NT Date: 05/28/13

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 mounting 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 conjunction 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 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 by 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 detectable 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

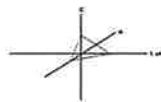
CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts 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. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

CA Labs
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Crisp Analytical, L.L.C.

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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: Tract 8X-Residential Structure&Barn,297 Hwy 365 **CA Labs Project #:** CAL13055055NT

Sample #	Layer #	Analysts	Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
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No Asbestos Detected.

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

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)

This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.

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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:
Environmental Protection Associates
#9 Remington Cove
Little Rock, AR 72204

Customer Project:
Tract 8X-Residential
Structure&Barn,297 Hwy 365
Turnaround Time:
2 Day

CA Labs Project #:
CAL13055055NT

Date: 05/28/13
Samples Received: 5/24/13 10:30am
Date Of Sampling: 05/23/13
Purchase Order #:

Phone # 501-562-3818
Fax # 501-562-5701

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
8X-01		1-1	Ceiling Texture/ white surfaced white compound	n	None Detected		100% mi,bi,ca
8X-02		2-1	Ceiling Texture/ white surfaced white compound	n	None Detected		100% mi,bi,ca
8X-03		3-1	Ceiling Texture/ white surfaced white compound	n	None Detected		100% mi,bi,ca
8X-04		4-1	Sheetrock and Joint Compound/ brown linoleum	y	None Detected	29% ce 6% fg	65% gy,ma
		4-2	tan mastic	y	None Detected		100% gy,bi
8X-05		5-1	Sheetrock and Joint Compound/ brown linoleum	y	None Detected	31% ce 5% fg	64% gy,ma
		5-2	tan mastic	y	None Detected		100% gy,bi


Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

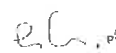
Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for
identification of asbestos types by dispersion staining / becke line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



Tanner Rasmussen
Analyst



QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages affecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
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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

CA Labs
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Crisp Analytical, L.L.C.
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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:
Environmental Protection Associates
#9 Remington Cove
Little Rock, AR 72204

Customer Project:
Tract 8X-Residential
Structure&Barn,297 Hwy 365
Turnaround Time:
2 Day

CA Labs Project #:
CAL13055055NT
Date: 05/28/13
Samples Received: 5/24/13 10:30am
Date Of Sampling: 05/23/13
Purchase Order #:

Phone # 501-562-3818
Fax # 501-562-5701

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
			5-3 gray leveling compound	y	None Detected		100% qu,ca
8X-06		6-1	Sheetrock and Joint Compound/ brown linoleum	y	None Detected	30% ce 5% fg	65% gy,ma
		6-2	tan mastic	y	None Detected		100% gy,bi
8X-07		7-1	Flooring/ tan surfaced white compound	n	None Detected		100% mi,bi,ca
		7-2	white compound (beneath tape)	y	None Detected		100% mi,ca
		7-3	white drywall with brown paper	n	None Detected	22% ce	78% qu,gy
8X-08		8-1	Flooring/ tan surfaced white compound	n	None Detected		100% mi,bi,ca

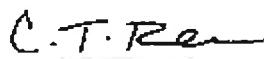
Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

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 staining / 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)
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Approved Signatories:



Tanner Rasmussen
Analyst



QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
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3. Actinolite in association with Vermiculite
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8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
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Polarized Light Asbestiform Materials Characterization

Customer Info: Attn:
Environmental Protection Associates
#9 Remington Cove
Little Rock, AR 72204

Customer Project:
Tract 8X-Residential
Structure&Barn,297 Hwy 365
Turnaround Time:
2 Day

CA Labs Project #:
CAL13055055NT

Date: 05/28/13
Samples Received: 5/24/13 10:30am
Date Of Sampling: 05/23/13
Purchase Order #:

Phone # 501-562-3818

Fax # 501-562-5701

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
----------	-------------	------------	--	-------------------------------	--	--------------------------------------	-------------------------------

8-2	white compound (beneath tape)	y	None Detected			100% mi,ca	
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8-3	white drywall with brown paper	n	None Detected		21% ce	79% qu,gy	
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8X-09		9-1	Flooring/ tan surfaced white compound	n	None Detected		100% mi,bi,ca
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9-2	white compound (beneath tape)	y	None Detected			100% mi,ca	
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9-3	white drywall with brown paper	n	None Detected		22% ce	78% qu,gy	
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8X-10		10-1	Roof Shingle/ black roofing shingle with brown gravel	n	None Detected	11% fg	89% qu,bi
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10-2	black felt	y	None Detected		21% ce	79% qu,bi	
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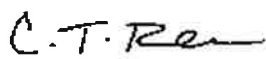
Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

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.

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

Approved Signatories:



Tanner Rasmussen
Analyst

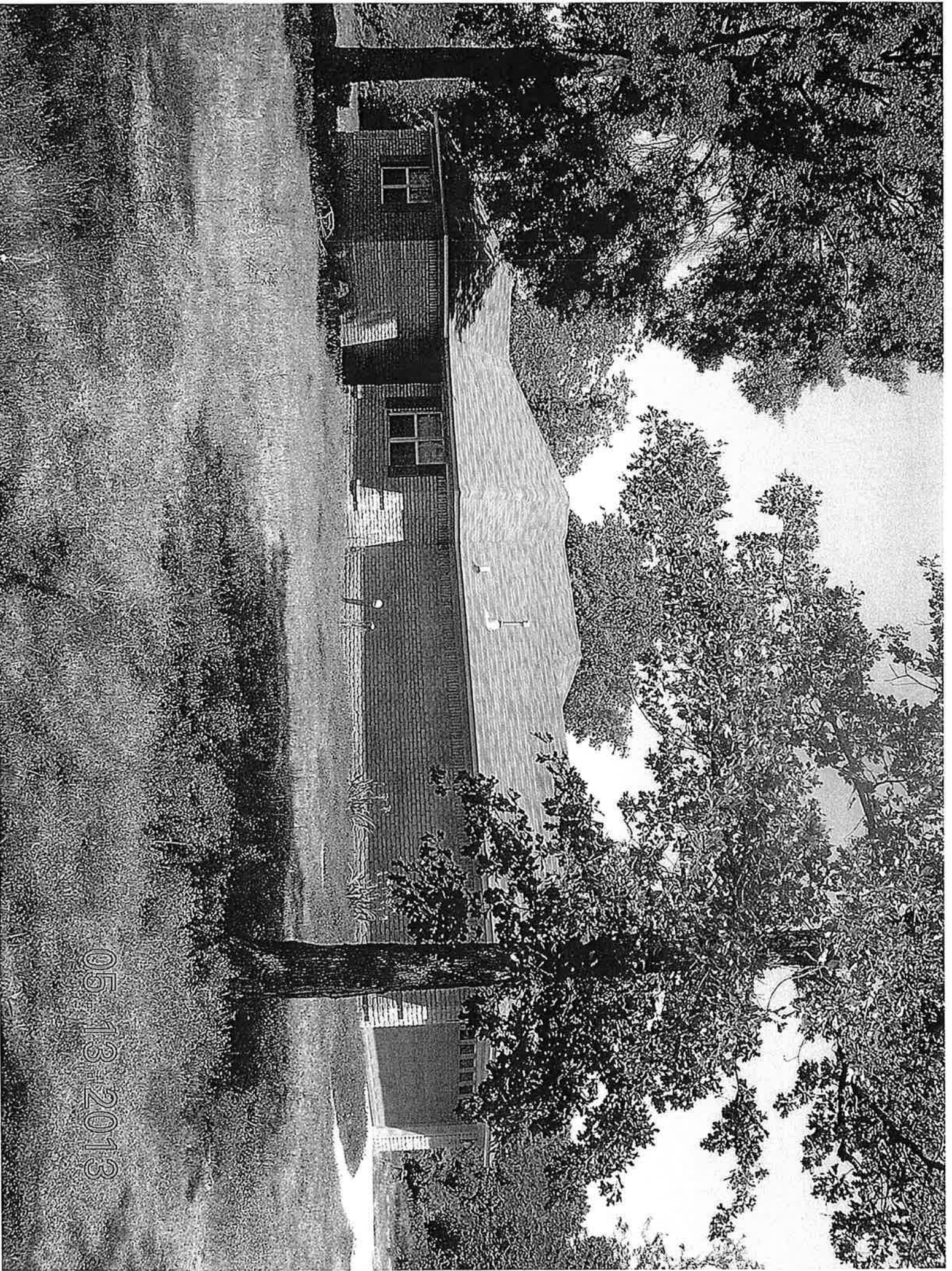


QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

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05-13-2013



05-13-2013

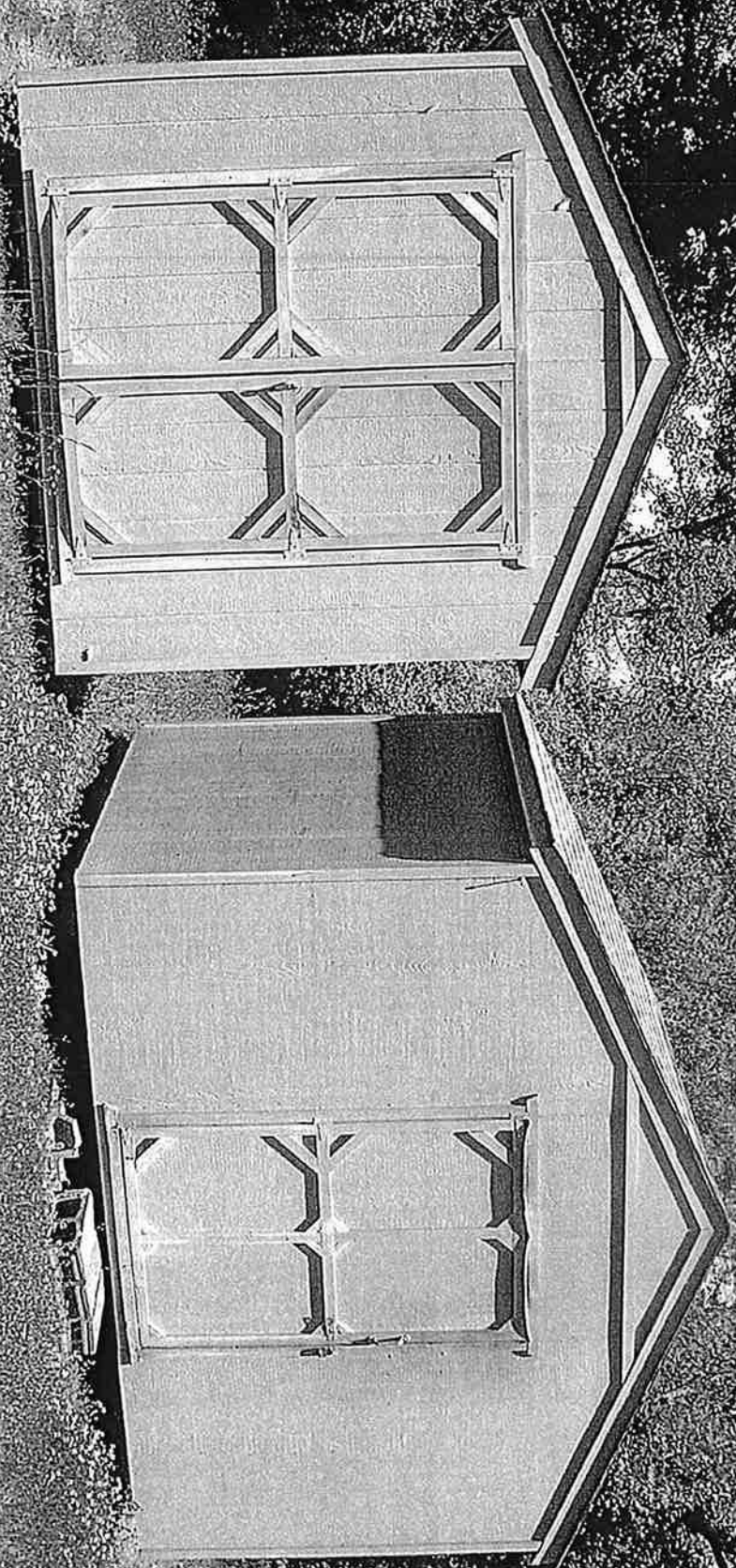
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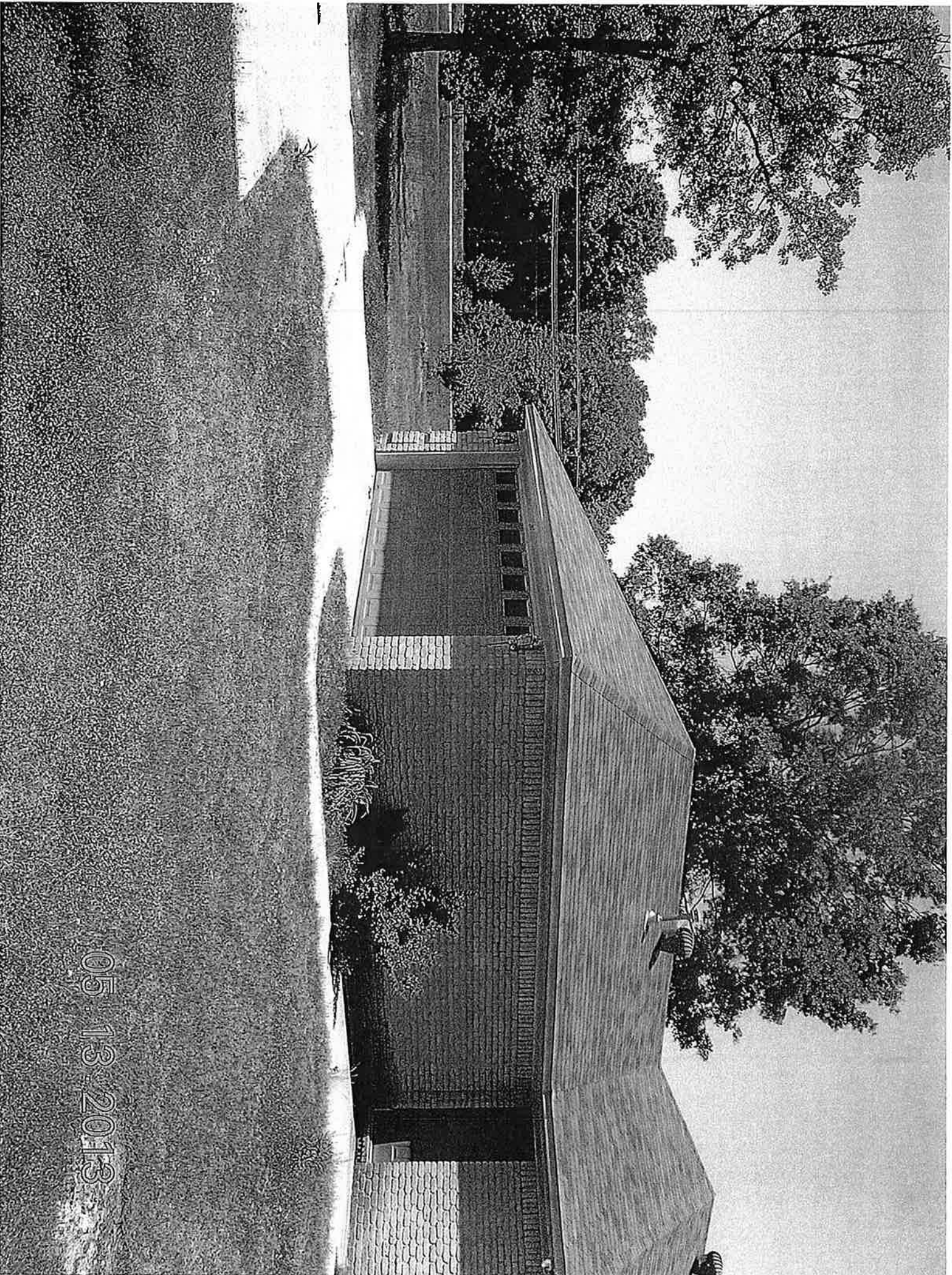
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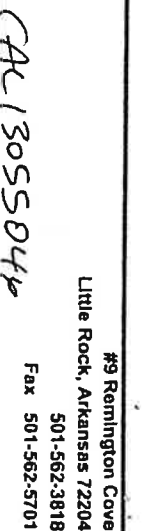
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05-13-2013



05-13-2013



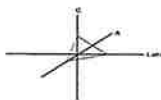
Normal (2 days)

Relinquished By <i>Dany 1622</i>	Time <i>1:50</i>	Date <i>5/23/13</i>	Relinquished By	Time	Date
Received By	Time	Date	Received By <i>123</i>	Time <i>10:30</i>	Date <i>2/24/13</i>
Comments: Composite Sample all positive Sheetrock and Joint Compound Samples					

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Crisp Analytical, L.L.C.

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CA Labs, L.L.C.

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Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Environmental Protection Associates

#9 Remington Cove
Little Rock, AR 72204

Customer Project: Tract 9X-Apt Structure, 3, 4, 5, & 6 McClure Dr
Reference #: CAL13055046NT Date: 5/29/2013

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 performed. Calibrated liquid refractive oils are used as liquid mounting 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 conjunction 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 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 by 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 detectable 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). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. 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 of 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. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

CA LabsDedicated to
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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:		Tract 9X-Apt Structure, 3, 4, 5, & 6 McClure Dr		CA Labs Project #:	CAL13055046NT
Sample #	Layer #	Analysts	Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types

No Asbestos Detected.

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

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 - otherpe - perlite
qu - quartzfg - fiberglass
mw - mineral wool
wo - wollastonite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)

pa - palygorskite (clay)

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Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634**Polarized Light Asbestiform Materials Characterization****Customer Info: Attn:**
Environmental Protection Associates
#9 Remington Cove
Little Rock, AR 72204Phone # 501-562-3818
Fax # 501-562-5701**Customer Project:**
Tract 9X-Apt Structure, 3, 4, 5,
& 6 McClure Dr
Turnaround Time:
2 Day**CA Labs Project #:**
CAL13055046NT**Date:** 5/29/2013
Samples Received: 5/24/13 10:30am
Date Of Sampling: 5/22/2013
Purchase Order #:

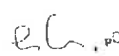
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
9X-01		1-1	Ceiling Texture/ tan surfaced white compound	n	None Detected		100% mi,bi,ca
9X-02		2-1	Ceiling Texture/ tan surfaced white compound	n	None Detected		100% mi,bi,ca
9X-03		3-1	Ceiling Texture/ tan surfaced white compound	n	None Detected		100% mi,bi,ca
9X-04		4-1	Sheetrock and Joint Compound/ tan surfaced white compound	n	None Detected		100% mi,bi,ca
		4-2	white drywall with brown paper	n	None Detected	19% ce 1% fg	80% qu,gy
9X-05		5-1	Sheetrock and Joint Compound/ tan surfaced white compound	n	None Detected		100% mi,bi,ca
		5-2	white compound (beneath tape)	y	None Detected		100% mi,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929Analysis 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:

Julio Robles
AnalystQAC
Leslie Crisp, P.G.Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages affecting 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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Fax 225-751-5634**Polarized Light Asbestiform Materials Characterization****Customer Info: Attn:**
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Fax # 501-562-5701**Customer Project:**
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& 6 McClure Dr
Turnaround Time:
2 Day**CA Labs Project #:**
CAL13055046NT
Date: 5/29/2013
Samples Received: 5/24/13 10:30am
Date Of Sampling: 5/22/2013
Purchase Order #:

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		5-3	white drywall with brown paper	n	None Detected	18% ce 2% fg	80% qu,gy
			Sheetrock and Joint Compound/ tan surfaced white				
9X-06		6-1	compound	n	None Detected		100% mi,bi,ca
		6-2	white drywall with brown paper	n	None Detected	18% ce 1% fg	81% qu,gy
9X-07		7-1	Linoleum/ brown linoleum	y	None Detected	18% ce 4% fg	78% gy,ma
		7-2	tan mastic	y	None Detected		100% gy,bi
9X-08		8-1	Linoleum/ tan linoleum	y	None Detected	19% ce 3% fg	78% gy,ma
9X-09		9-1	Linoleum/ tan linoleum	y	None Detected	18% ce 2% fg	80% gy,ma

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929Analysis 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

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gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

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AnalystQAC
Leslie Crisp, P.G.Technical Manager
Chad Lytle

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9. < 1% Result point counted positive
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Fax 225-751-5634**Polarized Light Asbestiform Materials Characterization****Customer Info: Attn:**
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#9 Remington Cove
Little Rock, AR 72204

Phone # 501-562-3818

Fax # 501-562-5701

Customer Project:Tract 9X-Apt Structure, 3, 4, 5,
& 6 McClure Dr**Turnaround Time:**
2 Day**CA Labs Project #:**

CAL13055046NT

Date: 5/29/2013**Samples Received:** 5/24/13 10:30am**Date Of Sampling:** 5/22/2013**Purchase Order #:**

Sample #	Com ment	Layer #	Analysts Physical Subsample	Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		9-2		tan mastic	y	None Detected		100% gy,bi
9X-10		10-1		Linoleum/ tan linoleum	y	None Detected	19% ce 4% fg	77% gy,ma
9X-11		11-1		Linoleum/ tan linoleum	y	None Detected	18% ce 3% fg	79% gy,ma
		5		11-2 tan mastic				
				Roof Shingle/ black roofing				
9X-12		12-1		shingle with gray gravel	n	None Detected	6% fg	94% qu,bi
		12-2		black felt	y	None Detected	64% ce	36% qu,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

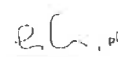
Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)

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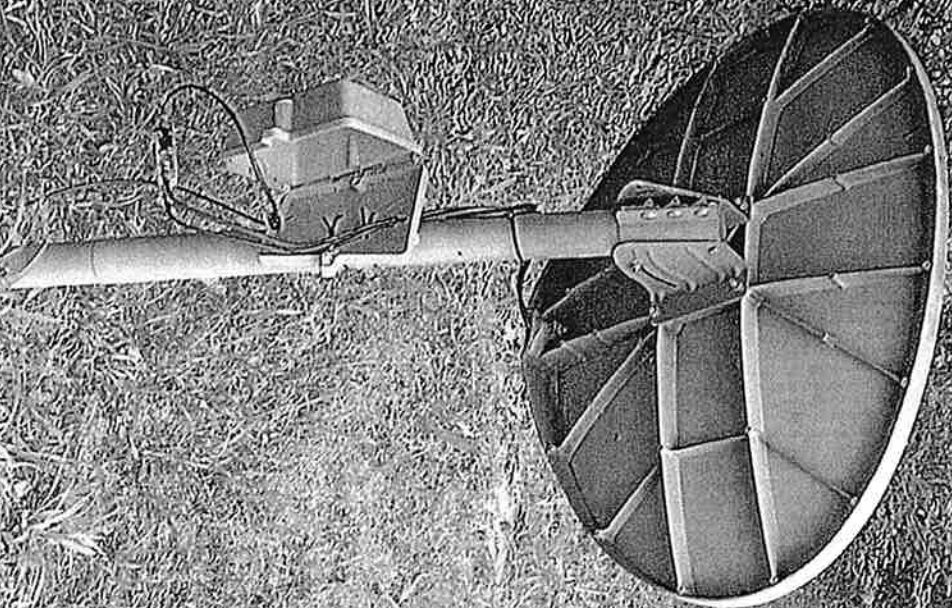
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8. Favorable scenario for water separation on vermiculite for possible analysis by another method
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10. TEM analysis suggested



05-20-2013 10:19

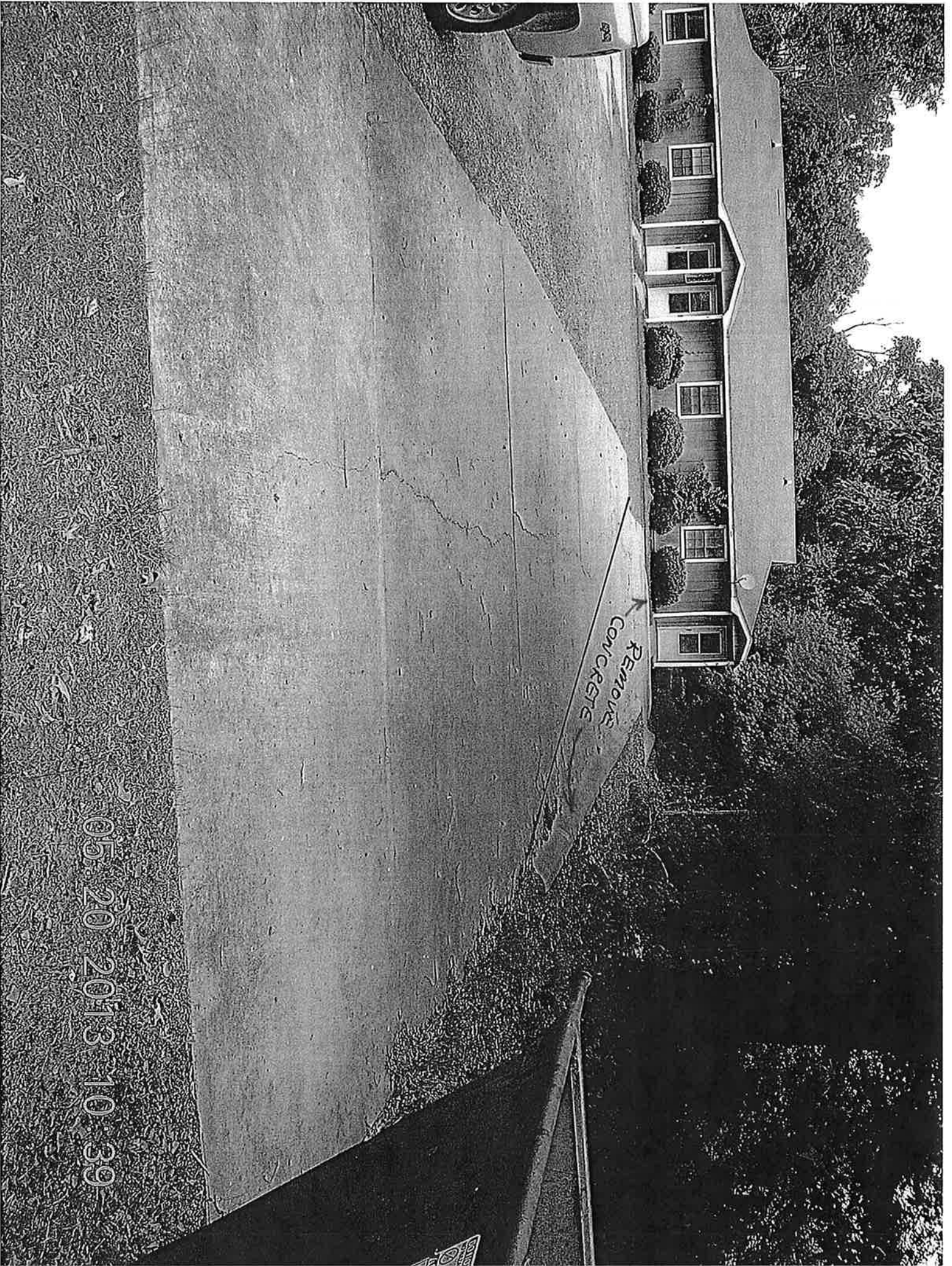


05:20:2013 10:20



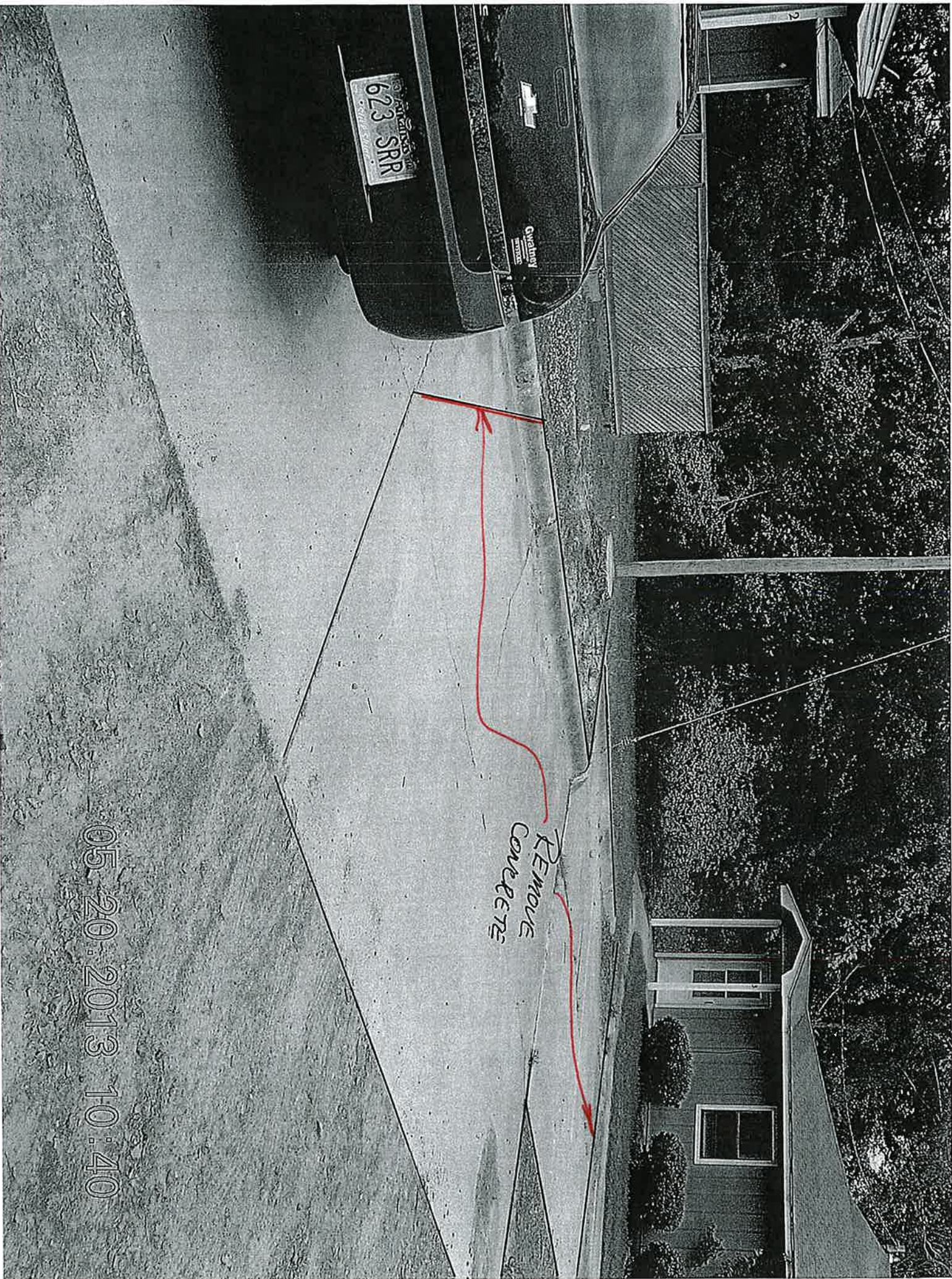
05-20-2013 10:21

TR 9X



Remove
concrete

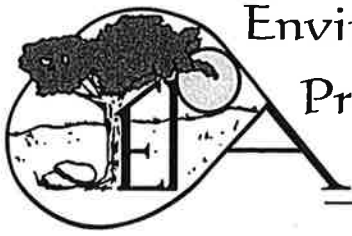
05:20:2013 10:39



REMOVE
CONCRETE

05-20-2013 10:40

TR 9X



Environmental
Protection
Associates

Arkansas Central Office

#9 Remington Cove
Little Rock, Arkansas 72204
(501) 562-3818
Fax (501) 562-5701
E-mail: TBlaylock@epaonline.biz

May 29, 2013

Arkansas State Highway & Transportation Department
P.O. Box 2261 Room 705
Little Rock, AR 72203

RE: Asbestos Survey **Tract 10X**
Job 080395 - Conway South Interchange
Highway 68 (Gr. & Strs.)
Route I-40 Section 32 -Faulkner County

Mr. Joel Clark:

On May 23, 2013, I conducted an asbestos survey at the above referenced location. This site has an illegal dumpsite on the property. Laboratory analysis has determined that the following samples do contain asbestos.

Sample # 10X-01 – Sheetrock and Joint Compound
Sample # 10X-10 – Window Putty
Sample # 10X-13 – Sheetrock and Joint Compound – Found in the debris pile
Sample # 10X-16 – Linoleum – Found in the debris pile

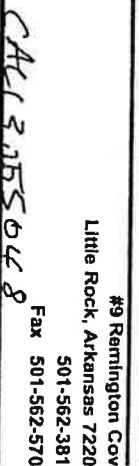
I had the laboratory perform composite sampling on the sheetrock and joint compound. This additional sampling has determined that the Sheetrock and joint compound contains less than 1% of Chrysotile Asbestos.

Federal and state regulations with the exception of OSHA, determine a material to be asbestos containing if it contains 1% or more asbestos. OSHA states that any amount is an asbestos containing material. Therefore ceiling must be removed by a licensed asbestos contractor prior to demolition of the structure. However the sheetrock and Joint Compound may now be considered a Non-Asbestos containing material and left in place for demolition. The demolition contractor will be required to follow the OSHA regulations concerning asbestos.

I have attached my chain of custody and laboratory findings. Please contact me with any questions you may have.

Sincerely,

Gary Nooner
Inspector -License No. 005065



Gary Nooner

Traci 10X

5/23/2013

Normal (2days)

[illegible]

HA - Homogeneous Area A - Analyze C - Catalogue ♦ - Analyze only if the previous sample was found to be negative.

Class: S-surfacing, T-thermal, M-miscellaneous. **Fraility:** F-frail, NF-non-frail. **Condition:** G-good, D-damaged, SD-severely damaged, POT. DAM (Potential Damage); L-low, M-moderate, H-high

Relinquished By

Time 1500

Date 5/23/13

Relinquished By

Time

Date _____

Received By

Time

Date _____

Received By _____

Time

Date 7/24/17

Comments:

Composite Sample all positive Sheetrock and Joint Compound Samples

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Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Environmental Protection Associates

#9 Remington Cove
Little Rock, AR 72204

Customer Project: Tract 10X-Residential Structure and Illegal Dumpsite
Reference #: CAL13055048RO Date: 5/28/2013

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 mounting 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 conjunction 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 by 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 detectable by PLM analysis and should be analyzed by TEM bulk protocols.

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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.

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Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
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Polarized Light Asbestiform Materials Point Count
Laboratory Analysis Report - Point Count

Analysis and Method

Point counting was performed on a polarized light microscope with a calibrated reticle according to the revised NESHAP method of November 20, 1990 (Federal Register, V.55, N.224, 11/20/90). Original asbestos content of bulk materials was determined using procedures outlined in the interim method (40 CFR part 763, Appendix E to subpart E) and AHERA method (EPA-600/R-93/116). Samples were prepared using HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

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). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. 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 of 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 NVLAP accreditation. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Customer Info: Attn:
Environmental Protection Associates
#9 Remington Cove
Little Rock, AR 72204

Phone # 501-562-3818
Fax # 501-562-5701

Customer Project:
Tract 10X-Residential
Structure and Illegal Dumpsite
Turnaround Time:
2 Day

CA Labs Project #:
CAL13055048RO

Date: 5/28/2013
Samples Received: 5/24/13 10:30am
Date Of Sampling: 5/23/13
Purchase Order #:

Sample #	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Point Counted % / Asbestos Type
Window Putty/ black surfaced gray				
10X-10	10-1	caulking	n	0.25% Chrysotile
Sheetrock and Joint Compound/ white				
10X-13	13-1	compound	y	0.50% Chrysotile

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

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Approved Signatories:



Keith Malone
Analyst



QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle



Overview of Project Sample Material Containing Asbestos

Customer Project:		Tract 10X-Residential Structure and Illegal Dumpsite		CA Labs Project #:	CAL13055048RO
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent		List of Affected Building Material Types
Sheetrock and Joint Compound/ green surfaced					green surfaced white compound white compound (beneath tape) composite of layers 1,2, and 3 black surfaced gray caulking tan linoleum
10X-01	01-1	white compound	2% Chrysotile		
	01-2	white compound (beneath tape)	2% Chrysotile		
	01-4	composite of layers 1,2, and 3	<1% Chrysotile		
Window Putty/ black surfaced					
10X-10	10-1	gray caulking	<1% Chrysotile		
Sheetrock and Joint Compound/ white compound					
10X-13	13-1	white compound	<1% Chrysotile		
10X-16	16-3	tan linoleum	23% Chrysotile		

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

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Polarized Light Asbestiform Materials Characterization

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Turnaround Time:
2 Day

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CAL13055048RO

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Sheetrock and Joint Compound/ green surfaced							
10X-01		01-1	white compound	n	2% Chrysotile		98% mi,bi,ca
		01-2	white compound (beneath tape)	y	2% Chrysotile		98% mi,ca
		01-3	white drywall with brown paper	n	None Detected	23% ce	77% qu,gy
		01-4	composite of layers 1,2, and 3	n	<1% Chrysotile	11% ce	89% ca,gy
Sheetrock and Joint Compound/ brown surfaced							
10X-02		02-1	white compound		Positive Stop		
		02-2	white compound (beneath tape)		Positive Stop		
		02-3	white drywall with brown paper		Not Analyzed		

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

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:



Keith Malone
Analyst



QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

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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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Fax 972-242-2798

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

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn:
Environmental Protection Associates
#9 Remington Cove
Little Rock, AR 72204

Phone # 501-562-3818
Fax # 501-562-5701

Customer Project:
Tract 10X-Residential
Structure and Illegal Dumpsite
Turnaround Time:
2 Day

CA Labs Project #:
CAL13055048RO

Date: 5/28/2013
Samples Received: 5/24/13 10:30am
Date Of Sampling: 5/23/13
Purchase Order #:

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
Sheetrock and Joint Compound/ tan surfaced white							
10X-03		03-1	compound		Positive Stop		
		03-2	white compound (beneath tape)		Positive Stop		
		03-3	white drywall with brown paper		Not Analyzed		
10X-04		04-1	Linoleum/ brown linoleum	y	None Detected	25% ce	75% bi
		04-2	tan mastic	y	None Detected		100% mi,ma
Floor Tile and Mastic/ brown							
10X-05		05-1	self-adhesive floor tile	y	None Detected		100% bi
		05-2	clear mastic	y	None Detected		100% mi,ma

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
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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:



Keith Malone
Analyst



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Leslie Crisp, P.G.

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Chad Lytle

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Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: **Environmental Protection Associates**
#9 Remington Cove
Little Rock, AR 72204

Phone # 501-562-3818
Fax # 501-562-5701

Customer Project:
Tract 10X-Residential
Structure and Illegal Dumpsite
Turnaround Time:
2 Day

CA Labs Project #:
CAL13055048RO

Date: 5/28/2013
Samples Received: 5/24/13 10:30am
Date Of Sampling: 5/23/13
Purchase Order #:

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
			05-3 brown fiber board	y	None Detected	100% ce	
10X-06			Floor Tile and Mastic/ brown 06-1 self-adhesive floor tile	y	None Detected		100% bi
			06-2 clear mastic	y	None Detected		100% mi,ma
10X-07			Floor Tile and Mastic/ brown 07-1 self-adhesive floor tile	y	None Detected		100% bi
			07-2 clear mastic	y	None Detected		100% mi,ma
10X-08			08-1 Window Putty/ gray caulking	y	None Detected		100% qu,bi
10X-09			09-1 Window Putty/ gray caulking	y	None Detected		100% qu,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

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 staining / becke line method.

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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:



Keith Malone
Analyst



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Leslie Crisp, P.G.

Technical Manager
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Polarized Light Asbestiform Materials Characterization

Customer Info: Attn:
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#9 Remington Cove
Little Rock, AR 72204

Phone # 501-562-3818
Fax # 501-562-5701

Customer Project:
Tract 10X-Residential
Structure and Illegal Dumpsite
Turnaround Time:
2 Day

CA Labs Project #:
CAL13055048RO

Date: 5/28/2013
Samples Received: 5/24/13 10:30am
Date Of Sampling: 5/23/13
Purchase Order #:

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
10X-10		10-1	Window Putty/ black surfaced gray caulking	n	<1% Chrysotile		100% qu,bi
10X-11		11-1	Roof Shingle/ black roofing shingle with black gravel	y	None Detected	21% fg	79% qu,bi
		11-2	black felt	y	None Detected	100% ce	
10X-12		12-1	Fibrous Board/ brown fiber board	y	None Detected	21% ce	79% qu,bi,ca
10X-13		13-1	Sheetrock and Joint Compound/ white compound	y	<1% Chrysotile		100% mi,ca
		13-2	white drywall with brown paper	n	None Detected	22% ce	78% qu,gy
10X-14		14-1	Linoleum/ tan linoleum	y	None Detected	20% ce	80% bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

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.

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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 - perillite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:



Keith Malone
Analyst



QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

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Polarized Light Asbestiform Materials Characterization

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Little Rock, AR 72204

Phone # 501-562-3818
Fax # 501-562-5701

Customer Project:
Tract 10X-Residential
Structure and Illegal Dumpsite
Turnaround Time:
2 Day

CA Labs Project #:
CAL13055048RO

Date: 5/28/2013
Samples Received: 5/24/13 10:30am
Date Of Sampling: 5/23/13
Purchase Order #:

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
10X-15		15-1	Roof Shingle/ black roofing shingle with black gravel	y	None Detected	18% fg	82% qu,bi
10X-16		16-1	Linoleum/ red patterned tan linoleum	y	None Detected	13% fg	87% bi
		16-2	tan mastic	y	None Detected		100% mi,ma
		16-3	tan linoleum	y	23% Chrysotile		77% bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

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

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Keith Malone
Analyst



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Leslie Crisp, P.G.

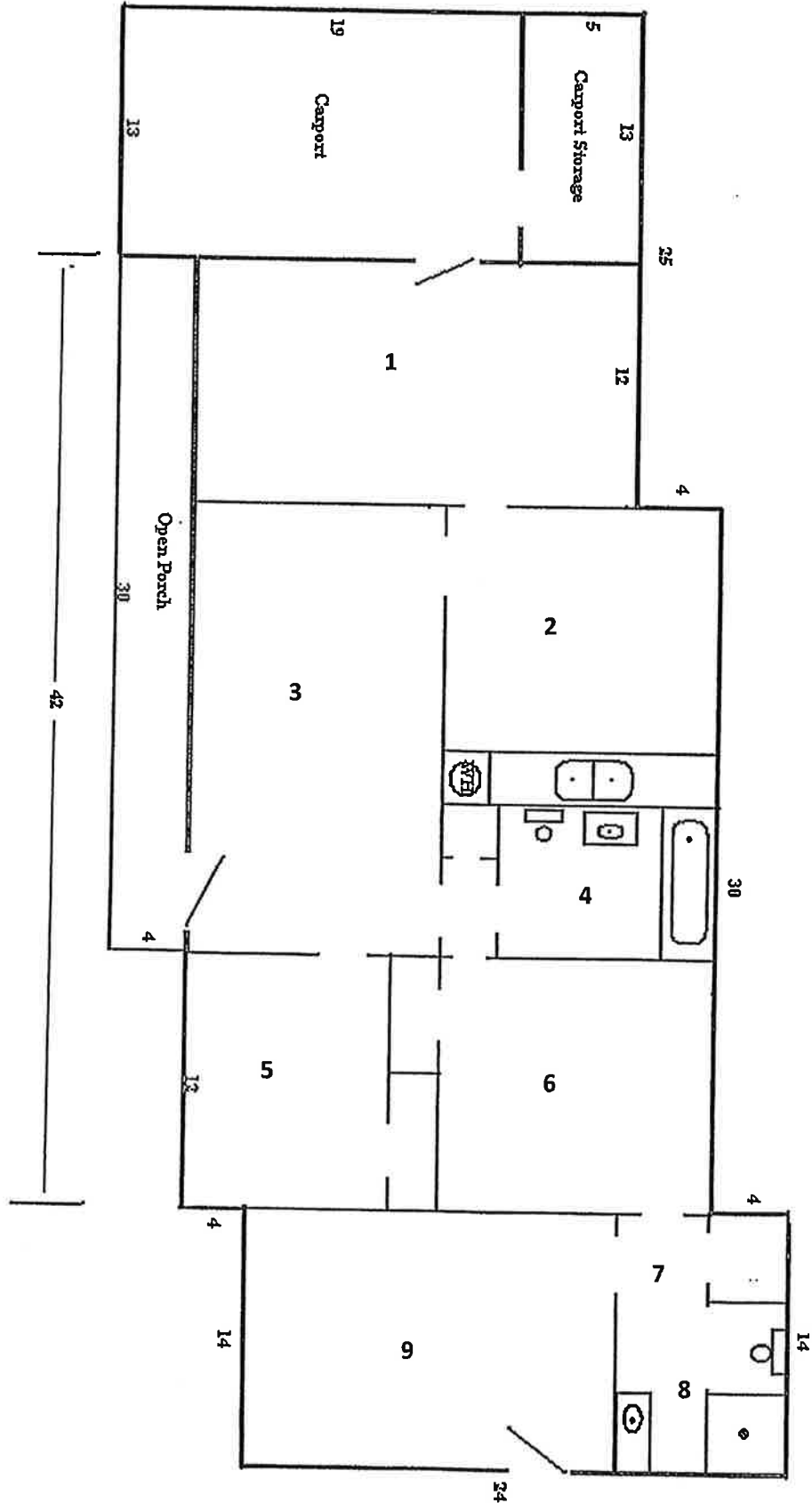
Technical Manager
Chad Lytle

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Tract 10X

- 1 enclosed carport 12 x 18
2 kitchen 12 x 12
3 living 12 x 18
4 bathroom 5 x 9
5 bedroom 12 x 12
6 bedroom 12 x 13
7 hall 7 x 8
8 bathroom 7 x 8
9 bedroom 14 x 16

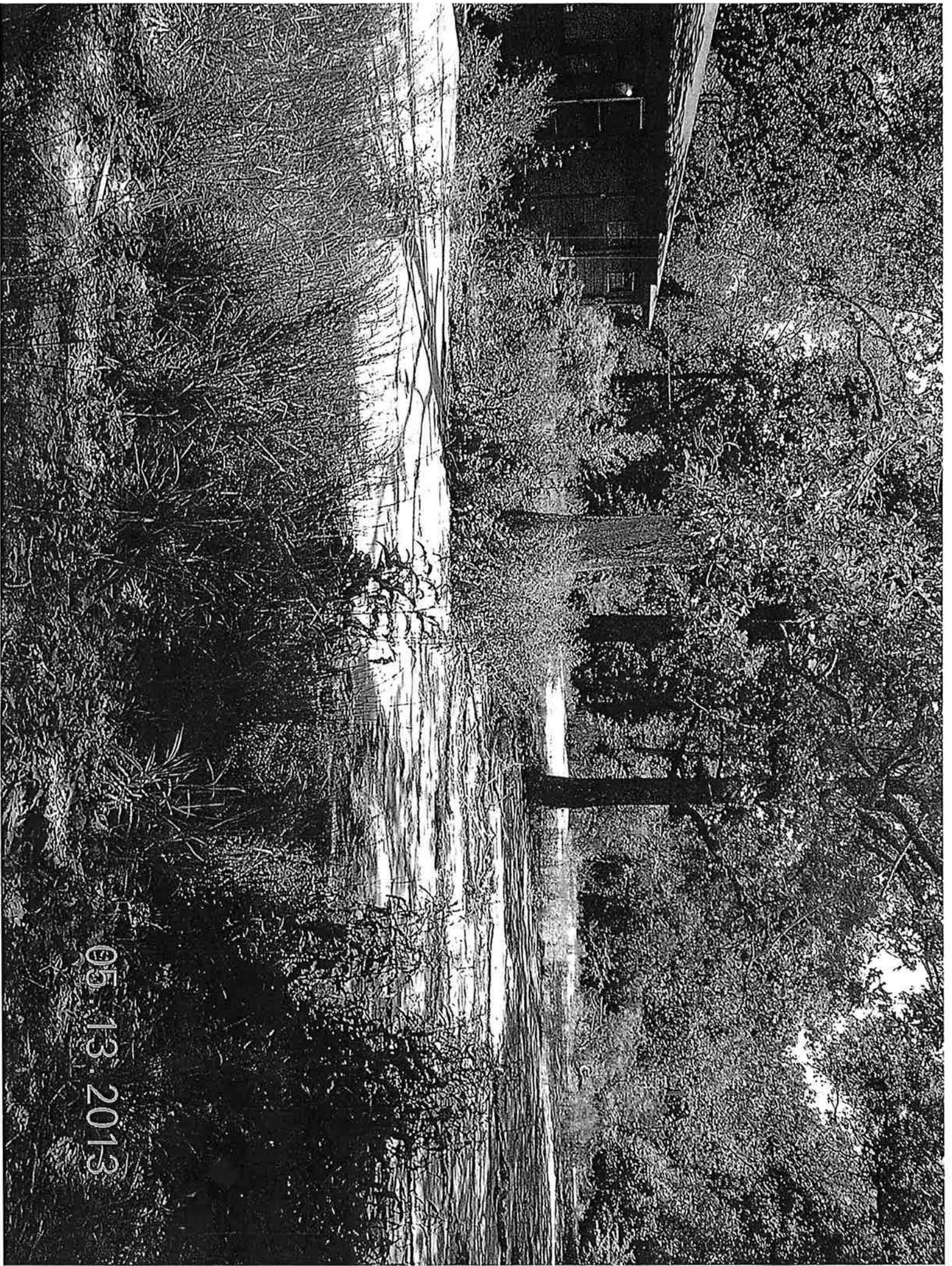


Dumpsite



05-13-2013

TK 10x



05.13.2013

7R 10X



05-13-2013

05.13.2013

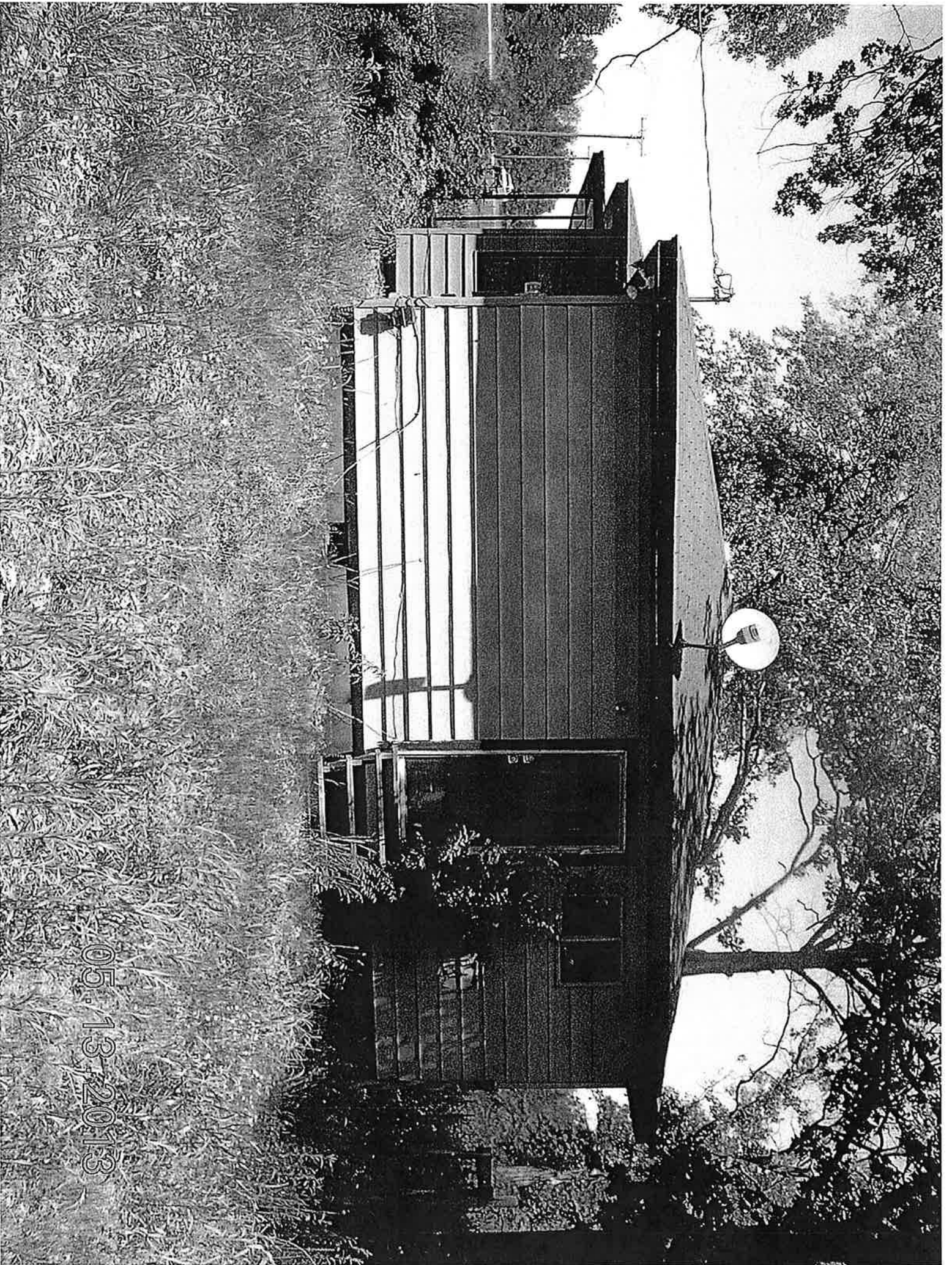
7K10X



05-13-2013

7R10x





05-13-2013

TR 10X



Arkansas Central Office

#9 Remington Cove
Little Rock, Arkansas 72204
(501) 562-3818
Fax (501) 562-5701
E-mail: TBlaylock@epaonline.biz

May 29, 2013

Arkansas State Highway & Transportation Department
P.O. Box 2261 Room 705
Little Rock, AR 72203

RE: Asbestos Survey **Tract 12X**
Job 080395 - Conway South Interchange
Highway 68 (Gr. & Strs.)
Route I-40 Section 32 - Faulkner County

Mr. Joel Clark:

On May 21, 2013, I conducted an asbestos survey at the above referenced location.

Laboratory analysis has determined that the following samples do contain asbestos.

Sample # 12X-05 – Sheetrock and Joint Compound
Sample # 12 X-10 – Flooring - Kitchens

I had the laboratory perform composite sampling on the sheetrock and joint compound. This additional sampling has determined that the Sheetrock and joint compound contains less than 1% of Chrysotile Asbestos.

Federal and state regulations with the exception of OSHA, determine a material to be asbestos containing if it contains 1% or more asbestos. OSHA states that any amount is an asbestos containing material. Therefore the flooring must be removed by a licensed asbestos contractor prior to demolition of the structure. However the sheetrock and Joint Compound may now be considered a Non-Asbestos containing material and left in place for demolition. The demolition contractor will be required to follow the OSHA regulations concerning asbestos.

I have attached my chain of custody and laboratory findings. Please contact me with any questions you may have.

Sincerely,

Gary Nooner
Inspector - License No. 005065

Comments: **Composite Sample all positive Sheetrock and Joint Compound Samples**

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Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Environmental Protection Associates

#9 Remington Cove
Little Rock, AR 72204

Customer Project: Tract 12X- Residential Structure, 20 Moore Lane
Reference #: CAL13055054NT Date: 05/28/13

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 performed. Calibrated liquid refractive oils are used as liquid mounting 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 conjunction 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 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 by 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 detectable 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). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. 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 of 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. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

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Overview of Project Sample Material Containing Asbestos

Customer Project:		Tract 12X- Residential Structure, 20 Moore Lane		CA Labs Project #:	CAL13055054NT
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types	
Sheetrock and Joint Compound/ pink surfaced					
12X-05	5-1	white compound	2% Chrysotile	pink surfaced white compound composite of layers 1 and 2 brown linoleum	
	5-3	composite of layers 1 and 2	<1% Chrysotile		
12X-10	10-5	brown linoleum	24% Chrysotile		

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

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)

This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.

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Polarized Light Asbestiform Materials Characterization

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Little Rock, AR 72204

Phone # 501-562-3818
Fax # 501-562-5701

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Structure, 20 Moore Lane
Turnaround Time:
2 Day

CA Labs Project #:
CAL13055054NT

Date: 05/28/13
Samples Received: 5/24/13 10:30am
Date Of Sampling: 05/21/13
Purchase Order #:

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
12X-01	8	1-1	Ceiling Texture/ tan textured surfacing	y	None Detected	3% ta	97% mi,bi,ve,ca
12X-02	8	2-1	Ceiling Texture/ tan textured surfacing	y	None Detected	3% ta	97% mi,bi,ve,ca
12X-03		3-1	Ceiling Texture/ tan surfaced white compound	n	None Detected		100% mi,bi,ca
12X-04		4-1	Ceiling Texture/ tan surfaced white compound	n	None Detected		100% mi,bi,ca
12X-05		5-1	Sheetrock and Joint Compound/ pink surfaced white compound	n	2% Chrysotile		98% mi,bi,ca
		5-2	white drywall with brown paper	n	None Detected	19% ce 1% fg	80% qu,gy
		5-3	composite of layers 1 and 2	n	<1% Chrysotile	14% ce 1% fg	85% qu,mi,bi,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

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Approved Signatories:



Julio Robles
Analyst



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Leslie Crisp, P.G.

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Chad Lytle

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Sheetrock and Joint Compound/ tan surfaced white							
12X-06		6-1	compound		Positive Stop		
		6-2	white drywall with brown paper		Not Analyzed		
Sheetrock and Joint Compound/ blue surfaced							
12X-07		7-1	white compound	n	None Detected		100% mi,bi,ca
		7-2	white drywall with brown paper	n	None Detected	18% ce 2% fg	80% qu,gy
Sheetrock and Joint Compound/ purple surfaced							
12X-08		8-1	white compound	n	None Detected		100% mi,bi,ca
		8-2	white compound (beneath tape)	y	None Detected		100% mi,ca
		8-3	white drywall with brown paper	n	None Detected	18% ce 1% fg	81% qu,gy

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

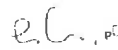
Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line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



Julio Robles
Analyst



QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

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

CA Labs
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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:
Environmental Protection Associates
#9 Remington Cove
Little Rock, AR 72204

Customer Project:
Tract 12X- Residential
Structure, 20 Moore Lane
Turnaround Time:
2 Day

CA Labs Project #:
CAL13055054NT

Date: 05/28/13
Samples Received: 5/24/13 10:30am
Date Of Sampling: 05/21/13
Purchase Order #:

Phone # 501-562-3818
Fax # 501-562-5701

Sample #	Com ment	Layer #	Analysts Physical Subsample Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
Flooring/ tan self-adhesive							
12X-09		9-1	floor tile	y	None Detected		100% qu,gy,ma
		9-2	clear mastic	y	None Detected		100% gy,bi
Flooring/ gray self-adhesive							
12X-10		10-1	floor tile	y	None Detected		100% qu,gy,ma
		10-2	clear mastic	y	None Detected		100% gy,bi
		10-3	tan linoleum	y	None Detected	18% ce 4% fg	78% gy,ma
		10-4	tan mastic	y	None Detected		100% gy,bi
		10-5	brown linoleum	y	24% Chrysotile		76% gy,ma

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

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:



Julio Robles
Analyst



QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

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Structure, 20 Moore Lane
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2 Day

CA Labs Project #:
CAL13055054NT

Date: 05/28/13
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Date Of Sampling: 05/21/13
Purchase Order #:

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
12X-11		11-1	Flooring/ tan linoleum	y	None Detected	17% ce 3% fg	80% gy,ma
		11-2	tan mastic	y	None Detected		100% gy,bi
12X-12		12-1	Flooring/ gray self-adhesive floor tile	y	None Detected		100% qu,gy,ma
		12-2	clear and tan mastic	y	None Detected		100% gy,bi
12X-13		13-1	Roof Shingle/ black roofing shingle with gray gravel	n	None Detected	8% fg	92% qu,bi
		13-2	black felt	y	None Detected	66% ce	34% qu,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-800 / 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	ml - 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:



Julio Robles
Analyst



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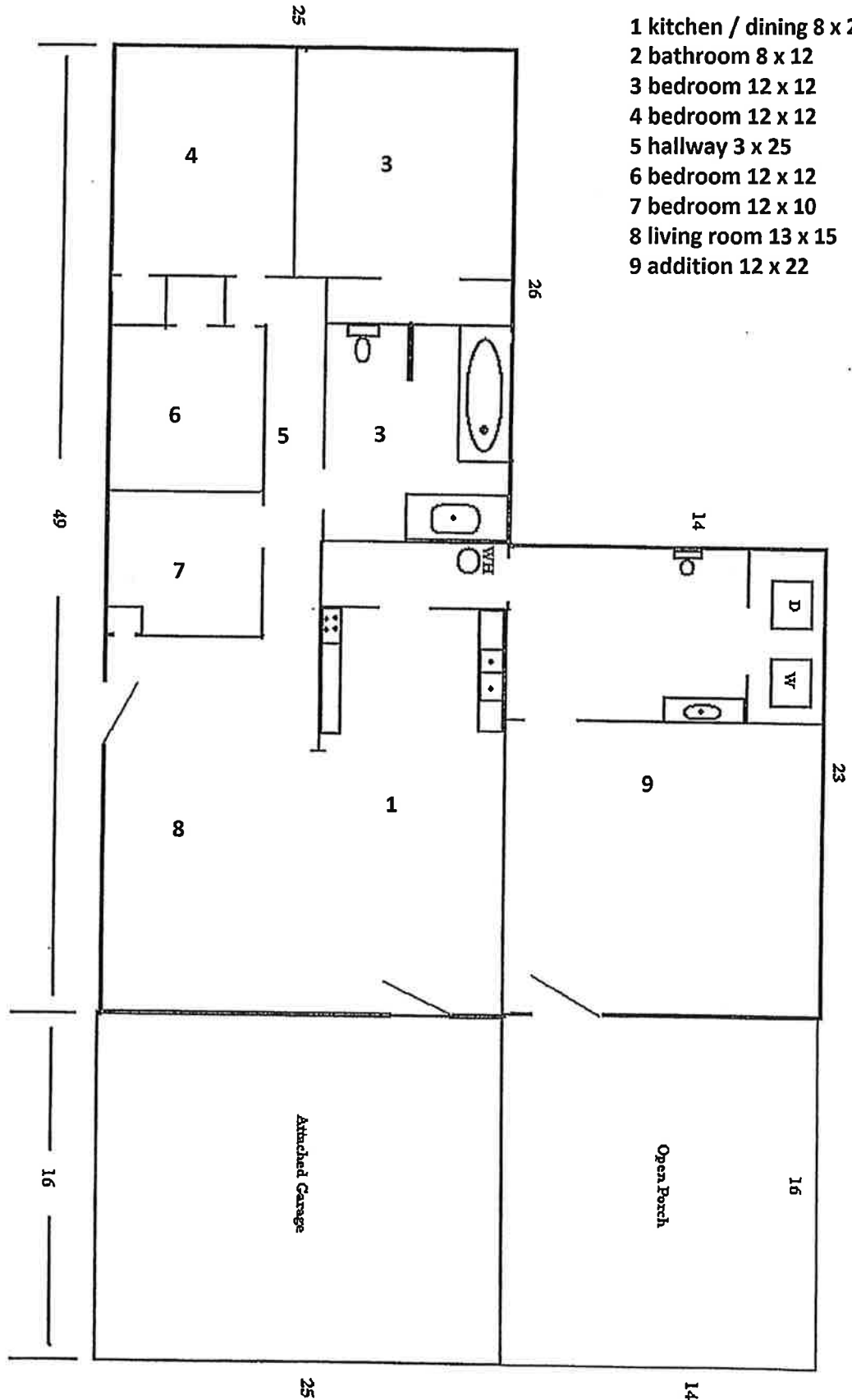
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Chad Lytle

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Tract 12X

- 1 kitchen / dining 8 x 24
- 2 bathroom 8 x 12
- 3 bedroom 12 x 12
- 4 bedroom 12 x 12
- 5 hallway 3 x 25
- 6 bedroom 12 x 12
- 7 bedroom 12 x 10
- 8 living room 13 x 15
- 9 addition 12 x 22



NOT TO SCALE

1,547sf Masonry Veneer, Single Family Dwelling
Tract 12X Job 080395



05-08-2013 02:31

7R12X

05:08:2013-02-32

7812X





05 08 2013 02:33

TR 12



05-08-2013 02:33

TR 127

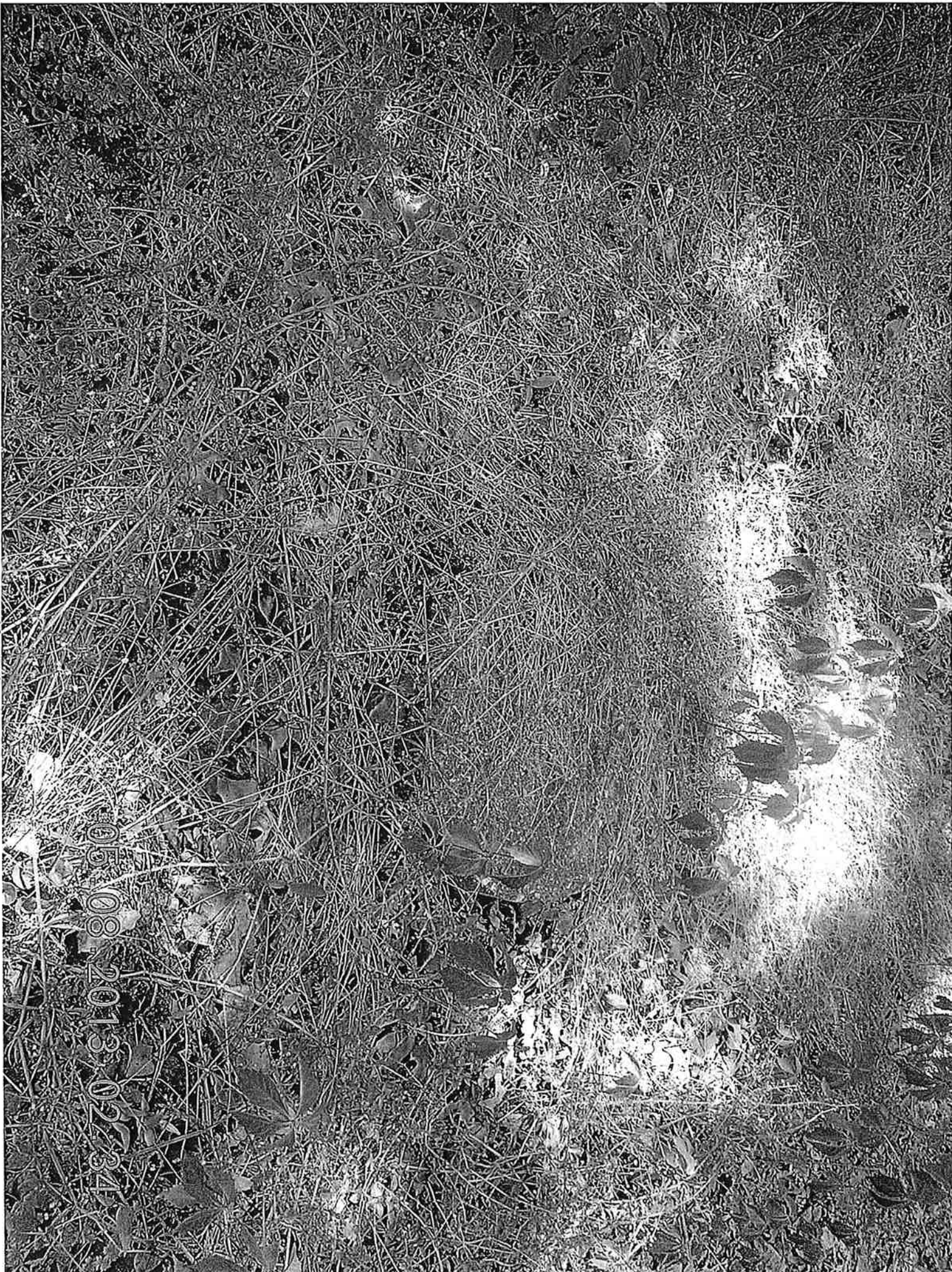


05:08:2013:02:33

TR 12x

7R 12X

05-08-2013 09:34



05-08-2013-02:34

78 12x



05.08.2013 02:35

TR12X





05.08.2013 02:36

TR 12X

05-08-2013 02:40



Arkansas Central Office

#9 Remington Cove
Little Rock, Arkansas 72204
(501) 562-3818
Fax (501) 562-5701
E-mail: TBlaylock@epaonline.biz

May 29, 2013

Arkansas State Highway & Transportation Department
P.O. Box 2261 Room 705
Little Rock, AR 72203

RE: Asbestos Surveys multiple Tracts
Job 080395 - Conway South Interchange
Highway 68 (Gr. & Strs.)
Route I-40 Section 32 -Faulkner County

Mr. Joel Clark:

On May 21, 2013 to May 23, 2013, I conducted asbestos surveys at multiple tracts to determine if asbestos was present.

Laboratory analysis has determined the following Tracts **do not** contain asbestos.

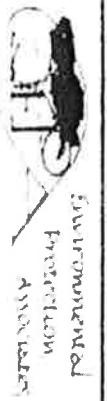
Tract 8X – Residential Structure and Barn – 297 Hwy. 365
Tract 9X – Apartment Structure – 3, 4, 5 & 6 McClure Drive
Tract 14X – Residential Structure – 28 Moore Lane
Tract 23X – Demolished Storage Building – 34 Moore Lane
34 Moore Lane House Trailer not sampled, owner is moving it.
Tract 30X – Residential Structure – 307 Hwy. 365
Tract 76X – Metal Building – 30 Moore Lane

I have attached my chain of custody and laboratory findings. Please contact me with any questions you may have.

Sincerely,

Gary Nooner
Inspector
License No. 005065

Enclosures



Asbestos Sampling Chain of Custody Field Data Sheet

89 Ramington Cove
Little Rock, Arkansas 72204
501-562-3818
Fax 501-562-5701

Client

Arkansas Highway & Transportation Department
Little Rock, AR

Property

Tract 14X - Residential Structure
28 Moore Lane
Mayflower, AR

Inspector

Building ID
Date
Turnaround Time
Normal (2 days)

Cheryl Moore

CA13055049

SAMPLE	Sample Description	Sample Location	A	C	Class (S, T, M)	Friability (F, NF)	Condition (G, D, SD)	Damage (%)	POT DAM (L, M, H)	Quantity
14X-01	Example F11-12 x 12 white floor tile	Bedroom	X		S	F	G	10%	H	1500 sq ft
14X-02	Ceiling Texture	Kitchen		X	S	F	G	10%	H	See Above
14X-03	Ceiling Texture	Bedroom		X	S	F	G	10%	H	See Above
14X-04	Sheetrock and joint compound	Bedroom	X		M	F	G	10%	H	4300 sq ft
14X-05	Sheetrock and joint compound	Hallway		X	M	F	G	10%	H	See Above
14X-06	Sheetrock and joint compound	Bathroom		X	M	F	G	10%	H	See Above
14X-07	Linoleum	Bathroom		X	M	NF	G	10%	H	700 sq ft
14X-08	Linoleum	Kitchen		X	M	NF	G	10%	H	See Above
14X-09	Linoleum	Bathroom		X	M	NF	G	10%	H	See Above

HA - Homogeneous Area A - Analyze C - Catalogue - Analyze only if the previous sample was found to be negative

Class: Sealing, Thermal, Miscellaneous, Friability, Friable, NF-non friable, Condition, G-good, D-damaged, SD-severely damaged, POT DAM - Potential Damage, L-low, Moderate, H-high

Relinquished By	Time	Date	Relinquished By	Time	Date
Received By	Time	Date	Received By	Time	Date

Comments: Composite Sample all positive Sheetrock and Joint Compound Samples

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Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Environmental Protection Associates

#9 Remington Cove
Little Rock, AR 72204

Customer Project: Tract 14X-Residential Structure, 28 Moore Lane
Reference #: CAL13055049RO Date: 5/28/2013

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 performed. Calibrated liquid refractive oils are used as liquid mounting 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 conjunction 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 by 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 detectable 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). CA Labs is also accredited by AIHA LAP, LLC, in the PLM asbestos field of testing for Industrial Hygiene. 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. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

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CA Labs, L.L.C.

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Baton Rouge, LA 70809
Phone 225-751-5632
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Overview of Project Sample Material Containing Asbestos

Customer Project: Tract 14X-Residential Structure, 28 Moore Lane **CA Labs Project #:** CAL13055049RO

Sample #	Layer #	Analysts	Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
----------	---------	----------	-----------------------------------	--	--

No Asbestos Detected.

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

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)

This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.

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Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: **Environmental Protection Associates**
#9 Remington Cove
Little Rock, AR 72204

Phone # 501-562-3818
Fax # 501-562-5701

Customer Project:
Tract 14X-Residential
Structure, 28 Moore Lane
Turnaround Time:
2 Day

CA Labs Project #:
CAL13055049RO

Date: 5/28/2013
Samples Received: 5/24/13 10:30am
Date Of Sampling: 5/22/13
Purchase Order #:

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
14X-01		01-1	Ceiling Texture/ white surfaced white compound	n	None Detected		100% mi,bi,ca
14X-02		02-1	Ceiling Texture/ white surfaced white compound	n	None Detected		100% mi,bi,ca
14X-03		03-1	Ceiling Texture/ white surfaced white compound	n	None Detected		100% mi,bi,ca
14X-04		04-1	Sheetrock and Joint Compound/ tan surfaced white compound	n	None Detected		100% mi,bi,ca
		04-2	white drywall with brown paper	n	None Detected	22% ce	78% qu,gy
14X-05		05-1	Sheetrock and Joint Compound/ tan surfaced white compound	n	None Detected		100% mi,bi,ca
		05-2	white drywall with brown paper	n	None Detected	20% ce	80% qu,gy

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

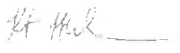
Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)


Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for


identification of asbestos types by dispersion staining / becke line method.

ca - carbonate	mi - mica	ig - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
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Approved Signatories:


Keith Malone
Analyst


QAC
Leslie Crisp, P.G.


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Chad Lytle

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Sheetrock and Joint Compound/ tan surfaced white compound							
14X-06		06-1	compound	n	None Detected		100% mi,bi,ca
		06-2	white drywall with brown paper	n	None Detected	19% ce	81% qu,gy
14X-07							
		07-1	Linoleum/ tan linoleum	y	None Detected	24% ce	76% bi
		07-2	tan mastic	y	None Detected		100% mi,ma
14X-08							
		08-1	Linoleum/ tan linoleum	y	None Detected	25% ce	75% bi
		08-2	tan mastic	y	None Detected		100% mi,ma
14X-09							
		09-1	Linoleum/ tan linoleum	y	None Detected	26% ce	74% bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929


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Approved Signatories:



Keith Malone
Analyst



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Chad Lytle

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----------	-------------	------------	---	-------------------------------	--	--------------------------------------	-------------------------------

09-2 tan mastic

y None Detected

100% mi,ma

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:



Keith Malone
Analyst



QAC
Leslie Crisp, P.G.



Technical Manager
Chad Lytle

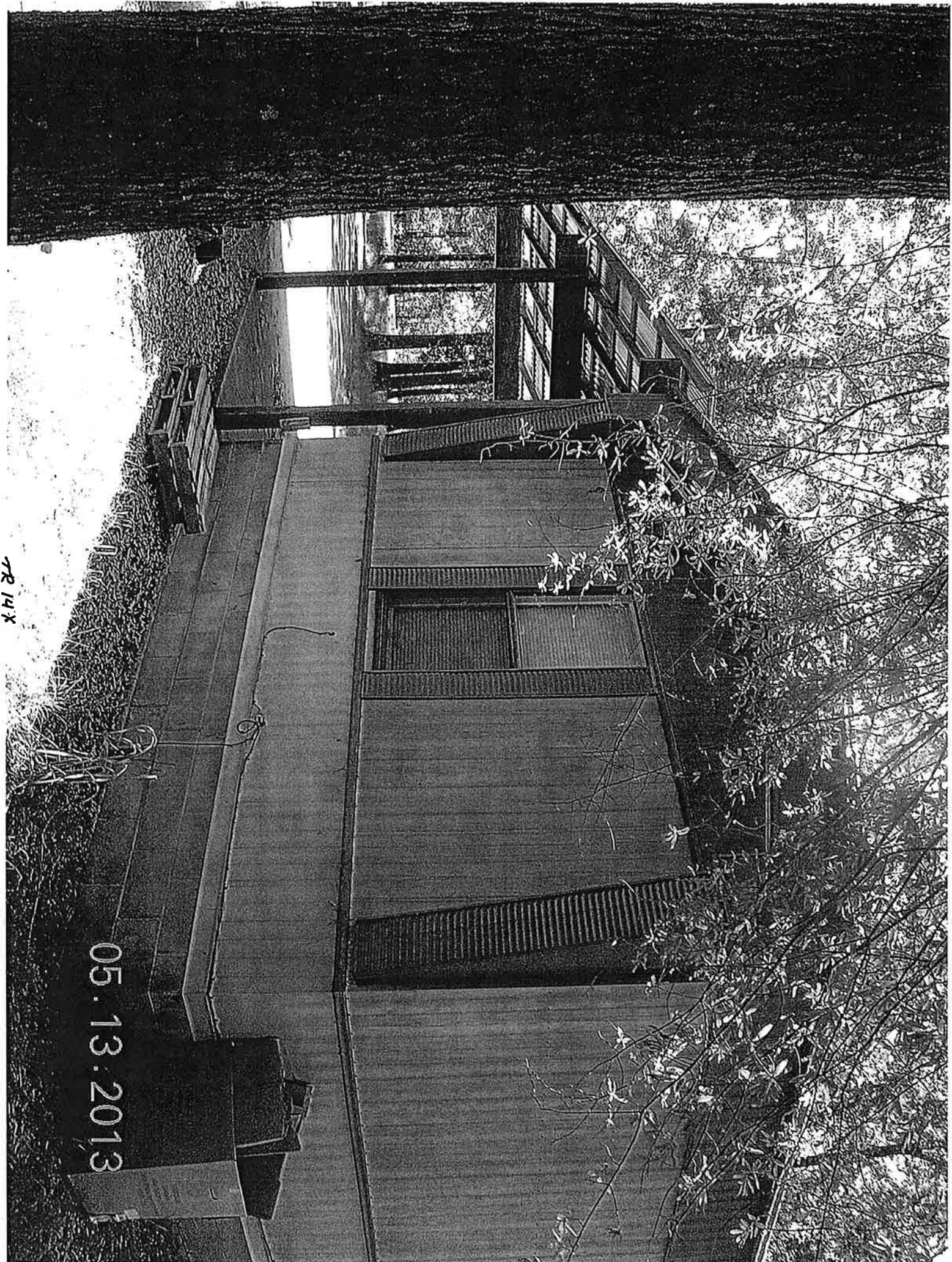
1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damage affecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. 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

05-13-2013

78 14x





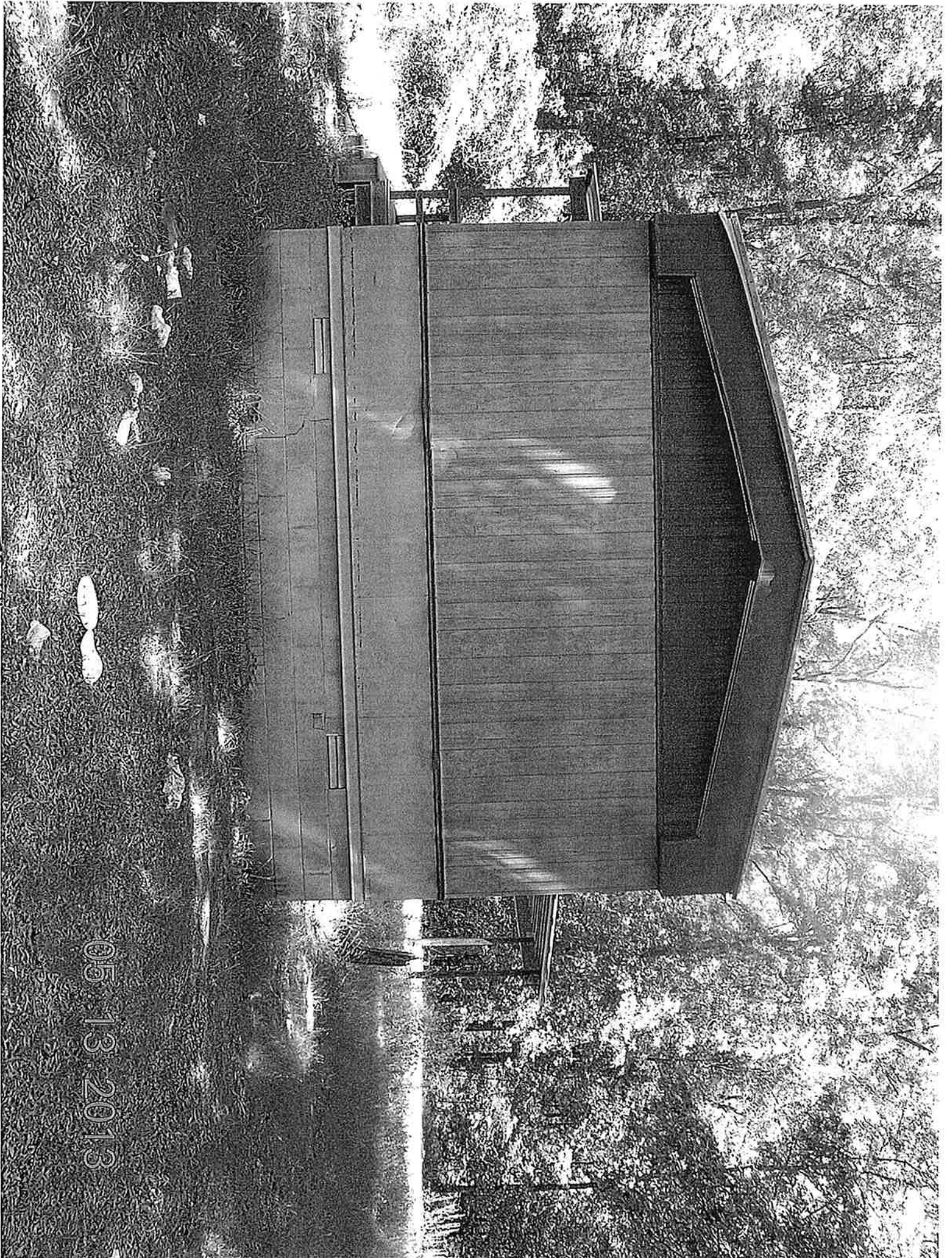
7R 14X

05.13.2013

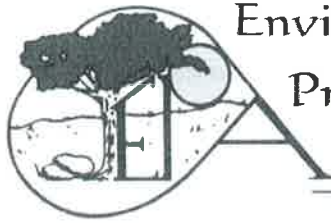
05.13.2013

7K 14x





05-13-2013



Environmental
Protection
Associates

Arkansas Central Office

#9 Remington Cove
Little Rock, Arkansas 72204
(501) 562-3818
Fax (501) 562-5701
E-mail: TBlaylock@epaonline.biz

May 29, 2013

Arkansas State Highway & Transportation Department
P.O. Box 2261 Room 705
Little Rock, AR 72203

RE: Asbestos Surveys multiple Tracts
Job 080395
Conway South Interchange
Highway 68 (Gr. & Strs.)
Route I-40 Section 32
Faulkner County

Mr. Joel Clark:

On May 21, 2013 to May 23, 2013, I conducted asbestos surveys at multiple tracts to determine if asbestos was present.

The following tracts were not sampled.

Tract 22X – 27 Moore Lane – House Trailer has been moved
Tract 31X – Sturgis Road - Shop Building
Tract 23X – 34 Moore Lane House Trailer being moved by owner
34 Moore Lane sampled the demolished storage building.
Tract 39X – tract not on plans

Please contact me with any questions you may have.

Sincerely,

Gary Nooner
Inspector
License No. 005065

Enclosures



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34 Moore Lane sampled the demolished storage building.
Tract 39X – tract not on plans

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Inspector
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Highway 68 (Gr. & Strs.)
Route I-40 Section 32
Faulkner County

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The following tracts were not sampled.

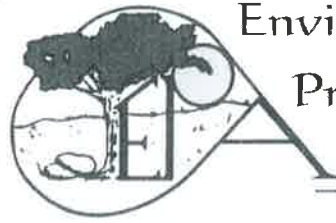
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Tract 23X – 34 Moore Lane House Trailer being moved by owner
34 Moore Lane sampled the demolished storage building.
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Sincerely,

Gary Nooner
Inspector
License No. 005065

Enclosures



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May 29, 2013

Arkansas State Highway & Transportation Department
P.O. Box 2261 Room 705
Little Rock, AR 72203

RE: Asbestos Surveys multiple Tracts
Job 080395 - Conway South Interchange
Highway 68 (Gr. & Strs.)
Route I-40 Section 32 -Faulkner County

Mr. Joel Clark:

On May 21, 2013 to May 23, 2013, I conducted asbestos surveys at multiple tracts to determine if asbestos was present.

Laboratory analysis has determined the following Tracts **do not** contain asbestos.

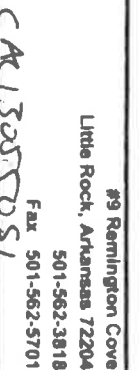
Tract 8X – Residential Structure and Barn – 297 Hwy. 365
Tract 9X – Apartment Structure – 3, 4, 5 & 6 McClure Drive
Tract 14X – Residential Structure – 28 Moore Lane
Tract 23X – Demolished Storage Building – 34 Moore Lane
34 Moore Lane House Trailer not sampled, owner is moving it.
Tract 30X – Residential Structure – 307 Hwy. 365
Tract 76X – Metal Building – 30 Moore Lane

I have attached my chain of custody and laboratory findings. Please contact me with any questions you may have.

Sincerely,

Gary Nooner
Inspector
License No. 005065

Enclosures



FAX 3
CA 13257051

Gary Nooner

Traci 23X

5/22/2013

Normal (2 days)

[illegible]

HA - Homogeneous Area A - Analyze C - Catalogue ♦ - Analyze only if the previous sample was found to be negative.

Class: S-surfacing, T-thermal, M-miscellaneous. Friability: F-friable, NF-non-friable. Condition: G-good, D-damaged, SD-severely damaged. POT, DAM (Potential Damage): L-low, M-moderate, H-high.

Relinquished By *Harry Brown*

Time 1560 Date 5/23/13

Relinquished By

Time _____ Date _____

Received By

Time _____ Date _____

Received By

Time 10:30 Date 2/24/13

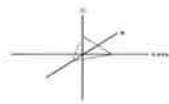
Comments:

Composite Sample all positive Sheetrock and Joint Compound Samples

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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

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Environmental Protection Associates

#9 Remington Cove
Little Rock, AR 72204

Customer Project: Tract 23X - Demolished Storage Building, 34 Moore L
Reference #: CAL13055051CB Date: 5/29/2013

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 performed. Calibrated liquid refractive oils are used as liquid mounting 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 conjunction 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 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 by 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 detectable 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). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. 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. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

CA Labs

Dedicated to
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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

Overview of Project Sample Material Containing Asbestos

Customer Project: Tract 23X - Demolished Storage Building, 34 Moore | **CA Labs Project #:** CAL13055051CB

Sample #	Layer #	Analysts	Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
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No Asbestos Detected.

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

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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Carrollton, TX 75006
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CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
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Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:**
Environmental Protection Associates
#9 Remington Cove
Little Rock, AR 72204

Phone # 501-562-3818
Fax # 501-562-5701

Customer Project:
Tract 23X - Demolished
Storage Building, 34 Moore
Lane
Turnaround Time:
2 Days

CA Labs Project #:
CAL13055051CB
Date: 5/29/2013
Samples Received: 5/24/13 10:30am
Date Of Sampling: 5/22/13
Purchase Order #:

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
23X-01		01-1	Roof/ black roofing shingle with gray gravel	n	None Detected	15% fg	85% qu,bi
		01-2	black felt	y	None Detected	40% fg	60% qu,bi
		01-3	black roofing shingle with black gravel	n	None Detected	14% fg	86% qu,bi
23X-02		02-1	Roof/ black roofing shingle with gray gravel	n	None Detected	16% fg	84% qu,bi
		02-2	black felt	y	None Detected	39% ce	61% qu,bi
		02-3	black roofing shingle with black gravel	n	None Detected	15% fg	85% qu,bi
23X-03		03-1	Roof/ black roofing shingle with gray gravel	n	None Detected	14% fg	86% qu,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

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:



Chris Park
Analyst



QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages affecting 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

CA LabsDedicated 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**Polarized Light Asbestiform Materials Characterization****Customer Info: Attn:****Environmental Protection Associates**#9 Remington Cove
Little Rock, AR 72204

Phone # 501-562-3818

Fax # 501-562-5701

Customer Project:Tract 23X - Demolished
Storage Building, 34 Moore
Lane**Turnaround Time:**

2 Days

CA Labs Project #:

CAL13055051CB

Date:

5/29/2013

Samples Received:

5/24/13 10:30am

Date Of Sampling:

5/22/13

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
03-2	black felt			y	None Detected	41% ce	59% qu,bi
03-3	black roofing shingle with black gravel			n	None Detected	16% fg	84% qu,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

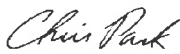
AIHA LAP, LLC Laboratory #102929

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Approved Signatories:

Chris Park
AnalystQAC
Leslie Crisp, P.G.Technical Manager
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May 29, 2013

Arkansas State Highway & Transportation Department
P.O. Box 2261 Room 705
Little Rock, AR 72203

RE: Asbestos Survey **Tract 25X**
Job 080395 - Conway South Interchange
Highway 68 (Gr. & Strs.)
Route I-40 Section 32 -Faulkner County

Mr. Joel Clark:

On May 22, 2013, I conducted an asbestos survey at the above referenced location.

Laboratory analysis has determined that the following samples do contain asbestos.

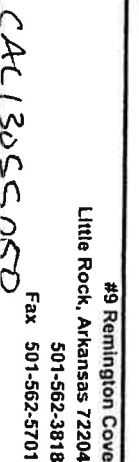
Sample # 25X-12 – Roof Coating – on metal trailer house roof

These materials must be removed by a licensed asbestos contractor prior to demolition of the structure.

I have attached my chain of custody and laboratory findings. Please contact me with any questions you may have.

Sincerely,

Gary Nooner
Inspector
License No. 005065



Gary Nooner

Traci 25X

5/22/2013

Normal (2 days)

[illegible]

HA - Homogeneous Area A - Analyze C - Catalogue ♦ - Analyze only if the previous sample was found to be negative.

Class: S-surfacing, T-thermal, M-miscellaneous. Friability: F-friable, NF-non-friable. Condition: G-good, D-damaged, SD-severely damaged. POT, DAM (Potential Damage): L-low, M-moderate, H-high

Relinquished By	<i>Doug V. Brown</i>	Time	1500	Date	5-23-13
Received By		Time		Date	

Relinquished By	<i>M.A. /</i>	Time		Date	
Received By	<i>M.A. /</i>	Time	10:40 AM	Date	2/29/13

Composite Sample all positive Sheetrock and Joint Compound Samples

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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

Environmental Protection Associates

#9 Remington Cove
Little Rock, AR 72204

Customer Project: Tract 25X - Residential Structure & Storage Bui
Reference #: CAL13055050CB Date: 5/29/2013

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 performed. Calibrated liquid refractive oils are used as liquid mounting 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 conjunction 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 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 by 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.

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Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

CA LabsDedicated to
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Fax 972-242-2798**CA Labs, L.L.C.**12232 Industripex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project:		Tract 25X - Residential Structure & Storage Bui		CA Labs Project #:	CAL13055050CB
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types	
25X-12	12-1	Roof Coating/ silver surfaced black and tan sealant	2% Chrysotile	silver surfaced black and tan sealant	

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

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

ca - carbonate
gypsum - gypsum
bl - blinder
or - organic
ma - matrix
ml - mlca
ve - vermiculite
ot - otherpe - perlite
qu - quartzfg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)

pa - palygorskite (clay)

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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:**
Environmental Protection Associates
#9 Remington Cove
Little Rock, AR 72204Phone # 501-562-3818
Fax # 501-562-5701**Customer Project:**
Tract 25X - Residential
Structure & Storage Bui
Turnaround Time:
2 Days**CA Labs Project #:**
CAL13055050CB**Date:** 5/29/2013
Samples Received: 5/29/13 10:30am
Date Of Sampling: 5/22/13
Purchase Order #:

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
25X-01		01-1	Ceiling Texture/ tan surfaced white compound	n	None Detected		100% qu,mi,ca
25X-02		02-1	Ceiling Texture/ tan surfaced white compound	n	None Detected		100% qu,mi,ca
25X-03		03-1	Textured Sheetrock & Joint Compound/ brown surfaced white compound	n	None Detected		100% mi,bi,ca
		03-2	white compound (beneath tape)	y	None Detected		100% mi,ca
		03-3	white drywall with brown paper	n	None Detected	24% ce	76% qu,gy
25X-04		04-1	Textured Sheetrock & Joint Compound/ brown surfaced white compound	n	None Detected		100% mi,bi,ca
		04-2	white drywall with brown paper	n	None Detected	23% ce	77% qu,gy

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

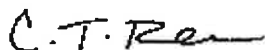

AIHA LAP, LLC Laboratory #102929

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:

Tanner Rasmussen
AnalystQAC
Leslie Crisp, P.G.Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages affecting fibrous percentages
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4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

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8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA LabsDedicated 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**Polarized Light Asbestiform Materials Characterization****Customer Info: Attn:**
Environmental Protection Associates
#9 Remington Cove
Little Rock, AR 72204Phone # 501-562-3818
Fax # 501-562-5701**Customer Project:**
Tract 25X - Residential
Structure & Storage Bui
Turnaround Time:
2 Days**CA Labs Project #:**
CAL13055050CB**Date:** 5/29/2013
Samples Received: 5/29/13 10:30am
Date Of Sampling: 5/22/13
Purchase Order #:


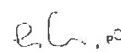
Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
Sheetrock and Joint							
25X-05		05-1	Compound/ brown surfacing	y	None Detected		100% qu,bi
		05-2	white drywall with brown paper	n	None Detected	21% ce	79% qu,gy
Sheetrock and Joint							
25X-06		06-1	Compound/ brown surfacing	y	None Detected		100% qu,bi
		06-2	white drywall with brown paper	n	None Detected	22% ce	78% qu,gy
Sheetrock and Joint							
25X-07		07-1	Compound/ green surfaced white compound	n	None Detected	2% ta	98% mi,bi,ca
		07-2	white drywall with brown paper	n	None Detected	24% ce	76% qu,gy
25X-08		08-1	Flooring/ brown flooring	y	None Detected		100% qu,gy,ma

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929Analysis 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:

Tanner Rasmussen
AnalystQAC
Leslie Crisp, P.G.Technical Manager
Chad Lytle

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Phone 225-751-5632
Fax 225-751-5634**Polarized Light Asbestiform Materials Characterization****Customer Info: Attn:**
Environmental Protection Associates
#9 Remington Cove
Little Rock, AR 72204**Customer Project:**
Tract 25X - Residential
Structure & Storage Bui
Turnaround Time:
2 Days**CA Labs Project #:**
CAL13055050CB**Date:** 5/29/2013**Samples Received:** 5/29/13 10:30am**Date Of Sampling:** 5/22/13**Purchase Order #:**

Phone # 501-562-3818

Fax # 501-562-5701

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
	08-2	tan mastic		y	None Detected		100% gy,bi
25X-09	09-1	Flooring/ brown flooring		y	None Detected		100% qu,gy,ma
	09-2	tan mastic		y	None Detected		100% gy,bi
25X-10	10-1	Flooring under Plywood/ tan linoleum		y	None Detected	29% ce	71% qu,gy,ma
	10-2	tan mastic		y	None Detected		100% gy,bi
25X-11	11-1	Roof Shingle/ black roofing shingle with gray gravel		n	None Detected	12% fg	88% qu,bi
	11-2	black felt		y	None Detected	31% ce	69% qu,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

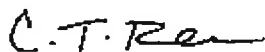

AIHA LAP, LLC Laboratory #102929

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:

Tanner Rasmussen
AnalystQAC
Leslie Crisp, P.G.Technical Manager
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Fax 225-751-5634**Polarized Light Asbestiform Materials Characterization****Customer Info: Attn:**
Environmental Protection Associates
#9 Remington Cove
Little Rock, AR 72204

Phone # 501-562-3818

Fax # 501-562-5701

Customer Project:Tract 25X - Residential
Structure & Storage Bui**Turnaround Time:**

2 Days

CA Labs Project #:

CAL13055050CB

Date: 5/29/2013**Samples Received:** 5/29/13 10:30am**Date Of Sampling:** 5/22/13**Purchase Order #:**

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
Roof Coating/ silver surfaced							
25X-12		12-1	black and tan sealant	n	2% Chrysotile		98% qu,bi
Roof Shingle/ black roofing							
25X-13		13-1	shingle with gray gravel	n	None Detected	13% fg	87% qu,bi
			black roofing shingle with black				
		13-2	gravel	n	None Detected	12% fg	88% qu,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

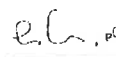
Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)

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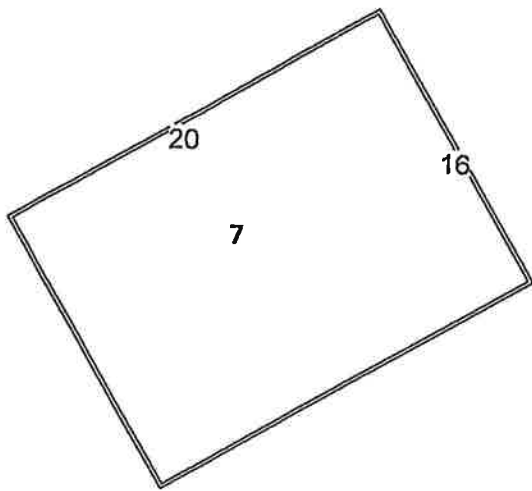
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Approved Signatories:

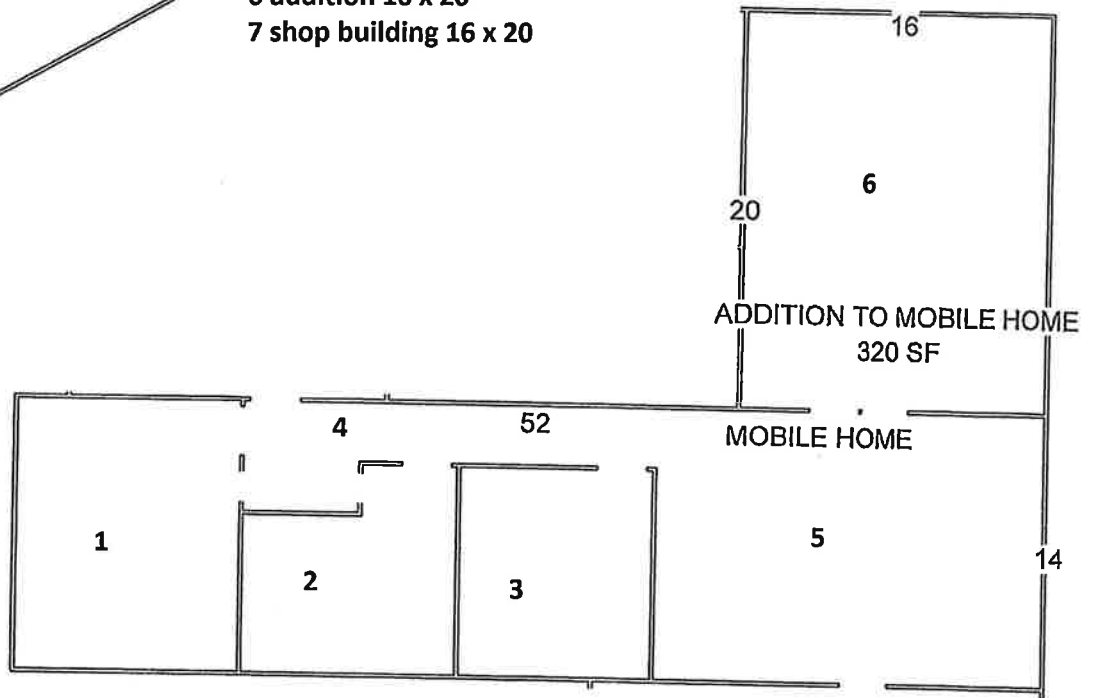
Tanner Rasmussen
AnalystQAC
Leslie Crisp, P.G.Technical Manager
Chad Lytle

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10. TEM analysis suggested



- 1 bedroom 10 x 14
- 2 bathroom 10 x 8
- 3 bedroom 10 x 8
- 4 hallway 3 x 16
- 5 living / kitchen 14 x 24
- 6 addition 16 x 20
- 7 shop building 16 x 20



TRACT 25X



05-13-2013



05.13.2013



05-13-2013

TR 25X



05.13.2013

7R25X

05.13.2013

7825X



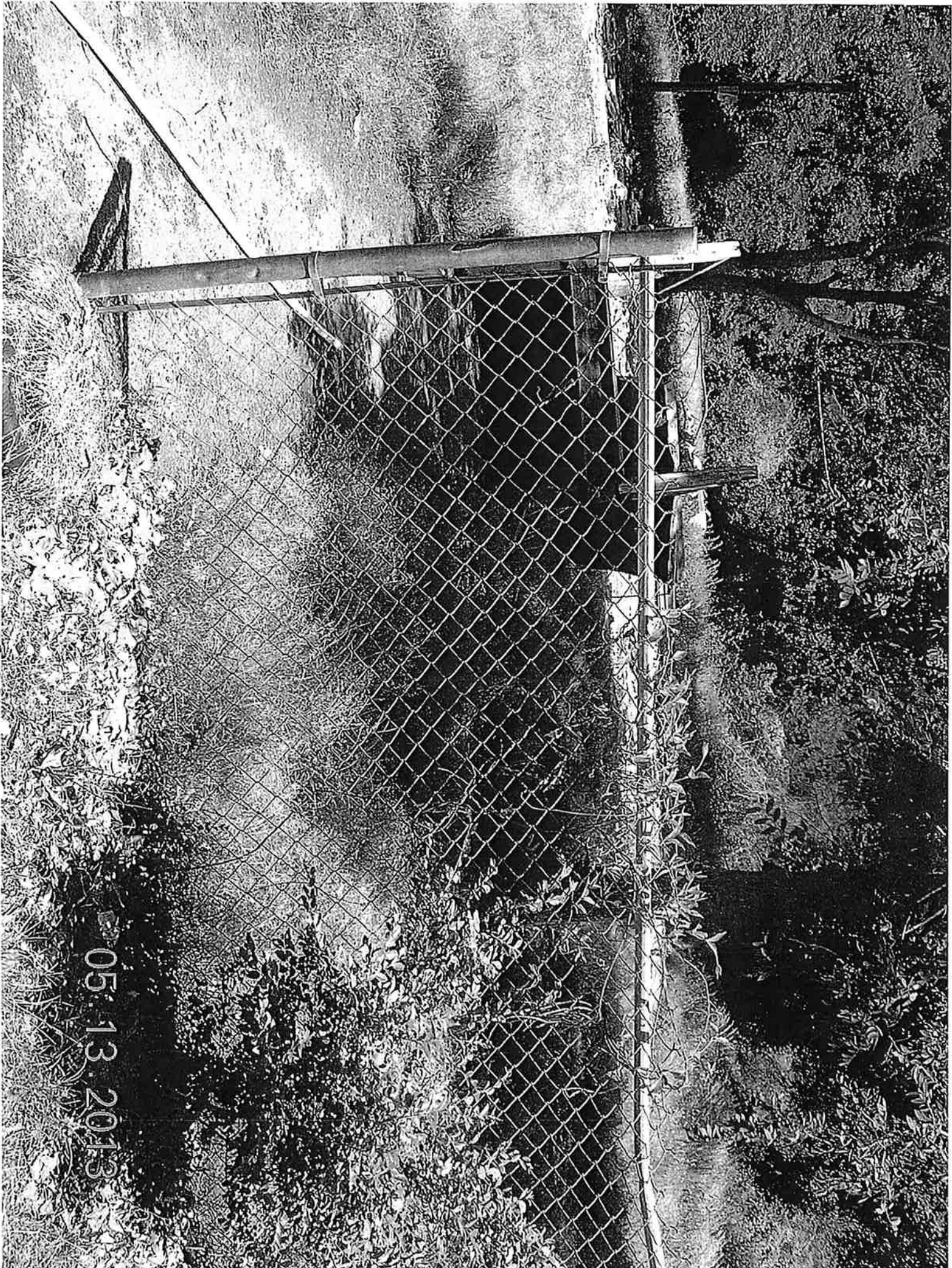
05-13-2013

7R28X



05.13.2013

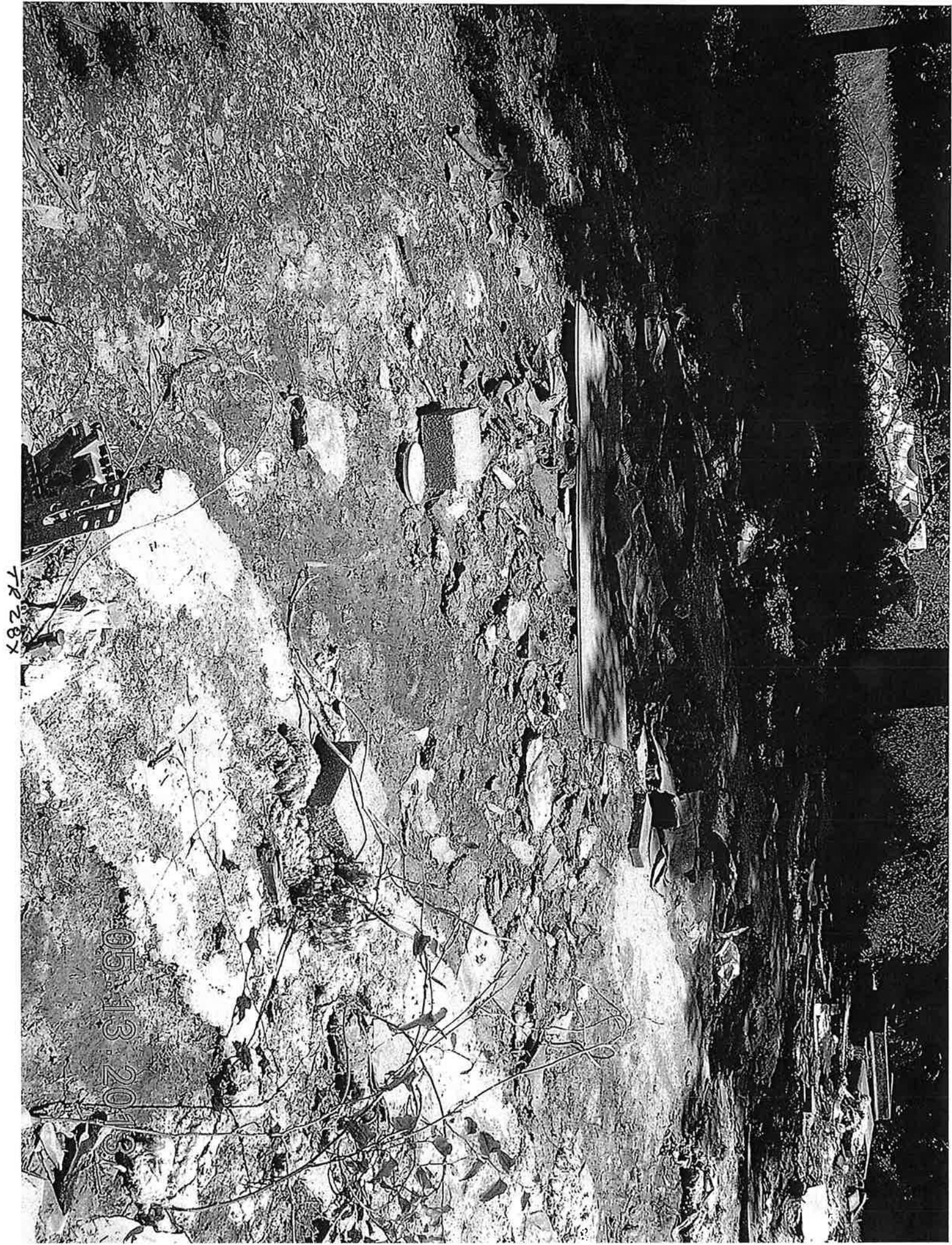
7R 28X



05-13-2013

7R28X





7R28X

05-13-2013





Arkansas Central Office

#9 Remington Cove
Little Rock, Arkansas 72204
(501) 562-3818
Fax (501) 562-5701
E-mail: TBlaylock@epaonline.biz

May 29, 2013

Arkansas State Highway & Transportation Department
P.O. Box 2261 Room 705
Little Rock, AR 72203

RE: Asbestos Survey **Tract 29X**
Job 080395 - Conway South Interchange
Highway 68 (Gr. & Strs.)
Route I-40 Section 32 - Faulkner County

Mr. Joel Clark:

On May 23, 2013, I conducted an asbestos survey at the above referenced location.

Laboratory analysis has determined that the following samples do contain asbestos.

Sample # 29X-01 – Ceiling Texture

These materials must be removed by a licensed asbestos contractor prior to demolition of the structure.

I have attached my chain of custody and laboratory findings. Please contact me with any questions you may have.

Sincerely,

Gary Nooner
Inspector
License No. 005065

#9 Remington Cove
Little Rock, Arkansas 72204
501-562-3818
Fax 501-562-5701
C443055056

Gary Nunner

Traci 29X

5/23/2013

Normal (2 days)

[illegible]

HA - Homogeneous Area A - Analyze C - Catalogue ♦ - Analyze only if the previous sample was found to be negative

Class: S-surfacing, T-thermal, M-miscellaneous. **Friability:** F-friable, NF-non-friable. **Condition:** G-good, D-damaged, SD-severely damaged. **POT. DAM (Potential Damage):** L-low, M-moderate, H-high

Date

Date 7/24/13

Composite Sample all positive Sheetrock and Joint Compound Samples

CA Labs

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Quality

Crisp Analytical, L.L.C.

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**CA Labs, L.L.C.**

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Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Environmental Protection Associates

#9 Remington Cove
Little Rock, AR 72204

Customer Project: Tract 29X - Residential Structure, 305 Highway 365
Reference #: CAL13055056CB Date: 5/29/2013

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 performed. Calibrated liquid refractive oils are used as liquid mounting 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 conjunction 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 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 by 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 detectable by PLM analysis and should be analyzed by TEM bulk protocols.

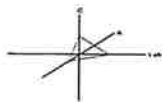
A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

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). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. 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 of 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. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

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Overview of Project Sample Material Containing Asbestos

Customer Project: Tract 29X - Residential Structure, 305 Highway 365 **CA Labs Project #:** CAL13055056CB

Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
29X-01	01-1	Ceiling Texture/ white textured surfacing	3% Chrysotile	white textured surfacing

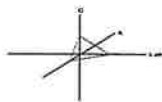
Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

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 - otherpe - perlite
qu - quartzfg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)

pa - palygorskite (clay)

This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.

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Polarized Light Asbestiform Materials Characterization

Customer Info: Attn:**Environmental Protection Associates**#9 Remington Cove
Little Rock, AR 72204

Phone # 501-562-3818

Fax # 501-562-5701

Customer Project:Tract 29X - Residential
Structure, 305 Highway 365**Turnaround Time:**

2 Days

CA Labs Project #:

CAL13055056CB

Date: 5/29/2013**Samples Received:** 5/24/13 10:30am**Date Of Sampling:** 5/23/13**Purchase Order #:**

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
29X-01		01-1	Ceiling Texture/ white textured surfacing	y	3% Chrysotile		97% mi,bi,ve,ca
29X-02		02-1	Ceiling Texture/ white textured surfacing		Positive Stop		
29X-03		03-1	Ceiling Texture/ white textured surfacing		Positive Stop		
29X-04		04-1	Floor Tile and Mastic/ tan floor tile	y	None Detected		100% qu,ca
		04-2	tan mastic	y	None Detected		100% gy,bi
		04-3	tan linoleum	y	None Detected	22% ce	78% gy,ma
29X-05		05-1	Floor Tile and Mastic/ tan floor tile	y	None Detected		100% qu,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

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:

Julio Robles
Analyst

QAC
Leslie Crisp, P.G.Technical Manager
Chad Lytle

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Customer Project:Tract 29X - Residential
Structure, 305 Highway 365**Turnaround Time:**

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	05-2	tan mastic		y	None Detected		100% gy,bi
	05-3	tan linoleum		y	None Detected	20% ce	80% gy,ma
29X-06		06-1	Linoleum/ tan self-adhesive floor tile	y	None Detected		100% qu,gy,ma
	06-2	tan mastic		y	None Detected		100% gy,bi
	06-3	tan linoleum		y	None Detected	18% ce 2% fg	80% gy,ma
	06-4	tan mastic		y	None Detected		100% gy,bi
29X-07		07-1	Linoleum/ tan floor tile	y	None Detected		100% qu,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

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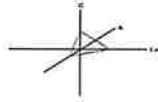
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Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages affecting 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

CA LabsDedicated 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**Polarized Light Asbestiform Materials Characterization****Customer Info: Attn:****Environmental Protection Associates**#9 Remington Cove
Little Rock, AR 72204

Phone # 501-562-3818

Fax # 501-562-5701

Customer Project:Tract 29X - Residential
Structure, 305 Highway 365**Turnaround Time:**

2 Days

CA Labs Project #:

CAL13055056CB

Date: 5/29/2013**Samples Received:** 5/24/13 10:30am**Date Of Sampling:** 5/23/13**Purchase Order #:**

Sample #	Com ment	Layer #	Analysts Physical Subsample Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
07-2	tan mastic			y	None Detected		100% gy,bi
07-3	tan linoleum			y	None Detected	19% ce 1% fg	80% gy,ma
29X-08	Roof Shingle/ black roofing shingle with black gravel	08-1		n	None Detected	10% fg	90% qu,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

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
bl - 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:

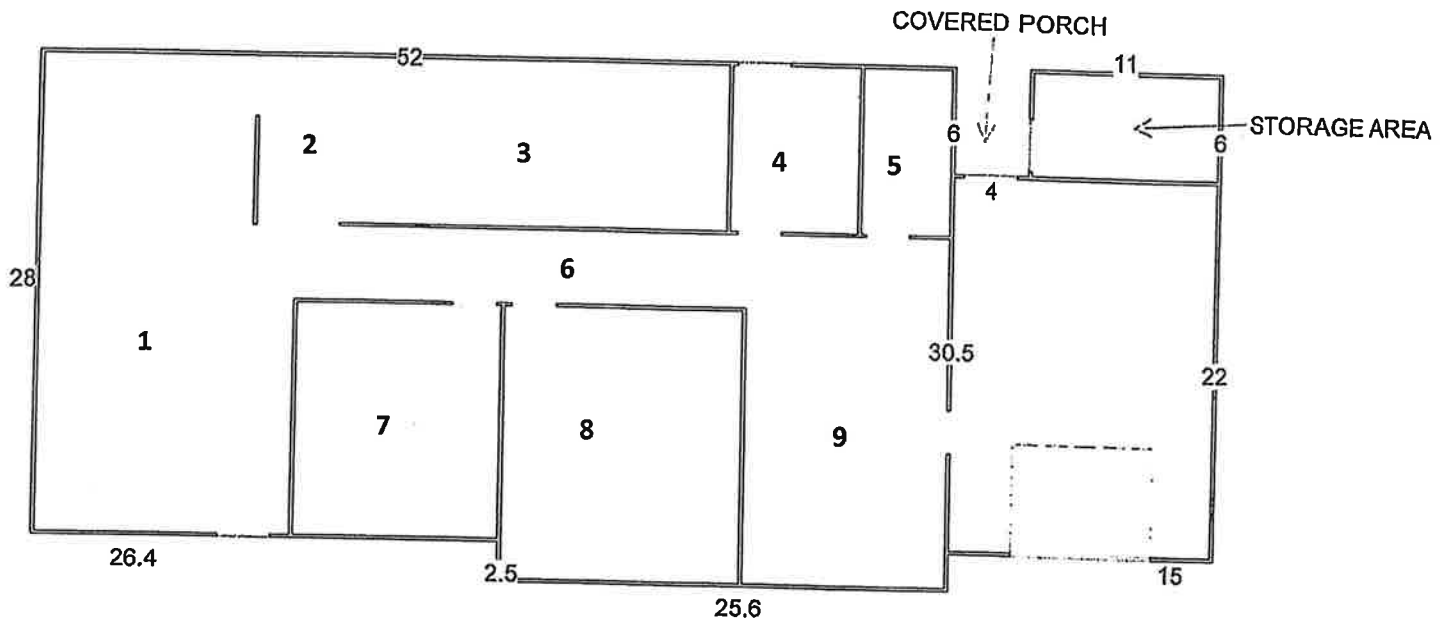
Julio Robles
Analyst

QAC
Leslie Crisp, P.G.Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages affecting 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

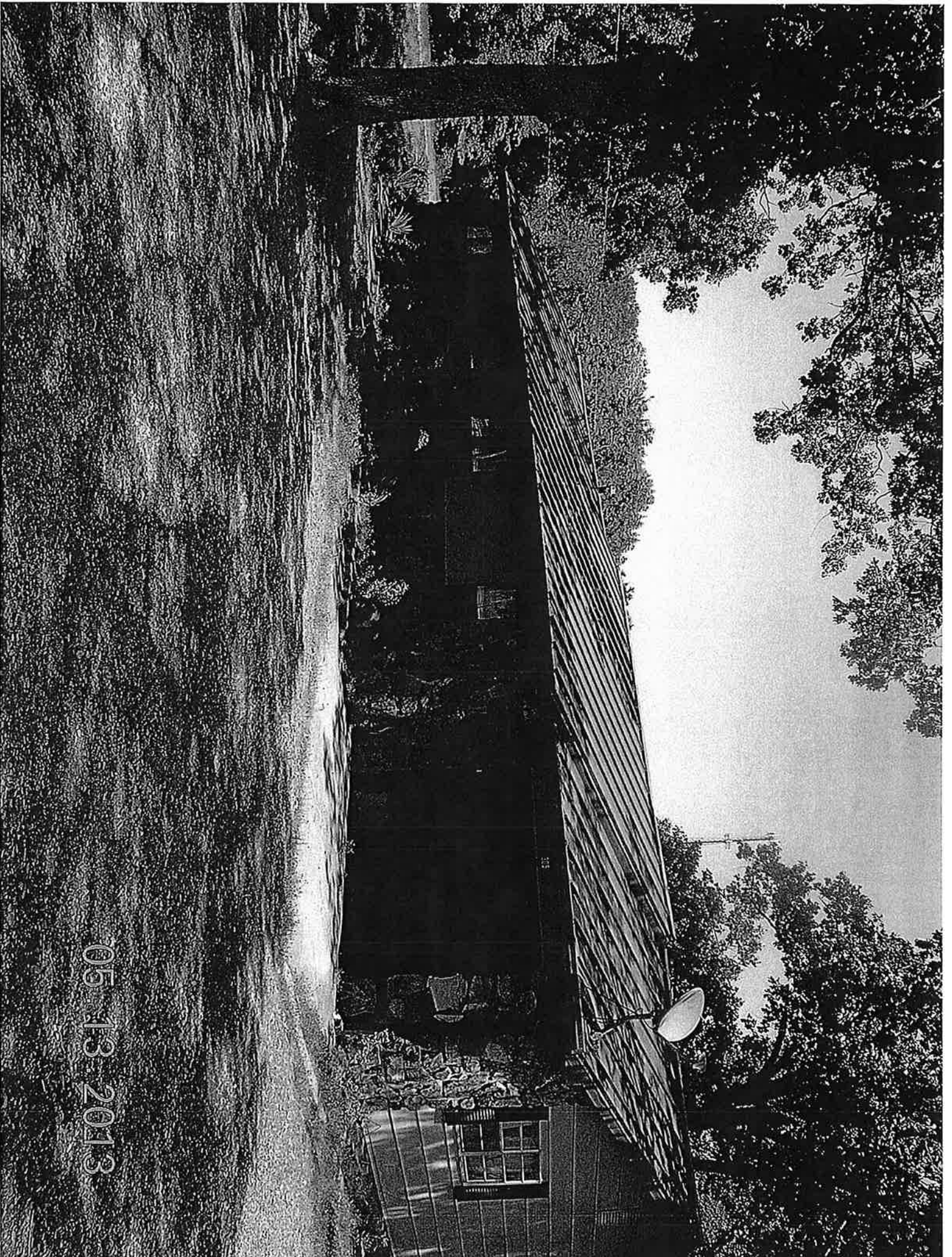
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

- 1 living room 15 x 25
- 2 dining room 13 x 8
- 3 kitchen 11 x 8
- 4 bathroom 14 x 9
- 5 bathroom 5 x 12
- 6 hallway 3 x 20
- 7 bedroom 10 x 15
- 8 bedroom 12 x 15
- 9 den 12 x 20

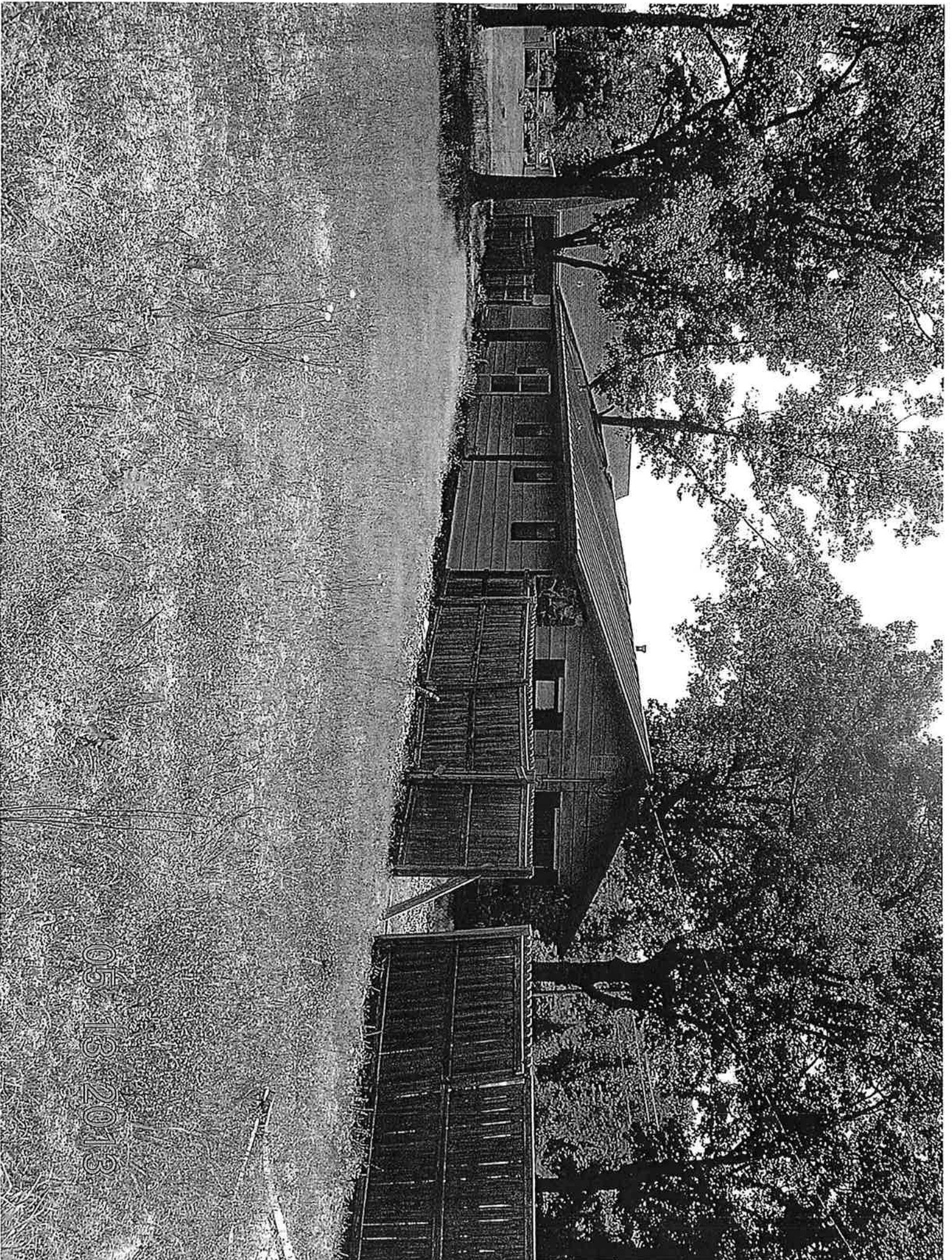


JOB 080395
TRACT 29X
TOTAL SQUARE FEET 1,520
GARAGE 330 S.F.
STORAGE 66 S.F.

Tract 29X



05-13-2013



05-13-2013



7R 29 X

05/13/2013



05-13-2013



05-13-2013

7R29X



05-13-2013

7R 29X



Arkansas Central Office

#9 Remington Cove
Little Rock, Arkansas 72204
(501) 562-3818
Fax (501) 562-5701
E-mail: TBlaylock@epaonline.biz

May 29, 2013

Arkansas State Highway & Transportation Department
P.O. Box 2261 Room 705
Little Rock, AR 72203

RE: Asbestos Surveys multiple Tracts
Job 080395 - Conway South Interchange
Highway 68 (Gr. & Strs.)
Route I-40 Section 32 -Faulkner County

Mr. Joel Clark:

On May 21, 2013 to May 23, 2013, I conducted asbestos surveys at multiple tracts to determine if asbestos was present.

Laboratory analysis has determined the following Tracts **do not** contain asbestos.

Tract 8X – Residential Structure and Barn – 297 Hwy. 365
Tract 9X – Apartment Structure – 3, 4, 5 & 6 McClure Drive
Tract 14X – Residential Structure – 28 Moore Lane
Tract 23X – Demolished Storage Building – 34 Moore Lane
34 Moore Lane House Trailer not sampled, owner is moving it.
Tract 30X – Residential Structure – 307 Hwy. 365
Tract 76X – Metal Building – 30 Moore Lane

I have attached my chain of custody and laboratory findings. Please contact me with any questions you may have.

Sincerely,

Gary Nooner
Inspector
License No. 005065

Enclosures

Client

Arkansas Highway & Transportation Department

Little Rock, AR

Property

Tract 30X - Residential Structure

307 Highway 365

Mayflower, AR

Inspector

Building ID

Data

Turnaround Time

Gary Nooner

Traci 30X

5/22/2013

Normal (2 days)

[illegible]

HA - Homogeneous Area A - Analyze C - Catalogue ♦ - Analyze only if the previous sample was found to be negative.

Q: Qual: S-surfacing, T-thermal, M-miscellaneous. Friability: F-friable, NF-non-friable. Condition: G-good, D-damaged, SD-severely damaged. POT, DAM/Potential Damage: L-low, M-moderate, H-high

Relinquished By	Date	Time	Relinquished By	Date	Time
<i>[Signature]</i>	5/25/13	1:56			

Received By	Date	Received By	Date
<i>[Signature]</i>	10/30/94	<i>[Signature]</i>	2/24/94

Composite Sample all positive Sheetrock and Joint Compound Samples

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Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Environmental Protection Associates

#9 Remington Cove
Little Rock, AR 72204

Customer Project: Tract 30X-Residential Structure, 307 Highway 365
Reference #: CAL13055058NT Date: 05/28/13

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 performed. Calibrated liquid refractive oils are used as liquid mounting 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 conjunction 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 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 by 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 detectable by PLM analysis and should be analyzed by TEM bulk protocols.

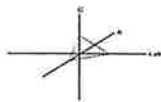
A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

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). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. 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 of 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. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

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 Industripex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project: Tract 30X-Residential Structure, 307 Highway 365 **CA Labs Project #:** CAL13055058NT

Sample #	Layer #	Analysts	Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
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No Asbestos Detected.

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

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 - otherpe - perlite
qu - quartzfg - 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, 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:
Environmental Protection Associates
#9 Remington Cove
Little Rock, AR 72204

Phone # 501-562-3818
Fax # 501-562-5701

Customer Project:
Tract 30X-Residential
Structure, 307 Highway 365
Turnaround Time:
2 Day

CA Labs Project #:
CAL13055058NT

Date: 05/28/13
Samples Received: 5/24/13 10:30am
Date Of Sampling: 05/22/13
Purchase Order #:

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
30X-01		1-1	Ceiling Texture/ white surfaced white compound	n	None Detected		100% mi,bi,ca
30X-02		2-1	Ceiling Texture/ white surfaced white compound	n	None Detected		100% mi,bi,ca
30X-03		3-1	Ceiling Texture/ white surfaced white compound	n	None Detected		100% mi,bi,ca
30X-04		4-1	Sheetrock and Joint Compound/ blue surfaced white compound	n	None Detected		100% mi,bi,ca
		4-2	white drywall with brown paper	n	None Detected	9% ce 2% fg	89% qu,gy
30X-05		5-1	Sheetrock and Joint Compound/ tan surfaced white compound	n	None Detected		100% mi,bi,ca
		5-2	white compound (beneath tape)	y	None Detected		100% qu,mi,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

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:

Chris Park

Chris Park
Analyst

Leslie Crisp

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages affecting 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

CA Labs
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Carrollton, TX 75006
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Fax 972-242-2798

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

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn:
Environmental Protection Associates
#9 Remington Cove
Little Rock, AR 72204

Phone # 501-562-3818
Fax # 501-562-5701

Customer Project:
Tract 30X-Residential
Structure, 307 Highway 365
Turnaround Time:
2 Day

CA Labs Project #:
CAL13055058NT

Date: 05/28/13
Samples Received: 5/24/13 10:30am
Date Of Sampling: 05/22/13
Purchase Order #:

Sample #	Com ment	Layer #	Analysts Physical Subsample	Hom- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		5-3	white drywall with brown paper	n	None Detected	8% ce 2% fg	90% qu,gy
			Sheetrock and Joint Compound/ orange surfaced				
30X-06		6-1	white compound	n	None Detected		100% mi,bi,ca
		6-2	white compound (beneath tape)	y	None Detected		100% qu,mi,ca
		6-3	white drywall with brown paper	n	None Detected	8% ce 3% fg	89% qu,gy
			Roof Shingle/ black roofing				
30X-07		7-1	shingle with gray gravel	n	None Detected	6% fg	94% qu,bi
		7-2	black felt	y	None Detected	20% ce	80% qu,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

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:



Chris Park
Analyst



QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages affecting 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



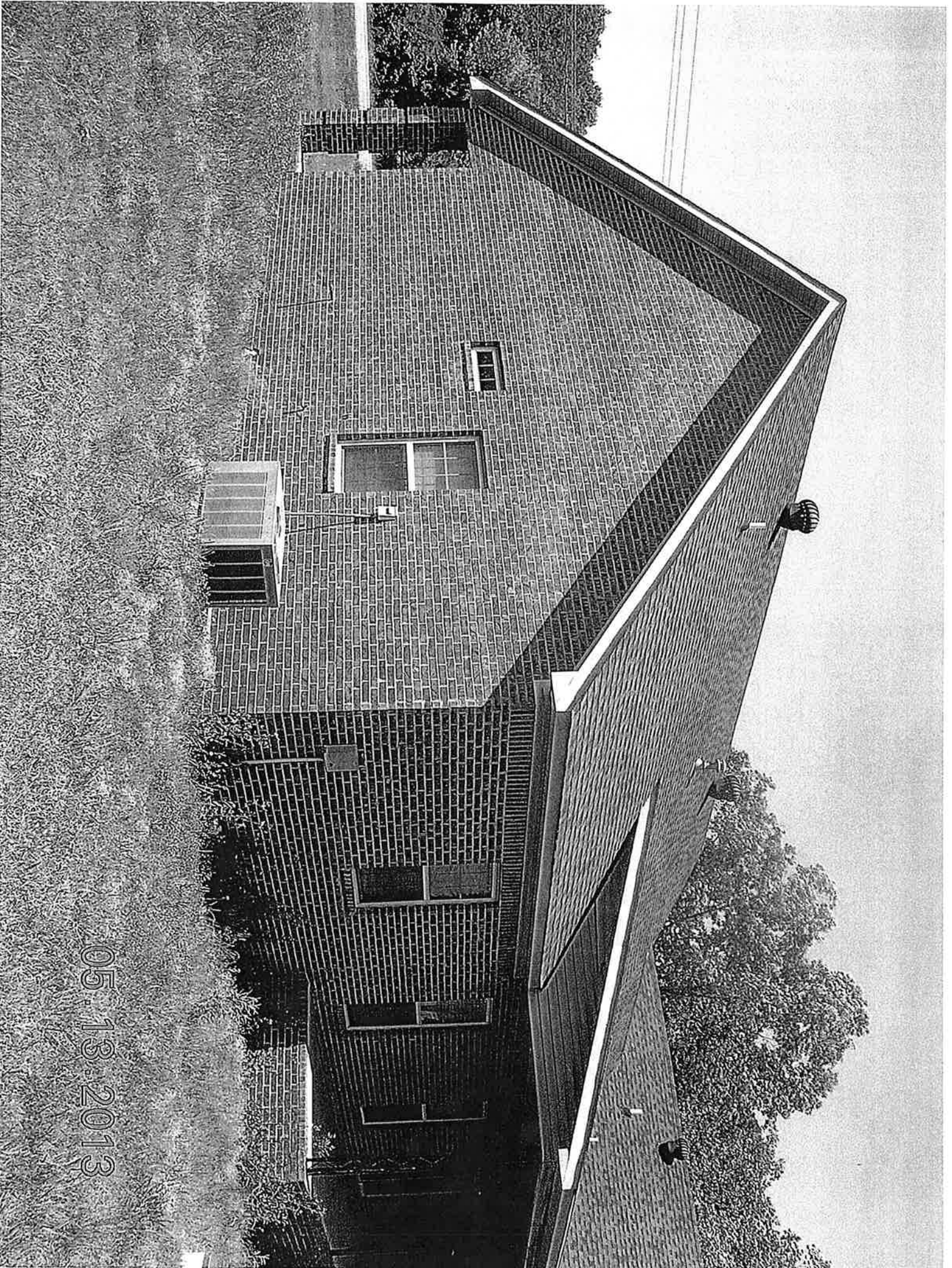
05-13-2013



05-13-2013



05-13-2013



7R30X

05.18.2013

05-13-2013

7K 30X





Arkansas Central Office

#9 Remington Cove
Little Rock, Arkansas 72204
(501) 562-3818
Fax (501) 562-5701
E-mail: TBlaylock@epaonline.biz

May 29, 2013

Arkansas State Highway & Transportation Department
P.O. Box 2261 Room 705
Little Rock, AR 72203

RE: Asbestos Survey **Tract 33X**
Job 080395 - Conway South Interchange
Highway 68 (Gr. & Strs.)
Route I-40 Section 32 - Faulkner County

Mr. Joel Clark:

On May 21, 2013, I conducted an asbestos survey at the above referenced location.

Laboratory analysis has determined that the following samples do contain asbestos.

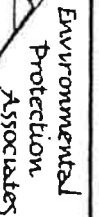
Sample # 33X-09 – Flooring - bathroom

These materials must be removed by a licensed asbestos contractor prior to demolition of the structure.

I have attached my chain of custody and laboratory findings. Please contact me with any questions you may have.

Sincerely,

Gary Nooner
Inspector
License No. 005065



Asbestos Sampling Chain of Custody

Field Data Sheet

#9 Remington Cove
Little Rock, Arkansas 72204
501-562-3818
Fax 501-562-5701
C44305C057

Client

Arkansas Highway & Transportation Department
Little Rock, AR

Property

Tract 33X - Residential Structure

3669 Sturqis Road

Mayflower, AR

Inspector

Building ID

Data

Turnaround Time

Gann, Altonner

Traci 33X

5/21/2013

Mammal (2 days)

[illegible]

HA - Homogeneous Area A - Analyze C - Catalogue ♦ - Analyze only if the previous sample was found to be negative.

Class: S-surfacing, T-thermal, M-miscellaneous. **Reliability:** F-finite, NF-non-finite. **Condition:** G-good, D-damaged, SD-severely damaged. **POT. DAM (Potential Damage):** L-low, M-moderate, H-high

Relinquished By

Heaven - Heaven

Time 1500

Date 5-23-12

Relinquished By

Time Date

Date _____

Received By

Time

Date _____

Received By _____

Time

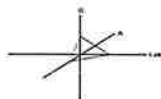
Date 8/24/13

Comments:

Composite Sample all positive Sheetrock and Joint Compound Samples

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Baton Rouge, LA 70809
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Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Environmental Protection Associates

#9 Remington Cove
Little Rock, AR 72204

Customer Project: Tract 33X-Residential Structure, 369 Sturgis Road
Reference #: CAL13055057NT Date: 05/29/13

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 performed. Calibrated liquid refractive oils are used as liquid mounting 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 conjunction 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 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 by 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 detectable 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). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. 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 of 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. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

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12232 Industripex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project: Tract 33X-Residential Structure, 369 Sturgis Road **CA Labs Project #:** CAL13055057NT

Sample #	Layer #	Analysts Subsample	Physical Description of	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
----------	---------	--------------------	-------------------------	--	--

33 12X-09	9-5		tan linoleum	24% Chrysotile	tan linoleum
--------------	-----	--	--------------	----------------	--------------

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

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

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

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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:
Environmental Protection Associates
#9 Remington Cove
Little Rock, AR 72204

Phone # 501-562-3818
Fax # 501-562-5701

Customer Project:
Tract 33X-Residential
Structure, 369 Sturgis Road
Turnaround Time:
2 Day

CA Labs Project #:
CAL13055057NT

Date: 05/29/13
Samples Received: 5/24/13 10:30am
Date Of Sampling: 05/21/13
Purchase Order #:

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
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33 12X-01	8	1-1	Ceiling Texture/ tan textured surfacing	y	None Detected		100% mi,bi,ve,ca
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33 12X-02	8	2-1	Ceiling Texture/ tan textured surfacing	y	None Detected		100% mi,bi,ve,ca
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33 12X-03	8	3-1	Ceiling Texture/ tan surfaced white compound	y	None Detected		100% mi,bi,ve,ca
-----------	---	-----	---	---	----------------------	--	------------------

33 12X-04		4-1	Sheetrock and Joint Compound/ tan surfaced white compound	n	None Detected		100% mi,bi,ca
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		4-2	white compound (beneath tape)	n	None Detected		100% mi,ca
--	--	-----	--------------------------------------	---	----------------------	--	------------

		4-3	white drywall with brown paper	y	None Detected	19% ce 1% fg	80% qu,gy
--	--	-----	---------------------------------------	---	----------------------	-----------------	-----------

33 12X-05		5-1	Sheetrock and Joint Compound/ tan surfaced white compound	n	None Detected		100% mi,bi,ca
-----------	--	-----	--	---	----------------------	--	---------------

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

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:



Julio Robles
Analyst



QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

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

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 Industripex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn:
Environmental Protection Associates
#9 Remington Cove
Little Rock, AR 72204

Phone # 501-562-3818
Fax # 501-562-5701

Customer Project:
Tract 33X-Residential
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Purchase Order #:

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
----------	-------------	------------	---	-------------------------------	--	--------------------------------------	-------------------------------

5-2	white compound (beneath tape)	n	None Detected			100% mi,ca	
-----	-------------------------------	---	---------------	--	--	------------	--

5-3	white drywall with brown paper	y	None Detected		18% ce 2% fg	80% qu,gy	
-----	--------------------------------	---	---------------	--	-----------------	-----------	--

Sheetrock and Joint

Compound/ tan surfaced white
compound

6-1	compound	n	None Detected			100% mi,bi,ca	
-----	----------	---	---------------	--	--	---------------	--

6-2	white compound (beneath tape)	n	None Detected			100% mi,ca	
-----	-------------------------------	---	---------------	--	--	------------	--

6-3	white drywall with brown paper	y	None Detected		18% ce 1% fg	81% qu,gy	
-----	--------------------------------	---	---------------	--	-----------------	-----------	--

Flooring Under Wood tan

7-1	linoleum	n	None Detected		20% ce 3% fg	77% gy,ma	
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Flooring Under Wood tan

8-1	linoleum	y	None Detected		22% ce 2% fg	76% gy,ma	
-----	----------	---	---------------	--	-----------------	-----------	--

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

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

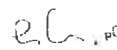
identification of asbestos types by dispersion attaining / becke line method.

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 - perillite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

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Leslie Crisp, P.G.

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9. < 1% Result point counted positive
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Polarized Light Asbestiform Materials Characterization

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Environmental Protection Associates
#9 Remington Cove
Little Rock, AR 72204

Customer Project:
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Structure, 369 Sturgis Road
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CA Labs Project #:
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Date Of Sampling: 05/21/13
Purchase Order #:

Phone # 501-562-3818
Fax # 501-562-5701

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
----------	-------------	------------	--	-------------------------------	--	--------------------------------------	-------------------------------

33 42 X-09			Flooring Under Wood/ tan				
	9-1		ceramic tile	y	None Detected		100% qu,ca
	9-2		gray mortar	y	None Detected		100% qu,ca
	9-3		tan linoleum	y	None Detected	22% ce 3% fg	75% gy,ma
	9-4		tan mastic	y	None Detected		100% gy,bi
	9-5		tan linoleum	y	24% Chrysotile		76% gy,ma
4	9-6	tan mastic					

33 42 X-10	10-1	Roof Shingle	n	None Detected	6% ce	94% qu,bi
	Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235					

AIHA LAP, LLC Laboratory #102929

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
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bl - 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:



Julio Robles
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Leslie Crisp, P.G.

Technical Manager
Chad Lytle

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Polarized Light Asbestiform Materials Characterization

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Little Rock, AR 72204

Phone # 501-562-3818
Fax # 501-562-5701

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Structure, 369 Sturgis Road
Turnaround Time:
2 Day

CA Labs Project #:
CAL13055057NT

Date: 05/29/13
Samples Received: 5/24/13 10:30am
Date Of Sampling: 05/21/13
Purchase Order #:

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
10-2	clear mastic			n	None Detected	8% fg	92% qu,bi
10-3	tan linoleum			n	None Detected	7% ce	93% qu,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

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.

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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:



Julio Robles
Analyst



QAC
Leslie Crisp, P.G.

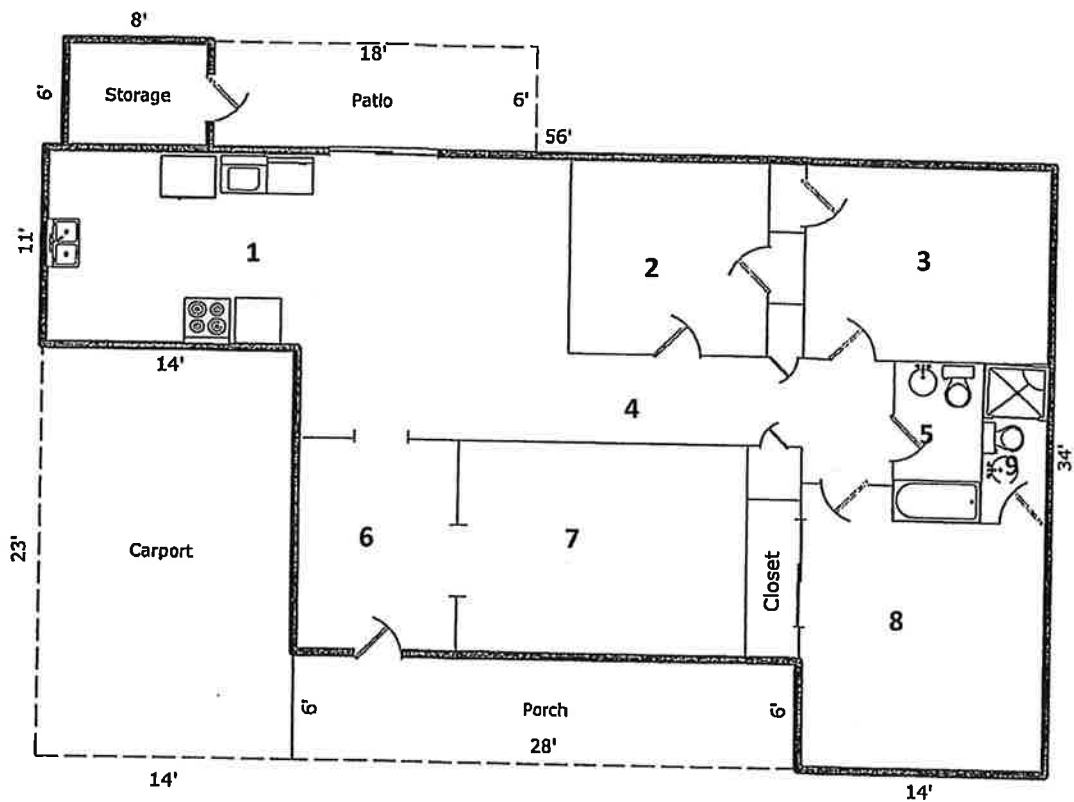
Technical Manager
Chad Lytle

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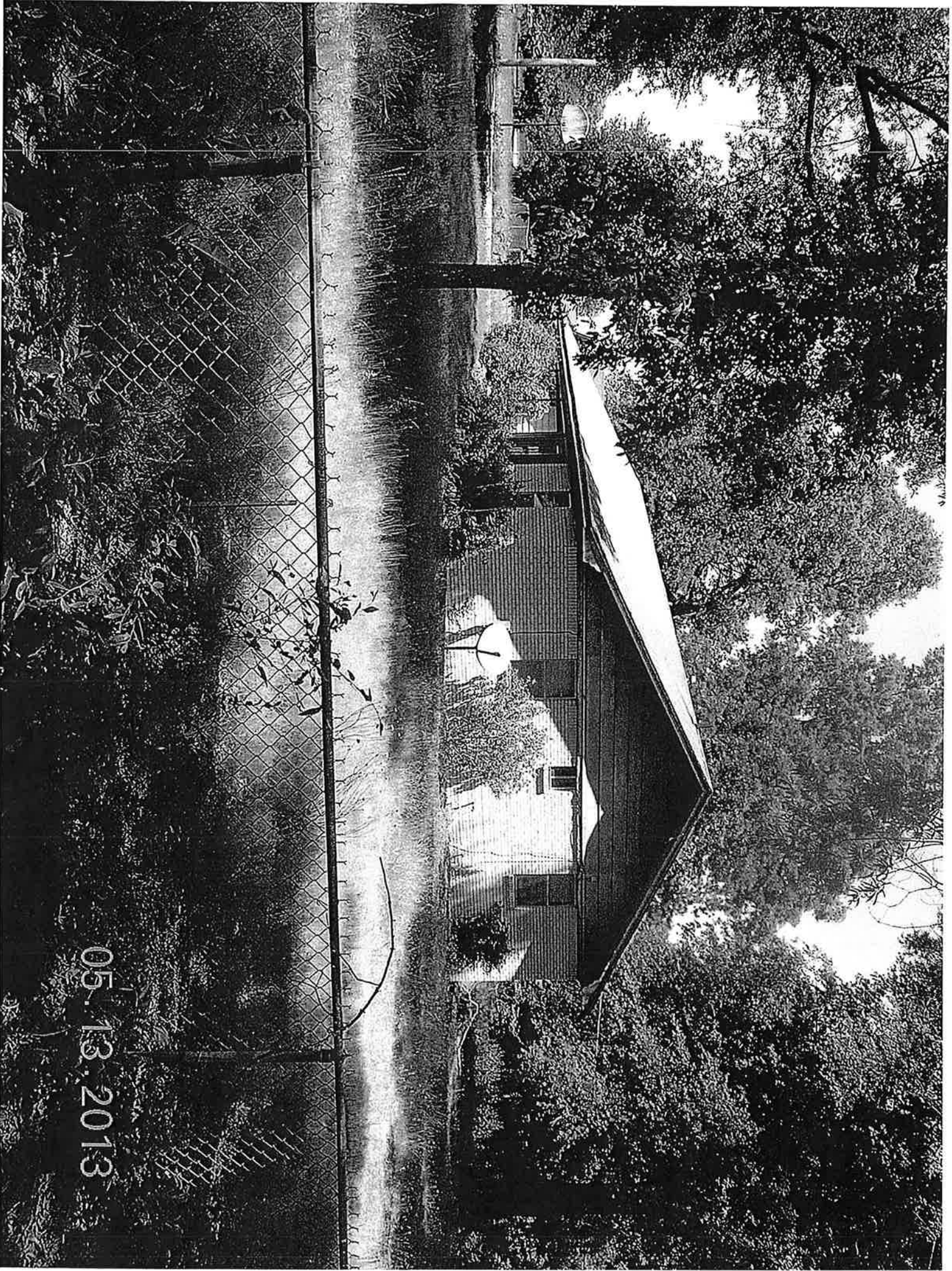
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8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

080395 - Tr33X, 369 Sturgis Rd., Conway, AR

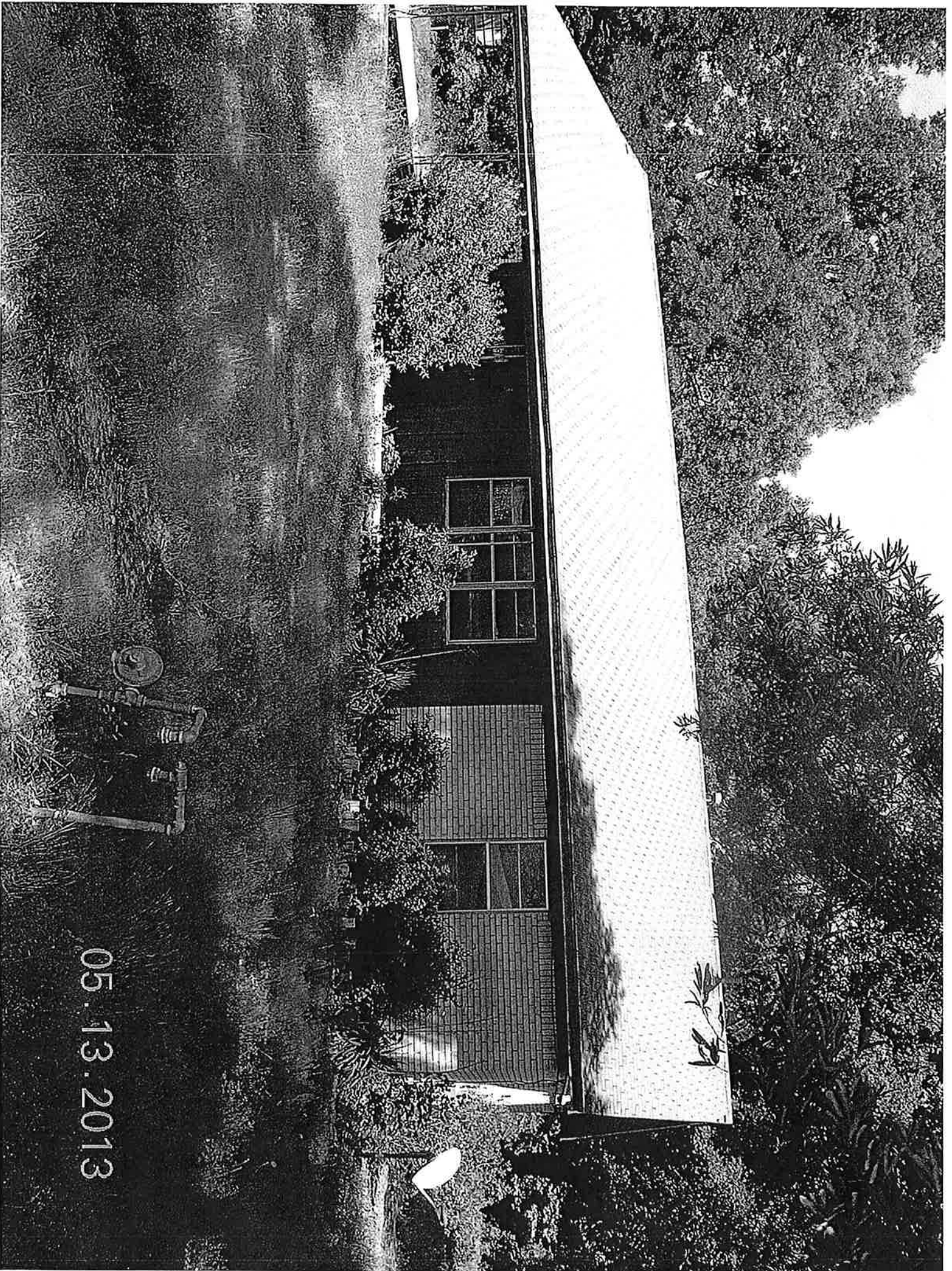
Tract 33X



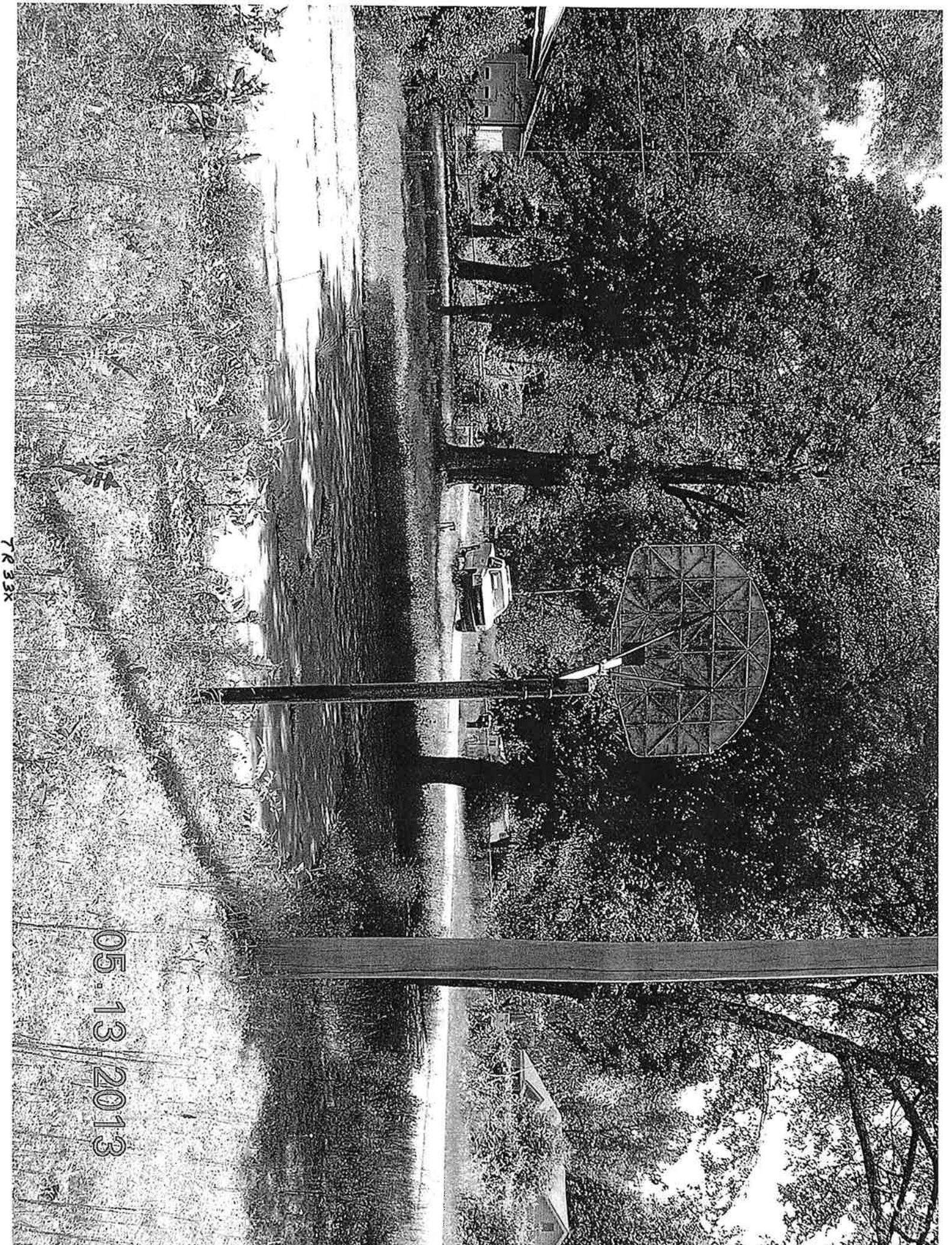
- 1 kitchen / dining 25 x 12
- 2 bedroom 10 x 12
- 3 bedroom 10 x 16
- 4 hallway 3 x 20
- 5 bathroom 5 x 9
- 6 entryway 10 x 12
- 7 living room 12 x 14
- 8 bedroom 12 x 15
- 9 bathroom 5 x 9



05.13.2013

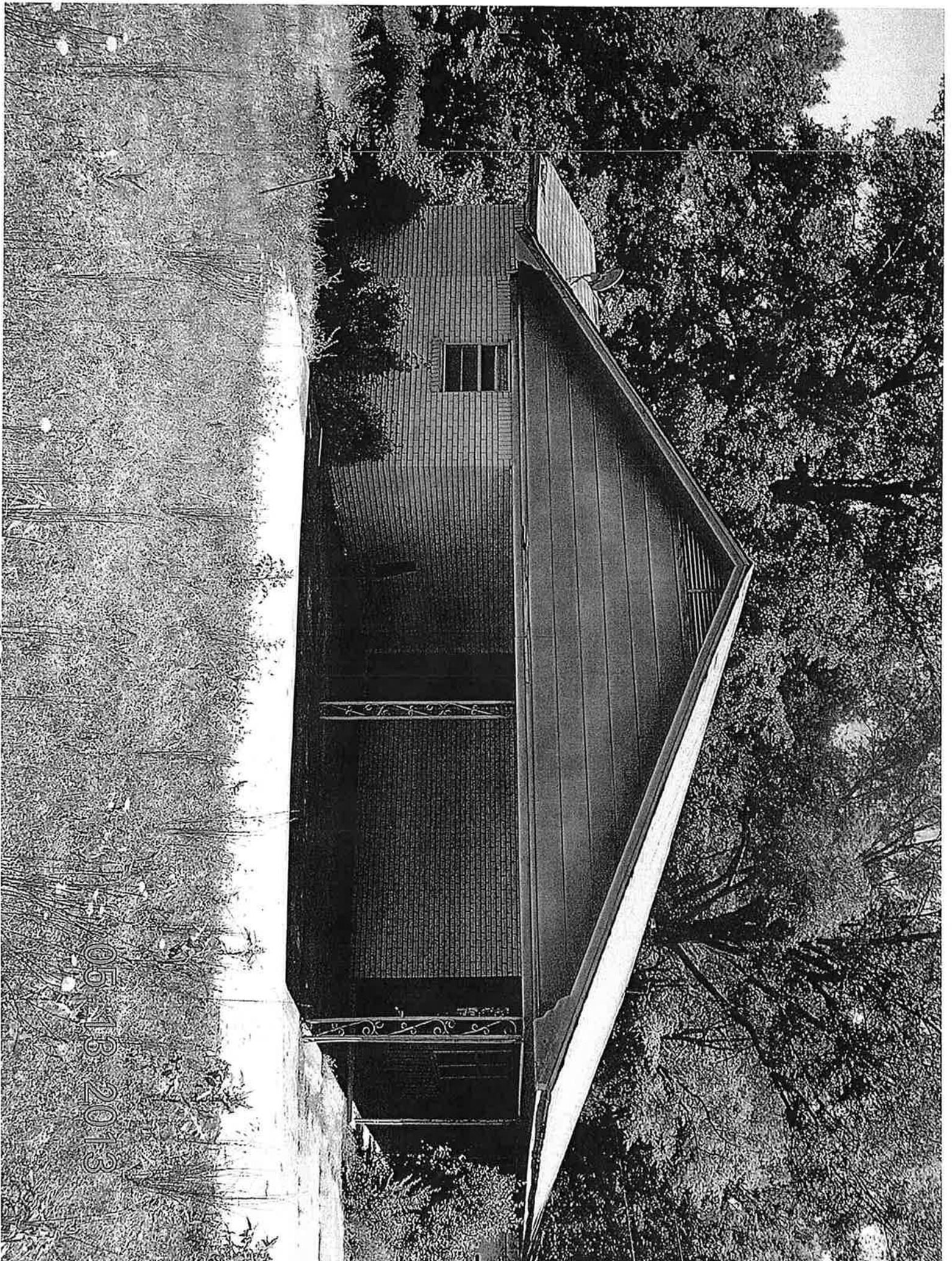


05.13.2013



05.13.2013

7R33X



05-13-2013



05-13-2013



Arkansas Central Office

#9 Remington Cove
Little Rock, Arkansas 72204
(501) 562-3818
Fax (501) 562-5701
E-mail: TBlaylock@epaonline.biz

May 29, 2013

Arkansas State Highway & Transportation Department
P.O. Box 2261 Room 705
Little Rock, AR 72203

RE: Asbestos Survey **Tract 34X**
Job 080395 - Conway South Interchange
Highway 68 (Gr. & Strs.)
Route I-40 Section 32 - Faulkner County

Mr. Joel Clark:

On May 21, 2013, I conducted an asbestos survey at the above referenced location.

Laboratory analysis has determined that the following samples do contain asbestos.

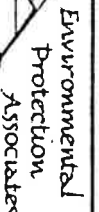
Sample # 34X-07 – Flooring - Kitchen
Sample # 34X-08 - Flooring - laundry rooms

These materials must be removed by a licensed asbestos contractor prior to demolition of the structure.

I have attached my chain of custody and laboratory findings. Please contact me with any questions you may have.

Sincerely,

Gary Nooner
Inspector
License No. 005065



Field Data Sheet

#9 Remington Co
Little Rock, Arkansas 722
501-562-38

Normal (2 days)

[illegible]

HA - Homogeneous Area A - Analyze C - Catalogue ♦ - Analyze only if the previous sample was found to be negative

Class: S-surfacing, T-thermal, M-miscellaneous. Friability: F-friable, NF-non-friable. Condition: G-good, D-damaged, SD-severely damaged. POT, DAM (Potential Damage): L-low, M-moderate, H-high

Relinquished By	<i>Dany Moun</i>	Time	1:50	Date	5/23/13
Received By		Time		Date	

Relinquished By		Time		Date	
Received By	<i>Moun</i>	Time	10:50	Date	2/24/13

Composite Sample all positive Sheetrock and Joint Compound Samples

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Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Environmental Protection Associates

#9 Remington Cove
Little Rock, AR 72204

Customer Project: Tract 34X-Residential Structure, 367 Sturgis Road
Reference #: CAL13055052NT Date: 05/28/13

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 performed. Calibrated liquid refractive oils are used as liquid mounting 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 conjunction 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 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 by 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 detectable 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). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. 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 of 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. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

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Overview of Project Sample Material Containing Asbestos

Customer Project:		Tract 34X-Residential Structure, 367 Sturgis Road		CA Labs Project #:	CAL13055052NT
Sample #	Layer #	Analysts	Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
34X-07	7-5		tan linoleum	22% Chrysotile	tan linoleum
34X-08	8-3		tan linoleum	24% Chrysotile	

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

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

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

This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.

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Polarized Light Asbestiform Materials Characterization

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34X-02	8	2-1	Ceiling Texture/ tan textured surfacing	y	None Detected		100% mi,bi,ve,ca
34X-03	8	3-1	Ceiling Texture/ tan textured surfacing	y	None Detected		100% mi,bi,ve,ca
34X-04		4-1	Sheetrock and Joint Compound/ tan surfaced white compound	n	None Detected		100% mi,bi,ca
		4-2	white compound (beneath tape)	y	None Detected		100% mi,ca
		4-3	white drywall with brown paper	n	None Detected	18% ce 2% fg	80% qu,gy
34X-05		5-1	Sheetrock and Joint Compound/ tan surfaced white compound	n	None Detected		100% mi,bi,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

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	5-2		white compound (beneath tape)	y	None Detected		100% mi,ca
	5-3		white drywall with brown paper	n	None Detected	19% ce 1% fg	80% qu,gy
			Sheetrock and Joint Compound/ tan surfaced white				
34X-06	6-1		compound	n	None Detected		100% mi,bi,ca
	6-2		white compound (beneath tape)	y	None Detected		100% mi,ca
	6-3		white drywall with brown paper	n	None Detected	19% ce 2% fg	79% qu,gy
			Flooring/ brown self-adhesive				
34X-07	7-1		floor tile	y	None Detected		100% qu,gy,ma
	7-2		black and brown mastic	n	None Detected		100% gy,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929


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 - perite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:



Julio Robles
Analyst



QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
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8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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**Polarized Light Asbestiform Materials Characterization****Customer Info: Attn:**
Environmental Protection Associates
#9 Remington Cove
Little Rock, AR 72204

Phone # 501-562-3818

Fax # 501-562-5701

Customer Project:Tract 34X-Residential
Structure, 367 Sturgis Road
Turnaround Time:
2 Day**CA Labs Project #:**

CAL13055052NT

Date: 05/28/13**Samples Received:** 5/24/13 10:30am**Date Of Sampling:** 05/21/13**Purchase Order #:**

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
7-3	tan linoleum			y	None Detected	18% ce 4% fg	78% gy,ma
7-4	tan mastic			y	None Detected		100% gy,bi
7-5	tan linoleum			y	22% Chrysotile		78% gy,ma
4	7-6	tan mastic					
34X-08	Flooring/ gray self-adhesive 8-1 floor tile			y	None Detected		100% qu,gy,ma
	8-2 clear mastic			y	None Detected		100% gy,bi
	8-3 tan linoleum			y	24% Chrysotile		76% gy,ma

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)

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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:Julio Robles
AnalystQAC
Leslie Crisp, P.G.Technical Manager
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Little Rock, AR 72204

Phone # 501-562-3818

Fax # 501-562-5701

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Structure, 367 Sturgis Road
Turnaround Time:
2 Day**CA Labs Project #:**

CAL13055052NT

Date: 05/28/13**Samples Received:** 5/24/13 10:30am**Date Of Sampling:** 05/21/13**Purchase Order #:**

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----------	-------------	------------	--	-------------------------------	--	--------------------------------------	-------------------------------

4 8-4 black and tan mastic

34X-09		9-1	Flooring/ brown self-adhesive floor tile	y	None Detected		100% qu,gy,ma
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		9-2	clear mastic	y	None Detected		100% gy,bi
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		9-3	gray self-adhesive floor tile	y	None Detected		100% qu,gy,ma
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		9-4	clear mastic	y	None Detected		100% gy,bi
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		9-5	blue self-adhesive floor tile	y	None Detected		100% qu,gy,ma
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		9-6	clear mastic	y	None Detected		100% gy,bi
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Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

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
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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
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Approved Signatories:

Julio Robles
AnalystQAC
Leslie Crisp, P.G.Technical Manager
Chad Lytle

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Polarized Light Asbestiform Materials Characterization

Customer Info: Attn:
Environmental Protection Associates
#9 Remington Cove
Little Rock, AR 72204

Customer Project:
Tract 34X-Residential
Structure, 367 Sturgis Road
Turnaround Time:
2 Day

CA Labs Project #:
CAL13055052NT
Date: 05/28/13
Samples Received: 5/24/13 10:30am
Date Of Sampling: 05/21/13
Purchase Order #:

Phone # 501-562-3818
Fax # 501-562-5701

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		9-7		tan linoleum	y	None Detected	18% ce 4% fg	78% gy,ma
5		9-8		tan mastic				
34X-10		10-1		Roof Shingle/ black roofing shingle with red gravel	n	None Detected	6% ce	94% qu,bi
		10-2		black roofing shingle with tan gravel	n	None Detected	8% fg	92% qu,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:



Julio Robles
Analyst



QAC
Leslie Crisp, P.G.

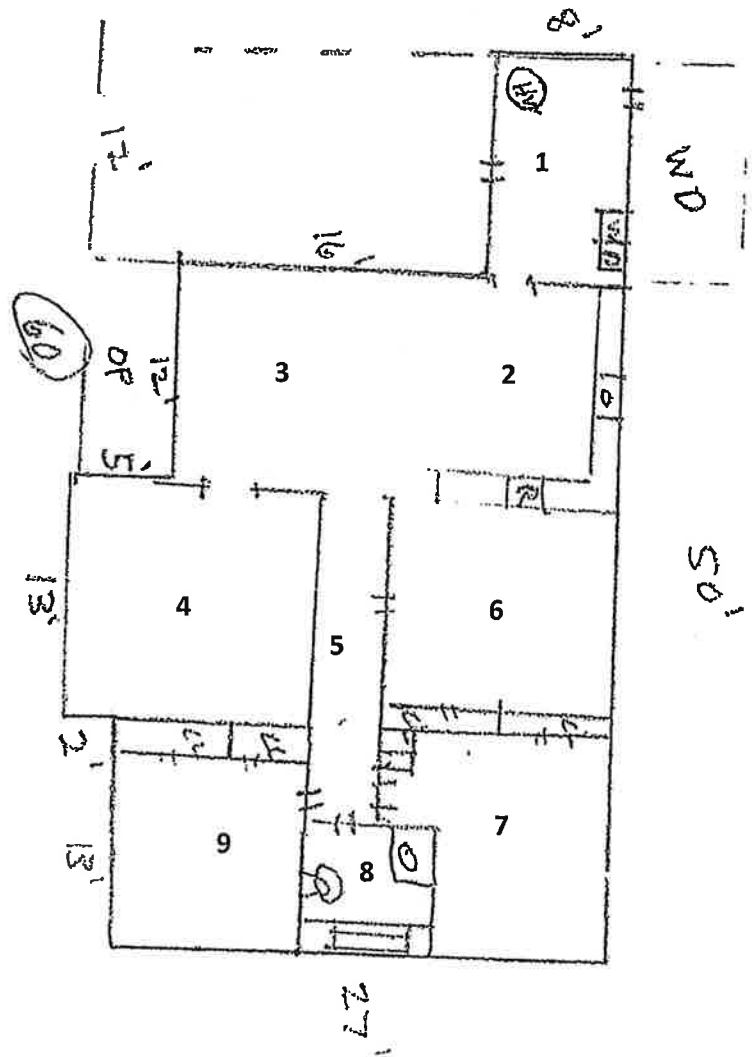
Technical Manager
Chad Lytle

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9. < 1% Result point counted positive
10. TEM analysis suggested

Tract 34 X

- 1 laundry 12 x 7
- 2 kitchen 9 x 10
- 3 dining 13 x 12
- 4 living 12 x 13
- 5 hallway 3 x 17
- 6 bedroom 10 x 14
- 7 bedroom 10 x 14
- 8 bathroom 5 x 7
- 9 bedroom 10 x 13

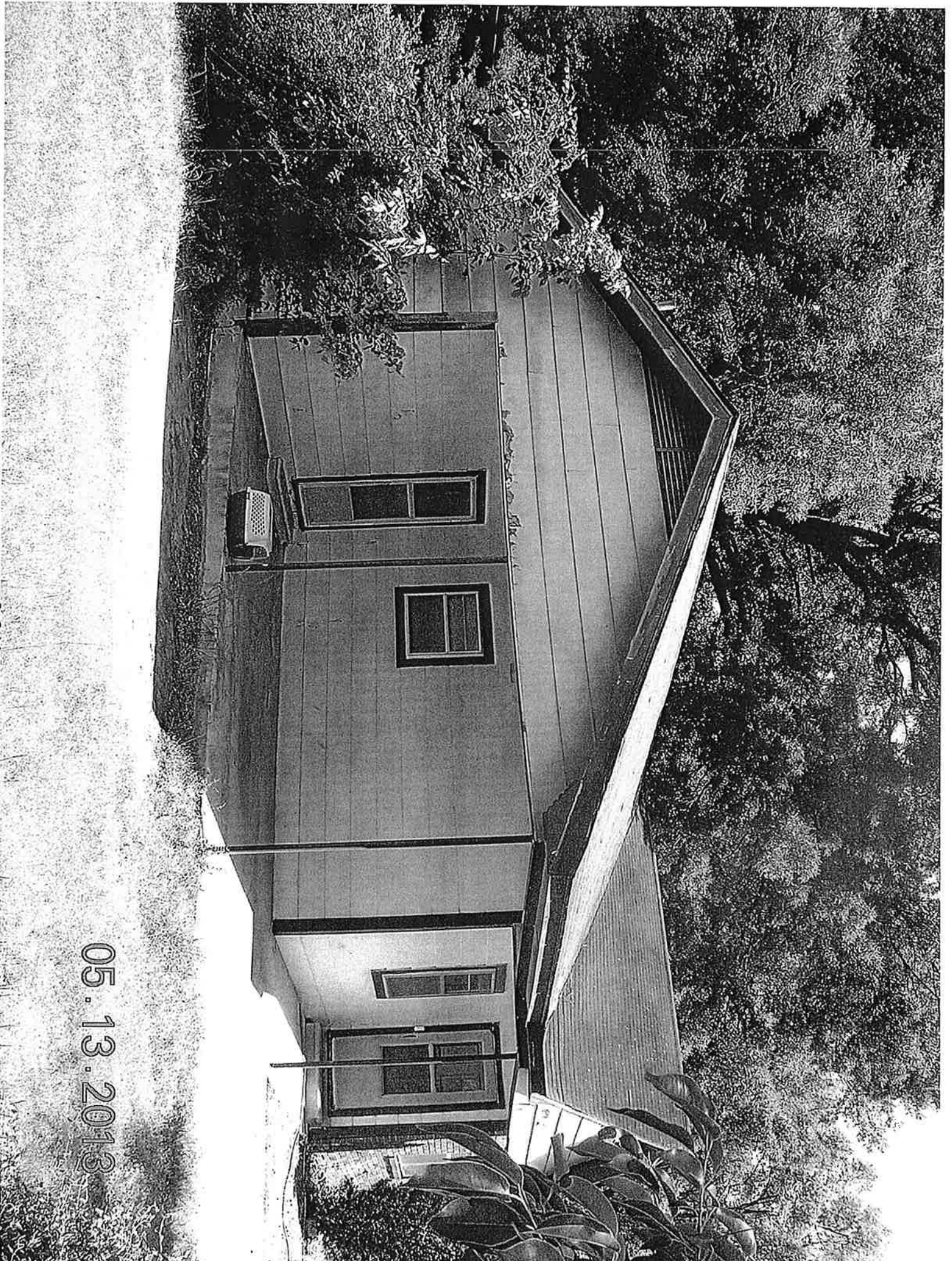




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05.13.2013



Arkansas Central Office

#9 Remington Cove
Little Rock, Arkansas 72204
(501) 562-3818
Fax (501) 562-5701
E-mail: TBlaylock@epaonline.biz

May 29, 2013

Arkansas State Highway & Transportation Department
P.O. Box 2261 Room 705
Little Rock, AR 72203

RE: Asbestos Surveys multiple Tracts
Job 080395 - Conway South Interchange
Highway 68 (Gr. & Strs.)
Route I-40 Section 32 -Faulkner County

Mr. Joel Clark:

On May 21, 2013 to May 23, 2013, I conducted asbestos surveys at multiple tracts to determine if asbestos was present.

Laboratory analysis has determined the following Tracts **do not** contain asbestos.

Tract 8X – Residential Structure and Barn – 297 Hwy. 365
Tract 9X – Apartment Structure – 3, 4, 5 & 6 McClure Drive
Tract 14X – Residential Structure – 28 Moore Lane
Tract 23X – Demolished Storage Building – 34 Moore Lane
34 Moore Lane House Trailer not sampled, owner is moving it.
Tract 30X – Residential Structure – 307 Hwy. 365
Tract 76X – Metal Building – 30 Moore Lane

I have attached my chain of custody and laboratory findings. Please contact me with any questions you may have.

Sincerely,

Gary Nooner
Inspector
License No. 005065

Enclosures



Field Data Sheet

#9 Remington Cove
ck, Arkansas 72204
501-562-3818
Fax 501-562-5704

Normal (2 days)

[illegible]

Time	1500	Date	5/73/13	Collection Job No.		Town		Cover	
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Relinquished By	<i>Henry Adams</i>	Time	1:50	Date	5/23/13
Received By		Time		Date	

Relinquished By	<i>[Signature]</i>	Time	10:30	Date	7/24/13
Received By		Time		Date	

Composite Sample all positive Sheetrock and Joint Compound Samples

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Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Environmental Protection Associates

#9 Remington Cove
Little Rock, AR 72204

Customer Project: Tract 76X - Metal Building, 30 Moore Lane
Reference #: CAL13055047NT Date: 05/28/13

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 performed. Calibrated liquid refractive oils are used as liquid mounting 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 conjunction 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 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 by 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 detectable 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). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. 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 of 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. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

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CA Labs, L.L.C.

12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
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Overview of Project Sample Material Containing Asbestos

Customer Project: Tract 76X - Metal Building, 30 Moore Lane **CA Labs Project #:** CAL13055047NT

Sample #	Layer #	Analysts	Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
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No Asbestos Detected.

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

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

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

This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.

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Polarized Light Asbestiform Materials Characterization

Customer Info: Attn:
Environmental Protection Associates
#9 Remington Cove
Little Rock, AR 72204

Phone # 501-562-3818
Fax # 501-562-5701

Customer Project:
Tract 76X - Metal Building, 30
Moore Lane
Turnaround Time:
2 Day

CA Labs Project #:
CAL13055047NT
Date: 05/28/13
Samples Received: 5/24/13 10:30am
Date Of Sampling: 05/21/13
Purchase Order #:

Sample #	Com ment	Layer #	Analysts Physical Subsample	Hom- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
76X-01		1-1	Linoleum/ tan linoleum	y	None Detected	42% ce 3% fg	55% gy,ma
		1-2	tan mastic	y	None Detected		100% gy,bi
76X-02		2-1	Roof Shingle/ black roofing shingle with brown gravel	n	None Detected	17% ce	83% qu,bi
		2-2	black tar	y	None Detected		100% qu,bi
76X-03		3-1	Roof Shingle/ black roofing shingle with brown gravel	n	None Detected	14% fg	86% qu,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

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Approved Signatories:



Chris Park
Analyst



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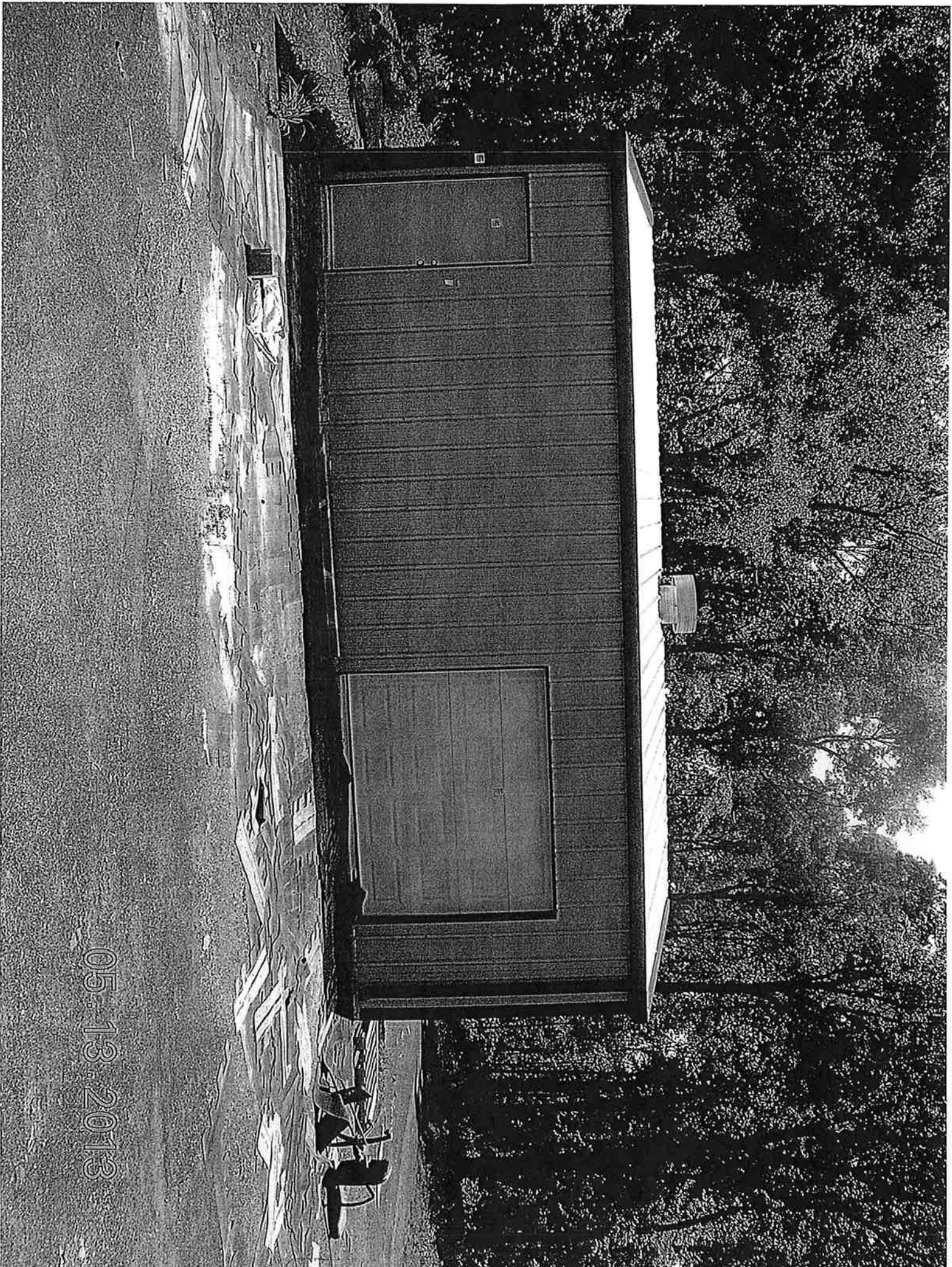
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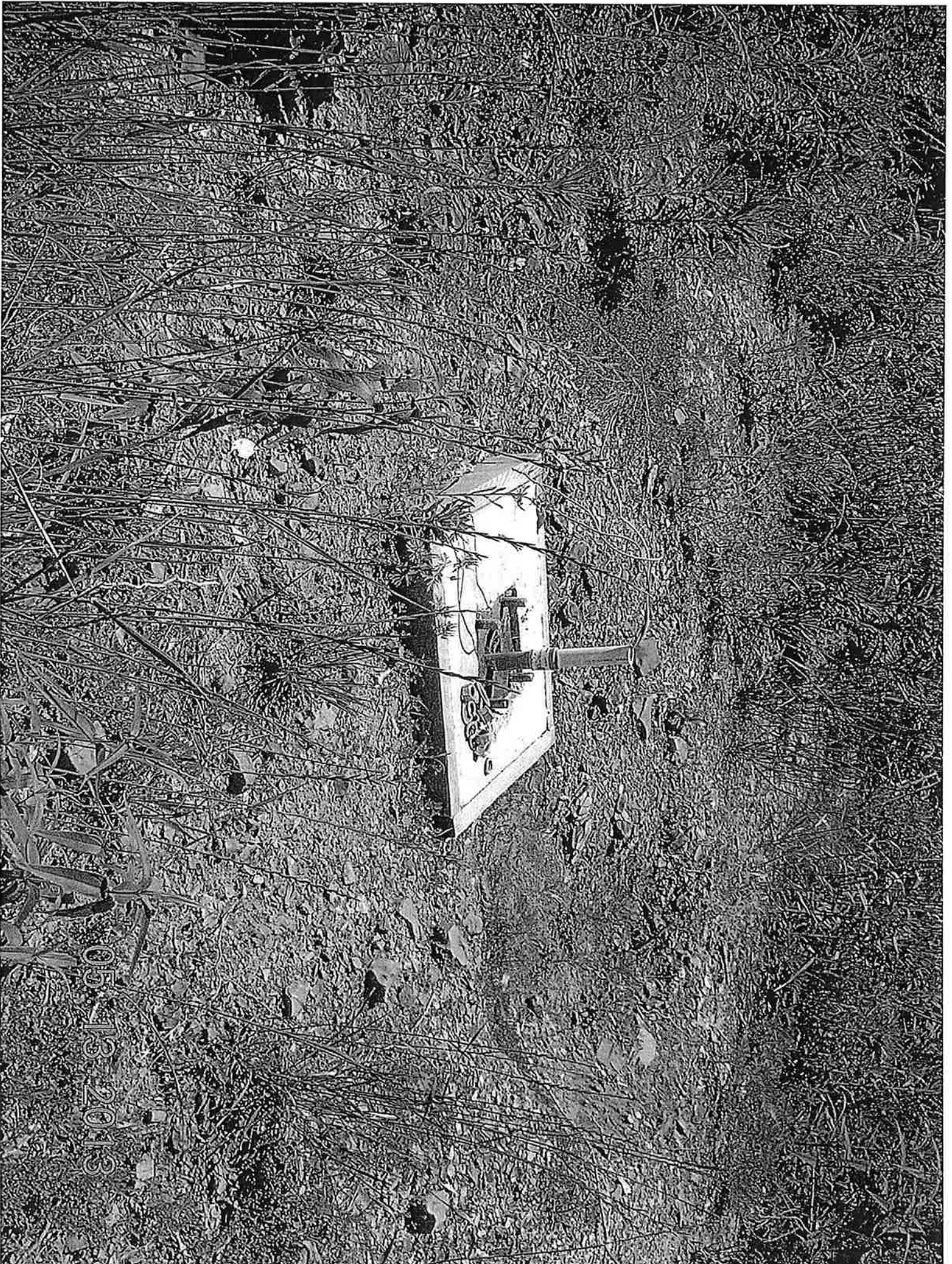
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