



**FORENSIC APPLICATIONS CONSULTING TECHNOLOGIES, INC.**

**Final Verification Sampling and  
DECISION STATEMENT  
of a  
Methamphetamine Laboratory  
Located at**

**1059 Mount Werner Circle  
Colorado Springs, CO 80906  
(HUD Case: 052-303207)**

Prepared for:

**Michaelson, Connor & Boul  
4500 Cherry Creek Drive South  
Suite 1060  
Glendale, CO 80246**

Prepared by:

**FORENSIC APPLICATIONS CONSULTING TECHNOLOGIES, INC.  
185 Bounty Hunter's Lane  
Bailey, CO 80421**



October 1, 2007

**185 BOUNTY HUNTER'S LANE, BAILEY, COLORADO 80421  
PHONE: 303-903-7494 <http://www.forensic-applications.com>**

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## EXECUTIVE SUMMARY

According to Law Enforcement Officials with the El Paso County, Colorado, Sheriff's Office, at an undetermined date in 2003, combined members of the El Paso County Sheriff's Office (EPSO) and the Colorado Springs Police Department (CSPD) conducted a raid on the property located at 1059 Mount Werner Circle, Colorado Springs, CO 80906 (the subject property).

Based on our confidential discussions with undercover members of the on-scene Law Enforcement team, and a telephone review of the available law enforcement documents, Forensic Applications Consulting Technologies, Inc. (FACTs) conclusively determined that a methamphetamine production laboratory existed at the subject property. Based on objective sampling performed in January of 2007, FACTs conclusively confirmed the presence of widespread and significant contamination throughout the residential structure and the heating system in the residential structure including all associated ductwork, and the crawlspace.

Pursuant to Colorado State regulations,<sup>1</sup> a "Preliminary Assessment" of a clandestine drug lab was performed to characterize extant contamination, and to direct appropriate decontamination procedures.

During August and September, 2007, a remediation company doing business as Methlab Cleanup Company, LLC performed remediation activities at the subject property. Following removal of the furnace system and associated ductwork, and decontamination activities on surfaces by the contractor, FACTs again visited the subject property on August 29, 2007 and performed a visual inspection of the subject property and collected final verification samples pursuant to State regulations.

The results of those samples indicated that residual methamphetamine contamination still existed in one location at the subject property, (a medicine cabinet in the downstairs basement). Methlab Cleanup Company, LLC returned to the property and discarded the medicine cabinet and re-cleaned the downstairs bathroom. On September 12, 2007, FACTs returned to the property to evaluate the remaining contamination through sampling.

Based on the analytical results of the objective sampling, and based on the totality of the circumstances, FACTs concludes that insufficient information exists to support the hypothesis that any area in the property is non-compliant. Therefore, pursuant to State Board of Health Regulations, FACTs accepts the null hypothesis, and issues this **DECISION STATEMENT** and hereby declares the subject property compliant with CRS 25-18.5-103 (2).

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<sup>1</sup> State Board Of Health *Regulations Pertaining To The Cleanup Of Methamphetamine Laboratories* 6 CCR 1014-3.



# REGULATORY REQUIREMENTS

## ***Federal Requirements***

All work performed by FACTs was consistent with OSHA regulations. The remediation contractor was responsible for ensuring its own compliance with OSHA. FACTs visited the site on two occasions during remediation and is not aware of any violations of OSHA regulations during this project (See Appendix G for field notes).

## ***State Requirements***

The Colorado State Board Of Health *Regulations Pertaining to the Cleanup of Methamphetamine Laboratories* (6-CCR 1014-3) become applicable when an owner of a property has received notification from a peace officer that chemicals, equipment, or supplies indicative of a drug laboratory are located at the property or when a drug laboratory is otherwise discovered and the owner of the property where the drug laboratory is located has received notice. Whenever a methlab has been so discovered, the property must be either demolished or documented as containing contaminant levels below statutory thresholds.<sup>2</sup>

After a property has been remediated, an Industrial Hygienist must test the hypothesis that the property is not compliant with State Statutes (i.e. the property contains contamination levels in excess of regulatory thresholds). As part of the hypothesis testing, the Industrial Hygienist must perform objective sampling to quantify the remaining contamination (if any).

If, based on the totality of the circumstances, the Industrial Hygienist finds insufficient evidence to support the hypothesis that any given area is non-compliant,<sup>3</sup> that area shall be deemed to be compliant with CRS §25-18.5-103 (2) and the Industrial Hygienist shall release the property.<sup>4</sup>

In order for a proper final declaration to be made, a final decontamination verification assessment must be performed by an Industrial Hygienist as defined in CRS §24-30-1402. This decontamination verification was performed by Mr. Caoimhín P. Connell, Forensic Industrial Hygienist, who meets the statutory definition and is entitled to practice Industrial Hygiene in the State of Colorado and is additionally qualified to perform the necessary testing.

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<sup>2</sup> The actual contaminants will vary based on the type of activities identified at the lab; the actual statutory threshold is incumbent on the number of samples collected as a composite or discrete samples.

<sup>3</sup> No guarantee is ever made or implied that the property is completely free of contamination. Rather, a reasonable, standardized approach to decontamination is executed.

<sup>4</sup> If objective sampling data indicates contamination is less than the cleanup level, that data may be used as *prima facie* evidence that insufficient evidence exists to support the hypothesis that any given area is non-compliant.



According to 6-CCR 1014-3, specific mandatory information must be presented in the final verification assessment. Included with this discussion, is the mandatory information as summarized in Table 1, below.

DOCUMENT	Included
FACTs Property description field form	Note 1
FACTs Functional space inventory field form	Note 1
FACTs Law Enforcement documentation discussion	Note 1
FACTs Field Observations field form	Note 1
FACTs Contamination migration field form	Note 1
FACTs ISDS field form	Note 1
FACTs Pre-remediation photographs	Note 1
FACTs Post-remediation photographs	<i>Carb</i>
FACTs Pre-remediation photograph log sheet field form	Note 1
FACTs Post-remediation photograph log sheet field form	<i>Carb</i>
FACTs Drawing of Cook area(s)	Note 1
FACTs Drawing of Storage area(s)	Note 1
FACTs Drawing of Waste area(s)	Note 1
FACTs Drawing General site	Note 1
FACTs description sampling procedures, handling, and QA/QC	Note 2
FACTs drawing of final sample locations	Note 2
FACTs health and safety procedures used in accordance with OSHA	Note 2
FACTs post-decontamination samples locations	Note 2
FACTs Analytical Laboratory Documentation Form	<i>Carb</i>
FACTs SOQ	<i>Carb</i>
FACTs Certification of procedures, results, and variations from standard practices.	<i>Carb</i>
Analytical Laboratory Reports	<i>Carb</i>
Available Law Enforcement documents	Note 1
Plumbing inspection field form (plumbing system integrity and identification of sewage disposal mechanism)	Note 1
Contractor's description of the decontamination procedures used and a description of each area that was decontaminated	<i>Carb</i>
Identification of common ventilation systems with adjacent units or common areas.	Note 1
A description of the analytical methods used and laboratory QA/QC requirements.	Note 2
Contractor's description of the removal procedures used and a description of areas where removal was conducted, and the materials removed.	<i>Carb</i>
RESERVED This line intentionally blank	<i>Carb</i>
Contractor's description of the waste management procedures used, including handling and final disposition of wastes.	<i>Carb</i>

Note 1: See the Preliminary Assessment dated April 25, 2007

Note 2: Contained in the body of this discussion

**Table 1**  
**Inventory of Mandatory Information**



# VERIFICATION SAMPLING

## ***Sample Collection***

Wipe samples were collected by FACTs in a manner consistent with State Regulation 6-CCR 1014-3. The wipe sample medium was individually wrapped commercially available Johnson & Johnson™ gauze pads (FACTs Lot # G0702). Each pad was moistened with reagent grade methyl alcohol (FACTs Lot # A0702). Each gauze pad was prepared in a clean environment and inserted into an individually identified plastic centrifuge tube with a cap.

Prior to the collection of each sample, the Industrial Hygienist donned fresh surgical gloves. Consistent with State Regulations and good sampling theory, the location of the samples was based on professional judgment. In this case, it was FACTs' professional judgment that authoritative judgmental sampling would be appropriate.

The general sample location within each functional space was randomly identified by the input of an unpredictable number, whose output was a function of a simple algorithm. In this way, any and all surfaces had an equal probability of being sampled, and the Industrial Hygienist had no way of knowing the exact location of the sample. Once the algorithm identified the general sample location, each possible sample area was assigned a numerical value, and the final sampling location was determined by the algorithm.

Each wipe sample was collected by methodically wiping the surface of the selected area with moderate pressure; first in one direction and then in the opposite direction, folding the gauze to reveal fresh material as necessary. Each sample was returned to its centrifuge tube and capped with a screw-cap.

Samples were maintained in the control of FACTs at all times, and submitted via FedEx to Analytical Chemistry, Inc. (ACI) of Tukwila, Washington. ACI is one of the laboratories identified in State regulation 6-CCR 1014-3 as being proficient in performing methamphetamine analysis.



## Sample Locations

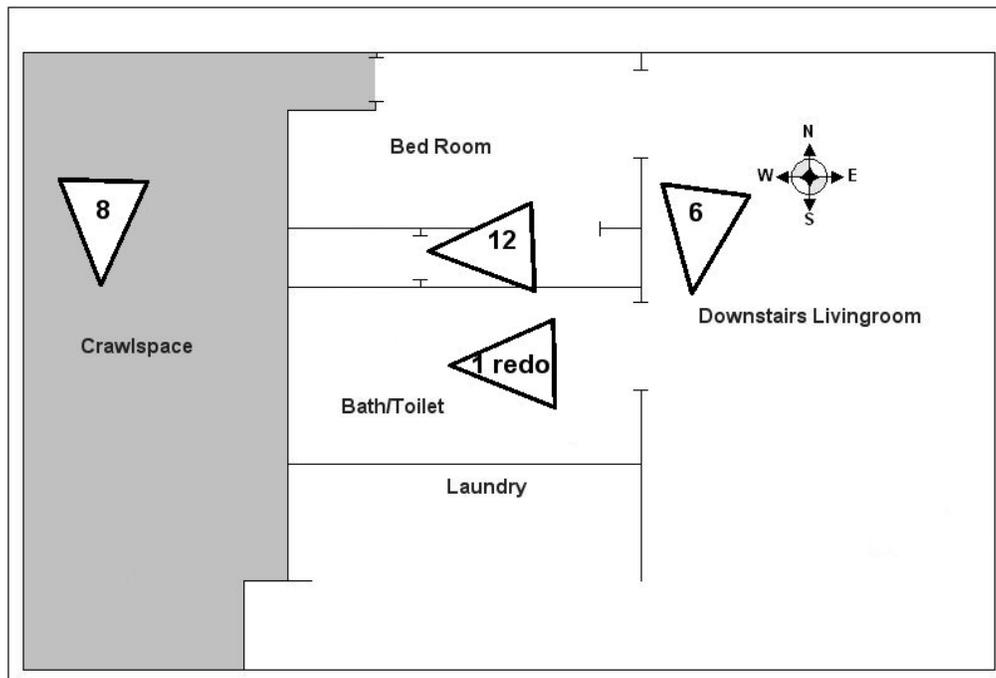
The table below identifies the location of each verification sample.

Sample ID	Location	Result $\mu\text{g}/100\text{ cm}^2$	Decision Threshold	Decision Status
MWM082907-1	Main Floor Living Room S Wall	0.05	0.50	PASS
MWM082907-2	Upstairs Central Bedroom	0.05	0.50	PASS
MWM082907-3	Kitchen E Wall Cabinets	0.02	0.50	PASS
MWM082907-4	Master Bedroom	0.01	0.50	PASS
MWM082907-5	Field Blank	<0.03*	NA	OK
MWM082907-6	Basement Rec Room E Wall	0.01	0.50	PASS
MWM082907-7	Upstairs Bath Ceiling	0.02	0.50	PASS
MWM082907-8	Crawlspace Central Lally Column	0.26	0.50	PASS
MWM082907-9	Attic Metal Pipe	0.01	0.50	PASS
MWM082907-10	Upstairs NE Bedroom	0.08	0.50	PASS
MWM082907-11	Downstairs Bath Medicine Cabinet	0.66	0.50	FAIL
MWM082907-12	Downstairs BR, Cubby-hole	0.02	0.50	PASS
MWM082907-13	Field Blank	<0.03*	NA	OK
MWM091207-01	Re-sample Downstairs Bathroom Floor	0.04	0.50	PASS

\* Reported in absolute  $\mu\text{g}$

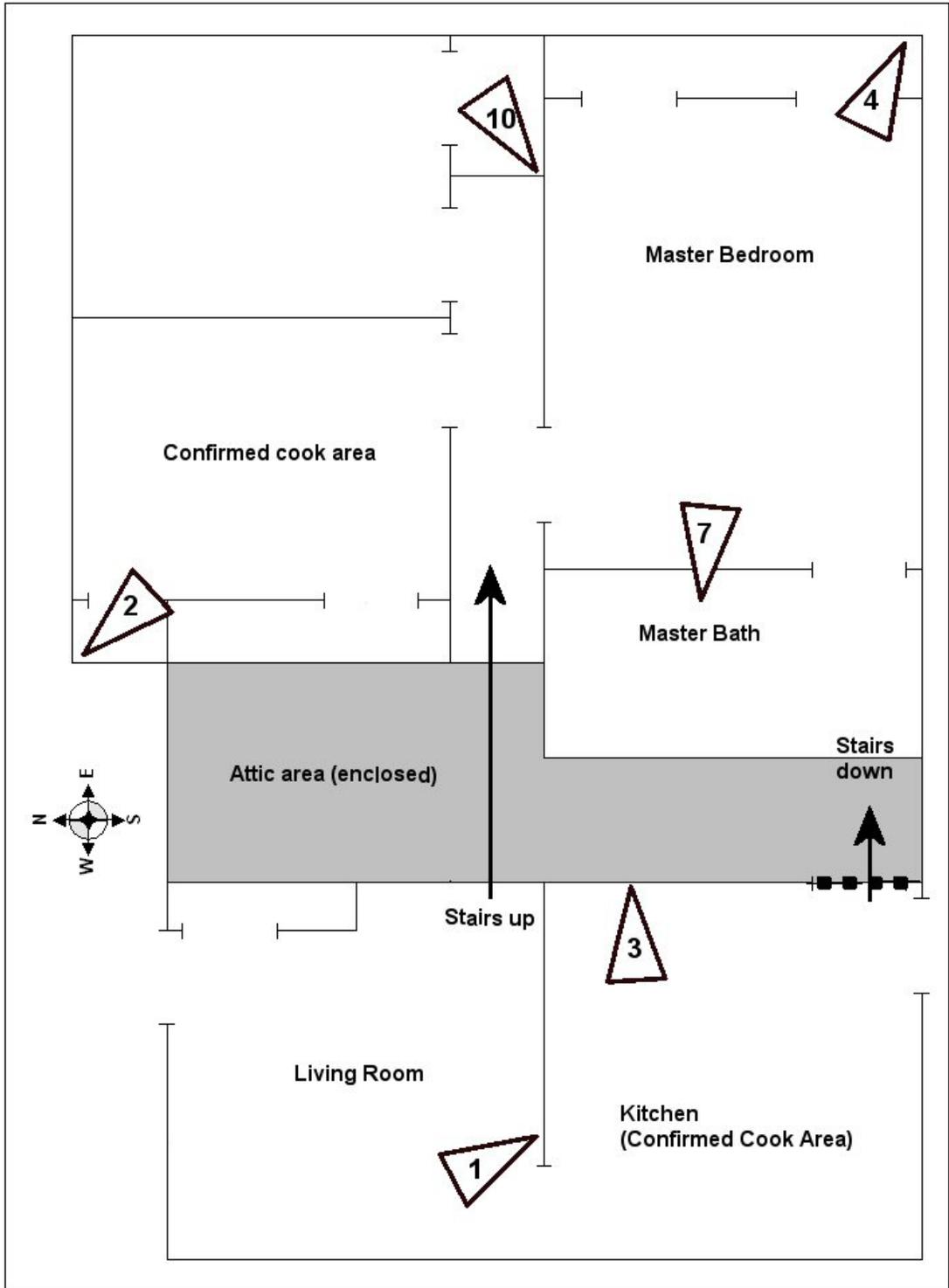
**Table 2**  
**Summary of Verification Samples**

The following drawings identify the location of the final verification samples. A still photograph is provided on the accompanying CD of each specific sampling location.



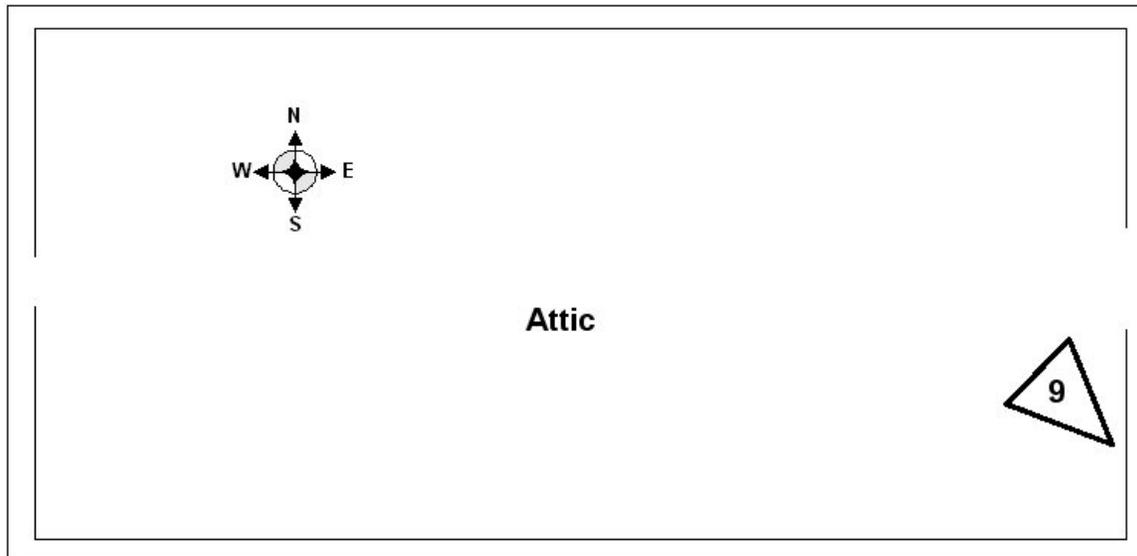
**Figure 1**  
**Final Sample Locations Basement (Not to scale)**





**Figure 2**  
**Final Sample Locations Main Floor (Not to scale)**





**Figure 3**  
**Final Sample Locations Attic (Not to scale)**

***Quality Assurance / Quality Control***

The following section is not intended to be understood by the casual reader; this mandatory QA/QC section presumes that the reader is familiar with SW846 style QA/QC reporting. All abbreviations are standard laboratory use. The QA/QC indicate the data meet the stated data quality objectives. Two surreptitious field blanks were collected and submitted to the analyzing laboratory. The blanks were not identified to the analyzing laboratory as blanks. The identities of the field blanks were unknown to sampling personnel until the actual time of sampling at which point they were randomly selected.

**Main Data Set**

MDL is 0.004 µg; LOQ is 0.03 µg; MBX <MDL; LCS 0.100 µg (recovery =97%); Matrix spike 0.020 µg (recovery=90%); Matrix spike Dup 0.020 µg; (recovery=90%); Surrogate recovery (all samples): High 106%, Low 92%; FACTs field BX history: alcohol (Lot A0702) <LOQ for n=8; FACTs Gauze (Lot G0702) <LOQ for n=5. Field Dup was not required. The QA/QC information indicates the data meet the data quality objectives with no apparent bias.

**Basement Resample Set**

MDL is 0.004 µg; LOQ is 0.03 µg; MBX <MDL; LCS 0.100 µg (recovery =101%); Matrix spike 0.020 µg (recovery=100%); Matrix spike Dup 0.020 µg; (recovery=100%); Surrogate recovery 100%; FACTs field BX history: alcohol (Lot A0702) <LOQ for n=8; FACTs Gauze (Lot G0702) <LOQ for n=5. The QA/QC information indicates the datum met the data quality objectives with no apparent bias.



## CONCLUSIONS

Diligent adherence to the State regulations does not guarantee that a remediated property will be completely free of all residual contamination. Rather, the purpose of the regulations is to ensure that properties are assessed and remediated in a consistent fashion, and that verification of remediation is performed in a scientifically valid manner.

In the absence of contradictory information, wall cavities and similar inaccessible places on the property are presumed to contain *de minimis* methamphetamine residue. However, these areas are reasonably considered to be “no-contact” or “low-contact” areas, that do not present a reasonable probability of exposure. Pursuant to the current state of knowledge, and pursuant to The Regulations, “contaminant” is defined as “...a chemical residue that may present an immediate or long-term threat to human health and the environment.”<sup>5</sup> The risk models<sup>5</sup> described in the supporting documentation for 6-CCR 1014-3, suggest that exposure from these areas would not reasonably pose “an immediate or long-term threat to human health and the environment” and, therefore, the presumed residues do not meet the definition of contamination.

In post-decontamination sampling, the hypothesis is made that the area is non-compliant, and data are collected to test the hypothesis. The lack of data supporting the hypothesis leads the consultant to accept the null hypothesis and conclude that the area is compliant.

In this case, the sampling failed to demonstrate that the subject property was non-compliant. As such, pursuant to 6-CCR 1014-3, we accept the null hypothesis and find the subject property at 1059 Mount Werner Circle, Colorado Springs, Colorado compliant as defined in 6-CCR 1014-3. We recommend the property be immediately released for occupancy.

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<sup>5</sup> *Support For Selection Of A Cleanup Level For Methamphetamine At Clandestine Drug Laboratories*, Colorado Department Of Public Health And The Environment, February 2005





**FORENSIC APPLICATIONS CONSULTING TECHNOLOGIES, INC.**

**APPENDIX A  
CONTRACTOR'S SUBMITTALS**

**DECONTAMINATION PROCEDURES**  
**1059 Mt. Werner Circle, Colorado Springs, CO 80906**  
**Project dates: 8-22-07/8-27-07**

All work performed by Meth Lab Cleanup LLC (MLCC) and its subcontractors involving the affected property met the requirements established by *Colorado 6 CCR 1014-3 State Board of Health Regulations Pertaining to the Cleanup of Methamphetamine Laboratories* and the *Resolution of the El Paso County Board of Health, Chapter 4, Methamphetamine Laboratory Cleanup Regulations*.

All work was performed by certified workers and supervisors and in accordance with the recommendations of Forensic Applications Consulting Technologies, Inc. *Preliminary Assessment of a Methamphetamine Laboratory at (above) ... Colorado Springs, CO* and *MCB RFP / Bid Request Form*.

All personnel are OSHA 40 hour HAZWOPER certified. All personnel wore a minimum of LEVEL C PPE in accordance with OSHA 1910.120 subpart 1 and 1910.1030 BBP requirements and will utilize organic vapor/acid gas respirator cartridges.

All workers are certified in Clandestine Drug Lab Decontamination by Meth Lab Cleanup LLC; certified training providers.

**List of Personnel involved on this project:**

Julie Mazzuca, RPIH  
Joseph Mazzuca, Operations/Project Manager  
Peter Riley, On Site Supervisor  
Bill Coye, Safety & Health Supervisor  
Kurt Brown, Decontamination Technician  
Aaron Heaston, Decontamination Technician  
Adam Petrzilka, Decontamination Technician

Prior to commencement of work each day, a daily pre job briefing was conducted in accordance with CFR 1919.120 and MLCC Hazard Communication Program. Special consideration was given to the working conditions with regard to heat; more specifically, the attic areas. It was the responsibility of the onsite supervisor to make appropriate recommendations to prevent and reduce the potential for heat induced illness by establishing both a working time rotation schedule and providing for adequate hydration as outlined in section 7.0 of the MLCC Health & Safety Manual.

- The decontamination permit application and the corresponding fees were submitted to the El Paso County Department of Health.
- Municipal authorities were notified of effluent disposal.
- Asbestos inspection prior to the removal of the furnace system and ducting. . .

*NOTE: It was determined that the removal of the HVAC system could be accomplished without removing or disturbing any potentially asbestos contaminated materials i.e. sheet rock. Therefore, no asbestos assessment or sampling was necessary.*

**Decontamination:**

- Environmental containment i.e. negative air pressure and critical barriers were established.

*NOTE: Critical barriers were installed throughout the entire structure prior to beginning work. Negative air pressure was established in the attic space throughout the attic decontamination phase. Upon completion of the attic space decontamination, critical barriers were established where applicable to isolate the attic from the main area of the structure. Negative air pressure was then established for the main structure prior to decontamination of that area.*

- Negative air was established at the gable end vent.
- All blown in insulation and miscellaneous debris were removed and any HVAC ducting that was encountered; this also includes any exhaust or chimney pipe that penetrated the attic from the main level and exited through the roof. Critical barriers were installed at each of these locations as soon as is practical. Insulation was double bagged and removed with all other debris via the access panel and deposited into the transport container.
- The entire area of the attic was vacuumed with HEPA filtration which is capable of filtering to .3 microns.
- The entire attic was pre sprayed with a cleaning solution and scrubbed. Once the pre spray and scrub was complete, all exposed surfaces were cleaned by mechanical extraction utilizing the same cleaning solution. All effluents created during this cleaning process were captured during the process and deposited into a retrieval tank.
- When it was necessary to empty the retrieval tank, the effluent was PH tested for neutrality and disposed of on site via the municipal sewage system.
- All interior debris; i.e. clothing, furniture, dishes, linens, curtains, window treatments, personal items, appliances, exhaust fans, carpeting, padding and tack strips, and any other remaining items from each of the functional spaces outlined were removed and disposed of. All debris was deposited into the transport container for disposal.
- Lock out –tag out was established prior to the removal of the HVAC system. HVAC and all accessible duct work was then removed and deposited into the transport container for disposal. All plenum and lateral duct work was removed along with the system. The lateral ducting was removed by cutting access panels through the sub flooring from the upper level which allowed the removal of all sections of lateral ducting to the trunk line. The trunk line itself remains and was decontaminated.

*NOTE: Prior to delivery of container/s, a waste profile was submitted to Allied Waste Services, CO for approval. Upon approval of the waste profile, transport container/s was delivered to the site. Upon completion of the debris removal, MLCC scheduled pickup of the transport container/s. Allied Waste Services, CO transported and disposed of all debris as special waste at an approved landfill of their choice. MLCC has no authority to decide which landfill was used by the transporter. All debris was manifested and a **Certificate of Disposal** was generated by the transporter at the time of delivery and will be included in the final report. The owner of the property was named as the Waste Generator on all documents required by the transporter.*

- All exposed surfaces of the interior of the structure were decontaminated by: Pre spraying all surfaces with industrial detergent; scrubbing all surfaces with an industrial detergent; and a pressure washer rinse and or mechanical extraction of all surfaces.
- All cleaning effluent was collected either by vacuum or automatic retrieval and PH tested for neutrality and disposed of on site via the municipal waste system.

**Soil Removal:**

- All foundation insulation and miscellaneous debris were removed.
- The HVAC unit and all components were removed.
- The existing vapor barrier over soil was removed.
- A temporary barrier over the soil was installed consisting of a continuous sheet of 4 mil plastic that was taped at all sides to the foundation wall.
- Soil was dampened to lower the amount of airborne particulates as it was exposed. The temporary barrier at one foot intervals was rolled back, starting at the farthest wall and working out. Soil was removed by hand with square shovels to a depth of one half inch or more and placed into five gallon buckets which were lined with disposable bags. The bagged soil was deposited into the transport container.
- Upon completion of the soil removal, a new temporary barrier was installed as described above.
- All exposed surfaces to include foundation walls, floor joist, sub flooring, plumbing etc. were decontaminated by pre spraying with industrial detergent, hand scrubbing, and mechanical extraction.
- A double layer vapor barrier was re-installed; continuous from wall to wall, taped to the foundation wall within two inches of the soil line.
- Three (3) discrete QA/QC wipe samples were collected from the property of 100/cm<sup>2</sup> each and submitted for analysis as required by client contract. A series of composite

samples (standard swipe test) from the attic = one @ 300/cm<sup>2</sup> , main level = three @ 300/cm<sup>2</sup> each and crawl space = one @ 300/cm<sup>2</sup> were collected and analyzed for methamphetamine only.

- All samples were sent overnight via private carrier to a nationally certified laboratory for analysis. (Provided as a separate attachment).

**PRELIMINARY CLEARANCE TESTING INDICATED METH RESIDUE LEVELS ABOVE STANDARDS IN THE LOWER-LEVEL BATHROOM.**

The decontamination specialists reentered the property on August 11, 2007 to re-clean. The medicine cabinet was removed, triple bagged and disposed of. (Added to “special waste dumpster located on the Prospect site). The bathroom was then re-cleaned with the triple wash/triple rinse method described above.



# NON-HAZARDOUS WASTE MANIFEST

0355470

Please print or type.

1. Generator's US EPA ID Number		Manifest Document Number		2. Page 1 of									
3. Generator's Name and Mailing Address US Department of Housing 1059 Mt. Werner Cr. Colorado Springs, CO 80906 303-768-6738				5. Generating Location (if different) US Department of Housing 1059 Mt. Werner Cr. Colorado Springs, CO 80906 303-768-6738									
4. Phone ( ) 303-768-6738				6. Phone ( )									
7. Transporter #1 Company Name				8. US EPA ID Number				9. Transporter #1's Phone					
10. Transporter #2 Company Name				11. US EPA ID Number				12. Transporter #2's Phone					
13. Designated T/S/D Facility Name and Site Address Tower Landfill 88th & Tower Rd. Commerce City, CO ACCOUNT # 960795 (Meth Lab Cleanup LLC)				14. US EPA ID Number				15. Facility's Phone					
16. Waste Shipping Name and Description				17. Allied Waste Approval # and Exp. Date				18. Containers		19. Total Quantity		20. Unit Wt/Vol	
								No.	Type				
a. Meth Lab Debris				CO L68 071130 Y710000				1		36 Yards			
b.													
c.													
d.													
21. Additional Descriptions for Materials Listed Above													
22. Special Handling Instructions and Additional Information													
23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.													
Printed/Typed Name Peter C Riley						Signature <i>[Signature]</i>			Month Day Year 08 29 07				
24. Transporter #1: Acknowledgement of Receipt of Materials													
Printed/Typed Name JOHN R.J. PACHEO						Signature <i>[Signature]</i>			Month Day Year 08 30 07				
25. Transporter #2: Acknowledgement of Receipt of Materials													
Printed/Typed Name						Signature			Month Day Year				
26. Discrepancy Indication Space													
27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19)													
Printed/Typed Name Jessica Lucero						Signature <i>[Signature]</i>			Month Day Year 8 30 07				

GENERATOR

TRANSPORTER

T/S/D FACILITY

TRANSPORTER #1



**FORENSIC APPLICATIONS CONSULTING TECHNOLOGIES, INC.**

**APPENDIX B  
POST-REMEDIATION PHOTOGRAPH LOG SHEET FIELD FORM**



# FORENSIC APPLICATIONS CONSULTING TECHNOLOGIES, INC.

## POST-REMEDIATION PHOTOGRAPH LOG SHEET

<b>FACTs project name:</b>	<b>Mt. Werner</b>	<b>Form # ML9</b>
<b>Date: October 1, 2007</b>		
<b>Reporting IH:</b>	<b>Caoimhin P. Connell, Forensic IH</b>	

August 29 2007			
Name ^	Date Picture Taken	Name ^	Date Picture Taken
Sample layout	8/29/2007 11:02	Crawlspace 2	8/29/2007 12:06
Exterior 1	8/29/2007 11:04	Crawlspace 3	8/29/2007 12:07
Exterior 2	8/29/2007 11:05	Crawlspace 4	8/29/2007 12:07
Exterior 3	8/29/2007 11:07	Crawlspace 5	8/29/2007 12:07
Kitchen 1	8/29/2007 11:09	Crawlspace 6	8/29/2007 12:07
Livingroom	8/29/2007 11:13	Crawlspace 7	8/29/2007 12:07
Kitchen2	8/29/2007 11:16	Crawlspace 8	8/29/2007 12:08
Central Bedroom	8/29/2007 11:23	Crawlspace 9	8/29/2007 12:09
Central Bedroom 2	8/29/2007 11:25	Bathroom 2	8/29/2007 11:39
Masterbedroom	8/29/2007 11:30	Attic 2	8/29/2007 11:44
Bathroom 1	8/29/2007 11:33	Attic 8	8/29/2007 11:47
NE Bedroom	8/29/2007 11:43	Attic 9	8/29/2007 11:47
NE Bedroom 2	8/29/2007 11:43	Crawlspace 10	8/29/2007 12:10
Attic 1	8/29/2007 11:44	<b>September 12 2007</b>	
Attic 3	8/29/2007 11:45	<b>Name ^</b>	<b>Date Picture Taken</b>
Attic 4	8/29/2007 11:45	Basement	9/12/2007 14:16
Attic 5	8/29/2007 11:46	Exterior 1	9/12/2007 14:10
Attic 6	8/29/2007 11:46	Exterior 2	9/12/2007 14:10
Attic 7	8/29/2007 11:46	Exterior 3	9/12/2007 14:11
Attic 10	8/29/2007 11:48	Exterior 4	9/12/2007 14:11
Basement Rec Room	8/29/2007 11:58	Exterior 5	9/12/2007 14:12
Basement Rec Room2	8/29/2007 11:58	Exterior 6	9/12/2007 14:14
Basement Bath	8/29/2007 12:00	Exterior 7	9/12/2007 14:14
Basement Bath 2	8/29/2007 12:01	Exterior 8	9/12/2007 14:15
Basement Bath3	8/29/2007 12:01	Bathroom	9/12/2007 14:31
Downstairs Bedroom	8/29/2007 12:04		
Downstairs Bedroom 2	8/29/2007 12:04		
Crawlspace 1	8/29/2007 12:06		



**FORENSIC APPLICATIONS CONSULTING TECHNOLOGIES, INC.**

**APPENDIX C  
FINAL CERTIFICATION SIGNATURE SHEET**





**FORENSIC APPLICATIONS CONSULTING TECHNOLOGIES, INC.**

**APPENDIX D**  
**FIELD DATA SHEETS AND ANALYTICAL SUBMITTALS**



# ANALYTICAL CHEMISTRY INC.

Established in 1979

4611 S. 134th Place, Ste 200  
Tukwila WA 98168-3240  
Phone: 206-622-8353  
Fax: 206-622-4623

E-mail: aci@acilabs.com

Website: www.acilabs.com

<b>Lab Reference:</b>	07161-02
<b>Date Received:</b>	September 5, 2007
<b>Date Completed:</b>	September 7, 2007

September 7, 2007

CAOIMHIN P CONNELL  
FORENSIC APPLICATIONS INC  
185 BOUNTY HUNTER'S LN  
BAILEY CO 80421

**CLIENT REF:** Mt. Werner

**SAMPLES:** wipes/13

**ANALYSIS:** Methamphetamine by Gas Chromatography-Mass Spectrometry.

**RESULTS:** in total micrograms (ug)

<b>Sample</b>	<b>Methamphetamine, ug</b>	<b>% Surrogate Recovery</b>
MWM082907 - 01	0.286	97
MWM082907 - 02	0.280	93
MWM082907 - 03	0.096	94
MWM082907 - 04	0.038	92
MWM082907 - 05	< 0.030	93
MWM082907 - 06	0.045	96
MWM082907 - 07	0.106	98
MWM082907 - 08	1.69	105
MWM082907 - 09	0.056	95
MWM082907 - 10	0.442	96
MWM082907 - 11	4.01	106
MWM082907 - 12	0.082	95
MWM082907 - 13	< 0.030	96
QA/QC Method Blank	< 0.004	
QC 0.100 ug Standard	0.097	
QA 0.020 ug Matrix Spike	0.018	
QA 0.020 ug Matrix Spike Duplicate	0.018	
Method Detection Limit (MDL)	0.004	
Practical Quantitation Limit (PQL)	0.030	

'<': less than, not detected above the PQL

Robert M. Orheim  
Director of Laboratories





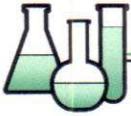
**SAMPLING FIELD FORM**

**FACTS project name:** MT. WERNER  
**Date:** 8/24/07  
**Reporting IH:** Caoimhin P. Connell, Forensic IH  
**Form #** ML17  
**Alcohol Lot#** 0702 Gauze Lot#: ~~See notes~~ 702  
**Preliminary** \_\_\_\_\_ **Intermediate** \_\_\_\_\_ **Final** \_\_\_\_\_

Sample ID	Type	Area/ Volume/ Weight	Location	Func. Space	Dimensions	Substrate	Result
MUM082007 01			MAIN FLE - Living Room / SW wall	1	9x9	PTD Drywall	
* 02			UPSTE - Central BDRM	2	9x9	PTD OSB	
03			KITCHEN / E wall CABINETS	3	9x9	WD Composite	
04			UPSTE - MASTER BDRM	4	9x9	PTD Dry	
05			BLANK				
06			Bsmt. Rec. Rm.	5	7x12	PTD wood	
7			UPSTE. BATH / ceiling	6	9x9	PTD Dry	
8			Attic	7	10x10	PTD Dry	
9			Attic	8	4 1/2 x 3 1/2	PTD Dry	
10			UPSTE. NE BDRM	9	9x9	PTD Dry	
11			UPSTE. BETWEEN HALLS	10	4 x 4	WOOD	
12			UPSTE. BEDROOM	11	4 x 4	PT Dry	
13			BLANK				

Sample Types: W=Wipe; V=Microvacuum; A=Air; B=Bulk; L=Liquid

- \* 02 - Sample from E, closet hole in central BDRM (west wall)
- \* 03 - Sample from E, closet hole in central BDRM (west wall)
- \* 04 - Sample from E, closet hole in central BDRM (west wall)
- 10 - ceiling BDRM closet (NW corner of closet)
- 11 - COPPER PIPE IN ATTIC - VERTICAL
- 12 - 8" eddy column in attic space



# ANALYTICAL CHEMISTRY INC.

Established in 1979

4611 S. 134th Place, Ste 200  
Tukwila WA 98168-3240  
Phone: 206-622-8353  
Fax: 206-622-4623

E-mail: aci@acilabs.com

Website: www.acilabs.com

<b>Lab Reference:</b>	07163-04
<b>Date Received:</b>	September 14, 2007
<b>Date Completed:</b>	September 17, 2007

September 17, 2007

CAOIMHIN P CONNELL  
FORENSIC APPLICATIONS INC  
185 BOUNTY HUNTER'S LN  
BAILEY CO 80421

**CLIENT REF:** MWM

**SAMPLES:** wipes/1

**ANALYSIS:** Methamphetamine by Gas Chromatography-Mass Spectrometry.

**RESULTS:** in total micrograms (ug)

<b>Sample</b>	<b>Methamphetamine, ug</b>	<b>% Surrogate Recovery</b>
MWM091207 - 01	0.381	100
QA/QC Method Blank	< 0.004	
QC 0.100 ug Standard	0.101	
QA 0.020 ug Matrix Spike	0.020	
QA 0.020 ug Matrix Spike Duplicate	0.020	
Method Detection Limit (MDL)	0.004	
Practical Quantitation Limit (PQL)	0.030	

'<': less than, not detected above the PQL

Robert M. Orheim  
Director of Laboratories





**FORENSIC APPLICATIONS CONSULTING TECHNOLOGIES, INC.**

**APPENDIX E  
FINAL CLOSEOUT INVENTORY DOCUMENT**





**FORENSIC APPLICATIONS CONSULTING TECHNOLOGIES, INC.**

**APPENDIX F  
INDUSTRIAL HYGIENIST'S SOQ**



## FORENSIC APPLICATIONS CONSULTING TECHNOLOGIES, INC.

### CONSULTANT STATEMENT OF QUALIFICATIONS

(as required by State Board of Health Regulations 6 CCR 1014-3 Section 8.21)

<b>FACTs project name:</b>	<b>Mt. Werner</b>	<b>Form ML15</b>
<b>Date: October 1, 2007</b>		
<b>Reporting IH:</b>	<b>Caoimhín P. Connell, Forensic IH</b>	

Caoimhín P. Connell, is a private consulting forensic industrial hygienist meeting the definition of an "Industrial Hygienist" as that term is defined in the Colorado Revised Statutes §24-30-1402. Mr. Connell has been a practicing Industrial Hygienist in the State of Colorado since 1987 and has been involved in clandestine drug lab (including meth-lab) investigations since May of 2002.

Mr. Connell is a recognized authority in methlab operations and is a Certified Meth-Lab Safety Instructor through the Colorado Regional Community Policing Institute (Colorado Department of Public Safety, Division of Criminal Justice). Mr. Connell has provided methlab training for officers of over 25 Colorado Police agencies, 20 Sheriff's Offices, federal agents, and probation and parole officers from the 2<sup>nd</sup>, 7<sup>th</sup> and 9<sup>th</sup> Colorado judicial districts. He has provided meth-lab lectures to prestigious organizations such as the County Sheriff's of Colorado, the American Industrial Hygiene Association, and the National Safety Council.

Mr. Connell is Colorado's only private consulting industrial hygienist certified by the Office of National Drug Control Policy High Intensity Drug Trafficking Area Clandestine Drug Lab Safety Program, and P.O.S.T. certified by the Colorado Department of Law (Certification Number B-10670); he is a member of the Colorado Drug Investigators Association, and the American Industrial Hygiene Association.

He has received over 120 hours of highly specialized law-enforcement sensitive training in meth-labs and clan-labs (including manufacturing and identification of booby-traps commonly found at meth-labs) through the Iowa National Guard/Midwest Counterdrug Training Center and the Florida National Guard/Multijurisdictional Counterdrug Task Force, St. Petersburg College as well as through the U.S. Bureau of Justice Assistance (US Dept. of Justice). Additionally, he received extensive training in the Colorado Revised Statutes, including Title 18, Article 18 "Uniform Controlled Substances Act of 1992."

Mr. Connell is also a law enforcement officer in the State of Colorado, who has conducted clandestine laboratory investigations and performed risk, contamination, hazard and exposure assessments from both the law enforcement (criminal) perspective, and from the civil perspective in residences, apartments, motor vehicles, and condominiums. Mr. Connell has conducted over 50 assessments in illegal drug labs.

He has extensive experience performing assessments pursuant to the Colorado meth-lab regulation, 6 CCR 1014-3, (State Board Of Health *Regulations Pertaining to the Cleanup of Methamphetamine Laboratories*) and was an original team member on two of the legislative working-groups which wrote the regulations for the State of Colorado. Mr. Connell was the primary contributing author of Appendix A (*Sampling Methods And Procedures*) and Attachment to Appendix A (*Sampling Methods And Procedures Sampling Theory*) of the Colorado regulations. He has provided expert witness testimony in civil cases and testified before the Colorado Board of Health and Colorado Legislature Judicial Committee regarding methlab issues.

Mr. Connell, who is a committee member of the ASTM International Forensic Sciences Committee, is the sole sponsor of the draft ASTM E50 *Standard Practice for the Assessment of Contamination at Suspected Clandestine Drug Laboratories*, and he is a contributing author of a recent (2007) AIHA Publication on methlab assessment and remediation.



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**APPENDIX G  
DAILY FIELD OBSERVATIONS**

- 1) ARRIVE ON SITE @ 11:22 MET PETE HE HAS TWO EMPLOYEES ON SITE: ADAM PETRZILKA, KURT BROWN.
- 2) CONTAINMENT NOT YET ESTABLISHED. TWO EMPLOYEES FROM ELITE ABATEMENT CO. WERE SENT OVER TO COMPLETE SET UP. I ASKED PETER FOR NAMES AND TRAINING DOCS.
- 3) AT ~ 12:30 AREA READY FOR INSPECTION. ALL OK, NEG P ESTABLISHED IN ATTIC USING 1X2K CFM NAM. THREE ADDITIONAL NAMs WERE SET UP ONE ON EACH FLOOR.
- 4) APEX OF ROOF MAY BE A SEALED ATTIC. NO ACCESS INTERIOR SPACE IS NOT DETERMINABLE. CALLED KINGBLY AND ADVISED.
- 5) AIR TEMP IS 89°F
- 6) LEAVE SITE @ 12:30
- 7) ARRIVE ON SITE @ 13:40. Cloud COVER
- 8) AIR TEMP @ 1400 = 96°F OUTLET T = 106°F
- 9) Cloudy SKIES
- 10)  $QV = 1480 @ 24.2 \text{ Hr}$ . OUTLET DIAMETER = 12"  
 $CFM = V \cdot A \Rightarrow V = (0.9 \times (2295 = 24.2)) = 1.11 \text{ L/s}$  ~~5140 CFM~~  
 $A = 314 \cdot 0.785$   $S$  1294 CFM
- 11) AT 15:00 OUTLOADING OF DOWNSTAIRS - DEBRIS THROUGH BOTTOM WINDOW. TURNED ON BASEMENT NAM:  
 $QV = 1440 @ 24.0 \text{ Hr}$  FOR A 12" DIAMETER FLEX.
- 12) 15:30 Cloud COVER, AIR TEMP 89°F

- 1) ARRIVED ON SITE @ 12:15. WORK CREW AT LUNCH. CALLED PETER FOR UPDATE.
- 2) LEFT SITE @ 12:30 FOR LUNCH RETURNED @ 12:50.
- 3) CREW RETURNED TO SITE @ 1:00 (ADAM & PETER)
- 4)  $T^{\circ} = 91^{\circ}F @ 24.30 mmHg$
- 5) PETER HAS BEEN GIVING ME DAILY UPDATES: CURRENTLY WORK IS COMPLETING IN ATTIC, 2<sup>ND</sup> FLOOR & FIRST FLOOR. TODAY CREW IS SCRAMBLING BASEMENT.
- 6) ARON HEASTON WAS ON SITE THURSDAY & FRIDAY THIS WEEK
- 7) KURT & PETER ON SITE SATURDAY
- 8) 1X ZK NAM RUNNING IN BASEMENT @ 1:30 PM FOR 12" DUCT = 12:10 PM
- 9) I SUITED UP AND ENTERED TO TAKE VIDEOS & PHOTOS
- 10) (CLOUD COVER ALL DAY)
- 11) ONE MAN SPRAY AND ANOTHER SCRUB w/ LONG PADDED PAD.
- 12) THEN LIQUID GET SUCKED UP & DRAINAGE
- 13) NAM EXHAUST DURING SPRAYING = 2 ppm BRN, 3.7 ppm HCL  
I ASSUME HCL IS A FALSE READING DUE TO  $H_2O_2$  IN AIR - I HAVE CALLED ENMET FOR CALIBRATION
- 14) I CONFIRMED THAT PETER HAS MSDS FOR MATERIALS ON SITE.
- 15) ELITE (SUBCONTRACTOR) HAS NOT YET PROVIDED NAMES AND TRAINING CERTI FOR TWO EMPLOYEES ON SITE DURING SET UP. PETER CALLED THEM TODAY TO REMIND THEM.
- 16) EMPLOYEES REPORTING NO IRRITATION WHILE USING THE  $H_2O_2$
- 17) COOLING OFF SIGNIFICANTLY BY 4pm
- 18) VERIFIED & PHOTOGRAPHED PERMIT ON FRONT OF HOUSE.
- 19) VERIFIED & PHOTOGRAPHED GFI ON GENERATOR



**FORENSIC APPLICATIONS CONSULTING TECHNOLOGIES, INC.**

**APPENDIX H  
COMPACT DIGITAL DISC**