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**FINAL REPORT**  
**METHAMPHETAMINE REMEDIATION PROJECT**  
**FOR**  
**4690 WEST 76<sup>TH</sup> AVENUE**  
**WESTMINSTER, COLORADO**

*Prepared For:*

**MR. FONDA APOSTOLOPOULOS**  
**COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT**  
**4300 CHERRY CREEK DRIVE SOUTH**  
**DENVER, COLORADO**

*Prepared By:*

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**DENVER, COLORADO 80239**

**GHP PROJECT NO. 07502.21**

**February 28, 2008**



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## 1.0 INTRODUCTION

On August 8, 2007, Mr. Peter Cappel, an industrial hygienist, with Gobbell Hays Partners, Inc. (GHP), conducted an assessment for methamphetamine (meth) contamination in the single family home located at 4690 West 76<sup>th</sup> Avenue in Westminster, Colorado.

Based on information provided by the owner, it was reported to GHP that the use and possible manufacture of methamphetamines had previously taken place in the house.

GHP was retained by Mr. Fonda Apostolopoulos with the Colorado Department of Public Health and Environment (CDPHE) to conduct a preliminary assessment for meth, develop a remediation plan for the property and conduct clearance meth wipe sampling at the completion of the remediation.

Based on the preliminary assessment, it was determined that it was necessary to conduct some clean up of the house.

CDPHE contracted with Belfor Environmental, Inc. (Belfor) to conduct meth remediation of the home. This decontamination was conducted in November of 2007 and was completed in January of 2007. GHP performed initial meth clearance sampling on December 3<sup>rd</sup> 2007. Based on the results of the initial clearance testing additional cleaning was necessary in several locations. On February 5<sup>th</sup> 2007 final clearance for the home was achieved. This report reviews the meth sampling data collected by GHP as part of the meth clearance process and provides all the data for the clearance testing performed by GHP.

## 2.0 METHAMPHETAMINE REMEDIATION

### 2.1 Property Description:

The property is located at 4690 West 76<sup>th</sup> Avenue in Westminster, Colorado. It is a single family ranch home with a detached garage. The first floor has a bathroom, kitchen/dining area, living room, two bedrooms and one room addition on the south side of the home. The basement level has a central seating area, large storage area, laundry/furnace room, bathroom and two bedrooms. Heat is provided by a natural gas forced air furnace. There is a detached oversized two-car garage to the south and east of the house.

### 2.2 Manufacturing Methods:

No evidence of meth manufacturing was found during GHP's investigation.

### 2.3 Police Reports:

Ms. Tousky, the current owner of the home, provided GHP with a Westminster Police report dated August 26, 2003, identified as OCA: 2003-12001. This report, indicated that during an arrest, an amount of methamphetamine was seized on August 26, 2003. The report also mentions "that address has a recent history for having



vehicles associated that are stolen, have fictitious plates, suspended drivers, and controlled substance cases.”

**2.4 Chemical Storage:**

During GHP’s preliminary assessment, no chemicals used in the manufacture of methamphetamine were discovered.

**2.5 Waste Disposal:**

Evidence of waste disposal associated with a meth lab was not found during investigations conducted by GHP.

**2.6 Cooking Areas:**

Information was not provided to GHP regarding possible cooking locations. Based on GHP’s observations, no cooking areas were identified in the home.

**2.7 Signs of Contamination:**

At the time of the inspection, no areas of contamination could be identified. The inspection concentrated on signs of etching on plumbing fixtures, fire damage, or evidence of dead or dying vegetation in the yard of the property.

**2.8 Plumbing System Inspection:**

Inspection of the plumbing system did not reveal signs of staining or etching. The home’s plumbing system ties into the municipal sewage system.

**2.9 Adjacent Units:**

The property is a single family home with a detached garage. There are no adjacent living units that would be impacted by the meth contamination for this property.

**2.10 Common Ventilation Systems:**

The house was conditioned by means of a forced air furnace located in the basement.

**2.11 Preliminary Sampling Procedures:**

Fifteen (17) wipe samples, including two field blanks, were collected in the home. Refer to the Preliminary Report dated August 29<sup>th</sup> 2007 for the complete sampling information.

Based on the preliminary assessment GHP developed a meth decontamination plan. A copy of this plan is attached in Appendix A. The decontamination plan was developed to address building surfaces in the occupied areas of the home. Limited sampling of the personal contents in the home was conducted. The personal contents in the home were assumed not to be contaminated and were not cleaned as part of the plan. Sampling was done in accordance with the Colorado Department of Public Health and Environmental (CDPHE) regulations 6CCR 1014-3 Regulations



pertaining to the cleanup of methamphetamine laboratories.

### 2.12 Analytical Methods:

All meth analysis for this project was conducted by Data Chem Inc. in Salt Lake City, Utah. Testing for methamphetamines was conducted using Gas Chromatography-Mass Spectrometry. Copies of all the laboratory reports are included in Appendix B.

### 2.13 Preliminary Sampling Results:

Table 1 lists the sample locations and results of the preliminary assessment.

#### Meth Wipe Sample Analysis Collected August 8<sup>th</sup>, 2007

Sample Number	Sample Location	Meth Results $\mu\text{g}/100\text{cm}^2$
M-07502.21-01	First (main) floor – northwest Bedroom, ceiling supply vent	0.45
M-07502.21-02	First (main) floor – sub floor under carpet at threshold to northwest bedroom and hall	<0.10
M-07502.21-03	First (main) floor – attic access frame at ceiling level of hall	1.4
M-07502.21-04	First (main) floor – in supply plenum in living room south wall on east end	2.9
M-07502.21-05	First (main) floor – supply duct at floor level along north wall east end of living room	19
M-07502.21-06	First (main) floor – east supply duct at floor level between addition and kitchen.	5.4
M-07502.21-07	Basement – furnace fan housing	2.6
M-07502.21-08	Basement – ceiling of storage area under basement stairs	1.9
M-07502.21-09	Basement – laundry area floor in southeast corner	0.39
M-07502.21-10	Basement – end table in large open room along north wall	0.11
M-07502.21-11	Basement – sub floor under carpet at threshold of hall and southwest bedroom	0.19
M-07502.21-12	First (main) floor – top of small wood box/kit in southeast corner of living room	0.13
M-07502.21-13	Garage – southwest corner of garage, approximately 5 feet from south and 5 feet from west walls	<0.10



<b>M-07502.21-14</b>	Garage – Top of speaker cabinet in southwest portion of garage	<b>0.13</b>
<b>M-07502.21-15</b>	Garage – southeast corner of garage, approximately 5 feet from south and 3 feet from east walls	<b>1.4</b>
<b>M-07502.21-16</b>	Garage – wood shelf frame along south wall	<b>0.61</b>
<b>M-07502.21-17</b>	Garage – ceiling, 3 feet east of west overhead door	<b>30</b>
<b>Blank I</b>	Blank I	<b>&lt;0.10</b>
<b>Blank II</b>	Blank II	<b>&lt;0.10</b>

#### **2.14 Decontamination Procedures:**

It was assumed that all walls, ceilings and HVAC systems were methamphetamine contaminated. Personal property was determined to not be contaminated. A decontamination plan was developed to protect floor coverings, personal property and appliances. Remaining surfaces were cleaned using wet wipe methods, HEPA filtered vacuum cleaners and HEPA equipped pressure differential units (PDUs). The furnace and duct work was cleaned by a Duct Works, Inc.

#### **2.15 Removal Procedures:**

No personal property was determined to be methamphetamine contaminated therefore no removal of personal property occurred.

#### **2.16 Waste Management Procedures:**

Waste management was done in strict accordance with the Colorado Department of Public Health and Environment (CDPHE) regulation 6 CCR 1014-3 Regulations Pertaining To The Cleanup Of Methamphetamine Laboratories.

#### **2.17 Post Decontamination Sampling:**

Initial clearance sampling was began on December 3<sup>rd</sup> 2007 and concluded on February 5<sup>th</sup> 2008. A list of sample numbers, sample locations and results may be found in Table 2. The samples were submitted to Data Chem, Inc. in Salt Lake City, Utah for analysis.



**Table 2**

<b>Sample Number</b>	<b>Sample Location</b>	<b>Meth Results µg/100cm<sup>2</sup></b>
<b>MC-07502.21-01</b>	First (main) floor – northwest Bedroom, ceiling supply vent	<b>&lt;0.10</b>
<b>MC-07502.21-02</b>	First (main) floor – northwest Bedroom, ceiling along north exterior wall 3’ from west wall	<b>0.89</b>
<b>MC-07502.21-03</b>	First (main) floor – attic access frame at ceiling level of hall	<b>&lt;0.10</b>
<b>MC-07502.21-04</b>	First (main) floor – in supply plenum in living room south wall on east end	<b>0.53</b>
<b>MC-07502.21-05</b>	First (main) floor – supply duct at floor level along north wall east end of living room	<b>2.9</b>
<b>MC-07502.21-06</b>	First (main) floor – east supply duct at floor level between addition and kitchen.	<b>0.60</b>
<b>MC-07502.21-07</b>	Basement – furnace fan housing	<b>0.20</b>
<b>MC-07502.21-08</b>	Basement – ceiling of storage area under basement stairs	<b>0.16</b>
<b>MC-07502.21-09</b>	Basement – laundry area floor in southeast corner	<b>0.23</b>
<b>MC-07502.21-10</b>	Basement – main room ceiling center	<b>0.14</b>
<b>MC-07502.21-11</b>	Basement – southwest bedroom ceiling center	<b>0.17</b>
<b>MC-07502.21-12</b>	First (main) floor –kitchen ceiling east side at wall	<b>0.37</b>
<b>MC-07502.21-13</b>	Garage – southwest corner of garage, approximately 5 feet from south and 5 feet from west walls	<b>&lt;0.10</b>
<b>MC-07502.21-14</b>	Garage – south wall	<b>0.24</b>
<b>MC-07502.21-15</b>	Garage – southeast corner of garage, approximately 5 feet from south and 3 feet from east walls	<b>&lt;0.10</b>
<b>MC-07502.21-16</b>	Garage – wood shelf frame along south wall	<b>&lt;0.10</b>
<b>MC-07502.21-17</b>	Garage – ceiling, 3 feet east of west overhead door	<b>0.65</b>
<b>MC-07502.21-18</b>	Garage – ceiling east side just south of light	<b>0.29</b>
<b>MC-07502.21-19</b>	Basement –bathroom ceiling center	<b>&lt;0.10</b>
<b>MC-07502.21-20</b>	First (main) floor bath ceiling	<b>&lt;0.10</b>
<b>Blank I</b>	Blank I	<b>&lt;0.10</b>
<b>Blank II</b>	Blank II	<b>&lt;0.10</b>



<b>Samples Collected 02-05-08</b>		
<b>MC-07502.21-21</b>	First (main) floor – northwest Bedroom, ceiling along north exterior wall 3' from west wall	<b>1.3</b>
<b>MC-07502.21-22</b>	First (main) floor – in supply plenum in living room south wall on east end	<b>0.37</b>
<b>MC-07502.21-23</b>	First (main) floor – supply duct at floor level along north wall east end of living room	<b>0.94</b>
<b>MC-07502.21-24</b>	First (main) floor – east supply duct at floor level between addition and kitchen.	<b>0.12</b>
<b>MC-07502.21-25</b>	Garage – ceiling, 3 feet east of west overhead door	<b>&lt;0.10</b>
<b>Blank I</b>	Blank I	<b>&lt;0.10</b>
<b>Blank II</b>	Blank II	<b>&lt;0.10</b>

Five initial clearance samples collected on December 3<sup>rd</sup> 2007 failed the clearance level of 0.50 µg/100cm<sup>2</sup>. Those five areas were recleaned by Belfor and then retested by GHP on February 5<sup>th</sup> 2008. Those five locations are identified above. Two of the five samples collected on February 5<sup>th</sup> again failed the clearance level of 0.50 µg/100cm<sup>2</sup>. The two locations that failed the clearance testing were the northwest bedroom ceiling and the living room supply duct. The condition of the paint in the ceiling in the northwest bedroom was in poor condition and was peeling in some location. Because of the condition of the paint it was determined that further cleaning would damage the ceiling. Based on conversations with Mr. Apostolopoulos, Mr. Cappel suggested that the ceiling in the bedroom be sealed rather than recleaned. The purpose of sealing the surface was to prevent exposure of meth to the occupants. Encapsulation as a means to pass clearance testing and achieve a level at or below 0.50 µg/100cm<sup>2</sup> is not acceptable under CDPHE regulation 6 CCR 1014-3 Regulations Pertaining To The Cleanup Of Methamphetamine Laboratories. However, the intent of this project was to make the home safe for Ms. Tousky and the other occupants of the home based on the funding available through CDPHE. It was determine that encapsulating the ceiling was the best options. Rather than recleaning the living room supply duct the duct and was replaced.

Based on these responses and the clearance test results it was determined that the house and the garage were safe to occupy.

## **2.18 Consultant Statement of Qualifications**

GHP consultant was Peter Cappel, Project Manager and Project Industrial Hygienist, (refer to Resume in Appendix C).





### **2.19 Certification of Procedures and Results**

All standard practices as described in CDPHE regulation 6 CCR 1014-3 were adhered to during the duration of this project with the exception of sealing the northwest bedroom ceiling as described in 2.17 above. This report and all records pertaining to this methamphetamine remediation project should be retained for a minimum of seven years.

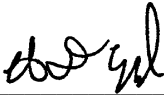
### **2.20 Methamphetamine Contamination Disclosure**

Methamphetamine contamination disclosure is now required due to the passage of Assembly Bill 1025, (Methamphetamine Contaminated Property Cleanup Act of 2005). It is now required for a property owner to disclose in writing to a prospective buyer or tenant if local health officials have issued an order prohibiting the use or occupancy of a property contaminated by methamphetamine laboratory activity. The owner must also give a copy of the pending order to the buyer to acknowledge receipt in writing. The bill also establishes remediation and re-occupancy standard for determining when a property, contaminated as a result of methamphetamine activity, is safe for human occupancy. Local health officials, after conducting an investigation, are also required to issue an order prohibiting the use or occupancy and to post the order on the property, in addition to the property owner taking specific actions. Failure to comply with these, and all requirements of AB 1025, may subject an owner to, among other things, a civil penalty up to \$5000. Aside from disclosure requirements, AB 1025 also outlines procedures for local authorities to deal with methamphetamine contaminated properties, including filing of a lien against a property until the owner cleans up contamination or pays for cleanup costs.

### **2.21 Certification Statement:**

I do hereby certify that I conducted a preliminary assessment of the subject properties in accordance with 6 CCR 1014-3, § 4, and that I conducted post-decontamination clearance sampling in accordance with 6 CCR 1014-3, § 6. I further certify that the properties have been decontaminated in accordance with the procedures set forth in 6 CCR 1014-3, § 5, and that the cleanup standards established by 6 CCR 1014-3, § 7 have been met, with the exception noted in 2.17 above, as evidenced by testing I conducted.

### **2.22 Signature of Consultants:**

Signed,  \_\_\_\_\_

Peter Cappel, Project Manager, Senior Industrial Hygienist

# **APPENDIX A**

## **METH DECONTAMINATION PLAN**



## **METHAMPHETAMINE DECONTAMINATION PLAN**

**For**

**4690 West 76<sup>th</sup> Avenue  
Westminster, Colorado**

**Developed September 20, 2007 by Gobbell Hays Partners, Inc.  
GHP Project Number 07502.21**

- Contractor is to be approved through Tri-County Health Department for methamphetamine remediation.
- The home has not been inspected for asbestos-containing materials (ACMs). No suspect ACM's are to be disturbed during this project.
- The contents of the garage will be wet wiped or HEPA vacuumed then covered with polyethylene sheeting. The entire interior of the garage will be cleaned by HEPA vacuuming and wet wipe methods.
- Only the exterior of the kitchen cabinets are to be cleaned. The contents of the cabinets do not need to be removed and the interior of the cabinets are not to be cleaned.
- Wall and ceiling mounted light fixtures are to be removed and cleaned and replaced.
- The furnace and all associated supply and return duct work and plenums shall be cleaned. If a sub-contractor is utilized to conduct the furnace and duct cleaning, the contractor is to receive approval from GHP to utilize that duct cleaning contractor. The duct cleaning contractor must be qualified to conduct meth remediation.
- The contractor is to move all room/area contents as required to complete cleaning. The preferred phasing will be to take one room/area at a time and move the contents to one side of that area/room and clean the empty half and then move the contents to the other side and clean the second half. All wall, ceiling and floor surfaces are to be cleaned by contractor. Then move the contents back to original locations.
- The home owner will remove and replace all wall hangings and decorations.
- All wall to wall carpeting is to be cleaned using a water extraction process.
- Any bathroom exhaust fans are to be removed and disposed of meth contaminated. Contractor is to clean bath exhaust ducts. The contractor is to replace with new fans that are similar.
- Bidders are to provide an alternate cost if all the contents are moved by others.
- While an area is being cleaned, that area is to be isolated using critical barriers of 6 mil poly.
- A HEPA equipped negative air machine is to be operated and exhausted outdoors in the isolated area during all active cleaning.
- The interior of all closets are to be HEPA vacuumed and wipe wiped clean. The contractor is to assume that the contents of all closets will be emptied by the home owner prior to cleaning and the contents replaced by others.
- GHP will conduct clearance testing on each room/area after the contractor has completed each room/area.
- The home owner will be allowed to use the room/area before the clearance results are available.



**APPENDIX B**

**METHAMPHETAMINE LABORATORY  
REPORTS**



# ANALYTICAL REPORT

DEC 10 2007

Report Date \_\_\_\_\_

Pete Cappel  
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10500 East 54th Avenue  
Suite J  
Denver, CO 80239

Phone: (303) 574-0082 x 205  
Fax: (303) 574-0061  
E-mail: pcappel@ghp1.com

Client Project ID: **Gobbell Hayes 120507**  
DCL Workorder: **7339021**  
DCL Project Manager: Marilyn Andrews

## Analytical Results

Sample ID: <b>MC-07502.21-1</b>	Media: Wipe	Collected: 12/3/2007
Lab ID: 7339021001	Sampling Location: 07502.21	Received: 12/5/2007

Method: Methamphetamine by LC/MS	Sampling Parameter: Area 100 cm <sup>2</sup>	Analyzed: 12/7/2007	
Analyte	ug/sample	ug/100cm <sup>2</sup>	RL (ug/sample)
Methamphetamine	<0.10	<0.10	0.10

Sample ID: <b>MC-07502.21-2</b>	Media: Wipe	Collected: 12/3/2007
Lab ID: 7339021002	Sampling Location: 07502.21	Received: 12/5/2007

Method: Methamphetamine by LC/MS	Sampling Parameter: Area 100 cm <sup>2</sup>	Analyzed: 12/7/2007	
Analyte	ug/sample	ug/100cm <sup>2</sup>	RL (ug/sample)
Methamphetamine	<b>0.89</b>	<b>0.89</b>	0.10

Sample ID: <b>MC-07502.21-3</b>	Media: Wipe	Collected: 12/3/2007
Lab ID: 7339021003	Sampling Location: 07502.21	Received: 12/5/2007

Method: Methamphetamine by LC/MS	Sampling Parameter: Area 100 cm <sup>2</sup>	Analyzed: 12/7/2007	
Analyte	ug/sample	ug/100cm <sup>2</sup>	RL (ug/sample)
Methamphetamine	<0.10	<0.10	0.10

Sample ID: <b>MC-07502.21-4</b>	Media: Wipe	Collected: 12/3/2007
Lab ID: 7339021004	Sampling Location: 07502.21	Received: 12/5/2007

Method: Methamphetamine by LC/MS	Sampling Parameter: Area 100 cm <sup>2</sup>	Analyzed: 12/7/2007	
Analyte	ug/sample	ug/100cm <sup>2</sup>	RL (ug/sample)
Methamphetamine	<b>0.53</b>	<b>0.53</b>	0.10

Sample ID: <b>MC-07502.21-5</b>	Media: Wipe	Collected: 12/3/2007
Lab ID: 7339021005	Sampling Location: 07502.21	Received: 12/5/2007



## ANALYTICAL REPORT

Client Project ID: **Gobbell Hayes 120507**

DCL Workorder: **7339021**

DCL Project Manager: **Marilyn Andrews**

Analytical Results

Sample ID: <b>MC-07502.21-5</b>		Media: Wipe		Collected: 12/3/2007
Lab ID: 7339021005		Sampling Location: 07502.21		Received: 12/5/2007
Method: Methamphetamine by LC/MS		Sampling Parameter: Area 100 cm <sup>2</sup>		Analyzed: 12/7/2007
Analyte	ug/sample	ug/100cm <sup>2</sup>	RL (ug/sample)	
Methamphetamine	<b>2.9</b>	<b>2.9</b>	0.10	

Sample ID: <b>MC-07502.21-6</b>		Media: Wipe		Collected: 12/3/2007
Lab ID: 7339021006		Sampling Location: 07502.21		Received: 12/5/2007
Method: Methamphetamine by LC/MS		Sampling Parameter: Area 100 cm <sup>2</sup>		Analyzed: 12/7/2007
Analyte	ug/sample	ug/100cm <sup>2</sup>	RL (ug/sample)	
Methamphetamine	<b>0.60</b>	<b>0.60</b>	0.10	

Sample ID: <b>MC-07502.21-7</b>		Media: Wipe		Collected: 12/3/2007
Lab ID: 7339021007		Sampling Location: 07502.21		Received: 12/5/2007
Method: Methamphetamine by LC/MS		Sampling Parameter: Area 100 cm <sup>2</sup>		Analyzed: 12/7/2007
Analyte	ug/sample	ug/100cm <sup>2</sup>	RL (ug/sample)	
Methamphetamine	<b>0.20</b>	<b>0.20</b>	0.10	

Sample ID: <b>MC-07502.21-8</b>		Media: Wipe		Collected: 12/3/2007
Lab ID: 7339021008		Sampling Location: 07502.21		Received: 12/5/2007
Method: Methamphetamine by LC/MS		Sampling Parameter: Area 100 cm <sup>2</sup>		Analyzed: 12/7/2007
Analyte	ug/sample	ug/100cm <sup>2</sup>	RL (ug/sample)	
Methamphetamine	<b>0.16</b>	<b>0.16</b>	0.10	

Sample ID: <b>MC-07502.21-9</b>		Media: Wipe		Collected: 12/3/2007
Lab ID: 7339021009		Sampling Location: 07502.21		Received: 12/5/2007
Method: Methamphetamine by LC/MS		Sampling Parameter: Area 100 cm <sup>2</sup>		Analyzed: 12/7/2007
Analyte	ug/sample	ug/100cm <sup>2</sup>	RL (ug/sample)	
Methamphetamine	<b>0.23</b>	<b>0.23</b>	0.10	

Sample ID: <b>MC-07502.21-10</b>		Media: Wipe		Collected: 12/3/2007
Lab ID: 7339021010		Sampling Location: 07502.21		Received: 12/5/2007



# ANALYTICAL REPORT

Client Project ID: **Gobbell Hayes 120507**  
DCL Workorder: **7339021**  
DCL Project Manager: Marilyn Andrews

## Analytical Results

Sample ID: <b>MC-07502.21-10</b>	Media: Wipe	Collected: 12/3/2007	
Lab ID: 7339021010	Sampling Location: 07502.21	Received: 12/5/2007	
Method: Methamphetamine by LC/MS	Sampling Parameter: Area 100 cm <sup>2</sup>	Analyzed: 12/7/2007	
Analyte	ug/sample	ug/100cm <sup>2</sup>	RL (ug/sample)
Methamphetamine	<b>0.14</b>	<b>0.14</b>	0.10

Sample ID: <b>MC-07502.21-11</b>	Media: Wipe	Collected: 12/3/2007	
Lab ID: 7339021011	Sampling Location: 07502.21	Received: 12/5/2007	
Method: Methamphetamine by LC/MS	Sampling Parameter: Area 100 cm <sup>2</sup>	Analyzed: 12/7/2007	
Analyte	ug/sample	ug/100cm <sup>2</sup>	RL (ug/sample)
Methamphetamine	<b>0.17</b>	<b>0.17</b>	0.10

Sample ID: <b>MC-07502.21-12</b>	Media: Wipe	Collected: 12/3/2007	
Lab ID: 7339021012	Sampling Location: 07502.21	Received: 12/5/2007	
Method: Methamphetamine by LC/MS	Sampling Parameter: Area 100 cm <sup>2</sup>	Analyzed: 12/7/2007	
Analyte	ug/sample	ug/100cm <sup>2</sup>	RL (ug/sample)
Methamphetamine	<b>0.37</b>	<b>0.37</b>	0.10

Sample ID: <b>MC-07502.21-13</b>	Media: Wipe	Collected: 12/3/2007	
Lab ID: 7339021013	Sampling Location: 07502.21	Received: 12/5/2007	
Method: Methamphetamine by LC/MS	Sampling Parameter: Area 100 cm <sup>2</sup>	Analyzed: 12/7/2007	
Analyte	ug/sample	ug/100cm <sup>2</sup>	RL (ug/sample)
Methamphetamine	<0.10	<0.10	0.10

Sample ID: <b>MC-07502.21-14</b>	Media: Wipe	Collected: 12/3/2007	
Lab ID: 7339021014	Sampling Location: 07502.21	Received: 12/5/2007	
Method: Methamphetamine by LC/MS	Sampling Parameter: Area 100 cm <sup>2</sup>	Analyzed: 12/7/2007	
Analyte	ug/sample	ug/100cm <sup>2</sup>	RL (ug/sample)
Methamphetamine	<b>0.24</b>	<b>0.24</b>	0.10

Sample ID: <b>MC-07502.21-15</b>	Media: Wipe	Collected: 12/3/2007
Lab ID: 7339021015	Sampling Location: 07502.21	Received: 12/5/2007





## ANALYTICAL REPORT

Client Project ID: **Gobbell Hayes 120507**  
 DCL Workorder: **7339021**  
 DCL Project Manager: Marilyn Andrews

**Analytical Results**

Sample ID: <b>MC-07502.21-15</b>		Media: Wipe		Collected: 12/3/2007
Lab ID: 7339021015		Sampling Location: 07502.21		Received: 12/5/2007
Method: Methamphetamine by LC/MS		Sampling Parameter: Area 100 cm <sup>2</sup>		Analyzed: 12/7/2007
Analyte	ug/sample	ug/100cm <sup>2</sup>	RL (ug/sample)	
Methamphetamine	<0.10	<0.10	0.10	

Sample ID: <b>MC-07502.21-16</b>		Media: Wipe		Collected: 12/3/2007
Lab ID: 7339021016		Sampling Location: 07502.21		Received: 12/5/2007
Method: Methamphetamine by LC/MS		Sampling Parameter: Area 100 cm <sup>2</sup>		Analyzed: 12/7/2007
Analyte	ug/sample	ug/100cm <sup>2</sup>	RL (ug/sample)	
Methamphetamine	<0.10	<0.10	0.10	

Sample ID: <b>MC-07502.21-17</b>		Media: Wipe		Collected: 12/3/2007
Lab ID: 7339021017		Sampling Location: 07502.21		Received: 12/5/2007
Method: Methamphetamine by LC/MS		Sampling Parameter: Area 100 cm <sup>2</sup>		Analyzed: 12/7/2007
Analyte	ug/sample	ug/100cm <sup>2</sup>	RL (ug/sample)	
Methamphetamine	<b>0.65</b>	<b>0.65</b>	0.10	

Sample ID: <b>MC-07502.21-18</b>		Media: Wipe		Collected: 12/3/2007
Lab ID: 7339021018		Sampling Location: 07502.21		Received: 12/5/2007
Method: Methamphetamine by LC/MS		Sampling Parameter: Area 100 cm <sup>2</sup>		Analyzed: 12/7/2007
Analyte	ug/sample	ug/100cm <sup>2</sup>	RL (ug/sample)	
Methamphetamine	<b>0.29</b>	<b>0.29</b>	0.10	

Sample ID: <b>MC-07502.21-19</b>		Media: Wipe		Collected: 12/3/2007
Lab ID: 7339021019		Sampling Location: 07502.21		Received: 12/5/2007
Method: Methamphetamine by LC/MS		Sampling Parameter: Area 100 cm <sup>2</sup>		Analyzed: 12/7/2007
Analyte	ug/sample	ug/100cm <sup>2</sup>	RL (ug/sample)	
Methamphetamine	<0.10	<0.10	0.10	

Sample ID: <b>MC-07502.21-20</b>		Media: Wipe		Collected: 12/3/2007
Lab ID: 7339021020		Sampling Location: 07502.21		Received: 12/5/2007





# ANALYTICAL REPORT

Client Project ID: **Gobbell Hayes 120507**  
DCL Workorder: **7339021**  
DCL Project Manager: Marilyn Andrews

### Analytical Results

Sample ID: <b>MC-07502.21-20</b>		Media: Wipe		Collected: 12/3/2007
Lab ID: 7339021020		Sampling Location: 07502.21		Received: 12/5/2007
Method: Methamphetamine by LC/MS		Sampling Parameter: Area 100 cm <sup>2</sup>		Analyzed: 12/7/2007
Analyte	ug/sample	ug/100cm <sup>2</sup>	RL (ug/sample)	
Methamphetamine	<0.10	<0.10	0.10	

Sample ID: <b>Field Blank I</b>		Media: Wipe		Collected: 12/3/2007
Lab ID: 7339021021		Sampling Location: 07502.21		Received: 12/5/2007
Method: Methamphetamine by LC/MS		Sampling Parameter: Area Not Provided		Analyzed: 12/7/2007
Analyte	ug/sample	ug/100cm <sup>2</sup>	RL (ug/sample)	
Methamphetamine	<0.10	NA	0.10	

Sample ID: <b>Field Blank II</b>		Media: Wipe		Collected: 12/3/2007
Lab ID: 7339021022		Sampling Location: 07502.21		Received: 12/5/2007
Method: Methamphetamine by LC/MS		Sampling Parameter: Area Not Provided		Analyzed: 12/7/2007
Analyte	ug/sample	ug/100cm <sup>2</sup>	RL (ug/sample)	
Methamphetamine	<0.10	NA	0.10	

### Report Authorization

Method: Methamphetamine by LC/MS	
<u>Thomas Bosch</u> Analyst	<u>Thomas T. McKay</u> Peer Review
<u>Thomas Bosch</u> Analyst	<u>Thomas T. McKay</u> Peer Review

### Definitions

LOD = Limit of Detection = MDL = Method Detection Limit, A statistical estimate of method/media/instrument sensitivity.  
LOQ = Limit of Quantitation = RL = Reporting Limit, A verified value of method/media/instrument sensitivity.  
ND = Not Detected, Testing result not detected above the LOD or LOQ.  
\*\* No result could be reported, see sample comments for details.  
< This testing result is less than the numerical value.  
() This testing result is between the LOD and LOQ and has higher analytical uncertainty than values at or above the LOQ.



## ANALYTICAL REPORT

### General Lab Comments

The results provided in this report relate only to the items tested.  
Samples were received in acceptable condition unless otherwise noted.  
Samples have not been blank corrected unless otherwise noted.  
This test report shall not be reproduced, except in full, without written approval of DataChem Laboratories, Inc.

DataChem Laboratories, Inc. is accredited by AIHA for specific fields of testing as documented in its current scope of accreditation (ID#101574) which is available on request by contacting your project manager or view on the internet at <http://www.aiha.org>. The quality systems implemented in the laboratory apply to all methods performed by DataChem regardless of this current scope of accreditation which does not include performance based methods, modified methods, and methods applied to matrices not listed

DataChem Laboratories, Inc. provides professional analytical services for all samples submitted. DataChem Laboratories, Inc. is not in a position to interpret the data and assumes no responsibility for the quality of the samples submitted.



7339021  
**ANALYTICAL REQUEST FORM**

Page 1 of 2

1.  REGULAR Status

RUSH Status Requested - ADDITIONAL CHARGE

RESULTS REQUIRED BY \_\_\_\_\_  
DATE \_\_\_\_\_

CONTACT DATACHEM LABS PRIOR TO SENDING SAMPLES

2. Date 12/4/07 Purchase Order No. 07502.21 4. Quote No. \_\_\_\_\_

3. Company Name Gobbell Hays Partners, Inc DCL Project Manager \_\_\_\_\_

Address 10500 East 54th Ave. Suite J  
Denver, CO 80239 5. Sample Collection

Person to Contact \_\_\_\_\_ Sampling Site 07502-21

Telephone (303) 574-0082 Industrial Process \_\_\_\_\_

Fax Telephone (303) 574-0061 Date of Collection 12/3/07

E-mail Address jeappet@ghpl.com Time Collected 1 pm - 2:30 pm

Billing Address (if different from above) \_\_\_\_\_ Date of Shipment 12/4/07

Chain of Custody No. \_\_\_\_\_

6. REQUEST FOR ANALYSES

Laboratory Use Only	Client Sample Number	Matrix*	Sample Volume	ANALYSES REQUESTED - Use method number if known	Units**
	<u>MC-07502-21-1</u>	<u>GAUZE</u>	<u>100 mg CA</u>	<u>Methamphetamine</u>	<u>ug/100 ca</u>
	<u>-2</u>	<u>Urine</u>	<u>1</u>		
	<u>-3</u>				
	<u>-4</u>				
	<u>-5</u>				
	<u>-6</u>				
	<u>-7</u>				
	<u>-8</u>				
	<u>-9</u>				
	<u>-10</u>				
	<u>-11</u>				

\* Specify: Solid sorbent tube, e.g. Charcoal; Filter type; Impinger solution; Bulk sample; Blood; Urine; Tissue; Soil; Water; Other

\*\* 1. mg/sample 2. mg/m<sup>3</sup> 3. ppm 4. % 5. \_\_\_\_ (other) Please indicate one or more units in the column entitled Units\*\*

Comments \_\_\_\_\_

Possible Contamination and/or Chemical Hazards \_\_\_\_\_

7. Chain of Custody (Optional)

Relinquished by _____	Date/Time _____
Received by <u>Meredith Edmund</u>	Date/Time <u>5:00 PM 12/4/07</u>
Relinquished by _____	Date/Time _____
Received by _____	Date/Time _____
Relinquished by _____	Date/Time _____
Received by _____	Date/Time _____

aw



# ANALYTICAL REQUEST FORM

Page 2 of 2

1.  REGULAR Status

RUSH Status Requested - ADDITIONAL CHARGE  
 RESULTS REQUIRED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 CONTACT DATACHEM LABS PRIOR TO SENDING SAMPLES

2. Date \_\_\_\_\_ Purchase Order No. 07502.21 4. Quote No. \_\_\_\_\_  
 3. Company Name Gobbell Hays Partners, Inc DCL Project Manager \_\_\_\_\_  
 Address 10500 East 54th Ave, Suite J  
Denver, CO 80239 5. Sample Collection  
 Person to Contact \_\_\_\_\_ Sampling Site \_\_\_\_\_  
 Telephone ( 303 ) 574-0082 Industrial Process \_\_\_\_\_  
 Fax Telephone ( 303 ) 574-0061 Date of Collection \_\_\_\_\_  
 E-mail Address \_\_\_\_\_ Time Collected \_\_\_\_\_  
 Billing Address (if different from above) \_\_\_\_\_ Date of Shipment \_\_\_\_\_  
 Chain of Custody No. \_\_\_\_\_

6. REQUEST FOR ANALYSES

Laboratory Use Only	Client Sample Number	Matrix*	Sample Volume	ANALYSES REQUESTED - Use method number if known	Units**
	<u>MG 07502.21-12</u>	<u>Water</u>	<u>100 sq cm</u>	<u>Methamphetamine</u>	<u>ug/100 sq cm</u>
	<u>-13</u>	<u>Water</u>			
	<u>-14</u>				
	<u>-15</u>				
	<u>-16</u>				
	<u>-17</u>				
	<u>-18</u>				
	<u>-19</u>				
	<u>-20</u>				
	<u>Field Blank</u>				
	<u>Field Blank</u>				

\* Specify: Solid sorbent tube, e.g. Charcoal; Filter type; Impinger solution; Bulk sample; Blood; Urine; Tissue; Soil; Water; Other

\*\* 1. mg/sample 2. mg/m<sup>3</sup> 3. ppm 4. % 5. \_\_\_\_\_ (other) Please indicate one or more units in the column entitled Units\*\*

Comments \_\_\_\_\_

Possible Contamination and/or Chemical Hazards \_\_\_\_\_

7. Chain of Custody (Optional)

Relinquished by _____	Date/Time _____
Received by <u>[Signature]</u>	Date/Time <u>5/23/07</u>
Relinquished by _____	Date/Time _____
Received by _____	Date/Time _____
Relinquished by _____	Date/Time _____
Received by _____	Date/Time _____



# ANALYTICAL REPORT

FEB 11 2008

Report Date \_\_\_\_\_

Pete Cappel  
Gobbell Hays Partners, Inc.  
10500 East 54th Avenue  
Suite J  
Denver, CO 80239

Phone: (303) 574-0082 x 205  
Fax: (303) 574-0061  
E-mail: pcappel@ghp1.com

Client Project ID: **Gobbell 020708**  
DCL Workorder: **8038018**  
DCL Project Manager: Marilyn Andrews

### Analytical Results

Sample ID: <b>MC-07501.21-21</b>	Media: Wipe	Collected: 2/5/2008
Lab ID: 8038018001	Sampling Location: 07501.21	Received: 2/6/2008

Method: Methamphetamine by LC/MS	Sampling Parameter: Area 100 cm <sup>2</sup>	Analyzed: 2/9/2008	
Analyte	ug/sample	ug/100cm <sup>2</sup>	RL (ug/sample)
Methamphetamine	1.3	1.3	0.10

Sample ID: <b>MC-07501.21-22</b>	Media: Wipe	Collected: 2/5/2008
Lab ID: 8038018002	Sampling Location: 07501.21	Received: 2/6/2008

Method: Methamphetamine by LC/MS	Sampling Parameter: Area 100 cm <sup>2</sup>	Analyzed: 2/9/2008	
Analyte	ug/sample	ug/100cm <sup>2</sup>	RL (ug/sample)
Methamphetamine	0.37	0.37	0.10

Sample ID: <b>MC-07501.21-23</b>	Media: Wipe	Collected: 2/5/2008
Lab ID: 8038018003	Sampling Location: 07501.21	Received: 2/6/2008

Method: Methamphetamine by LC/MS	Sampling Parameter: Area 100 cm <sup>2</sup>	Analyzed: 2/9/2008	
Analyte	ug/sample	ug/100cm <sup>2</sup>	RL (ug/sample)
Methamphetamine	0.94	0.94	0.10

Sample ID: <b>MC-07501.21-24</b>	Media: Wipe	Collected: 2/5/2008
Lab ID: 8038018004	Sampling Location: 07501.21	Received: 2/6/2008

Method: Methamphetamine by LC/MS	Sampling Parameter: Area 100 cm <sup>2</sup>	Analyzed: 2/9/2008	
Analyte	ug/sample	ug/100cm <sup>2</sup>	RL (ug/sample)
Methamphetamine	0.12	0.12	0.10

Sample ID: <b>MC-07501.21-25</b>	Media: Wipe	Collected: 2/5/2008
Lab ID: 8038018005	Sampling Location: 07501.21	Received: 2/6/2008



# ANALYTICAL REPORT

Client Project ID: **Gobbell 020708**

DCL Workorder: **8038018**

DCL Project Manager: Marilyn Andrews

## Analytical Results

Sample ID: <b>MC-07501.21-25</b>	Media: Wipe	Collected: 2/5/2008
Lab ID: 8038018005	Sampling Location: 07501.21	Received: 2/6/2008
Method: Methamphetamine by LC/MS	Sampling Parameter: Area 100 cm <sup>2</sup>	Analyzed: 2/9/2008
Analyte	ug/sample	ug/100cm <sup>2</sup> RL (ug/sample)
Methamphetamine	<0.10	<0.10 0.10

Sample ID: <b>Blank I</b>	Media: Wipe	Collected: 2/5/2008
Lab ID: 8038018006	Sampling Location: 07501.21	Received: 2/6/2008
Method: Methamphetamine by LC/MS	Sampling Parameter: Area Not Provided	Analyzed: 2/9/2008
Analyte	ug/sample	ug/100cm <sup>2</sup> RL (ug/sample)
Methamphetamine	<0.10	NA 0.10

Sample ID: <b>Blank II</b>	Media: Wipe	Collected: 2/5/2008
Lab ID: 8038018007	Sampling Location: 07501.21	Received: 2/6/2008
Method: Methamphetamine by LC/MS	Sampling Parameter: Area Not Provided	Analyzed: 2/9/2008
Analyte	ug/sample	ug/100cm <sup>2</sup> RL (ug/sample)
Methamphetamine	<0.10	NA 0.10

## Report Authorization

Method: Methamphetamine by LC/MS

Thomas Bosch

Analyst

Thomas T. McKay

Peer Review

## Definitions

LOD = Limit of Detection = MDL = Method Detection Limit, A statistical estimate of method/media/instrument sensitivity.

LOQ = Limit of Quantitation = RL = Reporting Limit, A verified value of method/media/instrument sensitivity.

ND = Not Detected, Testing result not detected above the LOD or LOQ.

\*\* No result could be reported, see sample comments for details.

< This testing result is less than the numerical value.

() This testing result is between the LOD and LOQ and has higher analytical uncertainty than values at or above the LOQ.



## ANALYTICAL REPORT

### General Lab Comments

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Samples were received in acceptable condition unless otherwise noted.  
Samples have not been blank corrected unless otherwise noted.  
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DataChem Laboratories, Inc. provides professional analytical services for all samples submitted. DataChem Laboratories, Inc. is not in a position to interpret the data and assumes no responsibility for the quality of the samples submitted.



# ANALYTICAL REQUEST FORM

1.  REGULAR Status 8038018  
 RUSH Status Requested - ADDITIONAL CHARGE  
 RESULTS REQUIRED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 CONTACT DATACHEM LABS PRIOR TO SENDING SAMPLES

2. Date 2/6/08 Purchase Order No. \_\_\_\_\_ 4. Quote No. \_\_\_\_\_  
 3. Company Name Gobbell Hays Partners, Inc DCL Project: Manager Marilyn Andrews  
 Address 10500 East 54th Ave, Suite J 5. Sample Collection  
Denver, CO 80239 Sampling Site 07501.21  
 Person to Contact Pete Cappel Industrial Process \_\_\_\_\_  
 Telephone (303) 574-0082 Date of Collection 2/6/08  
 Fax Telephone (303) 574-0061 Time Collected 9 am  
 E-mail Address pcappel@gob1.com Date of Shipment 2/6/08  
 Billing Address (if different from above) Chain of Custody No. \_\_\_\_\_

6. REQUEST FOR ANALYSES

Laboratory Use Only	Client Sample Number	Matrix*	Sample Volume	ANALYSES REQUESTED - Use method number if known	Units**
	MC-07501.21-21	2" quartz pad	100 cm <sup>2</sup>	Methamphetamine	ug/#00 cut
	" -22	"	↓	↓	↓
	" -23	"	↓	↓	↓
	" -24	"	↓	↓	↓
	" -25	"	↓	↓	↓
	Blank I	"	—	↓	↓
	Blank II	"	—	↓	↓

\* Specify: Solid sorbent tube, e.g. Charcoal; Filter type; Impinger solution; Bulk sample; Blood; Urine; Tissue; Soil; Water; Other

\*\* 1. mg/sample 2. mg/m<sup>3</sup> 3. ppm 4. % 5. \_\_\_\_\_ (other) Please indicate one or more units in the column entitled Units\*\*

Comments \_\_\_\_\_

Possible Contamination and/or Chemical Hazards \_\_\_\_\_

7. Chain of Custody (Optional)

Relinquished by <u>[Signature]</u>	Date/Time <u>2/6/08 10:30am</u>
Received by <u>[Signature]</u>	Date/Time <u>2/6/08 10:15</u>
Relinquished by _____	Date/Time _____
Received by _____	Date/Time _____
Relinquished by _____	Date/Time _____
Received by _____	Date/Time _____

*[Handwritten mark]*





**APPENDIX C**

**PETER D. CAPPEL'S**  
**RESUME**

**PETER DOUGLAS CAPPEL**  
*Vice President, Senior Industrial Hygienist*  
*Revised January 12, 2007*

**EDUCATION:**

Bachelor of Science/Environmental Health/1986  
Colorado State University, Colorado

**CERTIFICATIONS/REGISTRATIONS:**

EPA Asbestos Inspector/Management Planner  
EPA Asbestos Contractor/Supervisor/Project Designer

**PROFESSIONAL SUMMARY:**

Mr. Cappel oversees the daily operation of the GHP Denver office. He serves as a project manager and client contact for various asbestos, microbial, and infection control projects.

Mr. Cappel teaches all asbestos disciplines for the Environmental Protection Agency (EPA) Asbestos Hazard Emergency Response Act (AHERA) regulation. He also teaches programs on mold, methamphetamine (meth) lab remediation, indoor air quality and healthcare infection control.

He has conducted asbestos and lead paint inspections and airborne lead exposure assessments for general industry, educational facilities, state and federal governments and healthcare facilities.

Experience in industrial hygiene and environmental health and safety includes: conducting industrial hygiene and environmental health sampling and surveys; asbestos industrial hygiene technician, instruction in general employee safety orientations; development of healthcare facility safety policies and procedures; conducting work site safety audits; development and supervision of asbestos air sampling program; conducting surveys and sampling for ethylene oxide, formaldehyde, asbestos, noise, ventilation, radon, PCB's, lighting, ergonomics, airborne pathogens and other work place hazards; conducting asbestos and hazardous chemical audits and writing management plans; managing industrial hygiene technician team.

Mr. Cappel is also experienced at developing meth lab sampling assessments and remediation designs.

**PRESENTATIONS:**

Instructor for General Service Administration 8 hours Lead-Based Paint Operations and Maintenance Program to various GSA regions, 1997.

Instructor for University of Kansas - National Asbestos Training Center: Developed and instructed Industrial Hygiene Technician for Asbestos Projects; Hazardous Waste Site Operations Training (OSHA 40 Hour Course). 1989 - 1994

Instructor for Indoor Air Quality, Moisture and Mold Assessments, Terrorism Prevention and Asbestos Regulations Seminars presented by Gobbell Hays Partners, Inc., 1990 to present.

Instructor for Georgia Tech Research Institute, Atlanta Georgia EPA/AHERA Asbestos Project Designer Refresher course.

Presenter for CLE Methamphetamine Laboratory Seminar, June, 2004.

Presenter for CLE Mold, Methamphetamine Laboratory and Asbestos Seminar, October, 2004.

Presenter for various real estate professional organizations, 2004 and 2005.

Presenter for Colorado Association of Meth and Mold Professionals Regulatory Forum on Methamphetamine Laboratory Remediation, June, 2005.

Presenter for Colorado Association of Meth and Mold Professionals Regulatory Forum on Methamphetamine Laboratory Remediation, October, 2005.

Instructor for Association of General Contractors of Colorado, Advanced Infection Control, 2003 to present.

### **ADDITIONAL TRAINING: COURSES/SEMINARS**

Practical Industrial Hygiene Seminar - Hager Laboratories

Confronting the Risk: Hazardous Materials - American Hospital Association

Management of Hazardous Wastes Seminar - University of Colorado

Inspection/Management Planning for Asbestos Control - (AHERA) - National Asbestos Training Center

Practices and Procedures in Asbestos Control - (AHERA) - National Asbestos Training Center

Comprehensive Review/Industrial Hygiene - Rocky Mountain Center for Occupational and Environmental Health

Radon Technology for Mitigator's Training Course - USEPA Radon Contractor Proficiency Program

Indoor Air Quality Symposium - Indoor Environment Research Consortium, Georgia Institute of Technology

NIOSH 582e Course - Sampling and Evaluating Airborne Asbestos Dust - Industrial Compliance, Inc.

American Society of Healthcare Engineering - Infection Control: Managing Risk During Construction Operation and Maintenance of Facilities.

## AFFILIATIONS

American Industrial Hygiene Association  
Associated General Contractors of Colorado  
Building Operators Association of Colorado  
American Society of Healthcare Engineering  
Colorado Association of Healthcare Engineers and Directors  
Texas Association of Healthcare Facilities Management  
Colorado Association of Meth and Mold Professionals

## PROJECT EXPERIENCE:

**Crest Mobile Home Park, Fountain, Colorado-** Consultation to client on meth lab assessment results and remediation design.

**Metro Brokers, Lakewood, Colorado-** Consultation to client on meth lab assessment results and remediation design.

**Habitat for Humanity, Grand Junction, Colorado-** Conducted meth assessment and clearance sampling

**Confidential Client, Northglenn, Colorado-** Conducted meth assessment and clearance sampling

**Confidential Client, Aurora, Colorado-** Conducted meth lab assessment, remediation design and clearance sampling.

**Confidential Client, Commerce City, Colorado-** Provided consultation to client on meth lab assessment results and remediation design.

**Confidential Client, Clifton, Colorado-** Provided consultation to client on meth lab assessment results and remediation design.

**Lutheran Medical Center, Wheatridge, Colorado -** Conducted background airborne particulate monitoring

**Argyle Apartments, Ft. Collins, Colorado-** Conducted meth lab assessment, remediation design and clearance sampling.

**Klein Law-** Assisted lawyers in a meth case against homeowners by reviewing documents and presenting my findings.

**Catholic Health Initiative** – Conducted multiple projects including industrial hygiene surveys for various lab processes, conducted campus wide asbestos inspections, developed asbestos management plans, and designed various asbestos and lead paint abatement activities. Developed project specific Infection Control Risk Assessments including Surgery Department.

**HCA Hospitals-** Assisted with corporate environmental program management. Managed multiple projects including asbestos inspections, environmental site assessments and development of corporate environmental policies. Developed project specific Infection Control Risk Assessments including Surgery Department.

**Sunrise Assisted Living-**Conducted numerous indoor air quality assessments, mold assessments industrial hygiene surveys, including ventilation studies. Performed asbestos inspections and developed asbestos management plans.

**Aurora Meadows Apartments, Aurora, Colorado-** Asbestos Project Design and management for a fire damaged apartment building. The design addressed the decontamination of personal items and the handling of demolition debris as a friable asbestos waste. Project management included project specification and construction observation, preparation of bidding documents, report origination, and client management. Responsibilities have also included assisting client with managing construction and abatement schedules.

**Reliance Electric/Rockwell Automation-**Conducted various industrial hygiene audits including noise surveys, airborne dust exposure monitoring and ventilation assessments. Performed environmental audit involving asbestos, hazardous materials, and waste-stream characterization.

**City of Sacramento, Public Safety Administration Building, Sacramento, CA-** detailed moisture and mold assessment of the Public Safety Administration Building. This assessment included the development of a detailed building and HVAC system cleaning specification.

**Medical Facility in South Florida (Confidential Client)-**mold consultation during construction, including collection of mold and bacteria air samples

**Colorado State University, Fort Collins, Colorado-**Asbestos Project Design and management for flood damaged steam tunnels and mechanical systems. The design addressed the issues of significant asbestos contamination in steam tunnels, confined space entry procedures and microbial contamination. Project management included project specification and construction observation, preparation of bidding documents, report origination, and client management. Responsibilities also included assisting client with managing construction and abatement schedules.

**Swedish Medical Center, Englewood, CO-**indoor air quality and microbial investigations, industrial hygiene services, and emergency response and implementation of remediation plan for infection control

**Southwest Bell Services, Various Locations-** consultation on asbestos, lead-based paint, fungi, and bacteria.

**Triad Hospitals** –Managed multiple projects including asbestos inspections, environmental site assessments and development of corporate environmental policies. Developed project specific Infection Control Risk Assessments including Surgery Department.

**Marriott Hotels-**Conducted numerous indoor air quality assessments, mold assessments industrial hygiene surveys, including ventilation studies. Performed asbestos inspections and developed asbestos management plans.

**Confidential Client, Single Family Home in Thornton, Colorado** – March 2005, Conducted meth lab assessment, remediation design and clearance sampling.

**Confidential Client, Apartment Unit in Thornton, Colorado** –January 2005,Conducted meth lab assessment, collected wipe samples for meth.

**Confidential Client, Commercial Property in Denver, Colorado-**Provided consultation to client on meth lab assessment results and remediation design.

**Confidential Client, Commercial and Warehouse Property in Denver, Colorado** –Provided consultation to client on meth lab assessment results and remediation design.

**Confidential Client, Single Family Home in Denver, Colorado-**August 2005, Provided consultation to client on meth lab assessment results and remediation design.

**Confidential Client, Single Family Home in Denver, Colorado-**December 2005, Provided consultation to client on meth lab assessment results and remediation design.

## **PUBLICATIONS**

Reviewing Lead-Based Paint Regulations, Colorado Real Estate Journal, July 15 – August 4, 1998.

Building Renovations and Their Impact on Indoor Air Quality, Properties Magazine, Inc., September, 2001

Developing a Mold Operations and Maintenance Control Program, Properties Magazine, Inc., September, 2002.

Meth Labs: a Growing Concern for Property Managers, Colorado Real Estate Journal, November, 2004.

New Colorado Meth Lab Regulations, Colorado Real Estate Journal, April, 2005. (Co-author)

Other Remediation Issues to Consider During Meth Lab Cleanups, Colorado Association of Meth and Mold Professionals, Newsletter, September, 2005.

### **EXPERT TESTIMONY**

#### **Cases in which Mr. Cappel has provided trial or deposition testimony as an expert in the last four years:**

Mr. Cappel was deposed on June 6, 2003 in case civil action no. 02 CV 196 for the District Court of Garfield County, Colorado. The case was Mr. and Ms. Esch (Plaintiffs) vs. Mr. and Mrs. Patrick (Defendants).

Mr. Cappel was deposed on December 23, 2005 in case no. 2005CV1729, District Court, County of Jefferson, State of Colorado. This case was James E. Gochis, Jr. an individual and Alpine Demolition, Inc. a Colorado corporation (Plaintiffs) vs. Recycled Materials Company, Inc. a Colorado corporation and Campbells C-Ment Contracting, Inc., d/b/a Suburban Reddi-Mix Company, Inc. and d/b/a Suburban Sand and Gravel Co., Inc., a Colorado corporation (Defendants).

