

**Preliminary Assessment
of an
Identified Illegal Drug Laboratory
at:**

**2268 Golden Gate Grove
Colorado Springs, CO**

Prepared for:
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April 16, 2013

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EXECUTIVE SUMMARY

On Thursday, March 21, 2013, consistent with the Colorado Real Estate methamphetamine disclosure and testing statute (CRS §38-35.7-103(2)(a)), Forensic Applications Consulting Technologies, Inc. (FACTs) was contracted by a potential buyer to perform a cursory methamphetamine contamination assessment at a semi-detached terrace home located at 2268 Golden Gate Grove, Colorado Springs, CO (the subject property).

Samples collected during this cursory evaluation confirmed the presence of overt and widespread methamphetamine contamination at the subject property.

On March 29, 2013, FACTs issued a written report of the cursory testing; the report met the definition of “discovery” and “notification” which triggered Colorado State Board of Health Regulation 6 CCR 1014-3.

FACTs was subsequently contracted by the Registered Owner of the subject property to perform a standard State-mandated Preliminary Assessment (PA). From April 4, through April 16, 2013, personnel from FACTs performed the PA pursuant to Colorado Regulation 6 CCR 1014-43, Part 4.

Samples taken during the PA conclusively demonstrated the presence of isolated methamphetamine contamination in excess of regulatory thresholds within the structure.

The following areas in the structure were found to be noncompliant and will be scheduled for remediation:

- Entrance Hallway
- Upstairs stairway and laundry area
- Basement
- Furnace System
- Kitchen, Dining Room and Living Area

Samples taken during the PA were designed to satisfy two regulatory aspects; Preliminary Assessment testing and Final Verification Testing, pursuant to Section 7 of the Regulations.

Samples thus collected during the PA also permitted the exclusion from remediation for each of the areas found to be compliant.

Based on the totality of the circumstances, FACTs makes the following observations:

- The property exhibits noncompliance with Colorado’s methamphetamine cleanup standards.



- “Discovery” and “Notification” existed by virtue of the FACTs March 29, 2013 report.
- A noncompliant illegal drug lab, as that term is defined in CRS §25-18.5-101, existed at the subject property from at least March 21, 2013 forward, and continues to exist at the time of this Preliminary Assessment.
- A Class 1 Public Nuisance, as defined in CRS §16-13-303(1) existed at the subject property from at least March 21, 2013 forward, and continues to exist at the time of this report.
- The entrance hallway, upstairs stairway and laundry area, basement , furnace system and all associated ductwork must be decontaminated in a manner consistent with State regulations.
- Following the decontamination activities, a qualified Industrial Hygienist must perform the post-decontamination process and issue a Decision Statement before reentry or occupancy of the subject property may occur.

REGULATORY REQUIREMENTS

Federal Requirements

All work associated with this PA was performed in a manner consistent with regulations promulgated by the Federal Occupational Safety and Health Administration (OSHA).

State Requirements

Preliminary Assessment

According to Colorado State Regulation 6-CCR 1014-3, following the discovery of an illegal drug lab, as that term is defined in CRS §25-18.5-101, and following “notification,” the property must either be demolished or a “Preliminary Assessment” must be conducted at that property to characterize extant contamination (if any), and to direct appropriate decontamination procedures (if any). Pursuant to these regulations, information obtained in the PA, and those findings, enter the public domain and are not subject to confidentiality.¹

The PA must be conducted according to specified requirements² by an authorized Industrial Hygienist as that term is defined in CRS §24-30-1402. This document, and all associated appendices and photographs, is the PA pursuant to those regulations. Included with this discussion is a read-only digital disc. The disc contains mandatory information

¹ Section 8.26 of 6 CCR 1014-3

² Section 4 of 6 CCR 1014-3



and photographs required by State regulation for a PA. This PA is not complete without the digital disc and all associated support documents.

Pursuant to CRS §25-18.5-105, the subject property is deemed a “public health nuisance.” Pursuant to CRS §16-13-303, the subject property and all of its contents is deemed a Class 1 Public Nuisance. As such, the subject property must be remediated according to State Board of Health regulations 6-CCR-1014-3 or demolished (CRS §25-18.5-103).

County Requirements

The Colorado Springs Police Department web site (as of April 15, 2013) erroneously identifies the El Paso County (Colorado) Government as the Governing Body. In fact, in 2009, FACTs was explicitly instructed by the Colorado Springs Police Department that the Colorado Springs Police Department was the Governing Body for Colorado Springs and was explicitly instructed to submit all reports, and make all requests pursuant to 6 CCR 1014-3, to the V&N Section³ of the Colorado Springs Police Department.

The Colorado Springs Police Department web site also erroneously references “*Chapter 4 of the Regulations of the El Paso County Board of Health, entitled (sic) "Methamphetamine Laboratory Cleanup Regulations"*” and states that illegal drug laboratories must be addressed according to those county regulations. However, there are no regulations in El Paso County. The El Paso County Department of Health originally passed and enforced County-specific “Methamphetamine Laboratory Cleanup Regulations.”⁴ However, those regulations violated State regulations and State statutes and unlawfully granted regulatory relief in contradiction to State Legislative actions. On September 22, 2009, the County Regulations were withdrawn and are no longer in effect. We are not aware of other local regulations that may apply.

City Regulations

The City of Colorado Springs, CO does not have any specific regulations over and above the State mandated requirements.

Preliminary Hypothesis

During the PA, the initial hypothesis is made that the subject area is clean, and data are collected to find support for this hypothesis. Any reliable data that fails to support the hypothesis, including police records, visual clues of illegal production, storage, or use, or documentation of drug paraphernalia being present, is considered conclusive, and requires the Industrial Hygienist to accept the null hypothesis and declare the area non-

³ Preliminary Assessment of an Identified Illegal Drug Laboratory at 2927 Main Street Colorado Springs, CO, 80907-6013 October 13, 2009 (Public Domain Document prepared by FACTs and held at Colorado Springs Police Department)

⁴ Attachment “A” Regulations Of The El Paso County Board Of Health El Paso County, Colorado Chapter 4 *Methamphetamine Laboratory Cleanup Regulations*, March 23, 2005



compliant.⁵ The strength of evidence needed to reject the hypothesis is low, and is only that which would lead a reasonable person, trained in aspects of methamphetamine laboratories, to conclude the *presence* of methamphetamine, and/or its precursors or waste products as related to processing.

Contrary to common belief and contrary to false statements⁶ made by Coleen Brisnehan with the Colorado Department of Public Health and Environment,⁷ sampling is **not** required during a PA; however, if sampling is performed, it is conducted in areas with the highest probability of containing the highest possible concentrations of contaminants. According to the State regulations:⁸

Identification and documentation of areas of contamination. This identification may be based on visual observation, law enforcement reports, proximity to chemical storage areas, waste disposal areas, or cooking areas, or based on professional judgment of the consultant; or the consultant may determine that assessment sampling is necessary to verify the presence or absence of contamination.

Initial Statement on Hypothesis Testing

Regarding this subject property, during the PA, FACTs initially accepted the primary regulatory null hypothesis that each functional space was noncompliant, and (then) pursuant to testing consistent with Section 7, 6 CCR 1014-3, FACTs challenged the noncompliance for each functional space.

Through that sampling, we determined that although methamphetamine was present in trace quantities throughout the structure, the concentrations did not rise to the standard of contaminant, except in isolated areas.

Elements of the Preliminary Assessment

Specific mandatory information must be presented as part of the PA. This discussion, with appendices, in its totality, contains the mandatory information for a PA as follows:

⁵ This language and emphasis is verbatim from Appendix A (mandatory) of 6 CCR 1014-3

⁶ At the time of this report, Ms. Brisnehan and her office are under investigation for regulatory misconduct, and making false statements.

⁷ Letter from Colleen Brisnehan, to Joan Whittemore (CSPD) and Sgt. Harrell (CSPD) regarding Citizen Request #4967 (Tuesday, September 4, 2012 4:00 pm) From: WHITTEJO@ci.colospgs.co.us to FACTs, Inc.

⁸ Section 4.6 of 6 CCR 1014-3



Mandatory Final Documents 6-CCR 1014-3	DOCUMENTATION	Included
§4.1	Property description field form	<i>Cal</i>
§§4.4, 4.5	Description of manufacturing methods and chemicals	<i>Cal</i>
§4.2	Law Enforcement documentation review discussion	<i>Cal</i>
§4.7	Description and Drawing of Storage area(s)	<i>Cal</i>
§4.8	Description and Drawing of Waste area(s)	<i>Cal</i>
§4.9	Description and Drawing of Cook area(s)	<i>Cal</i>
§§4.3, 4.6, 4.10	Field Observations field form	<i>Cal</i>
	FACTs Functional space inventory field form	<i>Cal</i>
§4.11	Plumbing inspection field form	<i>Cal</i>
	FACTs ISDS field form	NA
§4.12	Contamination migration field form or description	<i>Cal</i>
§4.13	Identification of common ventilation systems	<i>Cal</i>
§8.11	Description of the sampling procedures and QA/QC	<i>Cal</i>
§8.12	Analytical Description and Laboratory QA/QC	<i>Cal</i>
§8.13	Location and results of initial sampling with drawings	<i>Cal</i>
§8.14	FACTs health and safety procedures in accordance with OSHA	<i>Cal</i>
§8.15 - §8.19	These sections are not applicable to a Preliminary Assessment	
§8.20	FACTs Pre-remediation photographs and log	<i>Cal</i>
	FACTs Post-remediation photographs and log	NA
§8.21	FACTs SOQ	<i>Cal</i>
§8.22	Certification of procedures, results, and variations	<i>Cal</i>
§8.23	Mandatory Certification Language	<i>Cal</i>
§8.24	Signature Sheet	<i>Cal</i>
NA	Analytical Laboratory Reports	<i>Cal</i>
	FACTs final closeout inventory document	NA
	FACTs Field Sampling Forms	<i>Cal</i>

**Table 1
Inventory of Mandatory Elements and Documentation**

Subject Structure

Based on sketches from the El Paso County Assessor's Office, the subject property consists of 2,272 square feet of occupiable residential floor space (not including the attic) built *circa* 2001. Taxable floor space is not the same as regulatory floor space, and sampling requirements are based on the value of 2,272 square feet, excluding the attic (which was considered separately).

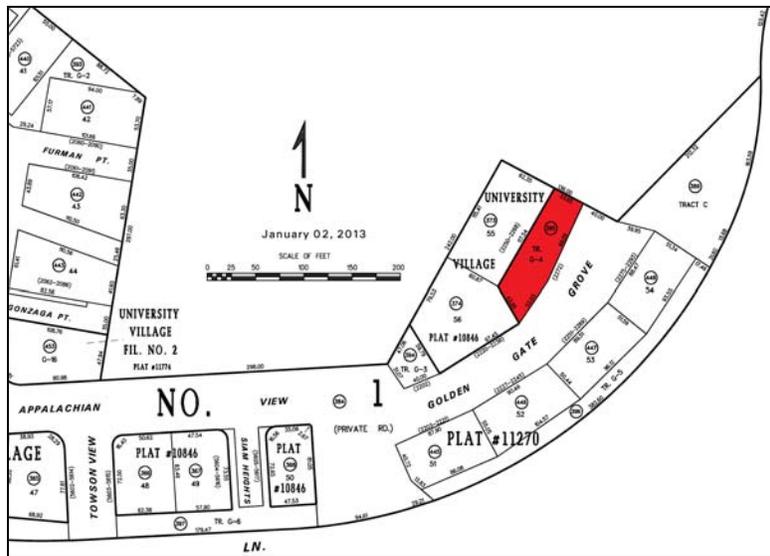
A general aerial layout of the residential setting is depicted in the aerial photograph below. The subject property is outlined in red.





**Figure 1
General Site Layout⁹**

A partial plat map for the property is given below with the subject property in red.



**Figure 2
Partial Plat Map**

Review of Law Enforcement Documentation

As part of the PA, FACTs is required by regulation¹⁰ to review available law enforcement documents pertinent to a subject property.

⁹ Courtesy of USDA Farm Service Agency as accessed through Google™

¹⁰ 6 CCR 1014-3 (Section 4.2)



The Colorado Springs Police Department is the only Law Enforcement Agency in the State of Colorado that refuses to cooperate with any and all requests for information made pursuant to the State regulations. Personnel at Colorado Springs Police Department have informed FACTs that it is a “violation of State law” to release the information, but have been unable to ever cite a state statute to support their refusal to provide information

The Governing Body for Colorado Springs is also the Colorado Springs Police Department and is the only Governing Body in the State of Colorado that ignores requests for information and refuses to participate with the State regulations. FACTs has been instructed to provide our requests in writing and we have been informed that CSPD will respond. However, FACTs is still awaiting responses to written requests for information for other properties for several years.^{11,12,13,14,15,16,17} Therefore, although we have submitted written requests as required, we have not, to date, received a response to our written requests for information on this subject property.

Governing Body

Pursuant to statute and regulations, the documentation in this report must be submitted to the “Governing Body” to avail of the statutory liability immunity. According to the Colorado Springs Police Department, the “Governing Body” as defined in CRS 25-18.5-101 for this property is:

**Colorado Springs Police Department
705 S Nevada Avenue
Colorado Springs, CO 80903**

Visual Inspection of the Property

As part of the Preliminary Assessment, on April 4, 2013, Mr. Caoimhín P. Connell, Forensic Industrial Hygienist with FACTs, performed a visual inspection and sampling of the subject property. During the assessment, the property was in an “unoccupied” condition. Mr. Connell was assisted by Ms. Christine Carty, Field Technician.¹⁸ As

¹¹ 2927 Main Street, Colorado Springs, CO (Information requested September 15, 2009)

¹² 1314 W Kiowa Street, Colorado Springs, CO (Information requested April 22, 2010)

¹³ 8350 Razorback Road, Room 202, Colorado Springs, CO (Information requested July 21, 2010)

¹⁴ 2350 Orchard Valley Road, Colorado Springs, CO (Information requested August 19, 2010)

¹⁵ 5106 Stone Fence Drive, Colorado Springs CO 80922 (Information requested June 23, 2011)

¹⁶ 1299 Vondelpark Drive, Unit C, Colorado Springs, CO 80907 (Information requested August 8, 2012)

¹⁷ 550 E. Moreno Ave., Colorado Springs, CO 80903 (Information requested December 29, 2012)

¹⁸ Ms. Carty received a training certificate in Clandestine Drug Lab Safety through the State of Colorado Department of Public Safety, Division of Criminal Justice, Colorado Regional Community Policing Institute (CRCPI) sponsored by the US Dept. of Justice High Intensity Drug Trafficking Area fund.



required by regulation, a copy of Mr. Connell’s statement of qualifications is included as an appendix with this discussion.

FUNCTIONAL SPACE SUMMARY

During a Preliminary Assessment, the Industrial Hygienist is required by regulation to divide the study area into “functional spaces,” and evaluate the potential for contamination in each area. The idea is to segment a property into specific areas which may present different potentials for contamination, based on the anticipated use or function conducted in that area. Thus, functions of bedrooms and bathrooms may be different, kitchens and living rooms, may be different, etc. Pursuant to regulations, a building is divided into such areas based solely on subjective professional judgment with foundational guidance in Federal Regulation.¹⁹

A general overview of each space is provided in the following discussion. Indicators are detailed in FACTs form ML5, included in the appendix of this report. For evaluation purposes, the following Functional Spaces have been identified and are addressed below:

Functional Space	Describe the functional space
1	Common hall, foyer, stairs-up, laundry closet
2	Powder bathroom
3	Kitchen, Living room, dining room
4	Garage
5	Master bedroom and closet
6	Master bathroom
7	Upstairs common bathroom
8	Upstairs southwest bedroom and closet
9	Upstairs northwest bedroom and closet
10	Attic
11	Basement and basement stairs
12	Exterior grounds
NA	Furnace

Table 1
Functional Space Inventory

Functional Space 1: Entry Hall, Foyer, Stairs-up and Laundry Closet

Upon entering the residence, one faces the main hallway leading into the living room, and the stairway leading to the second floor. At the top of the stairway is a landing that accommodates a large closet housing the clothes washer and clothes drier.

As is the same for the rest of the residence, this functional space has evidence of extreme squalor, filth and a very strong odor of marijuana. The compliance status of this space was challenged with Sample GGM040413-10 which indicated noncompliant concentrations of methamphetamine (1.0 µg/100cm²).

¹⁹ Asbestos Containing Materials in Schools; Final Rule and Notice, Title 40 CFR Part 763, Fed. Reg. Vol. 52, No. 210, Fri. Oct. 30, 1987



This functional space also contained other visual indicators including evidence of violence.

Functional Space 2: Powder Bathroom

Directly accessible from the main hallway, this small toilet room was challenged with Sample GGM040413-04 and was subsequently cleared (0.01 µg/100cm²) and may be excluded from remediation.

Functional Space 3: Kitchen, Dining Room, Living Room

Connecting to Functional Space 1, this functional space contained several visual indicators of filth and squalor. Additionally, this space contained unknown biphasic liquid wastes in the kitchen. In spite of the numerous inconclusive visual indicators, this space was ultimately cleared with Sample Number GGM040413-11 which indicated compliant conditions. Nevertheless, due to the presence of unidentified biphasic wastes and the extreme squalor, we have included this space in the need for remediation.

According to mandatory Appendix A of the State Regulations:

Decision Statement

If, based on the totality of the circumstances, the consultant finds that insufficient evidence exists to support the hypothesis that any given area is non-compliant, that area shall be deemed to be compliant with section 25-18.5-103 (2), C.R.S., and shall be released. 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.

In this case, for this Functional Space, there is sufficient evidence to support the hypothesis that the space is not compliant, the sample results notwithstanding. Therefore, based on the totality of circumstances, we have included this space in the remediation plan. Furthermore, the kitchen is conclusively identified as a chemical storage area.

Functional Space 4: Garage

Apart from the strong odor of marijuana and the holes that were cut into the west wall, this Functional Space does not contain any significant indicators. The compliance status of the garage was challenged with Sample Number GGM040413-03 (0.04 µg/100cm²) which indicated compliance.

Functional Space 5: Master Bedroom and Closet

The master bedroom and closet exhibited several non-conclusive visual indicators including signs of violence and staining. The compliance status of the area was challenged with Sample Number GGM040413-05 (0.01 µg/100 cm²) and was excluded from the remediation plan.



Functional Space 6: Master Bathroom

The master bathroom is accessible only from the master bedroom. This space exhibited several non-conclusive visual indicators including staining. The compliance status of the area was challenged with Sample Number GGM040413-06 ($<0.01 \mu\text{g}/100 \text{ cm}^2$) and was excluded from the remediation plan.

Functional Space 7: Upstairs Common Bathroom

Delineated as the name is commonly understood, this is the bathroom that serves the northern upstairs bedrooms. This space exhibited several non-conclusive visual indicators including staining. The compliance status of the area was challenged with Sample Number GGM040413-07 ($<0.01 \mu\text{g}/100 \text{ cm}^2$) and was excluded from the remediation plan.

Functional Space 8: Upstairs Southwest Bedroom

Delineated as the name is commonly understood, this bedroom contains a closet; no conclusive visual indicators were observed. The compliance status of the area was challenged with Sample Number GGM040413-08 ($0.27 \mu\text{g}/100 \text{ cm}^2$) and was subsequently excluded from the remediation plan.

Functional Space 9: Upstairs Northwest Bedroom

Delineated as the name is commonly understood, this bedroom contains a closet; no conclusive visual indicators were observed. The compliance status of the area was challenged with Sample Number GGM040413-09 ($0.02 \mu\text{g}/100 \text{ cm}^2$) and was subsequently excluded from the remediation plan.

Functional Space 10: Attic

This Functional Space description is used here as the term is commonly understood. The attic did not appear to have been disturbed since its installation, and did not appear to have been occupied by any previous occupant. The space did not contain any visual indicators and the compliance was challenged with Sample Number GGM040413-01 ($<0.01 \mu\text{g}/100 \text{ cm}^2$) and was subsequently excluded from the remediation plan.

Functional Space 11: Basement (*in toto*), including stair chase

The basement is delineated by the poured concrete foundation walls, and is used as the term is commonly understood. The basement contained several conclusive indicators of controlled substance activities including marijuana residue, window anchors, modified plumbing, modified electrical and modifications to the structure.

Visual indicators were sufficient in this area to challenge the primary hypothesis and accept the null hypothesis (the area was noncompliant). Nevertheless, the compliance status was challenged with Sample Number GGM040413-12 ($0.65 \mu\text{g}/100 \text{ cm}^2$) which confirmed noncompliance and the area was subsequently included in the remediation plan.



We believe that the basement is the most likely area where cooking occurred, if it occurred at all. The strongest evidence suggests that a single - or a couple - episodes of smoking methamphetamine occurred in the basement area, and limited migration occurred up the staircase, and followed the thermal by-pass created by the stairs leading to the second floor.

Functional Space 12: Furnace

The Furnace System in the structure is a standard residential forced air system. The actual mechanical unit is located within Functional Space 11 but with a ducted distribution system throughout the entire residential structure.

Although perhaps arguably not a functional space *per se*, in compliance with regulation, FACTs collected a sample from the furnace interior to determine if the furnace system could be excluded from the decontamination process (GGM040413-14 contained 1.9 µg/100 cm²). The discrete sample collected from the furnace system contained the highest concentration of methamphetamine identified in the subject property.

It is well established knowledge in the Industrial Hygiene and medical professions that the use of methamphetamine in a home results in elevated exposures to the occupants via airborne migration. When methamphetamine is smoked, between 80%²⁰ and half²¹ of the substance is released from the user's pipe. Of that material which is inhaled, between 33%²² and 10%²³ of the nominal dose is not absorbed into the body, but rather exhaled back into the ambient air.

Unpublished work conducted by Industrial Hygienists at the National Jewish Hospital²⁴ in Denver, CO indicate that a single use of methamphetamine, by smoking, could result

²⁰ Cook CE, *Pyrolytic Characteristics, Pharmacokinetics, and Bioavailability of Smoked Heroin, Cocaine, Phencyclidine, and Methamphetamine* (From: Methamphetamine Abuse: Epidemiologic Issues and Implications Research Monograph 115, 1991, U.S. Department Of Health And Human Services Public Health Service Alcohol, Drug Abuse, and Mental Health Administration National Institute on Drug Abuse)

²¹ Cook CE, Jeffcoat AR, Hill JM, et al. *Pharmacokinetics of Methamphetamine Self-Administered to Human Subjects by Smoking S-(+)-Methamphetamine Hydrochloride*. Drug Metabolism and Deposition Vol. 21 No 4, 1993 as referenced by Martyny JW, Arbuckle SL, McCammon CS, Erb N, Methamphetamine Contamination on Environmental Surfaces Caused by Simulated Smoking of Methamphetamine (The publication of this study is currently pending. Copies of the study are available from the Colorado Alliance for Drug Endangered Children.)

²² Harris DS, Boxenbaum H, Everhart ET, Sequeira G, et al, *The bioavailability of intranasal and smoked methamphetamine*, Pharmacokinetics and Drug Disposition, 2003;74:475-486.)

²³ Cook CE, Jeffcoat AR, Hill JM, Pugh DE, et al *Pharmacokinetics of methamphetamine self-administered to human subjects by smoking S-(+)-methamphetamine hydrochloride* Drug Metabolism and Disposition, Vol 21, No. 4, pp. 717-723, 07/01/1993

²⁴ Martyny JW, Arbuckle SL, McCammon CS, Erb N, *Methamphetamine Contamination on Environmental Surfaces Caused by Simulated Smoking of Methamphetamine* (The publication of this study is currently pending. Copies of the study are available from the Colorado Alliance for Drug Endangered Children.)



in an average residential area ambient airborne concentration of methamphetamine ranging from 35 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) to over 130 $\mu\text{g}/\text{m}^3$. These authors found that smoking methamphetamine just once in the residence can result in surfaces being contaminated with methamphetamine. The authors concluded:

"If methamphetamine has been smoked in a residence, it is likely that children present in that structure will be exposed to airborne methamphetamine during the "smoke" and to surface methamphetamine after the 'smoke.'²⁵

Since it is the purpose of the forced air ventilation system to move air throughout the structure, and the furnace (as evidenced by the sample collected from the furnace interior) conclusively contained elevated concentrations of methamphetamine, we conclude the furnace would be an effective mechanism of dissemination of methamphetamine and may be a continued source of contamination until appropriately addressed.

In general, the results of the furnace sample alone may lead a reasonable person, trained in aspects of methamphetamine laboratories, to conclude the *presence* of widespread elevated methamphetamine contamination throughout the entire occupied space, all other sample results notwithstanding, and in the absence of any sample result for any specific location. However, having said that, the remaining samples have nevertheless objectively confirmed or excluded the existence of contamination.

We believe the furnace indicates that the contamination occurred immediately prior to the eviction of the occupants, and occurred in the immediate location of the furnace unit. The contamination entered the furnace (and surrounding basement); however, insufficient time passed for the contamination to effectively migrate throughout the entire residence.

Nevertheless, the furnace system, (including all ducts), is contaminated as evidenced by the sample, and will be included in the remediation plan.

EXTERIOR GROUNDS

Although perhaps not truly a functional space *per se*, the exterior grounds were assessed independently. At the time of our visit, the grounds were in their winter vegetative state. Nevertheless, we did observe two non-conclusive indicators in the exterior grounds.

In the areas immediately to the northwest of the exterior patio we observed stressed vegetation. Also immediately to the south of the sliding glass doors, we similarly observed a stressed shrub. Neither of the indicators were consistent with illegal dumping of wastes. Neither indicated a potential for off-site migration of contaminants.

²⁵ Martyny JW, Arbuckle SL, McCammon CS, Erb N, *Methamphetamine Contamination on Environmental Surfaces Caused by Simulated Smoking of Methamphetamine* (The publication of this study is currently pending. Copies of the study are available from the Colorado Alliance for Drug Endangered Children.)



SEWERAGE SYSTEM

The sewer system is “city sewer.” Although we presume that some waste materials were introduced into the sewer system, based on our observations, none of the plumbing was compromised.

During our assessment, we measured each trap for the presence of total hydrocarbons, acid gases and phosphine. We did not observe any concentrations greater than ambient.

SAMPLE COLLECTION

Wipe Samples

The samples collected during the Preliminary Assessment comprised exclusively of “discrete” samples.

Discreet samples are a single wipe, collected from a single area, and submitted for analysis as a unique location.

Discreet samples were collected for regulatory compliance purposes and represented structural features. Each sample location was identified by the Industrial Hygienist based on authoritative judgmental bias sampling theory. In this theory, consistent with State regulation, samples are purposely collected from those areas which have the highest probability of containing the highest concentrations of methamphetamine.

Methamphetamine Analysis

Wipe samples were collected in a manner consistent with State regulations. The wipe sample medium was individually wrapped commercially available Johnson and Johnson™ brand gauze pads. Each gauze material was assigned a lot number for quality assurance and quality control (QA/QC) purposes and recorded on a log of results. Each pad was moistened with reagent grade methyl alcohol. Each batch of alcohol was assigned a lot number for QA/QC purposes and recorded on a log of results. Each proposed sample area was either delineated with a measured outline, or wiped and then the area measured. The ruler used to measure each surface area was decontaminated with a single-use disposable alcohol wipe between samples.

Each wipe sample was collected by methodically wiping the entire 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. Some surfaces were so heavily soiled that we were unable to properly remove the surface contaminant. This results in “undersampling” and can significantly bias the concentration low. Where this occurred, the Industrial Hygienist visually estimated the percentage of surface contamination left behind, and the reported final concentrations were then corrected for the degree of undersampling.



Each sample was returned to its centrifuge tube and capped with a screw-cap. The wipe samples were submitted under chain-of-custody for analysis to Reservoirs Environmental Laboratories in Denver for analysis by GCMS.

QA/QC Precautions

The sampling media were prepared in small batches in a clean environment (FACTs Corporate Offices). The sample media were inserted into individually identified disposable plastic centrifuge tubes with caps.

Field Blanks

For QA/QC purposes, and in accordance with State requirements, one field blank was submitted for every ten wipe samples. The field blanks were randomly selected from the sampling sequence and included with the samples. To ensure the integrity of the blanks, FACTs personnel were unaware, until the actual time of sampling, which specific sample would be selected as a blank. Similarly, to ensure the integrity of the blank, laboratory personnel were unaware of the presence of a blank in the sample suite. FACTs maintains an historical log of reagent and materials field blanks which have consistently demonstrated non-detectable levels of methamphetamine from our sampling and handling (FACTs reagents: MeOH lot # A12Ø1 <MDL for n=22; Gauze lot # G12Ø1 <MDL for n=18).

Field Spikes

Although not required by regulations, as part of our general QA/QC protocol, FACTs regularly submits surreptitious spikes to the analyzing laboratory. "Spiked" samples consist of randomly selecting samples that are submitted to a third party independent laboratory for the inclusion of known amounts of methamphetamine into the selected samples. The spiked samples are then surreptitiously submitted with the normal project samples. To ensure the integrity of the spikes, laboratory personnel are unaware of the presence or nature of the spikes. The spikes allow FACTs to determine the adequacy of the laboratory in recovering known amounts of methamphetamine from the samples. Sample results reported in this Preliminary Assessment are then corrected to the spike recovery.

In this case, the spike was a pooled spike containing 9.0 µg of *d*-methamphetamine and the laboratory reported recovering 8.33 µg (93% of the spike amount), which is within tolerance.

Cross Contamination

Prior to the collection of each specific sample, the Industrial Hygienist donned fresh surgical gloves to protect against the possibility of cross contamination.

Prior to entry into the property, each member of FACTs donned a disposable Tyvek suit and/or booties depending on their job function.

The ladder used during our assessment had been decontaminated at a car wash prior to being brought on site.



Collection Rationale

Primary Objective

It is a common misconception that the Industrial Hygienist is required to collect samples during a PA. However, no such requirement exists in Colorado. Recent emails made to the CSPD²⁶ by Ms. Coleen Brisnehan (Colorado Department of Public Health and Environment) to the contrary are probably intentionally false.²⁷

Rather, regarding samples, the regulations state:

Pre-decontamination sampling

In pre-decontamination sampling, the question that is being asked is "Is there evidence of the presence of methamphetamine production in this area?" The assumption (hypothesis) is that the area is clean i.e. "compliant," and data will be collected to find support for the hypothesis. Data (such as samples) are collected to "prove" the area is compliant. Sampling, if it is performed, is conducted in the areas potentially containing the highest possible concentrations of contaminants. Any data that disproves the hypothesis, including police records, visual clues of production, storage, or use or documentation of drug paraphernalia being present, is considered conclusive, and leads the consultant to accept the null hypothesis and declare the area non-compliant. The strength of evidence needed to reject the hypothesis is low, and is only that which would lead a reasonable person, trained in aspects of methamphetamine laboratories, to conclude the presence of methamphetamine, its precursors as related to processing, or waste products.

Similarly, there is a misconception that if samples are collected, and the laboratory results are below the value often misinterpreted as the State's regulatory threshold value (0.5 µg/100 cm²), the samples necessarily indicate that the area is not contaminated and no action is required. However, the regulatory threshold values are exclusively to be used as *prima facie* evidence for final verification activities in the absence of all other information. Except, during a final verification or a properly designed Preliminary Assessment, there is no *de minimis* concentration of methamphetamine below which a statement of compliance can be made in the absence of final verification sampling. Although State regulation does not require samples to be collected during a Preliminary Assessment, as part of this Preliminary Assessment, samples were collected.

To objectively test the *a priori* assumption that some areas may in fact be compliant, FACTs collected samples from all functional spaces which would best represent the worst case scenario in those spaces, as required by regulation. These samples, along with our blanks were submitted for analysis. Based on these samples, we were able to exclude from remediation most of the structure except for the following:

²⁶ Letter from Coleen Brisnehan, to Joan Whittemore (CSPD) and Sgt. Harrell (CSPD) regarding Citizen Request #4967 (Tuesday, September 4, 2012 4:00 pm) From: WHITTEJO@ci.colospgs.co.us to FACTs, Inc.

²⁷ At the time of this report (April 16, 2013), Ms. Brisnehan and her office are under investigation for regulatory misconduct, and for making false statements.



- Entrance Hallway
- Upstairs stairway and laundry area
- Basement
- Furnace System
- Kitchen, Dining Room and Living Area

Sample Results

Methamphetamine

The results of the methamphetamine samples are summarized in the table below. The shaded samples are those that were collected during the cursory evaluation.

Sample ID	Location	Area cm2	Result	Criterion	Status
GGM032113-03A	Kitchen furnace return	61	1.2	0.49	FAIL
GGM032113-03B	Hallway door bell cover				
GGM032113-03C	Hallway supply vent interior				
GGM032113-03D	Basement furnace interior				
GGM032113-03E	Garage back of door				
GGM032113-04A	Master bedroom top of door frame	61	0.5	0.49	PASS
GGM032113-04B	SW Bedroom top of door frame				
GGM032113-04C	NW Bedroom top of door frame				
GGM032113-04D	Common bathroom top of light fixture				
GGM032113-04E	Upstairs landing top of door frame				
GGM040413-01	Attic PVC Sewer relief stack	500	<0.01	0.50	PASS
GGM040413-02	Field Blank	NA	<0.05	0.05	PASS
GGM040413-03	Garage top of door rail	500	0.04	0.50	PASS
GGM040413-04	Powder bath top of glass shelf	500	<0.01	0.50	PASS
GGM040413-05	Master bedroom mop board	500	0.01	0.50	PASS
GGM040413-06	Master bathroom top of shower stall	500	<0.01	0.50	PASS
GGM040413-07	Upstairs bathroom top of shower stall	500	0.01	0.50	PASS
GGM040413-08	SW Bedroom top of closet shelf	500	0.27	0.50	PASS
GGM040413-09	NW bedroom mop board	500	0.02	0.50	PASS
GGM040413-10	Hall stairway landing window blinds	500	1.05	0.50	FAIL
GGM040413-11	Kitchen top of cabinet	500	0.02	0.50	PASS
GGM040413-12	Basement supply vent on N side	660	0.65	0.50	FAIL
GGM040413-13	Field Blank	NA	<0.05	0.05	PASS
GGM040413-14	Furnace interior by fan return	540	1.9	0.50	FAIL

Area is expressed in square centimeters

Result and Criterion are expressed as $\mu\text{g}/100\text{cm}^2$ (Field blanks are reported as absolute mass in μg)

The symbol "<" indicates that methamphetamine was not detected at the detection limit expressed.

BRL indicates the analyte was not detected in the sample.

Table 2
Results of Methamphetamine Wipe Samples

Wipe Sample Results

The samples confirm noncompliant concentrations of methamphetamine in identified locations in the structure.



Quality Assurance/Quality Control

The following section is required by regulation and is not intended to be understood by the casual reader.

PA Data Set

MDL was not specified by the laboratory; LOQ was 0.05 µg; MBX <LOQ; LCS mass was not provided by the laboratory reported a 100% recovery; Matrix spike mass was not reported but the laboratory reported 93% with a matrix spike Dup RPD of 2. No surrogate spikes reported. FACTs reagents: MeOH lot # A12Ø1 <MDL for n=22 (>MDL for n=0); Gauze lot # G12Ø1 <MDL for n=18 (>MDL for n=0). The QA/QC indicate no net bias and the actual surface methamphetamine concentrations reported for the data asset may be slightly greater than reported here.

Sample Locations

Consistent with State Regulations and good sampling theory, the location of the samples was based on professional judgment. In this case, it was FACTs' Industrial Hygienist's professional judgment that authoritative judgmental biased sampling would be appropriate.

As such, during this project, the Industrial Hygienist selected those areas which had the highest probability of exhibiting the highest concentrations of contamination. Based on our experience, state of the art information on indoor methamphetamine migration patterns and professional judgment, FACTs selected specific locations throughout the structure in an attempt to represent the highest possible concentrations of methamphetamine. Each sample area was then delineated with a measured outline.

In the figures that follow, the sample locations have been presented. The drawings are stylized and not to scale. In the diagrams, the sample locations are indicated by triangles. Where the identifier has a shaded triangle, the sample was collected during the cursory evaluation.



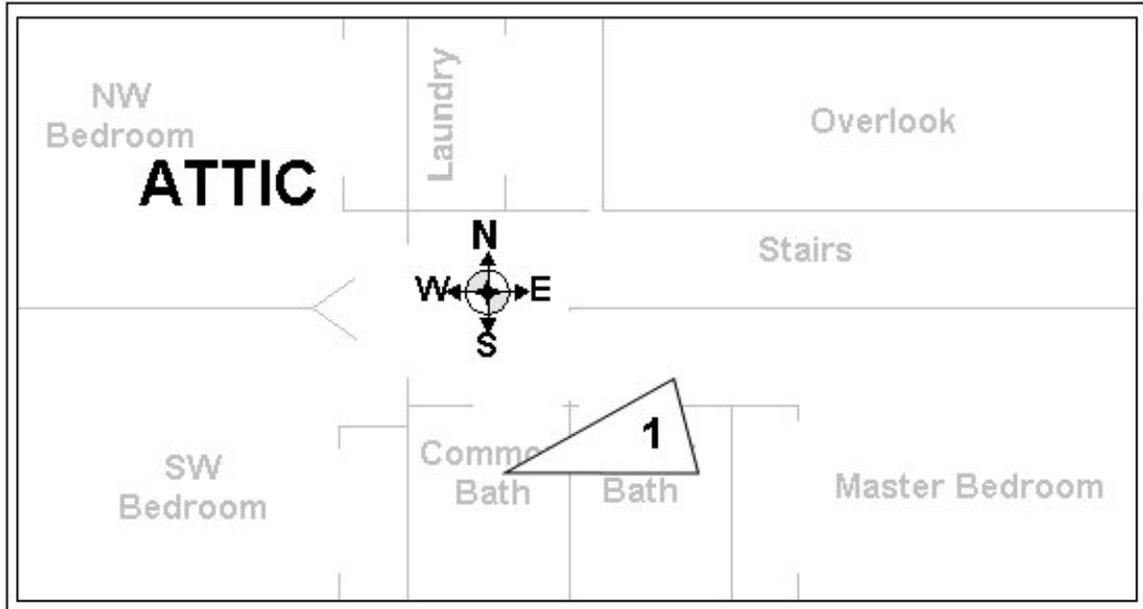


Figure 1
Attic Sample Location

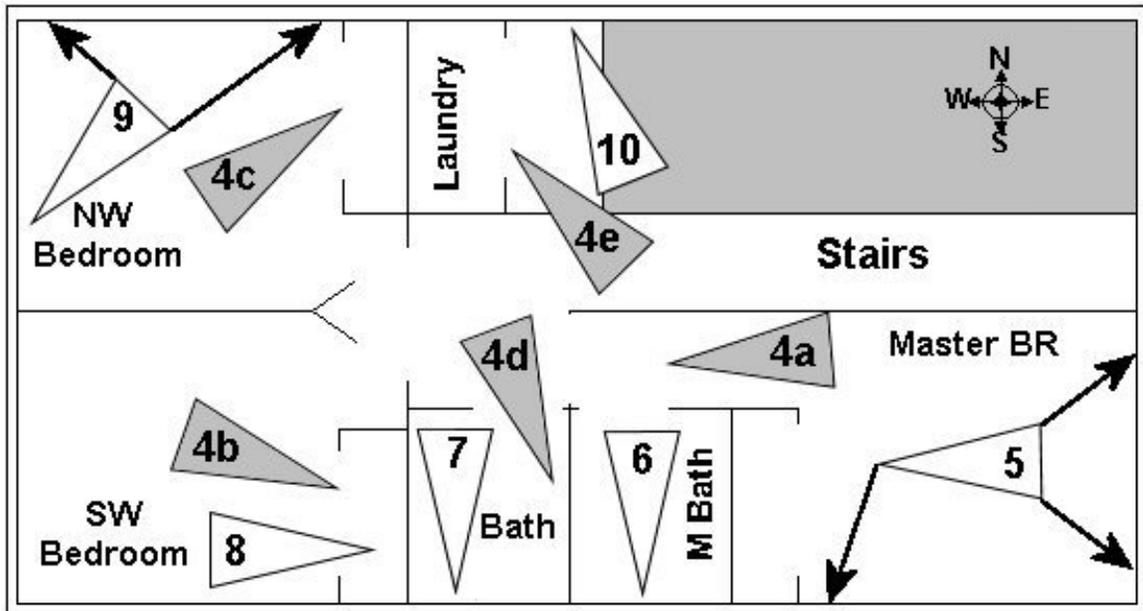


Figure 2
Second Floor Sample Locations



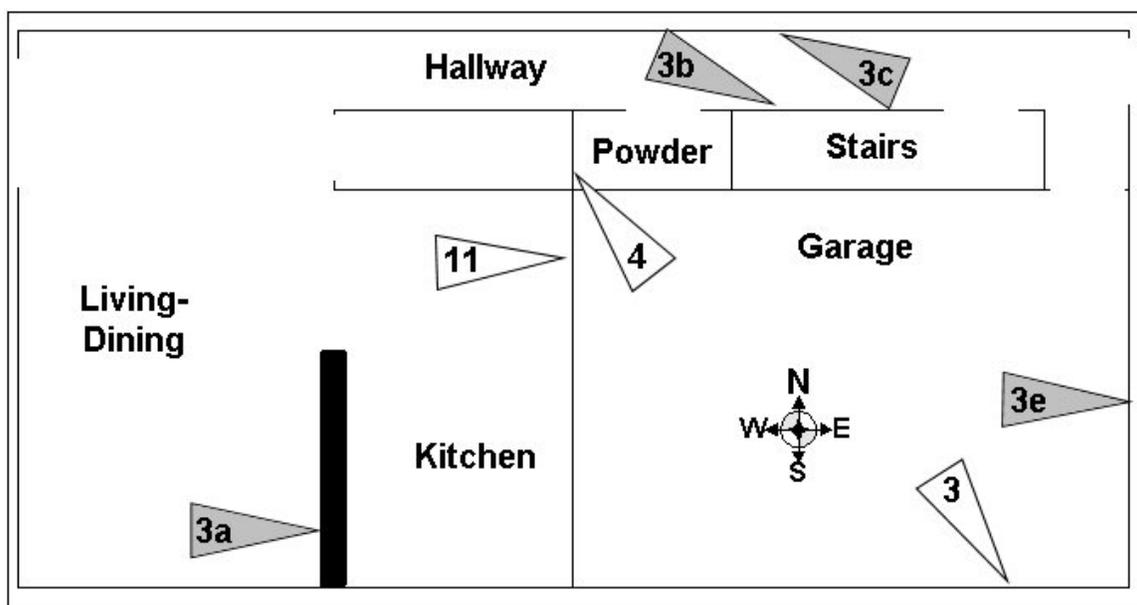


Figure 3
First Floor Sample Locations

Identification of Cook/Storage Areas

Colorado Regulations 6 CCR 1014-3 (4.2) states that the Industrial Hygienist is required to perform a:

Review of available law enforcement reports that provide information regarding the manufacturing method, chemicals present, cooking areas, chemical storage areas, and observed areas of contamination or waste disposal

In this case, based on the best information available and based on visual indicators, we were not able to confidently identify *if* manufacturing took place at all, never mind *where* it may have taken place (if at all). Our best assessment at this point is that the isolated contamination is the result of methamphetamine being smoked and stored in the basement area. Although it is possible to determine if manufacturing occurred, the question of whether or not methamphetamine was actually manufactured is not of regulatory significance.

Methamphetamine is currently being stored at the property on all surfaces in the noncompliant functional spaces.

Identification of Contamination Migration

FACTs has knowledge that chemicals such as methamphetamine were stored in the property. However, for this project, FACTs must rely exclusively on subjective extant observations we make on site. Based on the best information readily available, FACTs was not able to find any indicators that would suggest contamination migration.



CONCLUSIONS

Based on the totality of the circumstances, including our subjective observations and objective data from sampling, we find that there is insufficient evidence to support the preliminary hypothesis and we accept the null hypothesis and conclude that methamphetamine contamination exists in specific locations within the residential structure of the subject property.

Based on our observations, all surfaces in the noncompliant functional spaces, and the furnace system and associated duct work, must be cleaned pursuant to 6 CCR 1014-3.

Universal Site Requirements

Based on our observations, and laboratory results, we recommend standard industry practices for decontamination be followed. The remediation contractor should be given full responsibility for their own standard operating procedures. The following are provided as guidance and reflect standard practices for the remediation of similar properties. The Governing Body has statutory authority to require a greater degree of decontamination of the subject property.

1. An on-site storage container should be established on the grounds (such as a poly lined and covered roll on-roll off container (ro-ro) or temporary trailer).
2. The on-site container shall be secured with a padlock at all times when not immediately manned by remediation personnel.
3. A licensed contractor, who is trained and experienced in methlab decontamination, as required by State regulations, should be contracted for the decontamination work. All work performed at the residence should be conducted by an experienced contractor whose employees are documented to have been properly trained in accordance with 29 CFR §1910.120 and Colorado Revised Statute §25-18.5-104; *Entry into illegal drug laboratories*.
4. We recommend the decontamination process be conducted in Level C PPE ensembles with a minimum of half-face APRs.
5. We recommend that a decontamination corridor with showers be established at the garage opening, and the garage be used as a staging area.
6. All remediation work performed at the residence should be conducted under written contract with a reputable remediation company qualified to perform the work.
7. All work performed at the residence should be conducted with open communication and cooperation with the Colorado Springs Police Department.



8. Discovery of any child pornography shall be immediately reported to the Colorado Springs Police Department.
9. Discovery of any controlled substances shall be immediately reported to the Colorado Springs Police Department.
10. All remediation work should be presumed to be pursuant to Title 29 of the Code of Federal Regulations, §1910.120 until otherwise indicated.
11. Any contractors (and their subcontractors) should be contractually obligated, through a written contract, to decontaminate the subject property to below the statutory limits. Any recleaning required by a contractor (or their subcontractor) pursuant to a failed final assessment should be contractually obligated to be performed at the expense of the contractor.
12. Contractors should be contractually obligated to cover costs of return visits by the Industrial Hygiene firm and sample expenses as a result of a failed final clearance.
13. State regulations prohibit painting or otherwise encapsulating surfaces prior to final verification sampling by the Industrial Hygienist.
14. State regulations prohibit the use of strong oxidizers that mask the presence of methamphetamine, no cleaning agents containing greater than 5% hydrogen peroxide (or other oxidizer) are permitted on site.
15. Following the decontamination process, and prior to the final verification sampling by the Industrial Hygienist, the remediation contractor/subcontractor shall be contractually obligated to collect a minimum of two QA/QC wipe samples from the subject property, as part of their own QA program, and required to submit those samples for methamphetamine analysis. The contractor shall be contractually obligated to provide their wipe sampling data (including location of sample, area of sample, and analysis results), to the consulting Industrial Hygienist for review prior to final verification sampling.
16. If the contractor's QA/QC samples suggest that contamination in the subject property remains at a concentration in excess of $0.4 \mu\text{g}/100 \text{ cm}^2$, the contractor shall be contractually obligated to continue to clean, and sample, until the elevated concentrations are not observed.
17. Once the contractor's samples indicate the contamination has been sufficiently reduced, the Industrial Hygienist should perform final verification sampling according to 6-CCR 1014-3.

Decontamination of The Residence

The contractor may propose removal of the furnace and associated ductwork, *in toto*, or may propose cleaning and decontamination of the ventilation system. Additionally, if the



contractor proposes removal of the ventilation system, the contractor may determine that treating the entire house as contaminated is economically more feasible than attempting to isolate each compliant room and remove the duct work.

If the contractor finds that it is more economically favorable to treat the entire house as contaminated in order to more economically remove the furnace, then following the remediation process, each functional space will need to be retested for compliance.

If the compliant rooms are to be isolated, the following decontamination process should take place in this order:

1. Gas to the furnace shall be shut-off and subject to locked-out/Tag-out procedures.
2. If freezing is a possibility, the contractor shall also turn off water and bleed the lines to prevent damage by freezing pipes.
3. Critical barriers shall be established in the basement, and the basement shall be placed under negative pressure.
4. Make up air to the basement shall be exclusively through the furnace and the basement stairwell.
5. The fireplace opening in the living room shall be sealed.
6. Negative pressure at each supply and return grilles shall be verified (with a visible ventilation fume, or micromanometer or similar).
7. Each supply and return grilles shall be HEPA vacuumed and carefully removed, bagged and taken to the basement.
8. After the grilles have been removed, the duct opening shall be sealed and the rooms that have been demonstrated as compliant shall be isolated with critical barriers.
9. Ducts shall be removed in a manner that minimizes impact on the compliant areas. Small containment shall be established for the removal of the duct work where that removal occurs in a compliant space.
10. Engineering controls shall be established for maintaining negative pressure during the controlled removal of interior duct work from the wall cavities. FACTs suggests the construction of small one-man containments at each wall where ducts must be removed from the wall cavity – negative pressure can be maintained in the enclosure via direct communication with the negative air machine through the basement.



11. Establish negative pressure in each area to be remediated pursuant to State regulations. No removal or decontamination shall occur until negative pressure is established.
12. No work, except as needed to establish critical barriers, shall begin until negative pressure is established.
13. The negative pressure must be maintained at all times at each location and must be maintained at a pressure differential of at least 0.02" WC. In the event that the pressure differential is not continuously maintained and the contractor shall be contractually obligated to cover the costs of retesting each area adjoining the remediation area in the event critical barriers fail. If the follow up samples indicate contamination, the contractor will be contractually obligated to perform the decontamination at their expense.
14. Negative pressure must be maintained at all times until final sampling has been completed, and the written intent to issue a Decision Statement has been issued to the contractor by the consulting Industrial Hygienist. The contractor is permitted to tie-in several areas into one NAM if they believe that is favorable.
15. The contractor should establish a standard, two-chambered decon and/or bag-out/load-out at the entrance of the garage into the residence.
16. It is the opinion of FACTs that salvaging carpet is not feasible for this property. FACTs recommends the removal of all carpeting in noncompliant areas. Any remaining carpeting shall be subject to sampling. FACTs will use a decision criteria of 0.5 µg/100 cm² of removable methamphetamine for any remaining carpets as determined by microvacuuming methods.
17. All surfaces within a remediation area, including all ceilings, all hanging fixtures, all cabinets (interior and exterior surfaces), all shelving, all floors, doors, hinges, and every other interior surface whether specifically mentioned or not, shall be thoroughly wiped down to remove residual contamination.
18. The furnace system shall be removed or cleaned in a manner consistent with State regulations.

-*END*-

Enclosures: One CD; Data package, and Appendices



APPENDIX A:

SUPPORTING DOCUMENTS





**FORENSIC APPLICATIONS CONSULTING TECHNOLOGIES, INC.
CLANDESTINE METHAMPHETAMINE LABORATORY
ASSESSMENT FIELD FORMS[©]**

FACTs project name: Golden Gate	Form # ML1
Date: April 4, 2013	
Reporting IH:	Caoimhin P. Connell, Forensic IH

PROPERTY DESCRIPTION:

Physical address	2268 Golden Gate Grove, Colorado Springs, CO 80918	
Legal description or VIN	Schedule No: 6316306373 Lot 55 University Village Plat No: 10846	
Registered Property Owner	Silver Inn, LLC PO Box 23702, Silverthorne CO 80498	
Number of structures	One	
Type of Structures (Each affected structure will need a "Functional Space" inventory)	Residence	2,272 Square feet
		Square feet
		Square feet
		Square feet
		Square feet
Adjacent and/or surrounding properties	North: Community pool house and club house	
	South: Attached residential with marijuana grow	
	East: Parking lot	
	West: Green belt	
General Property Observations	Squalid and damaged by previous occupants	
Presumed Production Method	Smoking	

PLUMBING INSPECTION AND INVENTORY

FACTs project name: Golden Gate	Form # ML2
Date: April 4, 2013	
Reporting IH:	Caoimhin P. Connell, Forensic IH

Functional Space	Room	Fixture	Indicia?	Comments
2	Bathroom # 1	Toilet	N	No comment
2	Bathroom # 1	Sink	N	No comment
6	Bathroom # 2	Shower/Bath	N	No comment
6	Bathroom # 2	Sink	N	No comment
6	Bathroom # 2	Toilet	N	No comment
7	Bathroom # 3	Shower/Bath	Y	Trace methamphetamine
7	Bathroom # 3	Sink	Y	Trace methamphetamine
7	Bathroom # 3	Toilet	Y	Trace methamphetamine
3	Kitchen	Dishwasher	Y	Trace methamphetamine
3	Kitchen	North Sink	Y	Trace methamphetamine
3	Kitchen	South Sink	Y	Trace methamphetamine
1	Laundry Room	Washing machine	Y	Trace methamphetamine
THIS SPACE IS BLANK				

VENTILATION INSPECTION AND INVENTORY

Item	Y/N	Indicia ?	Sampled ?	Comments
Isolated AHU?	Y	Y	Y	Contamination confirmed
Common air intake?	N			NA
Common bathroom exhausts?	N			
Forced air system?	Y	Y	Y	Contamination confirmed
Steam heat?	N			NA
Common ducts to other properties?	N			
Passive plena to other properties?	N			
Active returns to other properties?	N			
Passive wall grilles to other properties?	N			
Industrial ventilation?	N			
Residential ventilation?	Y	Y	Y	Contamination confirmed
Pressurized structure?	N			NA



FUNCTIONAL SPACE INVENTORY

FACTs project name: Golden Gate	Form # ML3
Date: April 4, 2013	
Reporting IH:	Caoimhin P. Connell, Forensic IH

Structure Number	Functional Space Number	Indicia (Y/N)	Describe the functional space (See drawings for delineating structural features)
1	1	Y	Common hall, foyer, stairs-up, laundry closet
1	2	N	Powder bathroom
1	3	Y	Kitchen, Living room, dining room
1	4	Y	Garage
1	5	Y	Master bedroom and closet
1	6	N	Master bathroom
1	7	Y	Upstairs common bathroom
1	8	Y	Upstairs southwest bedroom and closet
1	9	Y	Upstairs northwest bedroom and closet
1	10	N	Attic
1	11	Y	Basement and basement stairs
1	12	N	Exterior grounds

THIS SPACE IS BLANK



LAW ENFORCEMENT DOCUMENTATION

FACTs project name: Golden Gate	Form # ML4
Date: April 4, 2013	
Reporting IH:	Caoimhin P. Connell, Forensic IH

Inventory of Reviewed Documents	No response received from CSPD
Described method(s) of production	No response received from CSPD
Chemicals identified by the LEA as being present	No response received from CSPD
Cooking areas identified	No response received from CSPD
Chemical storage areas identified	No response received from CSPD
LE Observation on areas of contamination or waste disposal	No response received from CSPD





FORENSIC APPLICATIONS CONSULTING TECHNOLOGIES, INC.

April 1, 2013

Sgt. Harrell
Vice and Narcotics
Colorado Springs Police Department
705 S Nevada Avenue
Colorado Springs, CO 80903

Via Fax: 719-578-6064

Dear Sgt. Harrell:

Forensic Applications, Inc. has been contracted to perform a "Preliminary Assessment" an illegal drug laboratory pursuant to Colorado Board Of Health Regulations 6-CCR-1014-3, and CRS §25-18.5-101 *et seq.* The property is located in the City of Colorado Springs at:

2268 Golden Gate Grove Colorado Springs, CO

As you are aware, as part of that assessment, the Industrial Hygienist is required by regulation (6-CCR-1014-3 (§4.2)) to review available law enforcement documents associated with the property. Generally, we initially do not require copies of any documents prior to our site visit; and, if preferable, we can visit your office and simply review available information there.

We would like contact information for any Law Enforcement personnel who may be familiar with controlled substance related actions that occurred at the property over the last five years and review any narratives, inventories and evidence sheets regarding such action.

We are only interested in issues involving controlled substances. If no such records are available please let us know and we will merely make that notation in our report to the Governing Body.

Forensic Applications takes extreme caution to protect all Law Enforcement Sensitive information. When requested by the Law Enforcement Agency, we do not reveal names, document identities, or include any information considered sensitive by an investigating agency. We have developed a close working relationship with other Colorado Law Enforcement Agencies across Colorado, and we value and respect that open line of communication. Please feel free to call me directly with any comments or questions. Please advise us of any fees associated with our request.

Pursuant to CRS §24-72-305.5, I affirm that upon receipt of requested records of official actions and/or criminal justice records from the Colorado Springs Police Department, such records shall not be used for the direct solicitation of business for pecuniary gain.

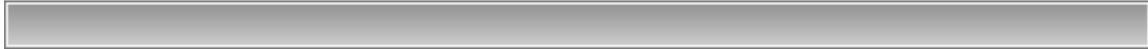
Sincerely,

Caoimhín P. Connell
Forensic Industrial Hygienist

CC: "Tony" CSPD Records and ID Via Fax: 719-632-1663

Successful transmission to 17196321663. Re: 2268 Golden Gate Grove

Monday, April 1, 2013 4:42 PM **From:** "send@mail.efax.com" <send@mail.efax.com> **To:** admin@forensic-applications.com



Dear Caoimhín P. Connell,

Re: 2268 Golden Gate Grove

The 3 page fax you sent through eFax.com to 17196321663 was successfully transmitted at 2013-04-01 22:42:41 (GMT).

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Email: help@mail.efax.com



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Monday, April 1, 2013 4:45 PM

From: "send@mail.efax.com" send@mail.efax.com To: admin@forensic-applications.com



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Re: 2268 Golden Gate Grove

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FORENSIC APPLICATIONS CONSULTING TECHNOLOGIES, INC.

FIELD OBSERVATIONS

FACTs project name: Golden Gate	Form # ML5
Date: April 4, 2013	
Reporting IH:	Caoimhin P. Connell, Forensic IH

Structure: Main residence

Indicator	Functional Space	Indicator	Functional Space	
Acids	No comment	Match components	No comment	
Aerosol cans		Mercury		
Alcohols (MeOH, EtOH)		Methamphetamine		
Ammonia		Modified coolers/containers		
Ammunition		Modified electrical		11
Artistic expressions		Modified plumbing		11
Bags of salt		Modified structure		11, 4
Bases		Modified ventilation		No comment
Basters/Pipettes		Needles/Syringes		
Batteries		OTC Containers		
Bi-phasic wastes	3	OTC drugs		
Booby traps	No comment	pH papers/indicators		
Bullet holes		Phenyl-2-propanone		
Burn marks	11	Pornography, Sex toys		
Cat litter	No comment	Prescription drugs		
Chemical storage		Presence of cats		
Colored wastes		Propane bottles		
Corrosion on surfaces		Pseudoephedrine		
Death bag		Red P		
Delaminating paint	1,4,5,6,7,8,9	Red Staining	3	
Drug paraphernalia	No comment	Equipment	11	
Empty OTC Containers		Salters	No comment	
Ephedrine		Security devices		
Feces		Signs of violence	5	
Filters		Smoke detectors disabled	No comment	
Forced entry marks	5	Solvents - (organic)		
Funnels	No comment	Squalor	All areas	
Gang markings		Staining on floors	1,2,3,5,6,7,8,9,11	
Gas cylinders		Staining on walls or ceiling	3	
Gerry cans	3	Stash holes	No comment	
Glassware		Taping on surfaces		
Graffiti		Tubing		
Heating mantle/hot plate		Urine containers		
Hidden items		Wall anchors		
Hydrogen peroxide		Wall coverings		
Iodine		Wall damage		
Lead		Weapons		
Lithium		Window block material		3,5,8
Marijuana		All areas		Yellow staining

- ① Present but not as indicia
- ② Copious or unusual quantities
- ③ Present in normal household expectations
- ④ Modified in manner consistent with clanlab use



FORENSIC APPLICATIONS CONSULTING TECHNOLOGIES, INC.

INDIVIDUAL SEWAGE DISPOSAL SYSTEM FIELD FORM

FACTs project name: Golden Gate	Form # ML7
Date: April 4, 2013	
Reporting IH:	Caoimhin P. Connell, Forensic IH

	Yes	No	N/C
Does the property have an ISDS		X	
Is there unusual staining around internal drains		X	
Are solvent odors present from the internal drains		X	
Is there evidence of wastes being disposed down internal drains		X	
Are solvent odors present from the external sewer drain stacks			X
Was the septic tank lid(s) accessible	NA		
Was the leach field line accessible			
Was the septic tank <u>or</u> leach field lines opened			
Are solvent odors present from the leach field lines (if "yes" see below)			
Are solvent odors present from the septic tank (if "yes" see below)			
Is "slick" present in the septic tank			
Are biphasic (aqueous-organic) layers present in the septic tank			
Was pH measured in the septic tank			
Were organic vapors measured in the septic tank (if "yes" see below)			
Is sampling of the ISDS warranted			
Were calawasi/drum thief samples collected from the septic tank			

*NC = Not checked

Qualitative Organic Vapor Monitoring

Instrument Type	Make and Model
Hydrocarbon detector	EnMet Target Series, MOS detector
pH Strips	Baker Industries

Location	MOS*	PID*	FID*
All internal sinks	<1 ppm	NA	
All surrounding soils (see body of report for explanation)			

*Units of measurement are in parts per million equivalents compared to the toluene calibration vapor. Detection limit 1 ppm

Locator Notes:

No location needed for this property



PRE-REMEDATION PHOTOGRAPH LOG SHEET

FACTs project name: Golden Gate		Form # ML8
Date: April 4, 2013		
Reporting IH:	Caoimhin P. Connell, Forensic IH	

Name ▲	Date Picture Taken	Name ▲	Date Picture Taken
Attic	4/4/2013 12:17 PM	Bsmt (25)	4/4/2013 11:51 AM
Attic (2)	4/4/2013 12:23 PM	Bsmt (26)	4/4/2013 11:51 AM
Attic (3)	4/4/2013 12:24 PM	Bsmt (27)	4/4/2013 11:51 AM
Attic (4)	4/4/2013 12:24 PM	Bsmt (28)	4/4/2013 11:51 AM
Attic (5)	4/4/2013 12:26 PM	Bsmt (29)	4/4/2013 11:51 AM
Attic (6)	4/4/2013 12:26 PM	Bsmt (30)	4/4/2013 11:51 AM
Attic (7)	4/4/2013 12:26 PM	Bsmt (31)	4/4/2013 11:51 AM
Attic (8)	4/4/2013 12:26 PM	Bsmt (32)	4/4/2013 11:51 AM
Attic (9)	4/4/2013 12:26 PM	Bsmt (33)	4/4/2013 11:51 AM
Attic (10)	4/4/2013 12:26 PM	Bsmt (34)	4/4/2013 11:52 AM
Bsmt	4/4/2013 11:48 AM	Bsmt (35)	4/4/2013 11:52 AM
Bsmt (2)	4/4/2013 11:48 AM	Bsmt (36)	4/4/2013 11:52 AM
Bsmt (3)	4/4/2013 11:49 AM	Bsmt (37)	4/4/2013 11:52 AM
Bsmt (4)	4/4/2013 11:49 AM	Bsmt (38)	4/4/2013 11:52 AM
Bsmt (5)	4/4/2013 11:49 AM	Bsmt (39)	4/4/2013 11:52 AM
Bsmt (6)	4/4/2013 11:49 AM	Bsmt (40)	4/4/2013 11:52 AM
Bsmt (7)	4/4/2013 11:49 AM	Bsmt (41)	4/4/2013 1:50 PM
Bsmt (8)	4/4/2013 11:49 AM	Bsmt (42)	4/4/2013 1:54 PM
Bsmt (9)	4/4/2013 11:49 AM	Bsmt stairs	4/4/2013 11:48 AM
Bsmt (10)	4/4/2013 11:49 AM	Bsmt stairs ...	4/4/2013 11:48 AM
Bsmt (11)	4/4/2013 11:49 AM	Bsmt stairs ...	4/4/2013 11:48 AM
Bsmt (12)	4/4/2013 11:49 AM	Bsmt stairs ...	4/4/2013 11:48 AM
Bsmt (13)	4/4/2013 11:49 AM	Bsmt stairs ...	4/4/2013 11:48 AM
Bsmt (14)	4/4/2013 11:49 AM	Bsmt stairs ...	4/4/2013 11:48 AM
Bsmt (15)	4/4/2013 11:50 AM	Bsmt stairs ...	4/4/2013 11:52 AM
Bsmt (16)	4/4/2013 11:50 AM	Exterior	4/4/2013 11:07 AM
Bsmt (17)	4/4/2013 11:50 AM	Exterior (2)	4/4/2013 11:07 AM
Bsmt (18)	4/4/2013 11:50 AM	Exterior (3)	4/4/2013 11:07 AM
Bsmt (19)	4/4/2013 11:50 AM	Exterior (4)	4/4/2013 11:20 AM
Bsmt (20)	4/4/2013 11:50 AM	Exterior (5)	4/4/2013 11:20 AM
Bsmt (21)	4/4/2013 11:50 AM	Exterior (6)	4/4/2013 11:20 AM
Bsmt (22)	4/4/2013 11:50 AM	Exterior (7)	4/4/2013 11:20 AM
Bsmt (23)	4/4/2013 11:50 AM	Exterior (8)	4/4/2013 11:21 AM
Bsmt (24)	4/4/2013 11:51 AM	Exterior (9)	4/4/2013 11:21 AM

Name ▲	Date Picture Taken
US hall closet (2)	4/4/2013 11:44 AM
US Hall closet (3)	4/4/2013 11:47 AM



PRE-REMEDATION PHOTOGRAPH LOG SHEET

FACTs project name: Golden Gate		Form # ML8
Date: April 4, 2013		
Reporting IH:	Caoimhin P. Connell, Forensic IH	

Name ^	Date Picture Taken	Name ^	Date Picture Taken	Name ^	Date Picture Taken
Exterior (10)	4/4/2013 11:21 AM	Hall closet (3)	4/4/2013 11:37 AM	Main bath (11)	4/4/2013 11:46 AM
Exterior (11)	4/4/2013 11:21 AM	Kitchen	4/4/2013 11:38 AM	Main bath (12)	4/4/2013 11:46 AM
Exterior (12)	4/4/2013 11:21 AM	Kitchen (2)	4/4/2013 11:38 AM	Main bath (13)	4/4/2013 11:46 AM
Exterior (13)	4/4/2013 11:21 AM	Kitchen (3)	4/4/2013 11:38 AM	Main bath (14)	4/4/2013 11:46 AM
Exterior (14)	4/4/2013 11:21 AM	Kitchen (4)	4/4/2013 11:39 AM	Main stairs	4/4/2013 11:40 AM
Exterior (15)	4/4/2013 11:21 AM	Kitchen (5)	4/4/2013 11:39 AM	Main stairs (2)	4/4/2013 11:40 AM
Exterior (16)	4/4/2013 11:22 AM	Kitchen (6)	4/4/2013 11:39 AM	Main stairs (3)	4/4/2013 11:41 AM
Exterior (17)	4/4/2013 11:22 AM	Kitchen (7)	4/4/2013 11:39 AM	Master Bath	4/4/2013 11:43 AM
Exterior (18)	4/4/2013 11:22 AM	Kitchen (8)	4/4/2013 11:39 AM	Master Bath (2)	4/4/2013 11:43 AM
Exterior (19)	4/4/2013 11:22 AM	Kitchen (9)	4/4/2013 11:39 AM	Master Bath (3)	4/4/2013 11:43 AM
Exterior (20)	4/4/2013 11:22 AM	Kitchen (10)	4/4/2013 11:39 AM	Master bath (4)	4/4/2013 11:43 AM
Exterior (21)	4/4/2013 11:22 AM	Kitchen (11)	4/4/2013 11:39 AM	Master Bath (5)	4/4/2013 11:43 AM
Exterior (22)	4/4/2013 11:22 AM	Kitchen (12)	4/4/2013 11:39 AM	Master Bath (6)	4/4/2013 11:43 AM
Exterior (23)	4/4/2013 11:22 AM	Kitchen (13)	4/4/2013 12:00 PM	Master Bath (7)	4/4/2013 11:43 AM
Exterior (24)	4/4/2013 11:32 AM	Kitchen (14)	4/4/2013 11:59 AM	Master Bath (8)	4/4/2013 11:43 AM
Front hall	4/4/2013 11:35 AM	Laundry	4/4/2013 11:41 AM	MasterBR	4/4/2013 11:41 AM
Front hall (2)	4/4/2013 11:35 AM	Laundry (2)	4/4/2013 11:41 AM	MasterBR (2)	4/4/2013 11:41 AM
Front hall (3)	4/4/2013 11:36 AM	Laundry (3)	4/4/2013 11:47 AM	MasterBR (3)	4/4/2013 11:41 AM
Front hall (4)	4/4/2013 11:37 AM	Laundry (4)	4/4/2013 11:47 AM	MasterBR (4)	4/4/2013 11:41 AM
Front hall (5)	4/4/2013 11:37 AM	Laundry (5)	4/4/2013 11:47 AM	MasterBR (5)	4/4/2013 11:42 AM
Front hall (6)	4/4/2013 11:38 AM	LivingRm	4/4/2013 11:37 AM	MasterBR (6)	4/4/2013 11:42 AM
Front hall (7)	4/4/2013 11:59 AM	LivingRm (2)	4/4/2013 11:37 AM	MasterBR (7)	4/4/2013 11:42 AM
Front hall (8)	4/4/2013 11:59 AM	LivingRm (3)	4/4/2013 11:38 AM	MasterBR (8)	4/4/2013 11:42 AM
Garage	4/4/2013 11:35 AM	LivingRm (4)	4/4/2013 11:38 AM	MasterBR (9)	4/4/2013 11:42 AM
Garage (2)	4/4/2013 11:35 AM	LivingRm (5)	4/4/2013 11:38 AM	MasterBR (10)	4/4/2013 11:42 AM
Garage (3)	4/4/2013 11:35 AM	LivingRm (6)	4/4/2013 11:38 AM	MasterBR (11)	4/4/2013 11:42 AM
Garage (4)	4/4/2013 11:35 AM	LivingRm (7)	4/4/2013 11:38 AM	MasterBR (12)	4/4/2013 11:42 AM
Garage (5)	4/4/2013 11:36 AM	LivingRm (8)	4/4/2013 11:38 AM	MasterBR (13)	4/4/2013 11:42 AM
Garage (6)	4/4/2013 11:36 AM	LivingRm (9)	4/4/2013 11:59 AM	MasterBR (14)	4/4/2013 11:42 AM
Garage (7)	4/4/2013 11:36 AM	LivingRm (10)	4/4/2013 11:59 AM	MasterBR (15)	4/4/2013 11:43 AM
Garage (8)	4/4/2013 11:36 AM	LivingRm (11)	4/4/2013 11:59 AM	MasterBR (16)	4/4/2013 12:44 PM
Garage (9)	4/4/2013 11:36 AM	Main bath (9)	4/4/2013 11:46 AM	NW BR	4/4/2013 11:44 AM
Hall closet	4/4/2013 11:37 AM	Main bath (10)	4/4/2013 11:46 AM	NW BR (2)	4/4/2013 11:44 AM
Hall closet (2)	4/4/2013 11:37 AM				



PRE-REMEDATION PHOTOGRAPH LOG SHEET

FACTs project name: Golden Gate	Form # ML8
Date: April 4, 2013	
Reporting IH:	Caoimhin P. Connell, Forensic IH

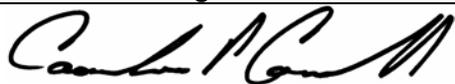
Name ^	Date Picture Taken	Name ^	Date Picture Taken	Name ^	Date Picture Taken
NW BR (3)	4/4/2013 11:44 AM	Sample 6	4/4/2013 12:55 PM	Sample 14	4/4/2013 1:57 PM
NW BR (4)	4/4/2013 11:44 AM	Sample 6 (2)	4/4/2013 12:55 PM	Sample 14 (2)	4/4/2013 1:57 PM
NW BR (5)	4/4/2013 11:44 AM	Sample 6 (3)	4/4/2013 12:56 PM	Sample 14 (3)	4/4/2013 1:57 PM
NW BR (6)	4/4/2013 11:44 AM	Sample 6 (4)	4/4/2013 12:56 PM	Sample 14 (4)	4/4/2013 1:57 PM
NW BR (7)	4/4/2013 11:44 AM	Sample 6 (5)	4/4/2013 12:57 PM	Sample 14 (5)	4/4/2013 2:04 PM
NW BR (8)	4/4/2013 11:44 AM	Sample 6 (6)	4/4/2013 12:50 PM	Sample 14 (6)	4/4/2013 2:04 PM
NW BR (9)	4/4/2013 11:45 AM	Sample 7	4/4/2013 12:58 PM	Sample 14 (7)	4/4/2013 2:04 PM
NW BR (10)	4/4/2013 1:06 PM	Sample 7 (2)	4/4/2013 12:58 PM	Sample 14 (8)	4/4/2013 2:04 PM
Open space	4/4/2013 11:41 AM	Sample 7 (3)	4/4/2013 12:59 PM	suits-gloves	4/4/2013 2:08 PM
Open space (2)	4/4/2013 11:41 AM	Sample 7 (4)	4/4/2013 12:59 PM	suits-gloves (2)	4/4/2013 2:08 PM
Open space (3)	4/4/2013 11:41 AM	Sample 7 (5)	4/4/2013 12:59 PM	SW BR	4/4/2013 11:45 AM
Open space (4)	4/4/2013 11:47 AM	Sample 7 (6)	4/4/2013 12:59 PM	SW BR (2)	4/4/2013 11:45 AM
Powder bath	4/4/2013 11:37 AM	Sample 7 (7)	4/4/2013 1:43 PM	SW BR (3)	4/4/2013 11:45 AM
Powder bath (2)	4/4/2013 11:37 AM	Sample 8	4/4/2013 1:00 PM	SW BR (4)	4/4/2013 11:45 AM
Powder bath (3)	4/4/2013 11:37 AM	Sample 8 (2)	4/4/2013 1:01 PM	SW BR (5)	4/4/2013 11:45 AM
Powder bath (4)	4/4/2013 11:37 AM	Sample 8 (3)	4/4/2013 1:03 PM	SW BR (6)	4/4/2013 11:45 AM
Powder bath (5)	4/4/2013 11:37 AM	Sample 8 (4)	4/4/2013 1:04 PM	SW BR (7)	4/4/2013 11:45 AM
Powder bath (6)	4/4/2013 11:40 AM	Sample 9	4/4/2013 1:08 PM	SW BR (8)	4/4/2013 11:45 AM
Powder bath (7)	4/4/2013 11:40 AM	Sample 9 (2)	4/4/2013 1:09 PM	SW BR (9)	4/4/2013 11:46 AM
Sample 1	4/4/2013 12:26 PM	Sample 10	4/4/2013 1:29 PM	SW BR (10)	4/4/2013 11:46 AM
Sample 3	4/4/2013 1:33 PM	Sample 10 (2)	4/4/2013 1:29 PM	SW BR (11)	4/4/2013 11:46 AM
Sample 3 (2)	4/4/2013 1:35 PM	Sample 10 (3)	4/4/2013 1:29 PM	US Hall	4/4/2013 11:43 AM
Sample 3 (3)	4/4/2013 1:36 PM	Sample 11	4/4/2013 1:47 PM	US Hall (2)	4/4/2013 11:43 AM
Sample 3 (4)	4/4/2013 1:36 PM	Sample 11 (2)	4/4/2013 1:47 PM	US Hall (3)	4/4/2013 11:44 AM
Sample 3 (5)	4/4/2013 1:36 PM	Sample 11 (3)	4/4/2013 1:47 PM	US Hall (4)	4/4/2013 11:45 AM
Sample 3 (6)	4/4/2013 1:38 PM	Sample 11 (4)	4/4/2013 1:48 PM	US Hall (5)	4/4/2013 11:45 AM
Sample 4	4/4/2013 1:43 PM	Sample 11 (5)	4/4/2013 1:48 PM	US Hall (6)	4/4/2013 11:46 AM
Sample 4 (2)	4/4/2013 1:43 PM	Sample 11 (6)	4/4/2013 1:48 PM	US Hall (7)	4/4/2013 11:46 AM
Sample 4 (3)	4/4/2013 1:44 PM	Sample 12	4/4/2013 1:51 PM	US Hall (8)	4/4/2013 11:47 AM
Sample 4 (4)	4/4/2013 1:45 PM	Sample 12 (2)	4/4/2013 1:52 PM	US Hall (9)	4/4/2013 11:47 AM
Sample 5	4/4/2013 12:46 PM	Sample 12 (3)	4/4/2013 1:53 PM	US Hall (10)	4/4/2013 1:21 PM
Sample 5 (2)	4/4/2013 12:47 PM	Sample 12 (4)	4/4/2013 1:53 PM	US Hall (11)	4/4/2013 1:21 PM
Sample 5 (3)	4/4/2013 12:47 PM	Sample 12 (5)	4/4/2013 1:53 PM	US hall closet	4/4/2013 11:44 AM



CERTIFICATION, VARIATIONS AND SIGNATURE SHEET

FACTs project name: Golden Gate	Form # ML14
Date: April 16, 2013	
Reporting IH:	Caoimhín P. Connell, Forensic IH

Certification

Statement	Signature
I do hereby certify that I conducted a preliminary assessment of the subject property in accordance with 6 CCR 1014-3, § 4.	
I do hereby certify that the property has been decontaminated in accordance with the procedures set forth in 6 CCR 1014-3, § 5.	XXXXXXXXXXXXXXXXXX
I do hereby certify that I conducted post-decontamination clearance sampling in accordance with 6 CCR 1014-3, § 6.	
I do hereby certify that the cleanup standards established by 6 CCR 1014-3, § 7 have been met as evidenced by testing I conducted.	
I do hereby certify that the analytical results reported here are faithfully reproduced.	

In the section below, describe any variations from the standard.

No known deviation of standard occurred.

MANDATORY LANGUAGE PURSUANT TO 6 CCR 1014-3 (§8.23 AND §8.24)

I do hereby certify that I conducted a preliminary assessment of the subject property in accordance with 6 CCR 1014-3, § 4. I further certify that the cleanup standards established by 6 CCR 1014-3, § 7 have been met as evidenced by testing I conducted.

Signature 

Date: April 16, 2013





**FORENSIC APPLICATIONS CONSULTING TECHNOLOGIES, INC.
CONSULTANT STATEMENT OF QUALIFICATIONS**

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

FACTs project name:	Golden Gate Grove	Form # ML15
Date	March 29, 2013	
Reporting IH:	Caoimhín P. Connell, Forensic IH	

Caoimhín P. Connell, has been involved in clandestine drug lab investigations since 2002 and meets the Colorado Revised Statutes §24-30-1402 definition of an "Industrial Hygienist." He has been a practicing Industrial Hygienist in the State of Colorado since 1987 and is the contract Industrial Hygienist for the National Center for Atmospheric Research. Mr. Connell is a recognized authority in drug-lab operations and is a Certified Instructor in Meth-Lab Safety through the Colorado Regional Community Policing Institute (Colorado Department of Public Safety, Division of Criminal Justice). Mr. Connell was the lead instructor for the Colorado Division of Criminal Justice and has provided over 260 hours of methlab training for officers of over 25 Colorado Police agencies, 20 Sheriff's Offices, federal agents and probation and parole officers throughout 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, US Air Force, 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; he is a member of the Colorado Drug Investigators Association, the American Industrial Hygiene Association (where he serves on the Clandestine Drug Lab Work Group), the American Conference of Governmental Industrial Hygienists and the Occupational Hygiene Society of Ireland. From 2009, as a law enforcement officer representing his agency, Mr. Connell served as the Industrial Hygiene Subject Matter Expert on the Federally funded Interagency Board (www.IAB.gov) Health, Medical, and Responder Safety SubGroup, and was elected full member of the IAB-HMRS in 2011, and he conducted the May, 2010, AIHA Clandestine Drug Lab Course.

He has received over 144 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 US NHTSA, and 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" and is currently ARIDE Certified.

Mr. Connell is a current 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 335 assessments in illegal drug labs in Colorado, Nebraska and Oklahoma, and collected over 3,050 samples during assessments (a detailed list of drug lab experience is available on the web at):

<http://forensic-applications.com/meth/DrugLabExperience2.pdf>

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 several criminal cases including Grand Jury testimony and testimony for US Bureau ATF and he testified before the Colorado Board of Health and Colorado Legislature Judicial Committee regarding methlab issues. Mr. Connell has provided services to private consumers, Indian Nations, State Investigators, and Federal Investigators with forensic services and arguments against corrupt regulators, fraudulent industrial hygienists, and unauthorized consultants performing invalid methlab assessments.

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

APPENDIX B

ANALYTICAL REPORTS FOR FACTS SAMPLES

SAMPLING FIELD FORM

FACTs project name: Golden Gate Form # ML17
 Date: April 4, 2013 Alcohol Lot#: A1201 Gauze Lot#: G1201
 Reporting IH: Caoimhin P. Connell, Forensic IH Preliminary X Intermediate Final

Sample ID GGM040413-	Type	Location	Funct. Space	Dimensions	Substrate
-01	W	Attic / PVC pipe / sewer release stack	10	10 x 50	PVC
-02					
-03		Garage top of grg dr rail	4	74 x 250	Metal
-04		Powder Bath / top of glass shelf	5	75 x 277	glass
-05		Master Bd / mop board	5	75 x 667	PWD
-06		Master Bath / top shower stall	6	Below	Pl
-07		US Bath / top shower stall	7	Below	Pl
-08		SW Bath / top closet ledge	8	20 x 25	P DW
-09		SW Bath / mop board	8	75 x 667	P WD
-10		Hall stairs / laundry window blinds	1	200 x 2.5	Pl
-11		Kitchen top of cabinet	3	20 x 25	V WD
-12		Bsmr / top of duct	11	10 x 66	Metal
-13					
-14		Furnace interior		20 x 27	Metal
-15					

Sample Types: W=Wipe; V=Microvacuum; A=Air; B=Bulk; L=Liquid
 Surfaces: DW=Drywall, P=Painted; W=Wood, L=Laminated, V=Varnished, M=Metal, C=Ceramic, Pl=Plastic

- 5 - 20% under sampled
- 6 - analyzed top 80% of 2012 + 135 + 173
- 7 - " " " "
- 8 - 50% under sampled
- 10 - 50% under sampled
- 14 - 10% under sampled
- 04 - 13 x 27.75 cm

NOTE: Garage Door not located



Forensic Applications

Final Report

RES 255722-1

March 28, 2013

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March 28, 2013

Laboratory Code: RES
Subcontract Number: NA
Laboratory Report: RES 255722-1
Project # / P.O. #: Golden Gate
Project Description: None Given

Caoimhin Connell
Forensic Applications
185 Bounty Hunter Ln.
Bailey CO 80421

Dear Customer,

Reservoirs Environmental, Inc. is an analytical laboratory accredited for the analysis of Environmental matrices by the National Environmental Laboratory Accreditation Program, Lab Certification #E871030. The laboratory is currently proficient in the in-house ERA PAT Program.

Reservoirs has analyzed the following sample(s) using Gas Chromatography Mass Spectrometry (GC/MS) / Gas Chromatography Flame Ionization Detector (GC/FID) per your request. The analysis has been completed in general accordance with the appropriate methodology as stated in the analysis table. Results have been sent to your office.

RES 255722-1 is the job number assigned to this study. This report is considered highly confidential and the sole property of the customer. Reservoirs Environmental, Inc. will not discuss any part of this study with personnel other than those authorized by the client. The results described in this report only apply to the samples analyzed. This report shall not be reproduced except in full, without written approval from Reservoirs Environmental, Inc. Samples will be disposed of after sixty days unless longer storage is requested. If you should have any questions about this report, please feel free to call me at 303-964-1986.

Sincerely,

A handwritten signature in blue ink, appearing to read "Jeanne Orr", is written over a horizontal line.

Jeanne Spencer Orr
President

Analyst(s): 
Mike Schaumloeffel

RESERVOIRS ENVIRONMENTAL, INC.

NVLAP Accredited Laboratory #101896
AIHA Certificate of Accreditation #480 LAB ID 101533

TABLE I. ANALYSIS: METHAMPHETAMINE BY WIPE

RES Job Number: **RES 255722-1**
 Client: **Forensic Applications**
 Client Project Number / P.O.: **Golden Gate**
 Client Project Description: **None Given**
 Date Samples Received: **March 22, 2013**
 Analysis Type: **Methamphetamine by GCMS**
 Turnaround: **5 Day**
 Date Samples Analyzed: **March 28, 2013**

Client ID Number	Lab ID Number	Reporting Limit** (µg)	METHAMPHETAMINE CONCENTRATION (µg)
GGM032113-01	EM 928768	0.3	BRL
GGM032113-02	EM 928769	0.3	BRL
GGM032113-03	EM 928770	0.3	0.65
GGM032113-04	EM 928771	0.3	BRL

****Client Specified Reporting Limit**

*** Unless otherwise noted all quality control samples performed within specifications established by the laboratory.**

RESERVOIRS ENVIRONMENTAL, INC.

NVLAP Accredited Laboratory #101896
AIHA Certificate of Accreditation #480 LAB ID 101533

QUALITY CONTROL: METHAMPHETAMINE BY WIPE

RES Job Number: **RES 255722-1**
Client: **Forensic Applications**
Client Project Number / P.O.: **Golden Gate**
Client Project Description: **None Given**
Date Samples Received: **March 22, 2013**
Analysis Type: **Methamphetamine by GCMS**
Turnaround: **5 Day**
Date Samples Analyzed: **March 28, 2013**

Quality Control Batch	Reporting Limit ($\mu\text{g}/100\text{cm}^2$)	Matrix Blank ($\mu\text{g}/100\text{cm}^2$)	Matrix Duplicate (% RPD)	Matrix Spike (% Recovery)	Laboratory Control Sample (% Recovery)
1	0.05	BRL	6	88	91

* Unless otherwise noted all quality control samples performed within specifications established by the laboratory.

** These analytical results meet NELAC requirements.

Due Date: 3-22-13
 Due Time: 1130a

RES 255722

REILAB Reservoirs Environmental, Inc.

After Hours Cell Phone: 720-339-9228

INVOICE TO: (IF DIFFERENT)

Company: Forensic Applications, Inc Address: 185 Bounty Hunters Lane Bailey, CO 80421 Project Number and/or P.O. #: Golden Gate Project Description/Location:	CONTACT INFORMATION: Contact: Caomhán P. Connell Phone: 303-903-7494 Fax: Cell/pager: Final Data Deliverable Email Address: admin@forensic-applications.com
--	--

Client sample ID number (Sample ID's must be unique)	REQUESTED ANALYSIS		VALID MATRIX CODES		LAB NOTES:																
	PLM - Short report, Long report, Point Count	TEM - AHERA, Level II, 7402, ISO +/-, Quant, Semi-quant, Micro-vac, ISO-Indirect Preps	PCB - 7400A, 7400B, OSHA	DUST - Total, Respirable		METALS - Analyte(s)	ORGANICS - METH	Salmonella: +/-	Listeria: +/-	Aerobic Plate Count: +/- or Quantification	Coliforms: +/- or Quantification	S aureus: +/- or Quantification	Y & M: +/- or Quantification	Mold: +/-, Identification, Quantification	SAMPLER'S INITIALS OR OTHER NOTES: SPECIAL REPORTING LIMIT	Sample Volume (L) / Area	Matrix Code	# Containers	Date Collected mm/dd/yyyy	Time Collected h:mm am/pm	EM Number (Laboratory Use Only)
1 GGM032113-01																					
2 GGM032113-02																					
3 GGM032113-03																					
4 GGM032113-04																					
5																					
6																					
7																					
8																					
9																					
10																					

Number of samples received: 4 (Additional samples shall be listed on attached long form.)
 NOTE: REI will analyze incoming samples based upon information received and will not be responsible for errors or omissions in calculations resulting from the inaccuracy of original data. By signing client/company representative agrees that submission of the following samples for requested analysis as indicated on this Chain of Custody shall constitute an analytical services agreement with payment terms of NET 30 days, failure to comply with payment terms may result in a 1.5% monthly interest surcharge.

Relinquished By: Caomhán P. Connell Date/Time: 3-22-13 1130a Carrier: STANDARD
 Laboratory Use Only
 Received By: Caomhán P. Connell Date/Time: 3-22-13 1130a Carrier: STANDARD
 Results: Contact Phone Email Fax Date Time Initials Contact Phone Email Fax Date Time Initials



Forensic Applications

Final Report

RES 255722-1

March 28, 2013

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March 28, 2013

Laboratory Code: RES
Subcontract Number: NA
Laboratory Report: RES 255722-1
Project # / P.O. #: Golden Gate
Project Description: None Given

Caoimhin Connell
Forensic Applications
185 Bounty Hunter Ln.
Bailey CO 80421

Dear Customer,

Reservoirs Environmental, Inc. is an analytical laboratory accredited for the analysis of Environmental matrices by the National Environmental Laboratory Accreditation Program, Lab Certification #E871030. The laboratory is currently proficient in the in-house ERA PAT Program.

Reservoirs has analyzed the following sample(s) using Gas Chromatography Mass Spectrometry (GC/MS) / Gas Chromatography Flame Ionization Detector (GC/FID) per your request. The analysis has been completed in general accordance with the appropriate methodology as stated in the analysis table. Results have been sent to your office.

RES 255722-1 is the job number assigned to this study. This report is considered highly confidential and the sole property of the customer. Reservoirs Environmental, Inc. will not discuss any part of this study with personnel other than those authorized by the client. The results described in this report only apply to the samples analyzed. This report shall not be reproduced except in full, without written approval from Reservoirs Environmental, Inc. Samples will be disposed of after sixty days unless longer storage is requested. If you should have any questions about this report, please feel free to call me at 303-964-1986.

Sincerely,

A handwritten signature in blue ink, appearing to read "Jeanne Orr", is written over a horizontal line.

Jeanne Spencer Orr
President

Analyst(s): 
Mike Schaumloeffel

RESERVOIRS ENVIRONMENTAL, INC.

NVLAP Accredited Laboratory #101896
AIHA Certificate of Accreditation #480 LAB ID 101533

TABLE I. ANALYSIS: METHAMPHETAMINE BY WIPE

RES Job Number: **RES 255722-1**
 Client: **Forensic Applications**
 Client Project Number / P.O.: **Golden Gate**
 Client Project Description: **None Given**
 Date Samples Received: **March 22, 2013**
 Analysis Type: **Methamphetamine by GCMS**
 Turnaround: **5 Day**
 Date Samples Analyzed: **March 28, 2013**

Client ID Number	Lab ID Number	Reporting Limit** (µg)	METHAMPHETAMINE CONCENTRATION (µg)
GGM032113-01	EM 928768	0.3	BRL
GGM032113-02	EM 928769	0.3	BRL
GGM032113-03	EM 928770	0.3	0.65
GGM032113-04	EM 928771	0.3	BRL

****Client Specified Reporting Limit**

*** Unless otherwise noted all quality control samples performed within specifications established by the laboratory.**

RESERVOIRS ENVIRONMENTAL, INC.

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AIHA Certificate of Accreditation #480 LAB ID 101533

QUALITY CONTROL: METHAMPHETAMINE BY WIPE

RES Job Number: **RES 255722-1**
Client: **Forensic Applications**
Client Project Number / P.O.: **Golden Gate**
Client Project Description: **None Given**
Date Samples Received: **March 22, 2013**
Analysis Type: **Methamphetamine by GCMS**
Turnaround: **5 Day**
Date Samples Analyzed: **March 28, 2013**

Quality Control Batch	Reporting Limit ($\mu\text{g}/100\text{cm}^2$)	Matrix Blank ($\mu\text{g}/100\text{cm}^2$)	Matrix Duplicate (% RPD)	Matrix Spike (% Recovery)	Laboratory Control Sample (% Recovery)
1	0.05	BRL	6	88	91

* Unless otherwise noted all quality control samples performed within specifications established by the laboratory.

** These analytical results meet NELAC requirements.

Due Date: 3-22-13
 Due Time: 1130a

RES 255722

REILAB Reservoirs Environmental, Inc.

After Hours Cell Phone: 720-339-9228

INVOICE TO: (IF DIFFERENT)

Company: Forensic Applications, Inc	Contact: Caomhán P. Connell
Address: 185 Bounty Hunters Lane	Phone: 303-903-7494
Ballou, CO 80421	Fax:
Project Number and/or P.O. #: Golden Gate	Cell/pager:
Project Description/Location:	Final Data Deliverable Email Address: admin@forensic-applications.com

Client sample ID number (Sample ID's must be unique)	REQUESTED ANALYSIS		VALID MATRIX CODES		LAB NOTES:																
	PLM - Short report, Long report, Point Count	TEM • AHERA, Level II, 7402, ISO +/-, Quant, Semi-quant, Micro-vac, ISO-Indirect Preps	PCB - 7400A, 7400B, OSHA	DUST - Total, Respirable		METALS - Analyte(s)	ORGANICS - METH	Salmonella: +/-	Listeria: +/-	Aerobic Plate Count: +/- or Quantification	Coliforms: +/- or Quantification	S aureus: +/- or Quantification	Y & M: +/- or Quantification	Mold: +/-, Identification, Quantification	SAMPLER'S INITIALS OR OTHER NOTES: SPECIAL REPORTING LIMIT	Sample Volume (L) / Area	Matrix Code	# Containers	Date Collected mm/dd/yy	Time Collected h:mm ap	EM Number (Laboratory Use Only)
1 GGM032113-01																					
2 GGM032113-02																					
3 GGM032113-03																					
4 GGM032113-04																					
5																					
6																					
7																					
8																					
9																					
10																					

Number of samples received: 4 (Additional samples shall be listed on attached long form.)
 NOTE: REI will analyze incoming samples based upon information received and will not be responsible for errors or omissions in calculations resulting from the inaccuracy of original data. By signing client/company representative agrees that submission of the following samples for requested analysis as indicated on this Chain of Custody shall constitute an analytical services agreement with payment terms of NET 30 days, failure to comply with payment terms may result in a 1.5% monthly interest surcharge.

Relinquished By: Caomhán P. Connell Date/Time: 3-22-13 1130a Carrier: 130a
 Laboratory Use Only
 Received By: Caomhán P. Connell Date/Time: 3-22-13 1130a Carrier: 130a
 Results: Contact Phone Email Fax Date Time Initials Contact Phone Email Fax Date Time Initials

APPENDIX C

COMPACT DIGITAL DISK (PHOTOGRAPHS AND ADDITIONAL DOCUMENTATION)

