

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

**96 Hofer Lane
Evergreen, CO 80439**

Prepared for:

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December 20, 2014

TABLE OF CONTENTS

EXECUTIVE SUMMARY	3
REGULATORY REQUIREMENTS	4
Federal Requirements.....	4
County Requirements	4
State Requirements	4
Preliminary Assessment.....	4
Elements of the Preliminary Assessment.....	5
Subject Structure	6
Preliminary Hypothesis for Preliminary Assessment.....	7
Initial Statement on Hypothesis Testing.....	8
Review of Law Enforcement Documentation.....	8
Governing Body.....	8
Visual Inspection of the Property.....	9
FUNCTIONAL SPACE SUMMARY	9
Universal Site Observations	10
Functional Space 1: Living Room Complex.....	10
Functional Space 2: Common Bathroom	10
Functional Space 3: Southeast Bedroom and Closet.....	10
Functional Space 4: Master Bathroom.....	10
Functional Space 5: Northeast Bedroom	10
Functional Space 6: North Central Bedroom.....	11
Functional Space 7: Basement	11
Functional Space 8: Attic.....	11
Functional Space 9: Exterior Shed	11
Functional Space 10: Exterior Patio	11
Heating and Ventilation	11
EXTERIOR GROUNDS.....	11
SEWERAGE SYSTEM.....	12
Soil Gas Assessment.....	13
Septic Tank	16
IDENTIFICATION OF COOK/STORAGE AREAS	17
CONTAMINATION MIGRATION.....	18
SAMPLE COLLECTION.....	18
Wipe Samples	18
Methamphetamine Analysis.....	18
QA/QC Precautions	18
Field Blanks	19
Field Spikes	19
Quality Assurance/Quality Control (Regulatory Sample Only)	19
Cross Contamination	19
Collection Rationale.....	20
Primary Objective	20
Sample Results	20
Methamphetamine	20
Sample Locations	21
CONCLUSIONS	22
Universal Site Requirements	22
Decontamination of the Residence.....	25

- Appendix A: Supporting Documents
- Appendix B: Analytical Reports for FACTs Samples
- Appendix C: Compact Digital Disk



EXECUTIVE SUMMARY

On December 9, 2014, Forensic Applications Consulting Technologies, Inc. (FACTs) was contracted by the representative of the Registered Owner of 96 Hofer Lane, Evergreen, CO (the subject property) to perform a standard Industrial Hygiene assessment for the presence of methamphetamine at that location.

During that assessment, personnel from FACTs collected samples pursuant to the intent of Colorado Revised Statutes §38-35.7-103(2)(a).¹ At the time of the assessment, 6 CCR 1014-3, *Amended* was not in effect, and therefore the more scientifically valid Industrial Hygiene protocol was deployed.

The results of those samples conclusively identified the presence of methamphetamine contamination at the subject property. By virtue of that assessment, an “Illegal Drug Laboratory” was “discovered” and “notification” was made to the seller of the property by virtue of a written report dated December 12, 2014.

The representative of the Registered Owner of 96 Hofer Lane, Evergreen, CO commissioned a Preliminary Assessment as required under the regulations that existed at the time; (6 CCR 1014-3 *Amended* did not become effective until three days later). As such, a Preliminary Assessment was performed for the property under the mandatory State requirements in effect at the time the work was started. FACTs performed a “Preliminary Assessment” at the subject property as defined by 6 CCR 1014-3. Based on the totality of circumstances, FACTs concludes:

- An illegal drug laboratory, as defined in Colorado Revised Statutes, §25-18.5-101(8) has existed at the property since at least December 9, 2014, and currently exists at the subject property.
- “Discovery” and “Notification” of an illegal drug laboratory occurred on December 12, 2014, and that information entered the public domain at that time.
- A Class 1 Public Nuisance, as defined in CRS §16-13-303(1) existed at the subject property from at least December 12, 2014, forward, and continues to exist at the time of this report.
- The entire structure excluding the attic, and excluding the exterior shed and all exterior components, must be decontaminated in a manner consistent with current State regulations (6 CCR1014-3 *Amended*).
- Following the decontamination activities, an authorized Industrial Hygienist must perform the post-decontamination process in accordance with 6 CCR 1014-3 *Amended* and issue a Post-Decontamination Report pursuant to Section 8, of 6 CCR 1014-3 *Amended*.

¹ For this project, the State of Colorado recognizes that statutory language within CRS 38-35.7 notwithstanding, it is not possible to comply with the language of the statute as written with regarding to sampling. See *Cleanup of Clandestine Methamphetamine Labs Guidance Document*, July 2003 (Revised October 2007)



- This PA was performed by Mr. Caoimhin P. Connell, Forensic Industrial Hygienist with FACTs. Mr. Connell was assisted in the field by Ms. Christine Carty,² President, and by Mr. Glenn Hardey, Field Technician.³

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).

County Requirements

Clear Creek County does not have any specific regulations pertaining to this project except those established by the State of Colorado (see below).

State Requirements

For this project, the Amended rules had not yet become effective. Therefore, from this point forward, no further allusion to the amended regulation will be made. It is stipulated, however, that the amended rules became effective during this project, and all decontamination and final clearance is subject to the amended rules.

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 “notice,” the property must either be demolished or a “Preliminary Assessment” (PA) 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.⁴

The PA must be conducted according to specified requirements⁵ by an authorized Industrial Hygienist as that term is defined in CRS §24-30-1402. This document, and all

² Training certificate in Clandestine Drug Laboratory Assessments through the Colorado Regional Community Policing Institute, Colorado Division of Criminal Justice, (US Dept. of Justice High Intensity Drug Trafficking Area). Certified pursuant to 29 CFR § 1910.120.

³ Training certificate in Clandestine Drug Laboratory Assessments through the Colorado Regional Community Policing Institute, Colorado Division of Criminal Justice, (US Dept. of Justice High Intensity Drug Trafficking Area). Certified in Clandestine Drug Lab entry and processing through the US Drug Enforcement Agency, and 29 CFR § 1910.120. Mr. Hardey is a sworn police officer and former Sheriff’s Sergeant and SWAT Team leader who has approximately 12 years experience in drug interdiction, and was a co-instructor of the 2010 American Industrial Hygiene Association Clandestine Drug Lab Professional Development Course for North America’s top Industrial Hygienists.

⁴ Section 8.26 of 6 CCR 1014-3

⁵ Section 4 of 6 CCR 1014-3



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 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 §16-13-303, the subject property is deemed a Class 1 Public Nuisance.

As such, the entire subject property, excluding the attic, shed and all exterior components, must be remediated according to State Board of Health regulations 6-CCR-1014-3 or demolished (CRS §25-18.5-103).

Elements of the Preliminary Assessment

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

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

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



Subject Structure

The Clear Creek Assessor's information for this property is ambiguous, and Clear Creek identifies the property as a 1,440 square foot residence. For the purposes of 6 CCR 1014-3, however, the property is a 3,300 square foot property with an exterior shed approximating 80 square feet.

A general aerial layout of the residential setting is depicted in the photograph below; the subject property is approximated by the red outline.

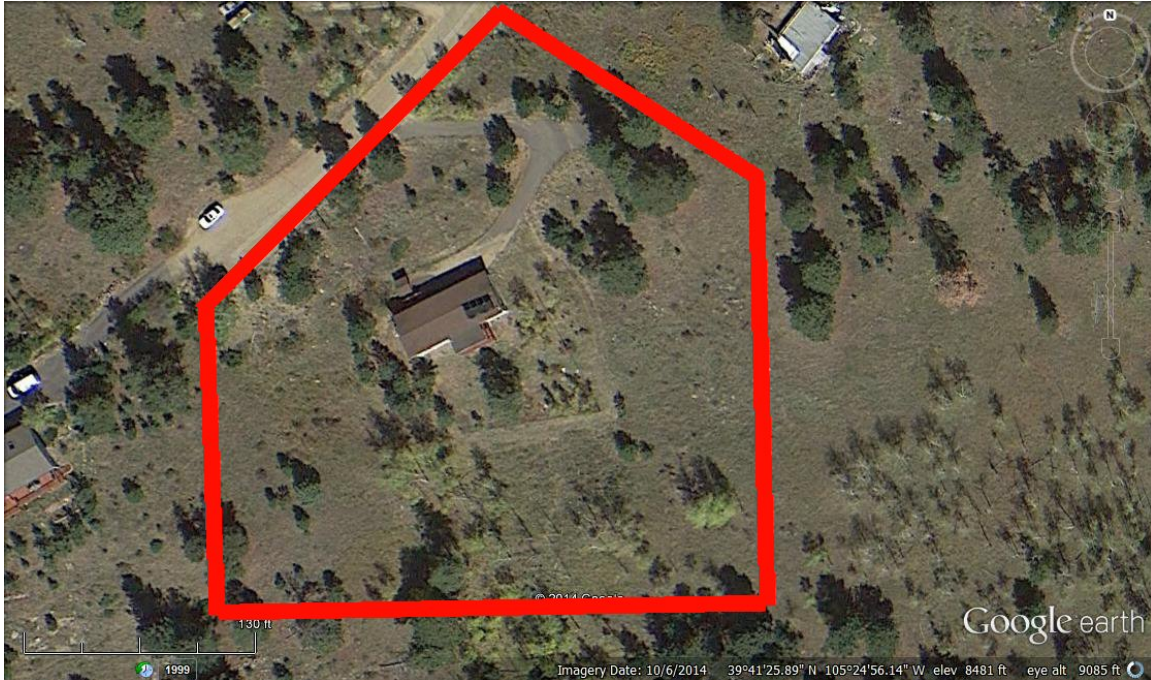


Figure 1
General Site Layout⁶

A general partial plat of the property is provided in the line drawing below. The subject property is outlined in red and filled in yellow; north is at the top.

⁶Possible Copyright by Google; fair use exemption accessed through Google Earth™



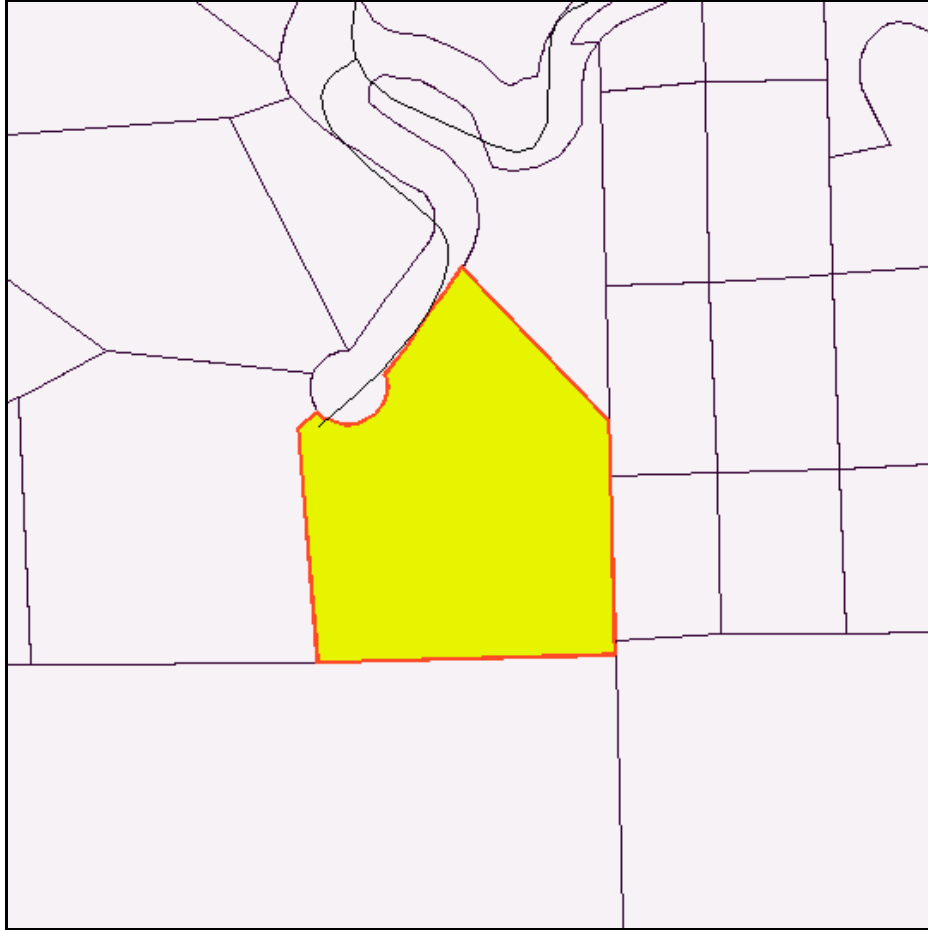


Figure 2
General Site Layout⁷

Preliminary Hypothesis for Preliminary Assessment

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 fail 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-compliant.⁸ 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 meth laboratories, to conclude the *presence* of methamphetamine, and/or its precursors or waste products as related to processing.

⁷ Image obtained from the Clear Creek County Assessor's office, December 12, 2014

⁸ This language and emphasis is verbatim from Appendix A (mandatory) of 6 CCR 1014-3



As such, in this case, the real estate testing that was performed on December 9, 2014, conclusively demonstrated that the property met the definition of an “illegal drug laboratory” pursuant to CRS §25-18.5-101, as follows:⁹

CRS §25-18.5-101. Definitions.

(2.7) "Illegal drug laboratory" means the areas where controlled substances, as defined by section 18-18-102, C.R.S., have been manufactured, processed, cooked, disposed of, used, or stored and all proximate areas that are likely to be contaminated as a result of such manufacturing, processing, cooking, disposal, use, or storing.

Contrary to common belief and contrary to inaccurate statements¹⁰ made by individuals with the Colorado Department of Public Health and Environment, additional sampling is **not** required during a PA. And for this property, the concentrations of contamination were profoundly elevated, indicating widespread contamination migration.

Initial Statement on Hypothesis Testing

Regarding this subject property, although sufficient information existed from the real estate testing to conclusively identify the presence of an illegal drug laboratory, FACTs determined there was insufficient information necessary to conclusively identify the entire structure as noncompliant, and therefore, FACTs performed sampling in selected areas to challenge those areas – specifically the exterior shed and the external sewer system.

Review of Law Enforcement Documentation

As part of the PA, FACTs is required by regulation¹¹ to review available law enforcement documents pertinent to a subject property. For this property, Clear Creek County Sheriff’s Office exhibited the highest degree of professionalism and courtesy and promptly responded to our requests for information regarding the property.

According to the Clear Creek County Sheriff’s Office, use and possession of methamphetamine occurred at the property. However, the Clear Creek County Sheriff’s Office did not have any documentation to indicate that methamphetamine was otherwise manufactured, processed or discarded at the location.

Governing Body

For this property, jurisdiction for the abatement of the public nuisance lies with the office of the “Governing Body.” The property lies within Clear Creek County, and pursuant to CRS §25-18.5-101(7), the office of the “Governing Body” is:

⁹ As of August 7, 2013, the rubric and the language for this definition changed.

¹⁰ 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.

¹¹ 6 CCR 1014-3 (Section 4.2)



- 1) Idaho Springs Police Department
- 2) Clear Creek County Sheriff's Office
- 3) Clear Creek County Building Department
- 4) Clear Creek County Department of Health
 Cindy Dicken
 405 Argentine St.
 P.O. Box 2000
 Georgetown, CO 80444

Visual Inspection of the Property

As part of the Preliminary Assessment, on December 15, 2014, personnel from FACTs revisited the property and performed a visual inspection of the subject property. During this inspection, pursuant to regulatory requirements, the subject property was assigned into “functional spaces,” and an indicia inventory and assessment was performed for each functional space.

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.¹²

A general overview of each space is provided in the following discussion. Indicators are detailed in FACTs field 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	Living room, Dining Room, Hallway, Kitchen, Laundry
2	Common Bathroom
3	South East Bedroom and Closet
4	Master Bathroom
5	Northeast Bedroom and Closet
6	North Central Bedroom and Closet
7	Basement and Stairway
8	Attic
9	Exterior Shed
10	Exterior Decks

**Table 2
Functional Space Inventory**

¹² Asbestos Containing Materials in Schools; Final Rule and Notice, Title 40 CFR Part 763, Fed. Reg. Vol. 52, No. 210, Fri. Oct. 30, 1987



Universal Site Observations

In general, the subject property was in relatively fair condition with heavy “ghosting” throughout. The ghosting is a surface deposition of ultrafine particles produced during common combustion such as wood stoves, candles, and smoking tobacco products.

Functional Space 1: Living Room Complex

Upon entry into the structure from the front (north) door, one immediately enters into the Living Room Dining Room area facing the open kitchen.

Three cursory assessment samples were collected from this Functional Space (HM120914-01A, HM120914-01B and HM120914-01C) which indicated a contamination level of approximately 45 micrograms of methamphetamine per 100 square centimeters (45 μ /100cm²).

Burn marks and staining on walls and floors were also evident in this area.

Functional Space 2: Common Bathroom

Used here as the term is commonly understood, this area occupies the central southern portion of the top floor of the structure. One of the cursory assessment samples was collected from this Functional Space (HM120914-01D) which indicated a contamination level of approximately 45 μ g/100cm². Otherwise, this space was unremarkable.

Functional Space 3: Southeast Bedroom and Closet

Used here as the term is commonly understood, this area occupies the southeast quadrant of the upstairs and may be accurately called the “master bedroom.” This room was also included in the initial real estate testing composite sample which indicated a contamination level of 45 μ g/100 cm². This room exhibited signs of violence and staining. Also, from this space the attic is accessed through an opening in the ceiling of the closet.

Functional Space 4: Master Bathroom

Used here as the term is commonly understood, this small Functional Space was a bathroom with a small shower. This space exhibited signs of surface burn marks but otherwise no visual indicators were seen. This room was included in the initial real estate testing composite sample which indicated a contamination level of approximately 8 μ g/100 cm².

Functional Space 5: Northeast Bedroom

This room occupies the northeast quadrant of the top floor. The room, like the remainder of the house, contained heavy ghosting, but otherwise was unremarkable. During the initial testing on December 9, 2014, a sample was collected from this room which indicated a contamination level of approximately 8 μ g/100 cm².



Functional Space 6: North Central Bedroom

This room occupies the northern central half of the structure. This Functional Space exhibited signs of violence and staining (ghosting), but otherwise was unremarkable. During the initial testing on December 9, 2014, a sample was collected from this room which indicated a contamination level of approximately 8 µg/100 cm².

Functional Space 7: Basement

Accessible exclusively from the Kitchen and an exterior door on the south, the basement is a large, open plan unfinished basement. Two samples were collected from the basement on the initial sampling assessment, and that composite sample indicated a contamination level of approximately 8 µg/100 cm². The basement was otherwise unremarkable.

Functional Space 8: Attic

Used here as the term is commonly understood, this Functional Space is accessed exclusively from an entrance in the ceiling of the southeast bedroom. The attic has a very shallow elevation and cannot be reasonably entered, and cannot be readily used for any purpose or occupied, or used for storage. Therefore, the attic is excluded from further consideration.

Functional Space 9: Exterior Shed

The exterior shed had no visual indicators to suggest contamination was present. Therefore, the exterior shed was challenged with regulatory sample HM121214-02. That sample indicated compliance and the shed is removed from the remediation process and not considered further.

Functional Space 10: Exterior Patio

Used here as the term is commonly understood, the exterior patio and deck were evaluated, and based on our professional judgment, the exterior portions of the property could not reasonably be considered contaminated due to the complete open access. Therefore, these areas are not considered further.

Heating and Ventilation

The property is heated via a boiler in the basement which circulates hot water to baseboard heaters in the structure. There is no forced air furnace or central air conditioner or interior ducts in the structure.

EXTERIOR GROUNDS

Extant and historical aerial photography provided various indications of stressed vegetation. However, visually, we did not observe signs of dumping and we did not observe any staining consistent with dumping of illegal wastes at the property.



SEWERAGE SYSTEM

Regulation 6-CCR-1014-3 (§4.11) requires inspection of plumbing system integrity and identification and documentation of potential disposal into the sanitary sewer or an individual sewage disposal system (ISDS).

Pursuant to Colorado Regulation 6 CCR 1014-3, upon discovery and notification of a property identified as an “illegal drug laboratory,” that property must be subject to specific assessment protocols.

For identified illegal drug laboratories with outdoor components, additional sampling must be performed when conditions indicate the potential for soil contamination. Outdoor surfaces must be evaluated based on professional judgment.

Outdoor areas include “individual sewage disposal systems” (ISDSs) which are defined as

...an absorption system of any size or flow or a system or facility for treating, neutralizing, stabilizing, or disposing of sewage which is not part of or connected to a sewage treatment works.

If the assessing consultant determines that field screening and/or sampling of an ISDS is necessary to determine if methamphetamine lab waste products have been disposed of into an ISDS, such field screening and/or sampling shall be conducted in accordance with the field screening and sampling protocols presented in Appendix D of State Regulations which states:

Initial field screening shall consist of the following:

1. Monitoring the septic tank for volatile organic compounds (VOCs) using a photo ionization detector (PID) or a flame ionization detector (FID).
2. Testing the pH of liquid in the septic tank using pH paper or a pH meter.

Additional field screening may be conducted, at the discretion of the contractor, to further investigate the possible presence of drug lab waste.

FACTs assessed the septic system and, performed subsoil gas analysis to determine if hydrocarbons (methamphetamine waste products) may have been released into the septic tank and subsequently leaked from the septic tank or leach field into surrounding soils.

Also for this project, we used standard semi-quantitative water quality wet chemistry methods to test the effluent for acidity/alkalinity.

Hydrocarbons were measured using an on-site, state-of-the-art, broad-range hydrocarbon photoionization detector (RAE Systems MiniRAE 3000 PID). The instrument had been calibrated according to the manufacturer’s procedure using isobutylene as a span gas.

The state of Colorado regulations state:



For laboratories with outdoor components, or laboratories which are exclusively outdoors, the following sampling shall be performed when conditions indicate the potential for soil contamination. Sampling shall be conducted in accordance with the grid sampling method as described in the Midwest Research Institute's publication titled "Field Manual for Grid Sampling of PCB Spill Sites to Verify Cleanup" (referenced in 40 CFR § 761.130), which is incorporated herein by reference. Surface samples shall be taken to a depth of no greater than 8 cm. Sample volume should be at least 100 cm³ and no more than 250 cm³. ...

In this case, the soil gas samples were initially conducted as a screening process to determine the location of the grid. However, the screening locations were conclusive, and there was no information to indicate a plume or that contaminants were in fact present or had been introduced into or leaked from the septic system.

Colorado Revised Statutes §9-1.5-101 *et seq* prevents the insertion of ground penetrating probes without proper notification to the Notification Association. Such notification was performed and the locator documentation was obtained and is included in the data package.

Soil Gas Assessment

To assess the soils around the septic tank and the leach field, FACTs employed direct push soil sampling techniques, wherein we drove an hollow gas sampling tip to a desired depth in the soils (in this case, our target depth was one meter). The tip is attached to a length of Teflon[®] tubing, and using an high-vacuum hand pump, soil gases are extracted into a Tedlar[®] gas sampling bag (See Photograph 1, below). Gases from the Tedlar bag are then introduced into suitable instruments for direct reading qualitative analysis (in this case, we measured broad range hydrocarbons).





Photograph 1
Direct Push Soil Gas Sampling

The diagram that follows provides the approximate locations for each of the soil gas probe sampling locations.





Figure 3
Soil Gas Probe Sampling Locations

Hole #	Depth (m)	BRH ppm	Vacuum (Hg")	Instrument Response (sec)
1	0.75	0.3	5	2
2	1	0.4	2	5
3	1	0.5	2	10
4	1	4.6	2	20

BRH=total hydrocarbons

Table 3
Soil Gas Probe Sampling Summary

In the table above, designation ‘Vacuum Hg” is the pressure differential observed during the extraction of the soil gas and speaks to the issue of sampling train integrity, soil porosity and soil “communication.” A very low or zero reading would indicate a leak in the sampling system. In this case, the communication was relatively good and consistent with a rocky, packed regolith stratum; good communication in this case means soil gas was easily obtained.



The “instrument response” is the observation time in seconds taken to achieve the maximum reading. The faster the response to maximum reading, coupled with greater the hydrocarbon concentrations indicates contamination. In this case, the hydrocarbon levels were all very low, and even the highest value observed (Number 4), took 20 seconds to reach the maximum concentration.

Septic Tank

We were able to locate and access the septic tank serving the residence. The tank had been pumped prior to our arrival. Nevertheless, our visual inspections indicated that the tank was devoid of “slick” and devoid of bi-phasic liquids, indicating that organic solvents had not been discarded in the septic system.

Subjectively, we did not observe any odors associated with cyclic aromatic or aliphatic solvents. The vapor phase hydrocarbon concentration in the headspace above the holding tank liquid was less than 2 ppm.

Using a coliwasa, we collected a sample from the tank (see Photograph 2)



Photograph 2
Coliwasa Stratified Septic Tank Contents



Using standard colorimetric wet chemistry, we determined that the pH of the septic tank contents was approximately 6.5 (See photograph 3, below).



Photograph 3
Wet Chemistry Determinations of Septic Tank Contents

For this property, there were no visual indicators of illegal dumping into the sanitary sewer system. Based on these observations, we concluded that the septic system and the leach field can be excluded from the remediation process.

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

Based on the best information available, and due, in part, to the information from law enforcement personnel, we conclude manufacturing did not occur in the structure.



CONTAMINATION MIGRATION

Based on the best information readily available, FACTs concludes that there were no reasonable points of migration from the property. We were not otherwise able to find any conclusive indicators that would suggest migration of contamination off site.

SAMPLE COLLECTION

Wipe Samples

The collection of the cursory samples was described in the December 12, 2014 report which is appended to this discussion on the DVD. The regulatory sample collected during the Preliminary Assessment consisted of a single discrete sample which was collected pursuant to the sampling requirements of 6 CCR 1014-3.

The discrete sample was collected for regulatory compliance purposes and was collected exclusively from the exterior shed. The sample location was identified by the Industrial Hygienist based on authoritative judgmental bias sampling theory. In this theory, as required by regulation, samples are purposely collected from those areas which have the highest probability of containing the highest concentrations of methamphetamine.

Methamphetamine Analysis

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 is assigned a lot number for QA/QC purposes and recorded on a log of results. Each proposed sample area was delineated with a measured outline. The pliable ruler used to measure each surface area was decontaminated with a single-use disposable alcohol wipe between samples.

The 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.

The sample was returned to its centrifuge tube and capped with a screw-cap. The wipe sample was submitted under chain-of-custody for analysis to Reservoirs Environmental Laboratories in Denver, CO for analysis by GCMS.¹³

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.

¹³ The laboratory essentially uses the NIOSH Method 9106 “METHAMPHETAMINE and Illicit Drugs, Precursors and Adulterants on Wipes by Liquid-Liquid Extraction”



Field Blanks

For QA/QC purposes, and in accordance with State requirements, one field blank was collected for every ten wipe samples. The field blank was randomly selected from the sampling sequence. To ensure the integrity of the blanks, FACTs personnel were unaware, until the actual time of sampling, which specific sample assembly would be the field blank. Similarly, to ensure the integrity of the blank, laboratory personnel were unaware of the presence of a field 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 # A13Ø2 <MDL for n=55; Gauze lot # G14Ø1 <MDL for n=15).

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 *d*-methamphetamine¹⁴ 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. In this case, we used the pooled spike recovery from all previous projects which indicates a spike recovery of 96.8% recovery (n=31, $\sigma = 0.14 \mu\text{g}$).

Quality Assurance/Quality Control (Regulatory Sample Only)

The following section is required by regulation and is not intended to be understood by the casual reader. In the attached laboratory reports, the Reporting Limit and MBX are expressed in units of " $\mu\text{g}/100\text{cm}^2$." FACTs recognizes that this unit of expression cannot be correct as the LOQ and MBX cannot be expressed as $\mu\text{g}/100\text{cm}^2$ – this is a non fatal typographical error by the analyzing laboratory, and the actual units are stipulated here as absolute micrograms per sample. MDL was not specified by the laboratory; LOQ was 0.05 μg ; MBX <LOQ; LCS mass was not provided by the laboratory and was reported as 89% recovery which is within normal tolerances of 85% to 115%. Matrix spike mass was not reported, but the laboratory reported 92% recovery, which is within normal tolerances of 85% to 115%. The Matrix Spike dup was reported as having an RPD of 2%. No surrogate spikes were reported. The QA/QC indicate slight negative bias.

Cross Contamination

Prior to the collection of each specific sample, a fresh pair of surgical gloves was donned to protect against the possibility of cross contamination.

Prior to entry into the property, each member of FACTs donned disposable Tyvek suits.

¹⁴ S(+)-methamphetamine, S,S(+)-pseudoephedrine, 1S,2R(+)-ephedrine



Collection Rationale

Primary Objective

State of Colorado 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.

In this case, the cursory sampling and analysis definitively demonstrated widespread contamination, and no further sampling (except the exterior shed) was required.

Sample Results

Methamphetamine

The results of the methamphetamine samples from structural features are summarized in the table below.

Sample	Sample Location	Functional Space	Area (cm ²)	Results (µg/100cm ²)
HM120914-01A	Family Room ceiling fan	NA	62.5	45.1
HM120914-01B	Dining room door bell cover	NA		
HM120914-01C	Laundry top of molding	NA		
HM120914-01D	Bathroom top of light	NA		
HM120914-01E	Master bedroom, top of closet door	NA		
HM120914-02A	Master bathroom exhaust fan	NA	62.5	7.8
HM120914-02B	NE Bedroom top of closet frame	NA		
HM120914-02C	NW Bedroom top of closet frame	NA		
HM120914-02D	Basement top of pressure tank	NA		
HM120914-02E	Basement, top of galvanized pipe	NA		
HM121214-01	Field Blank	NA	NA	BRL
HM121214-02	Shed	9	500	BRL

Area is expressed in square centimeters, Result is expressed as µg/100cm²; “BRL” indicates the analyte was not detected in the sample.

Table 4
Results of Methamphetamine Wipe Samples (Structure)



Wipe Sample Results

The regulatory sampling confirms the property is noncompliant. The regulatory sampling confirms the shed is compliant.

Sample Locations

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. An alpha identifier in the triangle indicates a composite sample collected during the cursory evaluation; a shaded triangle indicates a sample collected on the revisit.

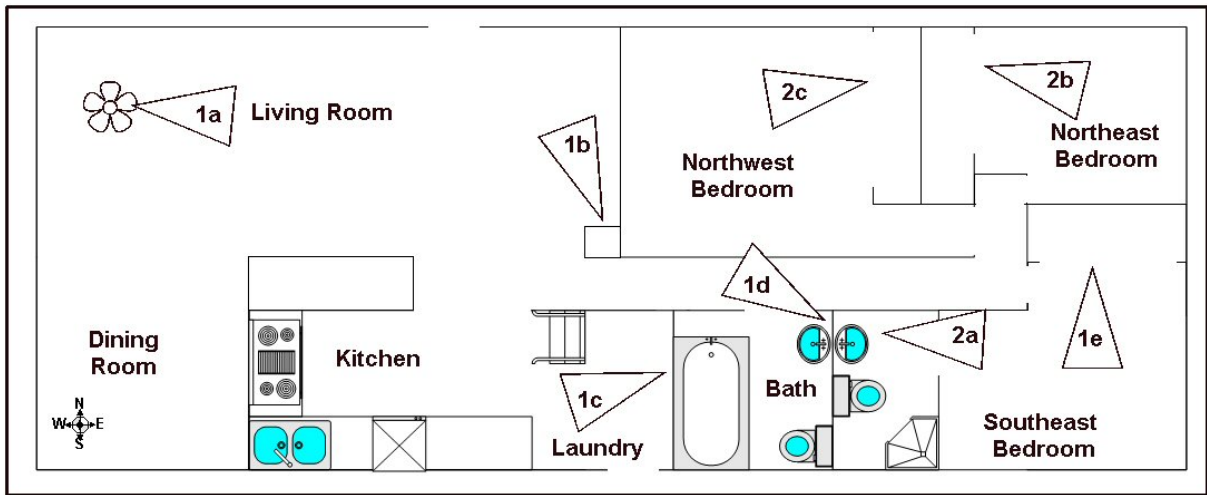


Figure 4
First Floor Samples

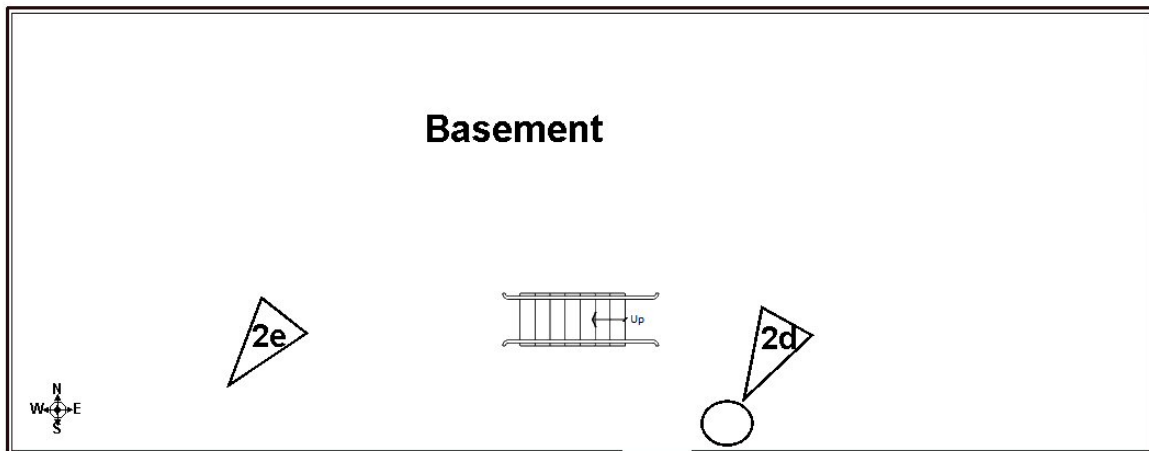


Figure 5
Basement Samples



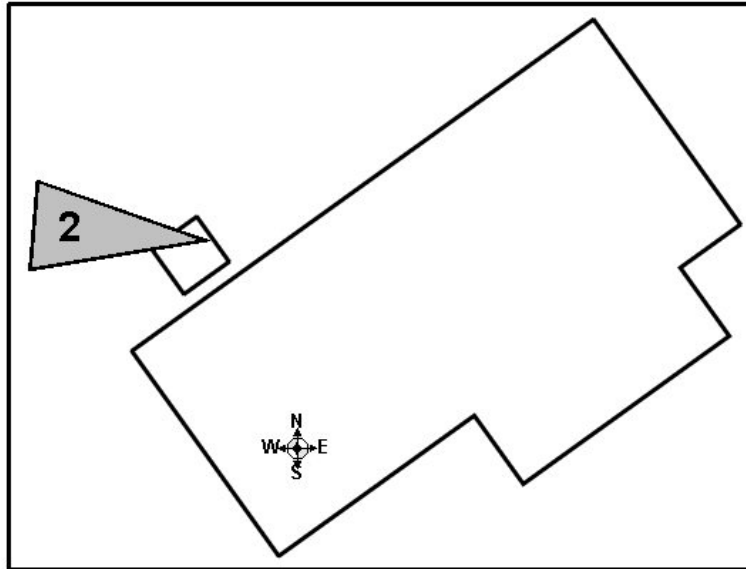


Figure 6
Shed Sample

CONCLUSIONS

Based on the totality of the circumstances, we find that there is insufficient evidence to support the preliminary hypothesis and we accept the null hypothesis and conclude that noncompliant concentrations of methamphetamine occur throughout the entire structure.

Based on our observations, the entire structure, excluding the attic, exterior portions of the sewer system and the exterior shed, must be decontaminated pursuant to 6 CCR 1014-3 Amended.

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.

Federal Standard 29 CFR 1910.120 states:

29 CFR §1910.120(a)(1) Scope. This section covers the following operations, unless the employer can demonstrate that the operation does not involve employee exposure or the reasonable possibility for employee exposure to safety or health hazards:

FACTs is of the opinion that for this project, 29 CFR §1910.120 does not apply pursuant to the exemption provisions provided in 29 CFR §1910.120 (a)(1), as determined by Forensic Applications, Inc. pursuant to §1910.120(c)(2). That is, the contaminants



reasonably believed to be present at the property are not of a nature that would trigger the provisions of 29 CFR §1910.120.

The contractor shall be responsible for evaluating the impact of ACMs, PACMS and lead based paints. FACTs presumes that existing ventilation ducting tape may contain asbestos.

For this property, FACTs is of the opinion that various lighting fixtures, cabinets and large appliances are economically salvageable. That is, FACTs is of the opinion that these items can remain *in situ* and cleaned.

1. An on-site storage container (such as a poly lined and covered roll on-roll off container (ro-ro) or temporary trailer) should be established on the north side (front) of the property.
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 illegal drug laboratory 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 Colorado Revised Statute §25-18.5-104; *Entry into illegal drug laboratories*.
4. By virtue of this PA, the contractor may presume that 29 CFR 1910.120(c)(5)(iii) has been met, and pursuant to 29 CFR 1910.120(c)(5)(iv), the hazards of the site have been identified, and the appropriate PPE would be a Modified Level C ensemble. We recommend the decontamination process be conducted in Level C PPE ensemble preferably with a full-face PAPR or a minimum of a full-face APR.
5. For this project, 29 CFR §1910.120 does not apply to the remediator pursuant to the exemption provisions provided in 29 CFR §1910.120 (a)(1), as determined by Forensic Applications, Inc. pursuant to §1910.120(c)(2). Therefore, no Hazwoper training is required for this project; however Hazwoper training may be required by the poorly written State Regulations 6 CCR 1014-3 *Amended*.
6. The contractor should be contractually obligated to perform personnel air monitoring for methamphetamine for at least one full shift employee per day to allow for support of proper PPE selection. If the air monitoring results in a concentration of greater than 120 µg methamphetamine per cubic meter of air, the contractor should upgrade respiratory protection to a minimum of a full face PAPR.



7. We recommend that a decontamination corridor with showers be established on the north side of the property at the front door– donning and doffing of PPE and entry into the structure should be through the front door.
8. All remediation work performed at the residence should be conducted under written contract with a reputable remediation company qualified to perform the work.
9. All work performed at the residence should be conducted with open communication and cooperation with the following entities:
 - a. Clear Creek County Sheriff Office
 - b. Clear Creek County Department of Health
10. The discovery of any controlled substances shall be reported to the Clear Creek County Sheriff's Office.
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 Hygienist and sample expenses, as a result of a failed final clearance(s).
13. State regulations prohibit painting or otherwise encapsulating surfaces prior to final clearance sampling by the Industrial Hygienist.
14. State regulations prohibit the use of strong oxidizers to mask the presence of methamphetamine; no cleaning agents greater than 5% hydrogen peroxide (or other oxidizer) are permitted on site.
15. Following the decontamination process, and prior to the final clearance sampling by the Industrial Hygienist, the remediation contractor/subcontractor should be contractually obligated to collect a minimum of three 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 should 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 clearance sampling.
16. If the contractor's three QA/QC samples suggest that contamination in the subject property remains at a concentration in excess of $0.35 \mu\text{g}/100 \text{ cm}^2$, the contractor should 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 clearance sampling according to 6-CCR 1014-3 *Amended*.

Decontamination of the Residence

The following decontamination process should take place in this order (any lead or asbestos abatement notwithstanding):

1. Establishment of a negative pressure enclosure inside the residence will hinder the decontamination process.
2. The contractor should consider placing an HEPA filtered air scrubber in the residence without the use of critical barriers. If critical barriers are used, they shall be completely removed before final verification sampling.
3. The contractor should establish a standard, two-chambered decon and/or bag-out/load-out at the front (north) door.
4. Once discarded items from the interior of the residence (if any) are bagged and/or wrapped, the items can be transported through the airlock and transloaded to the bag-out. At the bag-out, the exterior surfaces of the bags and wrapping should be wiped down, and the bags and items may be discarded.
5. Following the removal of interior contents, all surfaces in the remediation areas including all ceilings, all shelving, all floors, doors, hinges, bathtubs, sinks, and every other interior surface whether specifically mentioned or not, shall be thoroughly wiped down to remove residual contamination.

Enclosures: One CD; Data package, and Appendices

~*END*



APPENDIX A:

SUPPORTING DOCUMENTS





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

FACTs project name: Hofer	Form # ML1
Date: Dec. 12, 2014	
Reporting IH:	Caoimhín P. Connell, Forensic IH

PROPERTY DESCRIPTION:

Physical address	96 Hofer Lane		
Legal description or VIN	Legal Summary Subdivision: Hofer Heights Lot: 3 A 2014 AMDMT & IMP - 333/42 543/719 STMT OF AUTHOR 722/983		
Registered Property Owner	Greene Charlene L Revoc Trust 96 HOFER LANE Evergreen, CO 80439		
Number of structures	Two		
Type of Structures (Each affected structure will need a "Functional Space" inventory)	Main residence	3,300	Square feet
	Shed	80	Square feet
	Total	3,380	Square feet
Adjacent and/ or surrounding properties	South: Mountainous terrain		
	North: Dirt Road		
	East: Mountainous terrain		
	West: Mountainous terrain		
General Property Observations	Fair condition; devoid of all chattels and carpet		
Presumed Production Method	Smoking, possession, processing, storage		

PLUMBING INSPECTION AND INVENTORY

FACTs project name: Hofer	Form # ML2
Date: December 12, 2014	
Reporting IH:	Caoimhin P. Connell, Forensic IH

Functional Space	Room	Fixture	Indicia?	Comments
2	Bathroom # 1	Bath	N	Unremarkable
2	Bathroom # 1	Shower	N	Unremarkable
2	Bathroom # 1	Sink 1	N	Unremarkable
2	Bathroom # 1	Toilet	N	Unremarkable
4	Bathroom # 2	Shower	N	Unremarkable
4	Bathroom # 2	Sink	N	Unremarkable
4	Bathroom # 2	Toilet	N	Unremarkable
1	Kitchen	Dishwasher	N	Unremarkable
1	Kitchen	East Sink	N	Unremarkable
1	Kitchen	West Sink	N	Unremarkable
1	Laundry Room	Washing machine	N	Unremarkable
7	Basement	Floor drain	N	Unremarkable
THIS SPACE IS BLANK				

VENTILATION INSPECTION AND INVENTORY

Item	Y/N	Indicia ?	Sampled ?	Comments
Isolated AHU?	N	NA	NA	Steam heat
Common air intake?	N			
Common bathroom exhausts?	N			
Forced air system?	N			
Common ducts to other properties?	N	NA	NA	NA
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			
Steam heat?	Y			
Pressurized structure?	N			



FUNCTIONAL SPACE INVENTORY

FACTs project name: Hofer	Form # ML3
Date: December 12, 2014	
Reporting IH:	Caoimhín 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	Living room, Dining Room, Hallway, Kitchen, Laundry
1	2	Y	Common Bathroom
1	3	Y	South East Bedroom and Closet
1	4	Y	Master Bathroom, and Closet
1	5	Y	Northeast Bedroom and Closet
1	6	Y	North Central Bedroom and Closet
1	7	Y	Basement and Stairway
1	8	Y	Attic
1	9	Y	Exterior Shed
2	10	N	Exterior Decks

THIS SPACE IS BLANK



LAW ENFORCEMENT DOCUMENTATION

FACTs project name: Hofer Lane	Form # ML4
Date: December 12, 2014	
Reporting IH:	Caoimhín P. Connell, Forensic IH

Inventory of Reviewed Documents	Personal interview with Detective Sgt. Garmillian at Clear Creek Sheriff's Office. Detective Sgt. Garmillian informed me that he had all appropriate documentation and had reviewed the documents.
Described method(s) of production	None: There were no records that indicated production.
Chemicals identified by the LEA as being present	None
Cooking areas identified	None
Chemical storage areas identified	None
LE Observation on areas of contamination or waste disposal	None





FORENSIC APPLICATIONS CONSULTING TECHNOLOGIES, INC.

December 12, 2015

Clear Creek County Sheriff's Office
ATTN: Records
P.O. Box 2000
Georgetown, Colorado 80444
Via Fax: 303-679-2447

Dear Records:

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

96 Hofer Lane, Evergreen, CO 80439

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; and, if preferable, we can visit the records offices and review available information there.

We would like to review any narratives regarding controlled substances, or speak with any Law Enforcement personnel who may be familiar with the property. We are only interested in issues involving controlled substances in the last nine years. We are aware that a female was in the property using and/or processing methamphetamine, and we would appreciate any information regarding facts known to CCSO regarding drug activity at the property.

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 Law Enforcement agencies across the State and we value the close working relationship we have developed. I have included my SOQ. Please feel free to call me directly with any comments or questions.

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 Clear Creek County Sheriff's Office, such records shall not be used for the direct solicitation of business for pecuniary gain.

Sincerely,

Caoimhín P. Connell
Forensic Industrial Hygienist

CLEAR CREEK COUNTY SHERIFF'S OFFICE

405 Argentine Street ★ Post Office Box 2000
Georgetown, Colorado 80444
Main Office (303) 679-2376 – Fax (303) 679-2447
www.clearcreeksheriff.us

This form is to record a formal request with the Clear Creek County Sheriff's Office to inspect a criminal justice records(s) on file with the Clear Creek County Sheriff's Office. The completed form will be retained in the file of the inspected record.

FORMAL REQUEST TO INSPECT CRIMINAL JUSTICE RECORDS

CASE NUMBER: Any and all cases NUMBER OF PAGES: All

PERSON RECEIVING RECORD(S) Caoimhin P Connell, Forensic Industrial Hygienist
Please Print

PERSON / COMPANY REQUESTING RECORD(S) Forensic Applications Consulting Technologies, Inc.
Please Print

ADDRESS 185 Bounty Hunter Lane, Bailey, CO 80421

Contact PHONE (303) 903-7494 OTHER PHONE ()

REQUEST FOR PHOTOCOPY

I request that a photocopy be made of this record for my use and I understand that I will be required to pay twenty five cents (\$0.25) per page.

I understand that criminal justice records of the Clear Creek County Sheriff's Office are either in active use or in storage and that immediate inspection may not be possible. I, therefore, request that a date and time within three (3) working days (24-72-303(3)) be arranged, at which time the requested record(s) will be available for my inspection.

Reason for denial:

- Release would interfere with law enforcement activities (case is under investigation at this time)
- The individuals privacy outweighs the public's right to know
- Release would be contrary to public interest
- Release would cause unwarranted adverse consequences
- No releasable information

Your signature affirms these records will not be used for the direct solicitation of business or pecuniary gain.

Signature:  Date: Dec. 12, 2014

FOR SHERIFF'S OFFICE USE ONLY

Request Received By: _____ Date: _____

Amount Paid: _____ Cash Check No Charge _____ Explanation

FIELD OBSERVATIONS

FACTs project name: Hofer	Form # ML5
Date: December 12, 2014	
Reporting IH:	Caoimhín P. Connell, Forensic IH

Structure:

Indicator	Functional Space	Indicator	Functional Space
Acids	Not observed	Match components	Not observed
Aerosol cans	Not observed	Mercury	Not observed
Alcohols (MeOH, EtOH)	Not observed	Methamphetamine	Throughout
Ammonia	Not observed	Modified coolers/containers	Not observed
Ammunition	Not observed	Modified electrical	Not observed
Artistic expressions	Not observed	Modified plumbing	Not observed
Bags of salt	Not observed	Modified structure	Not observed
Bases	Not observed	Modified ventilation	Not observed
Basters/Pipettes	Not observed	Needles/Syringes	Not observed
Batteries	Not observed	OTC Containers	Not observed
Bi-phasic wastes	Not observed	OTC drugs	Not observed
Booby traps	Not observed	pH papers/indicators	Not observed
Bullet holes	Not observed	Phenyl-2-propanone	Not observed
Burn marks	1,3,5,6	Pornography, Sex toys	Not observed
Cat litter	Not observed	Prescription drugs	Not observed
Chemical storage	Not observed	Presence of cats	Not observed
Colored wastes	Not observed	Propane bottles	Not observed
Corrosion on surfaces	Throughout ①	Pseudoephedrine	Not observed
Death bag	Not observed	Red P	Not observed
Delaminating paint	Not observed	Red Staining	1
Drug paraphernalia	Not observed	Ghosting	1,3,5
Empty OTC Containers	Not observed	Salters	Not observed
Ephedrine	Not observed	Security devices	Not observed
Feces	Not observed	Signs of violence	3,6
Filters	Not observed	Smoke detectors disabled	Not observed
Forced entry marks	Not observed	Solvents - (organic)	Not observed
Funnels	Not observed	Squalor	Not observed
Gang markings	Not observed	Staining on floors	1,3
Gas cylinders	Not observed	Staining on walls or ceiling	1
Gerry cans	Not observed	Stash holes	Not observed
Glassware	Not observed	Taping on surfaces	Not observed
Graffiti	Not observed	Tubing	Not observed
Heating mantle/hot plate	Not observed	Urine containers	Not observed
Hidden items	Not observed	Wall anchors	Not observed
Hydrogen peroxide	Not observed	Wall coverings	Not observed
Iodine	Not observed	Wall damage	Not observed
Lead	Not observed	Weapons	Not observed
Lithium	Not observed	Window block material	Not observed
Marijuana	Not observed	Yellow staining	1,6

- 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



INDIVIDUAL SEWAGE DISPOSAL SYSTEM FIELD FORM

FACTs project name: Hofer	Form # ML7
Date: December 12, 2014	
Reporting IH:	Caoimhín 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	X		
Was the leach field line accessible		X	
Was the septic tank <u>or</u> leach field lines opened	X		
Are solvent odors present from the leach field (if "yes" see below)		X	
Are solvent odors present from the septic tank (if "yes" see below)		X	
Is "slick" present in the septic tank		X	
Are biphasic (aqueous-organic) layers present in the septic tank		X	
Was pH measured in the septic tank	X		
Were organic vapors measured in the septic tank (if "yes" see below)	X		
Is sampling of the ISDS warranted		X	
Were calawasi/drum thief samples collected from the septic tank	X		

*NC = Not checked

Qualitative Organic Vapor Monitoring

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

Location	PID*	MOS*	FID*
All internal sinks	Ambient	NA	
Septic tank	<2		
All surrounding soils (see body of report for explanation)			

*Units of measurement are in parts per million equivalents compared to isobutylene calibration vapor. Detection limit 0.1 ppm

Locator Notes (1/4):

UNCC EMLCFM 2014/12/13 #01703 A434700010-00A NORM NEW LREQ
 EMLCFM 01703 UNCCa 12/13/14 09:00 AM A434700010-00A NORM NEW STRT LREQ
 Ticket Nbr: A434700010-00A
 Original Call Date: 12/13/14 Time: 09:00 AM Op: ORS
 Locate By Date : 12/17/14 Time: 11:59 PM Meet: N Extended job: N
 State: CO County: CLEAR CREEK City:
 Addr: 96 Street: HOFER LANE
 Grids: 04S072W14S* : 04S072W23N* : Legal: Y
 Lat/Long: 39.694036/-105.419124 39.694036/-105.413016
 : 39.688402/-105.419124 39.688402/-105.413016
 Type of Work: SOIL TESTING Exp.: N Boring: N
 Location: LOCATE ENTIRE LOT ACCESS OPEN



FORENSIC APPLICATIONS CONSULTING TECHNOLOGIES, INC.

Locator Notes 2/4 (continued):

Company : FACTS, INC. Type: NONR
Caller : CAOIMHIN CONNELL Phone: (303)903-7494
Alt Cont: CPCONNELL@FORENSIC-A Phone: (303)903-7852
Fax: Email: admin@forensic-applications.com
Done for: REGISTERED OWNER
Remarks: Members PCEV02 = XCEL ENERGY PCHIPCO= COPY TERM - - COPY TERM
Members PSNGEV = XCEL ENERGY HI PRESSURE GAS QLNCNC0= QWEST LOCAL NETWORK
You are responsible for contacting any other utilities that are not listed above
including the following tier 2 members not notified by the center:
(none)
Sketch Notification for ticket A434700010-00A

From: IRTNet At: 12/13/14 05:30 PM Seq No: 39
Facility: Xcel Colorado Distribution
PCEV02 00001 UNCCa 12/13/14 09:00 AM A434700010-00A NORM NEW STRT LREQ
Ticket Nbr: A434700010-00A
Original Call Date: 12/13/14 Time: 09:00 AM Op: ORS
Locate By Date : 12/17/14 Time: 11:59 PM Meet: N Extended job: N
State: CO County: CLEAR CREEK City:
Addr: 96 Street: HOFER LANE
Grids: 04S072W14S* : 04S072W23N* : Legal: Y
Lat/Long: 39.694036/-105.419124 39.694036/-105.413016
: 39.688402/-105.419124 39.688402/-105.413016
Type of Work: SOIL TESTING Exp.: N Boring: N
Location: LOCATE ENTIRE LOT ACCESS OPEN
Company : FACTS, INC. Type: NONR
Caller : CAOIMHIN CONNELL Phone: (303)903-7494
Alt Cont: CPCONNELL@FORENSIC-A Phone: (303)903-7852
Fax: Email: admin@forensic-applications.com
Done for: REGISTERED OWNER
Remarks:
Members :PCEV02 :PCHIPCO :PSNGEV :QLNCNC00

Email_From: XcelLocates@xcelenergy.com
Email_Subject: Seq# 39: A434700010 for PCEV02 - Xcel Colorado Distribution
Email_Sent_Date: 2014-12-13 18:30:10 CST
Email_MessageID: <05c1c72b-1131-4274-874b-a9dc6f88209f@exhcplc01.corp.xcelenergy.com>
Email_host: tickets7.811tickets.com
Email_user: 811.co.xl
Email_To: 811.co.xl@tickets.811tickets.com
Email_Content Type: text/plain; charset="US-ASCII"
XX
Sketch Notification for ticket A434700010-00A

From: IRTNet At: 12/13/14 05:30 PM Seq No: 39
Facility: Xcel Colorado Distribution
PCEV02 00001 UNCCa 12/13/14 09:00 AM A434700010-00A NORM NEW STRT LREQ
Ticket Nbr: A434700010-00A
Original Call Date: 12/13/14 Time: 09:00 AM Op: ORS
Locate By Date : 12/17/14 Time: 11:59 PM Meet: N Extended job: N
State: CO County: CLEAR CREEK City:
Addr: 96 Street: HOFER LANE
Grids: 04S072W14S* : 04S072W23N* : Legal: Y



Locator Notes 3/4 (continued):

Lat/Long: 39.694036/-105.419124 39.694036/-105.413016
: 39.688402/-105.419124 39.688402/-105.413016

Type of Work: SOIL TESTING Exp.: N Boring: N

Location: LOCATE ENTIRE LOT ACCESS OPEN

Company : FACTS, INC. Type: NONR

Caller : CAOIMHIN CONNELL Phone: (303)903-7494

Alt Cont: CPCONNELL@FORENSIC-A Phone: (303)903-7852

Fax: Email: admin@forensic-applications.com

Done for: REGISTERED OWNER

Remarks:

Members :PCEV02 :PCHIPCO :PSNGEV :QLNCNC00

Email_From: XcelLocates@xcelenergy.com
Email_Subject: Seq# 39: A434700010 for PCEV02 - Xcel Colorado Distribution
Email_Sent_Date: 2014-12-13 18:30:10 CST
Email_MessageID: <05c1c72b-1131-4274-874b-a9dc6f88209f@exhcplc01.corp.xcelenergy.com>
Email_host: tickets7.811tickets.com
Email_user: 811.co.xl
Email_To: 811.co.xl@tickets.811tickets.com
Email_Content Type: text/plain; charset="US-ASCII"
XX
Message from CenturyLink
IRTH.Net@CenturyLink.com
Today at 9:22 AM

=====
To: FACTS, INC. Attn: CAOIMHIN CONNELL
Voice: 3039037494 Fax:
Re: Message from CenturyLink

Message from CenturyLink
The described dig area of your locate request has been checked and is clear for the CenturyLink CTLQL Network. If you have any questions please call CenturyLink at 1-800-283-4237

=====
Ticket: A434700010
County: CLEAR CREEK Place:
Address: 96 HOFER LN
QLNCNC00:

The described dig area of your locate request has been checked and is clear for CenturyLink Local Network. If you have any questions please call CenturyLink at 1-800-283-4237.

=====
Message from CenturyLink

=====
This message was generated by an automated system. Please do not reply to this email.
XX

UNCC EMLCFM 2014/12/18 #00060 A434700010-00A NORM RESP LREQ

OCARS_Pro@uncc.org

December 18, 2014 at 12:21 AM

EMLCFM 00060 UNCCa 12/18/14 12:22 AM A434700010-00A NORM RESP STRT LREQ

This is an automatically generated response. Please do not reply to this message.

Ticket : A434700010 Rev. 00A Taken: 12/13/14 08:59 AM

State: CO Cnty: CLEAR CREEK Place:

Address : 96 HOFER LANE

Utility Description Response

PCEV02 XCEL ENERGY 12/16/14 09:24 AM 017

COMPLETED - SEE MARKS ON SITE



Locator Notes 4/4 (continued):

PSNGEV XCEL ENERGY HI PRESSURE G 12/15/14 07:17 AM 002
CLEAR - NO CONFLICT
QLNCNC00 QWEST LOCAL NETWORK 12/16/14 09:20 AM 002
CLEAR - NO CONFLICT



PRE-REMEDATION PHOTOGRAPH LOG SHEET

FACTs project name: Hofer Lane	Form # ML8
Date: December 12, 2014	
Reporting IH:	Caoimhín P. Connell, Forensic IH

Name	Date taken	Name	Date taken	Name	Date taken
Attic (2)	12/17/2014 2:42 PM	BRH Test (4)	12/17/2014 2:57 PM	Bsmt (22)	12/17/2014 1:39 PM
Attic (3)	12/17/2014 2:42 PM	BRH Test (5)	12/17/2014 2:58 PM	Bsmt (23)	12/17/2014 1:39 PM
Attic (4)	12/17/2014 2:43 PM	BRH Test (6)	12/17/2014 2:59 PM	Bsmt (24)	12/17/2014 1:39 PM
Attic (5)	12/17/2014 2:43 PM	BRH Test (7)	12/17/2014 2:59 PM	Bsmt (25)	12/17/2014 1:39 PM
Attic (6)	12/17/2014 2:43 PM	BRH Test	12/17/2014 2:56 PM	Bsmt (26)	12/17/2014 1:39 PM
Attic (7)	12/17/2014 2:44 PM	Bsmt (2)	12/17/2014 1:36 PM	Bsmt (27)	12/17/2014 1:40 PM
Attic (8)	12/17/2014 2:44 PM	Bsmt (3)	12/17/2014 1:36 PM	Bsmt (28)	12/17/2014 1:40 PM
Attic (9)	12/17/2014 2:41 PM	Bsmt (4)	12/17/2014 1:37 PM	Bsmt (29)	12/17/2014 1:40 PM
Attic	12/17/2014 2:42 PM	Bsmt (5)	12/17/2014 1:37 PM	Bsmt (30)	12/17/2014 1:40 PM
AtticEntrance	12/17/2014 2:40 PM	Bsmt (6)	12/17/2014 1:37 PM	Bsmt (31)	12/17/2014 1:40 PM
BackHall (2)	12/17/2014 1:20 PM	Bsmt (7)	12/17/2014 1:37 PM	Bsmt (32)	12/17/2014 1:40 PM
BackHall (3)	12/17/2014 1:20 PM	Bsmt (8)	12/17/2014 1:37 PM	Bsmt (33)	12/17/2014 1:41 PM
BackHall (4)	12/17/2014 1:24 PM	Bsmt (9)	12/17/2014 1:37 PM	Bsmt (34)	12/17/2014 1:41 PM
BackHall (5)	12/17/2014 1:24 PM	Bsmt (10)	12/17/2014 1:37 PM	Bsmt (35)	12/17/2014 1:41 PM
BackHall (6)	12/17/2014 1:24 PM	Bsmt (11)	12/17/2014 1:37 PM	Bsmt (36)	12/17/2014 1:41 PM
BackHall (7)	12/17/2014 1:24 PM	Bsmt (12)	12/17/2014 1:37 PM	Bsmt (37)	12/17/2014 1:41 PM
BackHall (8)	12/17/2014 1:26 PM	Bsmt (13)	12/17/2014 1:38 PM	Bsmt (38)	12/17/2014 1:51 PM
BackHall	12/17/2014 1:20 PM	Bsmt (14)	12/17/2014 1:38 PM	Bsmt (39)	12/17/2014 1:51 PM
BackHallCloset(2)	12/17/2014 1:26 PM	Bsmt (15)	12/17/2014 1:38 PM	Bsmt (40)	12/17/2014 1:51 PM
BackHallCloset(3)	12/17/2014 1:26 PM	Bsmt (16)	12/17/2014 1:38 PM	Bsmt (41)	12/17/2014 1:51 PM
BackHallCloset	12/17/2014 1:26 PM	Bsmt (17)	12/17/2014 1:38 PM	Bsmt (42)	12/17/2014 1:52 PM
Bath (3)	12/9/2014 11:53 AM	Bsmt (18)	12/17/2014 1:38 PM	Bsmt (43)	12/17/2014 1:52 PM
Bath	12/9/2014 11:53 AM	Bsmt (19)	12/17/2014 1:38 PM	Bsmt (44)	12/17/2014 1:52 PM
BRH Test (2)	12/17/2014 2:56 PM	Bsmt (20)	12/17/2014 1:38 PM	Bsmt (45)	12/17/2014 1:52 PM
BRH Test (3)	12/17/2014 2:56 PM	Bsmt (21)	12/17/2014 1:39 PM	Bsmt (46)	12/17/2014 1:52 PM



PRE-REMEDATION PHOTOGRAPH LOG SHEET

FACTs project name: Hofer Lane	Form # ML8
Date: December 12, 2014	
Reporting IH:	Caoimhín P. Connell, Forensic IH

Name	Date taken	Name	Date taken	Name	Date taken
Bsmt (47)	12/17/2014 1:52 PM	Bsmt (73)	12/17/2014 1:55 PM	Exterior (7)	12/17/2014 1:02 PM
Bsmt (48)	12/17/2014 1:52 PM	Bsmt (74)	12/17/2014 1:57 PM	Exterior (8)	12/17/2014 1:02 PM
Bsmt (49)	12/17/2014 1:52 PM	Bsmt (75)	12/17/2014 1:58 PM	Exterior (9)	12/17/2014 1:02 PM
Bsmt (50)	12/17/2014 1:52 PM	Bsmt	12/9/2014 12:03 PM	Exterior (10)	12/17/2014 1:02 PM
Bsmt (51)	12/17/2014 1:53 PM	CentralBdrm (2)	12/17/2014 1:26 PM	Exterior (11)	12/17/2014 1:03 PM
Bsmt (52)	12/17/2014 1:53 PM	CentralBdrm (3)	12/17/2014 1:26 PM	Exterior (12)	12/17/2014 1:03 PM
Bsmt (53)	12/17/2014 1:53 PM	CentralBdrm (4)	12/17/2014 1:27 PM	Exterior (13)	12/17/2014 1:03 PM
Bsmt (54)	12/17/2014 1:53 PM	CentralBdrm (5)	12/17/2014 1:27 PM	Exterior (14)	12/17/2014 1:03 PM
Bsmt (55)	12/17/2014 1:53 PM	CentralBdrm (6)	12/17/2014 1:27 PM	Exterior (15)	12/17/2014 1:04 PM
Bsmt (56)	12/17/2014 1:53 PM	CentralBdrm (7)	12/17/2014 1:27 PM	Exterior (16)	12/17/2014 1:23 PM
Bsmt (57)	12/17/2014 1:53 PM	CentralBdrm (8)	12/17/2014 1:27 PM	Exterior (17)	12/17/2014 1:24 PM
Bsmt (58)	12/17/2014 1:54 PM	CentralBdrm (9)	12/17/2014 1:27 PM	Exterior (18)	12/17/2014 1:24 PM
Bsmt (59)	12/17/2014 1:54 PM	CentralBdrm (10)	12/17/2014 1:27 PM	Exterior (19)	12/17/2014 1:32 PM
Bsmt (60)	12/17/2014 1:54 PM	CentralBdrm (11)	12/17/2014 1:27 PM	Exterior (20)	12/17/2014 1:34 PM
Bsmt (61)	12/17/2014 1:54 PM	CentralBdrm (12)	12/17/2014 1:27 PM	Exterior (21)	12/17/2014 1:34 PM
Bsmt (62)	12/17/2014 1:54 PM	CentralBdrm (13)	12/17/2014 2:28 PM	Exterior (22)	12/17/2014 1:34 PM
Bsmt (63)	12/17/2014 1:54 PM	CentralBdrm	12/9/2014 11:53 AM	Exterior (23)	12/17/2014 1:34 PM
Bsmt (64)	12/17/2014 1:54 PM	DiningRm (2)	12/17/2014 1:11 PM	Exterior (24)	12/17/2014 1:34 PM
Bsmt (65)	12/17/2014 1:54 PM	DiningRm (3)	12/17/2014 1:11 PM	Exterior (25)	12/17/2014 1:35 PM
Bsmt (66)	12/17/2014 1:54 PM	DiningRm	12/17/2014 1:10 PM	Exterior (26)	12/17/2014 1:35 PM
Bsmt (67)	12/17/2014 1:55 PM	Exterior (2)	12/9/2014 11:52 AM	Exterior (27)	12/17/2014 1:35 PM
Bsmt (68)	12/17/2014 1:55 PM	Exterior (3)	12/17/2014 1:01 PM	Exterior (28)	12/17/2014 1:35 PM
Bsmt (69)	12/17/2014 1:55 PM	Exterior (4)	12/17/2014 1:01 PM	Exterior (29)	12/17/2014 1:36 PM
Bsmt (70)	12/17/2014 1:55 PM	Exterior (5)	12/17/2014 1:01 PM	Exterior (30)	12/17/2014 1:36 PM
Bsmt (71)	12/17/2014 1:55 PM	Exterior (6)	12/17/2014 1:01 PM	Exterior (31)	12/17/2014 1:36 PM



PRE-REMEDATION PHOTOGRAPH LOG SHEET

FACTs project name: Hofer Lane	Form # ML8
Date: December 12, 2014	
Reporting IH:	Caoimhín P. Connell, Forensic IH

Name	Date taken	Name	Date taken	Name	Date taken
Exterior (32)	12/17/2014 1:36 PM	Exterior (57)	12/17/2014 3:06 PM	HallBath (5)	12/17/2014 1:18 PM
Exterior (33)	12/17/2014 1:36 PM	Exterior (58)	12/17/2014 3:06 PM	HallBath (6)	12/17/2014 1:18 PM
Exterior (34)	12/17/2014 1:36 PM	Exterior (59)	12/17/2014 3:07 PM	HallBath (7)	12/17/2014 1:19 PM
Exterior (35)	12/17/2014 1:36 PM	Exterior (60)	12/17/2014 3:07 PM	HallBath (8)	12/17/2014 1:19 PM
Exterior (36)	12/17/2014 1:43 PM	Exterior (61)	12/17/2014 3:09 PM	HallBath (9)	12/17/2014 1:19 PM
Exterior (37)	12/17/2014 1:44 PM	Exterior (62)	12/17/2014 3:09 PM	HallBath (10)	12/17/2014 1:19 PM
Exterior (38)	12/17/2014 1:44 PM	Exterior (63)	12/17/2014 3:10 PM	HallBath (11)	12/17/2014 1:19 PM
Exterior (39)	12/17/2014 1:50 PM	Exterior (64)	12/17/2014 3:11 PM	HallBath (12)	12/17/2014 1:19 PM
Exterior (40)	12/17/2014 1:50 PM	Exterior (65)	12/17/2014 1:24 PM	HallBath (13)	12/17/2014 1:19 PM
Exterior (41)	12/17/2014 1:50 PM	Exterior (66)	12/17/2014 1:24 PM	HallBath (14)	12/17/2014 1:20 PM
Exterior (42)	12/17/2014 1:50 PM	Exterior (67)	12/17/2014 1:11 PM	HallBath (15)	12/17/2014 1:20 PM
Exterior (43)	12/17/2014 1:56 PM	Exterior (68)	12/17/2014 1:34 PM	HallBath (16)	
Exterior (44)	12/17/2014 1:57 PM	Exterior (69)	12/17/2014 1:35 PM	HallBath	12/17/2014 1:18 PM
Exterior (45)	12/17/2014 2:00 PM	Exterior	12/9/2014 11:52 AM	HallCloset (2)	12/17/2014 1:18 PM
Exterior (46)	12/17/2014 2:00 PM	ExteriorDoor	12/17/2014 1:07 PM	HallCloset	12/17/2014 1:17 PM
Exterior (47)	12/17/2014 2:05 PM	Gloves	12/9/2014 12:04 PM	Heater	12/9/2014 12:03 PM
Exterior (48)	12/17/2014 2:06 PM	H2O Conditioner	12/9/2014 12:03 PM	Kitchen (2)	12/17/2014 1:10 PM
Exterior (49)	12/17/2014 2:06 PM	Hall (2)	12/17/2014 1:17 PM	Kitchen (3)	12/17/2014 1:10 PM
Exterior (50)	12/17/2014 2:09 PM	Hall (3)	12/17/2014 1:18 PM	Kitchen (4)	12/17/2014 1:12 PM
Exterior (51)	12/17/2014 2:09 PM	Hall (4)	12/17/2014 1:28 PM	Kitchen (5)	12/17/2014 1:12 PM
Exterior (52)	12/17/2014 2:09 PM	Hall (5)	12/17/2014 2:18 PM	Kitchen (6)	12/17/2014 1:13 PM
Exterior (53)	12/17/2014 3:04 PM	Hall	12/17/2014 1:12 PM	Kitchen (7)	12/17/2014 1:17 PM
Exterior (54)	12/17/2014 3:04 PM	HallBath (2)	12/17/2014 1:18 PM	Kitchen (8)	12/17/2014 1:17 PM
Exterior (55)	12/17/2014 3:05 PM	HallBath (3)	12/17/2014 1:18 PM	Kitchen (9)	12/17/2014 1:17 PM
Exterior (56)	12/17/2014 3:06 PM	HallBath (4)	12/17/2014 1:18 PM	Kitchen (10)	12/17/2014 1:17 PM



PRE-REMEDATION PHOTOGRAPH LOG SHEET

FACTs project name: Hofer Lane	Form # ML8
Date: December 12, 2014	
Reporting IH:	Caoimhín P. Connell, Forensic IH

Name	Date taken	Name	Date taken	Name	Date taken
Kitchen (11)	12/17/2014 1:17 PM	LivingRm (17)	12/17/2014 1:12 PM	MasterBdrm (4)	12/17/2014 1:20 PM
Kitchen (12)	12/17/2014 1:17 PM	LivingRm (18)	12/17/2014 1:12 PM	MasterBdrm (5)	12/17/2014 1:21 PM
Kitchen (13)	12/17/2014 1:28 PM	LivingRm (19)	12/17/2014 1:12 PM	MasterBdrm (6)	12/17/2014 1:21 PM
Kitchen (14)	12/17/2014 2:10 PM	LivingRm (20)	12/17/2014 1:59 PM	MasterBdrm (7)	12/17/2014 1:21 PM
Kitchen (15)	12/17/2014 2:11 PM	LivingRm (21)	12/17/2014 1:59 PM	MasterBdrm (8)	12/17/2014 1:21 PM
Kitchen (16)	12/17/2014 2:11 PM	LivingRm (22)	12/17/2014 1:59 PM	MasterBdrm (9)	12/17/2014 1:21 PM
Kitchen (17)	12/17/2014 2:11 PM	LivingRm (23)	12/17/2014 2:10 PM	MasterBdrm (10)	12/17/2014 1:21 PM
Kitchen (18)	12/17/2014 2:11 PM	LivingRm (24)	12/17/2014 2:12 PM	MasterBdrm (11)	12/17/2014 1:21 PM
Kitchen (19)	12/17/2014 2:12 PM	LivingRm (25)	12/17/2014 2:12 PM	MasterBdrm (12)	12/17/2014 1:21 PM
Kitchen	12/9/2014 11:53 AM	LivingRm (26)	12/17/2014 2:12 PM	MasterBdrm (13)	12/17/2014 1:21 PM
LivingRm (2)	12/9/2014 11:52 AM	LivingRm	12/9/2014 11:52 AM	MasterBdrm (14)	12/17/2014 1:22 PM
LivingRm (3)	12/9/2014 12:03 PM	MasterBath (2)	12/17/2014 1:22 PM	MasterBdrm (15)	12/17/2014 1:22 PM
LivingRm (4)	12/9/2014 12:04 PM	MasterBath (3)	12/17/2014 1:22 PM	MasterBdrm (16)	12/17/2014 1:22 PM
LivingRm (5)	12/17/2014 1:09 PM	MasterBath (4)	12/17/2014 1:22 PM	MasterBdrm (17)	12/17/2014 1:23 PM
LivingRm (6)	12/17/2014 1:09 PM	MasterBath (5)	12/17/2014 1:22 PM	MasterBdrm (18)	12/17/2014 1:23 PM
LivingRm (7)	12/17/2014 1:10 PM	MasterBath (6)	12/17/2014 1:22 PM	MasterBdrm (19)	12/17/2014 1:23 PM
LivingRm (8)	12/17/2014 1:10 PM	MasterBath (7)	12/17/2014 1:22 PM	MasterBdrm (20)	12/17/2014 2:20 PM
LivingRm (9)	12/17/2014 1:10 PM	MasterBath (8)	12/17/2014 1:22 PM	MasterBdrm (21)	12/17/2014 2:21 PM
LivingRm (...)	12/17/2014 1:11 PM	MasterBath (9)	12/17/2014 1:23 PM	MasterBdrm (22)	12/17/2014 2:25 PM
LivingRm (...)	12/17/2014 1:11 PM	MasterBath (10)	12/17/2014 1:23 PM	MasterBdrm (23)	12/17/2014 2:40 PM
LivingRm (...)	12/17/2014 1:11 PM	MasterBath (11)	12/17/2014 1:23 PM	MasterBdrm	12/9/2014 11:53 AM
LivingRm (...)	12/17/2014 1:11 PM	MasterBath (12)	12/17/2014 1:23 PM	MsterBdrmDoor	12/17/2014 1:23 PM
LivingRm (...)	12/17/2014 1:11 PM	MasterBath	12/17/2014 1:22 PM	Plumbing (2)	12/17/2014 2:55 PM
LivingRm (...)	12/17/2014 1:11 PM	MasterBdrm (2)	12/17/2014 1:20 PM	plumbing (3)	12/17/2014 2:55 PM
LivingRm (...)	12/17/2014 1:11 PM	MasterBdrm (3)	12/17/2014 1:20 PM	Plumbing (4)	12/17/2014 2:55 PM
LivingRm (...)	12/17/2014 1:11 PM	MasterBdrm (4)	12/17/2014 1:20 PM		



PRE-REMEDATION PHOTOGRAPH LOG SHEET

FACTs project name: Hofer Lane	Form # ML8
Date: December 12, 2014	
Reporting IH:	Caoimhín P. Connell, Forensic IH

Name	Date taken
Plumbing (5)	12/17/2014 2:56 PM
Plumbing (6)	12/17/2014 2:56 PM
Plumbing (7)	12/17/2014 2:57 PM
Plumbing (8)	12/17/2014 2:57 PM
Plumbing (9)	12/17/2014 2:57 PM
Plumbing (10)	12/17/2014 2:58 PM
Plumbing (11)	12/17/2014 2:58 PM
Plumbing (12)	12/17/2014 2:58 PM
Plumbing (13)	12/17/2014 2:58 PM
Plumbing (14)	12/17/2014 2:59 PM
Plumbing	12/17/2014 2:55 PM
Sample 2 (2)	12/17/2014 2:51 PM
Sample 2 (3)	12/17/2014 2:51 PM
Sample 2	12/17/2014 2:49 PM
SE Bdrm (2)	12/17/2014 1:24 PM
SE Bdrm (3)	12/17/2014 1:25 PM
SE Bdrm (4)	12/17/2014 1:25 PM
SE Bdrm (5)	12/17/2014 1:25 PM
SE Bdrm (6)	12/17/2014 1:25 PM
SE Bdrm (7)	12/17/2014 1:25 PM
SE Bdrm (8)	12/17/2014 1:25 PM
SE Bdrm (9)	12/17/2014 1:25 PM
SE Bdrm (10)	12/17/2014 1:25 PM
SE Bdrm (11)	12/17/2014 1:25 PM
SE Bdrm (12)	12/17/2014 2:39 PM



Name	Date taken
SE Bdrm (13)	12/17/2014 2:39 PM
SE Bdrm (14)	12/17/2014 2:39 PM
SE Bdrm	12/17/2014 1:24 PM
Shed (2)	12/17/2014 1:04 PM
Shed (3)	12/17/2014 1:04 PM
Shed (4)	12/17/2014 1:05 PM
Shed (5)	12/17/2014 2:49 PM
Shed	12/17/2014 1:04 PM
SouthBdrm	12/9/2014 11:53 AM
Stairs (2)	12/17/2014 1:28 PM
Stairs (3)	12/17/2014 1:28 PM
Stairs	12/17/2014 1:17 PM
Stairway	12/17/2014 1:29 PM



CERTIFICATION, VARIATIONS AND SIGNATURE SHEET

FACTs project name: Hofer Lane	Form # ML14
Date: December 12, 2014	
Reporting IH:	Caoimhin 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 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: Dec. 20, 2014





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:	Hofer Lane	Form # ML15
December 12, 2014		

Caoimhín P. Connell, has been involved in clandestine drug lab investigations since 2002 and meets the Colorado Revised Statute §24-30-1402 definition of an "Industrial Hygienist." He has been a practicing Industrial Hygienist since 1987 and was the contract Industrial Hygienist for the National Center for Atmospheric Research for over ten years. 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, CRCPI (through the Colorado Division of Criminal Justice) and was the lead instructor for the CRCPI providing over 260 hours of methlab training for over 45 Colorado Law Enforcement Agencies, federal agents, probation and parole officers throughout Colorado judicial districts. He has provided methlab lectures to the US Air Force, the National Safety Council, and the American Industrial Hygiene Association (of which he is a member and serves on the Clandestine Drug Lab Work Group and for whom he conducted the May, 2010, Clandestine Drug Lab Course, and is a coauthor of the AIHA methlab assessment publication.)

Mr. Connell is also a member of the American Conference of Governmental Industrial Hygienists, the Occupational Hygiene Society of Ireland, the Colorado Drug Investigators Association, an appointed Full Committee Member of the National Fire Protection Association, and the ASTM International Forensic Sciences Committee, (where he was the sole sponsor of the draft ASTM E50 *Standard for the Assessment of Suspected Clandestine Drug Laboratories*).

From 2009, Mr. Connell served as the Industrial Hygiene Subject Matter Expert on the Federally funded Interagency Board (Health, Medical, and Responder Safety SubGroup), and was elected full member of the IAB-HMRS in 2011 where he now serves. He is the only private consulting Industrial Hygienist in Colorado 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 has received over 194 hours of highly specialized law-enforcement sensitive training in illegal drug lab operation, and under supervision of the US Drug Enforcement Agency, he has manufactured methamphetamine using a variety of street methods. He has received highly specialized drug lab assessment training through the Iowa National Guard, Midwest Counterdrug Training Center and the Florida National Guard Multijurisdictional Counterdrug Task Force, St. Petersburg College, Rocky Mountain HIDTA, 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 sworn law enforcement officer 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 512 assessments of illegal drug labs in CO, SD, NE, OK, and collected over 4,749 samples during assessments (a partial 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 and a US NIOSH Recommended Peer Review Expert for the NIOSH 9109 Method, *Methamphetamine*. He has been admitted as a clandestine drug lab expert in Colorado, and an Industrial Hygiene Expert in Colorado in both civil and criminal courts as well as Federal Court in Pennsylvania. He has provided expert 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.

185 Bounty Hunter's Lane, Bailey, Colorado 80421
Phone: 303-903-7494 www.forensic-applications.com



Multijurisdictional Counterdrug Task Force Training

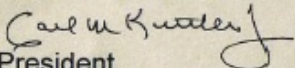


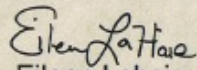
This is to certify that
Caoimhin P. Connell

Has satisfactorily completed the following 24 hour MCTFT training course held at
DIVIDE, CO

Rural Patrol

Training held 9/27/2004 through 9/29/2004


President
St. Petersburg College


Eileen Lahaie
MCTFT Director

A partnership between The Florida National Guard and St. Petersburg College

Midwest Counterdrug Training Center



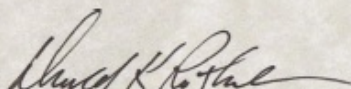
Certificate of Training

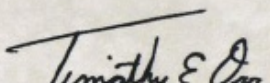
This certifies that

Caoimhin Connell

Has successfully completed the
Clandestine Laboratory Certification

Cheyenne, WY
40 Training Hours
2-6 August 2004


Network Environmental Systems, Inc.


LTC Timothy E. Orr
Commandant



Center *for* Task Force Training™

THIS IS TO CERTIFY THAT

Caoimhin P. Connell

HAS SUCCESSFULLY COMPLETED 20 HOURS OF TRAINING IN

METHAMPHETAMINE INVESTIGATION MANAGEMENT

MARCH 20-22, 2006

DENVER, COLORADO

Domingo S. Herraiz
Director, Bureau of Justice Assistance

Training coordinated by the
Institute for Intergovernmental
Research® on behalf of BJA



State and Local Anti-Terrorism Training

THIS IS TO CERTIFY THAT

Caoimhin P. Connell

HAS SUCCESSFULLY COMPLETED AN 8-HOUR
STATE AND LOCAL ANTI-TERRORISM TRAINING PROGRAM
NARCOTICS TASK FORCE ANTI-TERRORISM BRIEFING

June 1, 2006

Denver, Colorado

Domingo S. Herraiz
Director, Bureau of Justice Assistance



Training coordinated on behalf of BJA
by the Institute for Intergovernmental Research

*Rocky Mountain
High Intensity Drug Trafficking
Area*



Certifies that



Caoimhín Connell

has attended

4 hours of

Hash Oil Extraction: The Scene and The Patient

Aurora, CO

July 25, 2014

Training Manager, Rocky Mountain HIDTA

Director, Rocky Mountain HIDTA



Certificate of Completion

Caoimhin Connell

has successfully completed training in

Advanced Clan Labs: Beyond the Basics

presented by

NES, Inc.

1141 Sibley Street Folsom, CA 95630

Instructor - Brian Escamilla

04/28/14 04/30/14

Date

Contact Hours:24



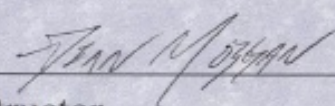
Park County Sheriff's Office Certificate of Completion

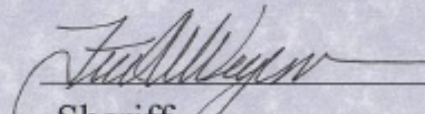
Caoimhin Connell

has completed an 8 hour course in:

Crime-scene Approach and Evidence Collection

Completed this 29th day of April, 2009


Instructor


Sheriff

Rocky Mountain High Intensity Drug Trafficking Area



Certifies that



Caoimhín P. Connell

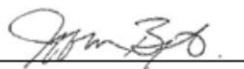
has attended

2 hours of

Hash Oil Explosions

Woodland Park, CO

May 31, 2014



Training Manager, Rocky Mountain HIDTA



Director, Rocky Mountain HIDTA

Certificate of Completion

This Will Certify That

Caoimhín P. Connell

Successfully Completed

Prescription Drug Crimes

7 Hours Completed

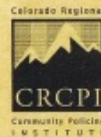
At: CO Law Enforcement Officers Assn. On: September 30, 2010
Greeley, Colorado



Director, Law Enforcement Liaison & Education

P. Ritch Wagner
Instructor

C7954



Certificate of Training

This is to certify that
Caoimhín Connell

(Name)

Park County Sheriff's Office

(Agency)

If the bearer of this document possesses a 40 Hour certificate pursuant to 29 CFR §1910.120, this certifies the above named has met the refresher training requirements of 29 CFR §1910.120(e)(8) and is hereby RECERTIFIED in Clandestine Laboratory Safety / HazWoper

Sponsored by
Rocky Mountain High Intensity Drug Trafficking Area
Colorado Regional Community Policing Institute

Caoimhín P. Connell, Instructor/Date
Great HARVEY



Colorado Law Enforcement Officers' Association



This is to certify that

CAOIMHIN CONNELL

Completed ARIDE (Advanced Roadside Impaired Driving
Enforcement)

hosted by Loveland Police Department

on February 28 – March 1, 2011

Tony Binelle, CLEOA President

ARIDE Instructor

State of Colorado



THE BOARD ON PEACE OFFICER STANDARDS AND TRAINING
HEREBY AWARDS THIS CERTIFICATE
AS INSPECTOR OF VEHICLE IDENTIFICATION NUMBERS
TO

CAOIMHIN PADRAIG CONNELL

August 27, 2008

Date

VIN INSP— **0952**

Number

For fulfilling the prescribed requirements as an Inspector of Vehicle Identification Numbers and as a peace officer in Colorado, pursuant to Title 42, Article 5, Section 206 Colorado Revised Statutes.

Governor

Attorney General, Board Chairperson

Certificate of Completion

Intoxilyzer 9000 Operator Certification Course

The Evidential Breath Alcohol Testing Program of the
Colorado Department of Public Health and Environment certifies that

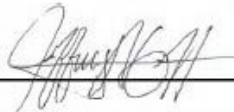
Caoimhin P Connell

User ID: 841645

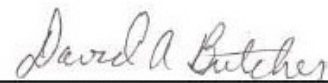
has successfully completed the "Intoxilyzer 9000 Operator Certification Course"
to determine the alcohol concentration in breath specimens pursuant to the
State Board of Health Rules Pertaining to Testing for Alcohol and Other Drugs (5 CCR, 1005-2)
Training was provided by the Evidential Breath Alcohol Testing Program
of the Colorado Department of Public Health and Environment.

February 21, 2013

Certificate Date



Jeffrey A. Groff, Program Manager
Evidential Breath Alcohol Testing Program



David A. Butcher, Director
Laboratory Services Division
Colorado Department of Public Health
and Environment

Certification expires 180 days from certificate date. Recertification must be per 5 CCR 1005-2.



Certificate of Achievement

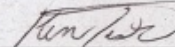
awarded to:

Caoimhin P. Connell

Has successfully completed Methamphetamine Lab Cleanup Management and
Supervision training in accordance with 29 CFR 1910.120 and State Regulations
Pertaining to the Cleanup of Methamphetamine Laboratories (8Hrs.)

June 1st, 2005

Date



Signed

HAZMAT Plans & Programs, Inc. 30 S. Havana St. Suite 304F Aurora, Colorado 80012 (303) 360-9801
"Safety Plans, Programs and Training Tailored To The Needs Of Your Business"

CERTIFICATE OF COMPLETION

COLORADO LAW ENFORCEMENT ASSOCIATIONS TRAINING PROJECT

This Certifies That

Caoimhin Connell

Has Attended the

CLEAT 40-HOUR

Train the Trainer Course

Hosted by Breckenridge Police Department
August 14-18, 2006

Karen M. Renshaw, CAE
Executive Director
Colorado Association of Chiefs of Police

John L. Kammerzell
Executive Director
Police Officer Standard & Training

Donald E. Christensen
Executive Director
County Sheriffs of Colorado



SINCE 1973

This is to certify that

Caoimhin P. Connell

*Has completed a 24 hour training program in Vehicle Identification Number
Inspection*

Presented this 24th day of May, 2008

Chris Fox

CATI President

[Signature]

VIN Inspector Training Coordinator

State of Colorado



THE BOARD ON PEACE OFFICER STANDARDS AND TRAINING
AWARDS THIS CERTIFICATE
TO

CAOIMHIN PADRAIG CONNELL

May 6, 2004

Date

B- 10670

Number

For fulfilling the prescribed requirements for certification. This certificate expires three years from date of issuance unless the certificate holder meets the requirements for continued certification as established by law and the P.O.S.T. Board.

Phil Owen

Governor

Ken Salazar

Attorney General, Board Chairperson

Rocky Mountain High Intensity Drug Trafficking Area



Certifies that



Caoimhín Connell

has attended

16 hours of

MCTC / RMHIDTA Indoor Marijuana Grows

Centennial, CO

August 28-29, 2014

Jim Bjo

Training Manager, Rocky Mountain HIDTA

Thomas Loman

Director, Rocky Mountain HIDTA

CERTIFICATE OF TRAINING

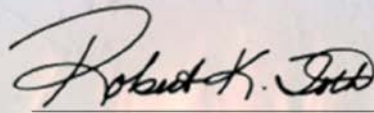
THIS IS TO CERTIFY THAT

Caoimhin Connell

Has completed 4 hours of successful training for
The Hazards of Hash Oil Extraction

Held at IRIS Fire Investigations in Englewood, CO

on this 7th day of November, 2014



Robert K. Toth
IRIS Fire Investigations, President

APPENDIX B

ANALYTICAL REPORTS FOR FACTS SAMPLES



Forensic Applications

Final Report

RES 307473-1

December 12, 2014

	Page
Cover Sheet	1
Letter	2
Report / Data	3
Quality Control Data	4
Chain of Custody	5



December 12, 2014

Laboratory Code: RES
Subcontract Number: NA
Laboratory Report: RES 307473-1
Project # / P.O. #: Hofer
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 307473-1 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 307473-1**
Client: **Forensic Applications**
Client Project Number / P.O.: **Hofer**
Client Project Description: **None Given**
Date Samples Received: **December 10, 2014**
Analysis Type: **Methamphetamine by GCMS**
Turnaround: **5 Day**
Date Samples Analyzed: **December 11, 2014**

Client ID Number	Lab ID Number	Reporting Limit (µg)	METHAMPHETAMINE CONCENTRATION (µg)
HM120914-01	EM 1311970	0.30	27.20
HM120914-02	EM 1311971	0.30	4.69

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

**Special reporting limit per client request

DATA QA _____

RESERVOIRS ENVIRONMENTAL, INC.

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

QUALITY CONTROL: METHAMPHETAMINE BY WIPE

RES Job Number: **RES 307473-1**
Client: **Forensic Applications**
Client Project Number / P.O.: **Hofer**
Client Project Description: **None Given**
Date Samples Received: **December 10, 2014**
Analysis Type: **Methamphetamine by GCMS**
Turnaround: **5 Day**
Date Samples Analyzed: **December 11, 2014**

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	92	93

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

DATA QA _____

Due Date: 12-15/12-17
 Due Time: 12:05

RES 307473

Job # _____
 Page 1 of 1



After Hours Cell Phone: 720-339-9228

Company: Forensic Applications, Inc.
Address: 185 Bounty Hunters Lane, Bailey, CO 80421
Company: Caoimhin P. Connell
Address: _____
Phone: 303-903-7494
Fax: _____
Cell/pager: _____
Final Data Deliverable Email Address: admin@forensic-applications.com

ASBESTOS LABORATORY HOURS: Weekdays: 7am - 7pm
 PLM / PCM / TEM RUSH (Same Day) PRIORITY (Next Day) STANDARD
 (Rush PCM = 2hr, TEM = 6hr.)

CHEMISTRY LABORATORY HOURS: Weekdays: 8am - 5pm
 Metal(s) / Dust RUSH 24 hr. 3-5 Day
 RCRA 8 / Metals & Welding RUSH 5 day 10 day
 Fume Scan / TCLP RUSH 24 hr. 3 day X 5 Day

MICROBIOLOGY LABORATORY HOURS: Weekdays: 9am - 6pm
 E.coli O157:H7, Coliforms, S.aureus 24 hr. 2 Day 3-5 Day
 Salmonella, Listeria, E.coli, APC, Y & M RUSH 24 Hr. 48 Hr. 3 Day 5 Day
 Mold RUSH 24 Hr. 48 Hr. 3 Day 5 Day

Special Instructions: SPECIAL Reporting Limit 0.3 µg Please report all samples as total µg.
 Please use entire sample.

Client sample ID number	(Sample ID's must be unique)
1	HM120914-01
2	HM120914-02
3	
4	
5	
6	
7	
8	
9	
10	

PLM - Short report, Long report, Point Count	TEM - AHERA, Level II, 7402, ISO, +/-, Quant, Semiquant, Micro-vac, ISO Indirect Preps	PCM - 7400A, 7400B, OSHA	DUST - Total, Respirable	METALS - Analyte(s)	ORGANICS - METH	SALMONELLA +/-	E.coli O157:H7 +/-	Listeria +/-	Aerobic Plate Count +/- or Quantification	E.coli +/- or Quantification	Coliforms +/- or Quantification	S.aureus +/- or Quantification	Y & M +/- or Quantification	Mold +/-, Identification, Quantification	OTHER NOTES: 0.3 µg Reporting Limit
					X										
					X										

Number of samples received: _____ (Additional samples shall be listed on attached long form.)

Relinquished By: *Caoimhin P. Connell* Date/Time: 12/10/14 12:02P
Laboratory Use Only
Received By: *[Signature]* Date/Time: 12-10-14 12:05 Carrier: *Hand*
Results:
 Contact Phone Email Fax Date Date Date Date
 Contact Phone Email Fax Date Date Date Date

SAMPLING FIELD FORM

FACTs project name: Hofer	Form # ML17
Date: December 12, 2014	Alcohol Lot#: 1302 Gauze Lot#: 1401
Reporting IH: Caoimhín P. Connell, Forensic IH	Screening Clearance Preliminary

Sample ID HM121214-	Type	Location	FS	Dimensions	Substrate
-Ø1	W	BX	NA		
-Ø2	W	Shed roof cleats	10	20X25	M

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, PI=Plastic





Forensic Applications

Final Report

RES 308067-1

December 19, 2014

	Page
Cover Sheet	1
Letter	2
Report / Data	3
Quality Control Data	4
Chain of Custody	5



December 19, 2014

Laboratory Code: RES
Subcontract Number: NA
Laboratory Report: RES 308067-1
Project # / P.O. #: Hofer
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 308067-1 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 308067-1**
Client: **Forensic Applications**
Client Project Number / P.O.: **Hofer**
Client Project Description: **None Given**
Date Samples Received: **December 17, 2014**
Analysis Type: **Methamphetamine by GCMS**
Turnaround: **5 Day**
Date Samples Analyzed: **December 19, 2014**

Client ID Number	Lab ID Number	Reporting Limit (µg)	METHAMPHETAMINE CONCENTRATION (µg)
HM121214-01	EM 1316643	0.05	BRL
HM121214-02	EM 1316644	0.05	BRL

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

DATA QA _____

RESERVOIRS ENVIRONMENTAL, INC.

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

QUALITY CONTROL: METHAMPHETAMINE BY WIPE

RES Job Number: **RES 308067-1**
Client: **Forensic Applications**
Client Project Number / P.O.: **Hofer**
Client Project Description: **None Given**
Date Samples Received: **December 17, 2014**
Analysis Type: **Methamphetamine by GCMS**
Turnaround: **5 Day**
Date Samples Analyzed: **December 19, 2014**

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	2	92	89

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

DATA QA _____

Due Date: 12/24/14
 Due Time: 3:35pm



Reservoirs Environmental, Inc.

RES 308067

SUBMITTED BY:

INVOICE TO: (IF DIFFERENT)

CONTACT INFORMATION:

Company: **FORENSIC APPLICATIONS**
 Address: **18513015th HUNTERS LN**
BAILEY, COLO. 80441
 Project Number and/or P.O. #: **HOEER**
 Project Description/Location: **PC**
 Company: **RESURB**
 Address: **5901 Logan St. Denver, CO 80216**
 Phone: **303-964-1986** Fax: **303-477-4275** Toll Free: **866-RES-ENV**
 After Hours Cell Phone: **720-339-9228**
 Contact: **MADALYN CORVELL**
 Phone: **303-903-7494**
 Fax: **303-903-7494**
 Call pager:
 Final Data Deliverable Email Address:

ASBESTOS LABORATORY HOURS: Weekdays: 7am - 7pm & Sat. 8am - 5pm
 PLM / PCM / TEM RUSH (Same Day) PRIORITY (Next Day) STANDARD (3-5 Day)
 (Rush PCM = 2hr, TEM = 6hr.)

CHEMISTRY LABORATORY HOURS: Weekdays: 8am - 5pm
 Metals(s) / Dust RUSH 24 hr. 3-5 Day
 RCRA 8 / Metals & Welding RUSH (3 Day) 5 Day 10 Day
 Fume Scan / TCLP RUSH 24 hr. 3 day 5 Day
 Organics 24 hr. 3 day 5 Day
 MICROBIOLOGY LABORATORY HOURS: Weekdays: 9am - 6pm
 E.coli and/or Coliforms* 24-48 Hour Other:
 Pathogens* 24-48 Hour
 Microbial Growth* 5-10 Day *TAT dependent on speed of microbial growth.
 Legionella 10 Day
 Mold RUSH 24 Hr. 48 Hr. 3 Day 5 Day
 Turnaround times establish a laboratory priority, subject to laboratory volume and are not guaranteed. Additional fees apply for afterhours, weekends and holidays.
 Special Instructions:

REQUESTED ANALYSIS
 PLM - Short report, Point Count, Long report, Qualitative
 TEM - AHERA, Level II, 7402, ISO, +/- (Air, Bulk or Dust), Quant, Semi-Quant, Micro-vac, ISO-Indirect Preps
 PCM - 7400A, 7400B, OSHA
 DUST - Total, Respirable
 METALS - Analyte(s)
 RCRA 8, TCLP, Welding Fume, Metals Scan, pH
 ORGANICS - METH, TSS
 Pathogens: Aerobic Plate Count, Salmonella, E. coli O157:H7, Listeria, S.aureus, Campylobacter: +/- or Quantification
 E.coli and/or Coliforms: +/- or Quantification
 Microbial Growth: Aerobic Plate Count ID, Bacteria or Y & M: +/- or Quantification
 Legionella: +/- or Quantification
 Other: Bioburden, LAL or Environmental
 Mold: Spore Trap or Bulk: +/-, Identification, Quantification
 SAMPLER'S INITIALS OR OTHER NOTES:

VALID MATRIX CODES
 Air = A Bulk = B
 Dust = D Paint = P
 Soil = S Wipe = W
 Swab = SW F = Food
 Drinking Water = DW Waste Water = WW
 O = Other
 ASTM E1792 approved wipe media only

LAB NOTES:

Client sample ID number	(Sample ID's must be unique)	PLM - Short report, Point Count, Long report, Qualitative	TEM - AHERA, Level II, 7402, ISO, +/- (Air, Bulk or Dust), Quant, Semi-Quant, Micro-vac, ISO-Indirect Preps	PCM - 7400A, 7400B, OSHA	DUST - Total, Respirable	METALS - Analyte(s) RCRA 8, TCLP, Welding Fume, Metals Scan, pH	ORGANICS - METH, TSS	Microbiology	SAMPLER'S INITIALS OR OTHER NOTES:	Sample Volume (L) / Area	Matrix Code	# Containers	Date Collected	Time Collected	EM Number (Laboratory Use Only)
1	HA121214-01												12/17/14		316003
2	HA121214-02												12/17/14		
3															
4															
5															
6															
7															
8															
9															
10															

Number of samples received: **10**
 (Additional samples shall be listed on attached long form.)
 NOTE: REI will analyze incoming samples and 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: **Madelyn Corvell** 12/17/14 3:35P Date/Time:
 Laboratory Use Only
 Received By: **SCHEIDT** 12/17/14 3:35PM Date/Time:
 Results: Contact Phone Email Fax Date Time Initials Contact Contact Phone Email Fax Date Time Initials
 Contact Phone Email Fax Date Time Initials

APPENDIX C

COMPACT DIGITAL DISK (PHOTOGRAPHS AND ADDITIONAL DOCUMENTATION)

