



July 7, 2008

Mr. Carter Williamson  
On-Scene Coordinator  
U.S. Environmental Protection Agency, Region 4  
61 Forsyth Street, SW, 11th Floor  
Atlanta, Georgia 30303

**Subject:       Emergency Response Letter Report  
                  Woodbury Explosive  
                  Woodbury, Cannon County, Tennessee  
                  EPA Contract No. EP-W-05-054  
                  TDD No. TTEMI-05-001-0058**

Dear Mr. Williamson:

The Tetra Tech EM Inc. (Tetra Tech) Superfund Technical Assessment and Response Team (START) is submitting this emergency response letter report for the Woodbury Explosive site in Woodbury, Cannon County, Tennessee. The U.S. Environmental Protection Agency (EPA) requested that Tetra Tech START support EPA by providing personnel, equipment, supplies, and services necessary to respond to a clandestine explosives and fireworks manufacturing site that had recently burned. Specifically, Tetra Tech START was tasked to provide written and photographic documentation of site activities, air monitoring support, multimedia sampling, and possible laboratory procurement.

This letter report includes four appendices and one attachment. Appendix A includes two figures of the incident area, Appendix B is a copy of the logbook notes, Appendix C contains a photographic log, and Appendix D is a table of witnesses. Attachment 1 contains the packing lists of the materials discovered at the site as packaged for disposal by United States Environmental Services, L.L.C. (USES).

### **Background**

On May 11, 2008, a fire broke out at 107 East Colonial Street in Woodbury, Cannon County, Tennessee. The Woodbury Fire Department responded and ultimately extinguished the fire on May 12, 2008. The site is the home of Mr. Jeffery Travis. Mr. Travis stated that he had been striking an aerial flare with a hammer when it initiated and started the conflagration. He was subsequently treated at a local emergency room and briefly jailed for starting the fire. Mr. Travis is an unlicensed manufacturer of fireworks and explosives who has been involved in at least one similar incident. EPA had previously responded to the residence in 1997 after Mr. Travis injured himself in a small explosion. After the recent fire, local officials discovered hazardous substances, including reactive chemicals and oxidizers, within the residence and subsequently requested assistance from multiple state and federal agencies, including EPA.

On May 22, 2008, the Tennessee Department of Environment and Conservation filed report number 871807 with the National Response Center requesting EPA assistance. On-Scene Coordinator (OSC) Carter Williamson of the EPA Emergency Response and Removals Branch (ERRB) was dispatched to

provide support to local responders and participate within the Unified Command structure. OSC Williamson requested START support and, subsequently, requested Emergency and Rapid Response Services (ERRS) support as well. USES, a subcontractor of WRS Infrastructure and Environment, Inc., served as the ERRS contractor to EPA.

### **Response Activities**

EPA, supported by Tetra Tech START site manager Mr. Chris Draper and four USES personnel led by Mr. Todd Taylor, mobilized to the scene the morning of May 23, 2008. A brief summary of Mr. Travis's history and the current response was provided by Special Agent Donald Jones of the Tennessee State Fire Marshall's Office Bomb and Arson Section and by Special Agent J.W. Brown of the Bureau of Alcohol, Tobacco, Firearms, and Explosives (ATF). According to Special Agent Jones, his department was notified on May 19 and arrived on the scene to discover that Servpro, a fire and water damage cleanup contractor hired by Mr. Travis's insurance company, had already emptied most of the contents and personal effects from the residence, thus compromising the scene and evidence. Special Agent Brown stated that ATF had discovered polyvinyl chloride pipes with explosives residue, smoke bombs, and other materials and had subsequently open-detonated them on May 22, 2008, at a nearby rock quarry owned by Vulcan Materials Company. Energetic and explosive materials discovered during the 1997 response had also been open-detonated at the Vulcan quarry.

Ms. Faye Morse, the Cannon County Emergency Management Agency Director, arrived and further elucidated response activities conducted before OSC Williamson arrived. Special Agent in Charge John Adcock of the EPA Criminal Investigation Division was on scene to assist with preservation and collection of the evidence. OSC Williams informed Ms. Morse that he would like to speak with Mr. Travis. Ms. Morse arranged to have Mr. Travis brought to the residence to answer questions and to help identify any unknown items that might be discovered during EPA's investigation.

Local responders had removed numerous flares, fuses, and hazardous chemicals from the residence, segregated the items, and staged them on a covered patio in the rear of the residence. At OSC Williamson's direction, Mr. Draper and Mr. Taylor prepared to make a site entry to conduct air monitoring and locate any remaining hazardous materials. The initial entry team donned appropriate personal protective equipment, including flame-resistant clothing, hard hats, and safety glasses, and prepared to enter the residence. A MultiRAE plus, equipped with sensors for carbon monoxide, hydrogen sulfide, percent oxygen, percent lower explosive limit, and a photoionization detector, was used to monitor the air within the residence throughout the entry. Explosion-proof radios were used to communicate findings and progress to OSC Williamson throughout the entry.

The entry team discovered several hazardous materials, including potassium chlorate, lead azide, formic acid, fuses, and glacial acetic acid. A complete list of the materials discovered by EPA and previously removed from the residence by local responders is contained in Attachment 1. With concurrence from EPA, Lieutenant Lee Chaffin, Special Operations Supervisor with the Tennessee Highway Patrol, determined that with the exception of the fuses and flares, all of the materials discovered could be safely open-detonated at the Vulcan quarry. The materials for open detonation were inventoried, segregated, packaged, and loaded aboard a trailer for transportation to the quarry by local officials for subsequent open detonation. The Tennessee Highway Patrol agreed to take the fuses and flares to one of its facilities for open burning at a later date.


All interested agency and organization personnel then traveled to the Vulcan quarry in Readyville, Tennessee, to prepare for the open detonation. The materials for open detonation had been packaged into

two 30-gallon open-top, poly drums. Tennessee Highway Patrol Special Operations personnel prepared the two drums to detonate approximately 30 seconds apart. Each drum was configured within the safety of the quarry to detonate and ignite a 2-gallon can of gasoline that would subsequently incinerate the drums and their contents.

The Tennessee Highway Patrol safely and successfully open-detonated both drums, with only small pieces of the outer drum remaining. All pieces were collected and transported along with the fuses and flares for subsequent open burning by the Tennessee Highway Patrol at one of its facilities. With the hazardous substances safely disposed of, EPA ERRB demobilized from the site to allow law enforcement to continue its investigation.

If you have any questions, please call me at (615) 969-1334 or Andrew Johnson at (678) 775-3100.

Sincerely,



Chris Draper  
START III Site Manager



Andrew Johnson  
START III Program Manager

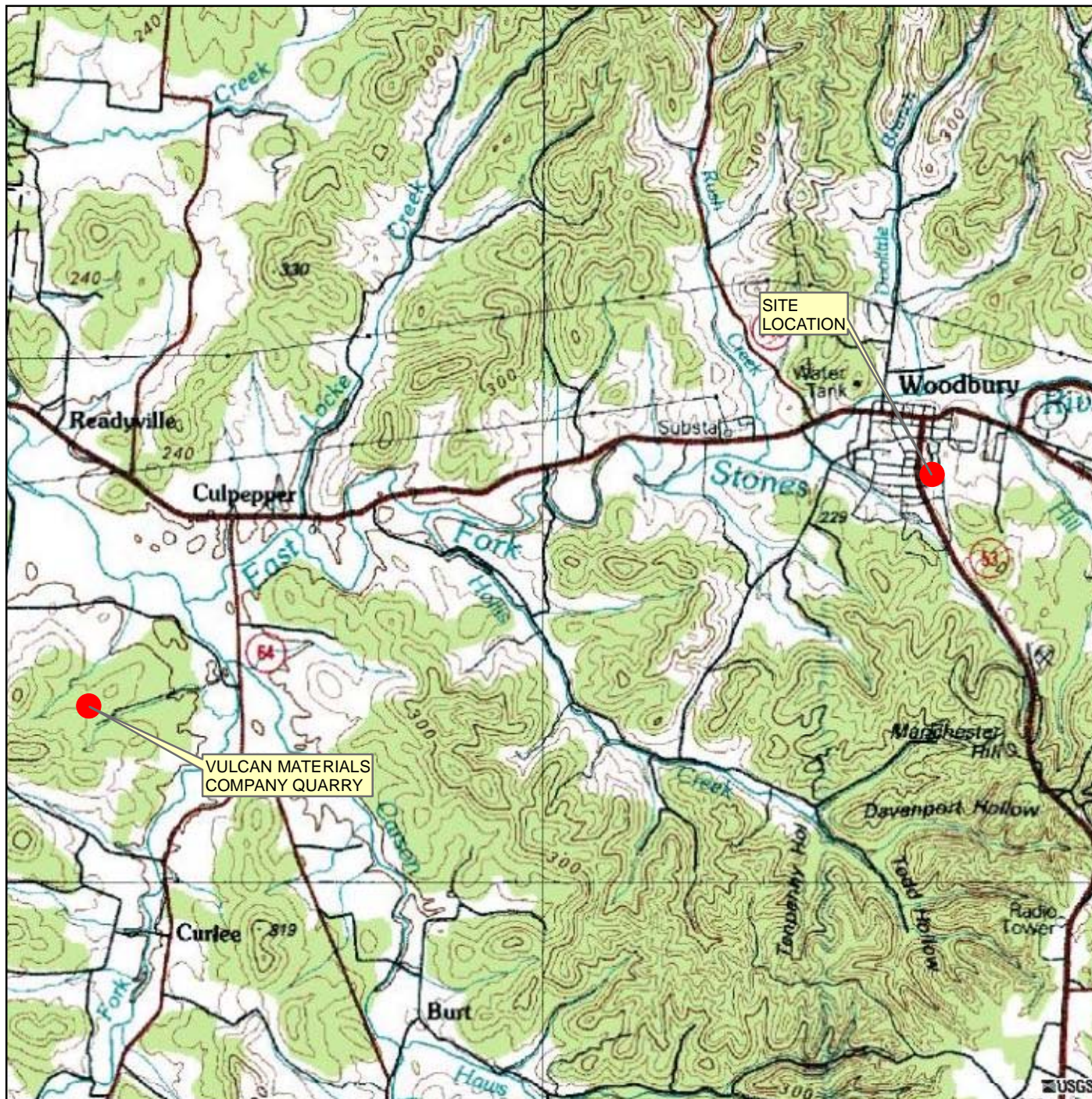
Appendices (4)  
Attachment

cc: Katrina Jones, EPA Project Officer  
Darryl Walker, EPA Alternate Project Office  
Brian Croft, START III Task Order Manager  
Angel Reed, START III Document Control Coordinator

## **APPENDIX A**

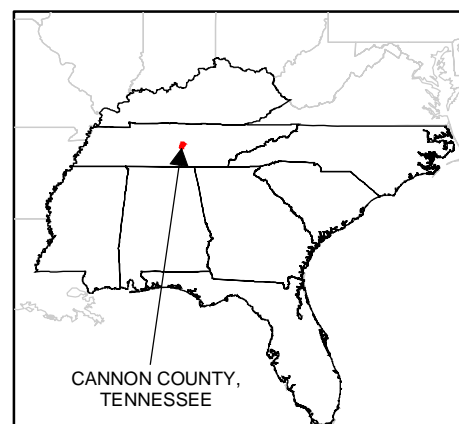
**FIGURES 1 and 2**  
(Two Pages)





0 0.5 1 Miles  
1:63,360

MAP SOURCE:  
USGS, MURFREESBORO, TN  
1x100K TOPOGRAPHIC QUADRANGLE, 1981



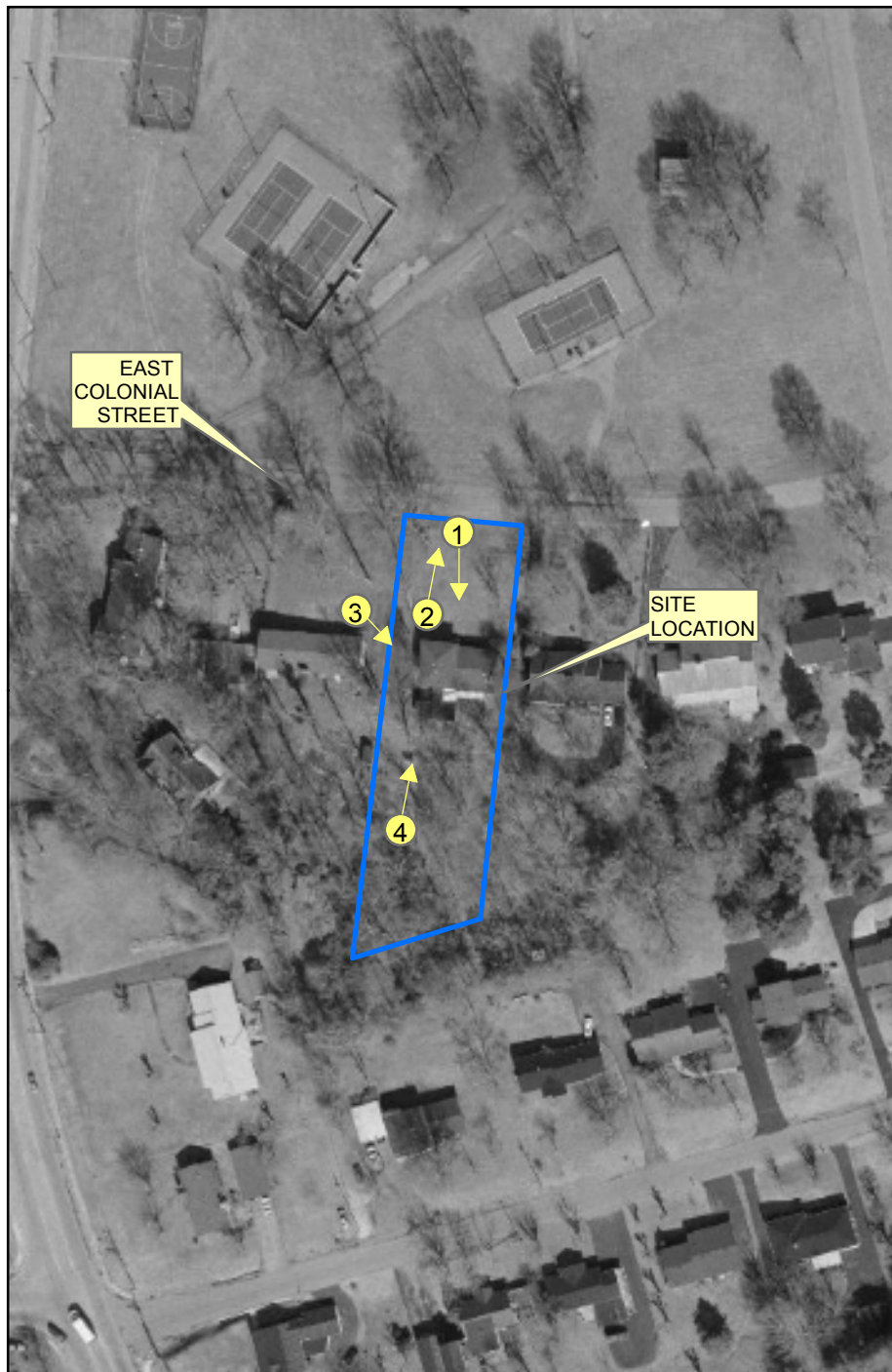
United States Environmental Protection Agency

WOODBURY EXPLOSIVE SITE  
WOODBURY,  
CANNON COUNTY,  
TENNESSEE  
TDD No. TTEMI-05-001-0058

**FIGURE 1  
SITE LOCATION**







**PHOTOGRAPH 1**



**PHOTOGRAPH 2**



**PHOTOGRAPH 3**

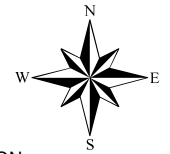


**PHOTOGRAPH 4**



**LEGEND**

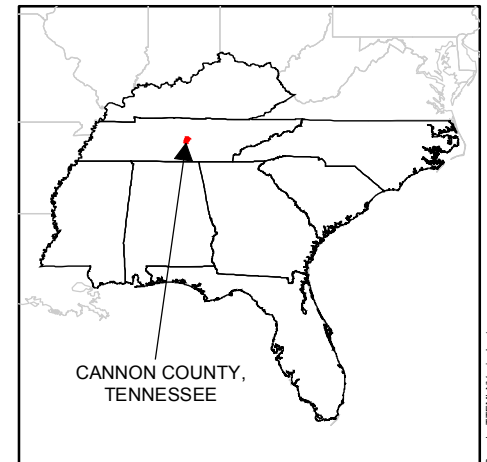
**1** PHOTOGRAPH LOCATION AND DIRECTION



0 75 150  
Feet

1:1,800

MAP SOURCE:  
TNMAP AERIAL PHOTOGRAPH 2004



CANNON COUNTY,  
TENNESSEE



United States Environmental Protection Agency

WOODBURY EXPLOSIVE SITE  
WOODBURY,  
CANNON COUNTY,  
TENNESSEE  
TDD No.TTEMI-05-001-0058

**FIGURE 2**  
**SITE LAYOUT**



## **APPENDIX B**

### **LOGBOOK NOTES (Five Pages)**

5/22/08 20:08

CALL FROM TERRY TANNER 404-434-5379

WOODBERRY, TN

CARTER ON WAY

MAKING EXPLOSIVES (SAME AS 1997)

ATF, FBI, BOMB, EMA, ETC.

TDEC - (PAUL MAYO FILED REPORT) 741-0001

EMA EXPLOSIVES IN QUARRY (FAYE MORRIS)

HAZMAT TO DEAL WITH 563-2026

NRC REPORT ON WAY (# 871807)

NEED 1 START ~ 08:00 5/23/08

2020 CALL OSC WELLSON

FBI TO BLOW SOME MATERIALS

2054 CALL FROM OSC SPURLIN

PICRIC UNDER HOUSE

MAKES FIREWORKS

MICROPULVULITE w/ TNT IN QUARRY

SITE: 107 EAST COLONIAL STREET

WOODBURY, TN (CANNON CO.)

LEAD NITRATE

POTASSIUM CHLORATE

POTASSIUM PERCHLORATE

SODIUM AZIDE

LEAD ACETATE

AR-METAL

90

2115 BEGIN HASP

2145 CALL FROM CARTER

USES ON ALERT, ROLL CHEMIST FROM JACKSON

ADCOX CID

SPOKE w/ FAYE

COFFEE CAN OF PICRIC

CITY PARK ACROSS STREET

BE ONSITE @ 09:00 ON 5/23/08

NEED @ NV

SWPS = 1, 13, 15, 17, 23, 28

• HARDHAT

MSDS = CH<sub>4</sub>, ISOB, HEX

• EQUIP

• HAZMAT

• HAZLETS

• CAMERA / GPS

• GLASSES

• PID/FID/RAD

2335 HASP COMPLETE

Ch

D

5/22/08

90

06/23/08

0615 LEAVE RESIDENCE

0640 ARRIVE TEEMI NV

0728 CALL FROM OSC WILLIAMSON

MEET AT PARK

0740 DEPART FOR SITE

0900 ARRIVE w/USES

- BRIEF BY OSC WILLIAMSON
- FAYE MORSE, CMA EN ROUTE
- JOHN ADCOCK, CID EN ROUTE
- DON JONES, TN BOMB; ARSON  
FIRST FIRE 5/11 AGAIN 5/12  
HOUSE BURNED FOR; DOING IT FOR FUN  
JONES CALLED ON 5/19, SCENE COMPROMISED
- JEFFREY TRAVIS IS PEARP (MID 40s)  
RELEASED FROM ER / JAIL; WIFE / GRL TOO  
HAS CHEMICALS STORED
- JIM BROWN, ATF ARRIVES  
ATF MADE A SHOT LAST NIGHT (5/22)  
JONES HAS SIGNED CONSENT  
NOT SURE IF ATIC / CRAWLSPACE CHECKED  
TRAVIS TIGER-LIP ADOPTED PARENTS IN PAST  
MAY HAVE \$ FOR COST RECOVERY  
INS. CO. MAY HAVE HIRED SERVPRO  
— THEY ARE ONSITE

NO BOMBS, SOME TUBES, NO BLASTING CAPS

•  $H_2O_2$  + CITRIL + TANG BOMB — NO EVIDENCE

0953 • JOHN ADCOCK, CID ONSITE

0959 • FAYE MORSE, CANNON CO. EMA ONSITE

HOUSE IS CRIME SCENE Mr. TRAVIS IS AT  
PEARIDGE TRAILER PARK IN N. CANNONCO.OSC WILLIAMSON NEEDS ACCESS; WOULD LIKE  
MR. TRAVIS ONSITE

SHERIFF TO TRY AND LOCATE HIM

• MIKE KNECHT

• LT. CHAFFIN

• SGT. BECKMAN

• GREG WHITAKER

107

PARK

SPLIT LEVEL

1015 Ms. FAYE MORSE IS ALSO DEP. FIRE MARSHALL

MORSE SAYS TRAVIS HAS BEEN MOVING BOXES

1018 CINDY <sup>(WIFE)</sup> CAME AND ASKED HER TO GO GET

MR. TRAVIS FROM TRAIL IN PEARIDGE

WE WILL FEED WATER DOC

- LEO CHAFFIN, TROOPER
- RANAN NORMAN, TROOPER

1024 MADE SHOT 05/22/08

- / SMALL PILL BOTTLE
- / SMOKE BOMBS - WERE BOTTLE
- / PVC W/ RESIDUE

1045 PREP FOR INITIAL ENTRY

PRC, SAFETY GLASSES, HARD HAT

MULTIRAE, FIRE EXT, SAFETY LITE

WILL PHOTO DOC, READ LABELS, MARK UNKNOWNS

1050 SPONGE W/ GREG WETAKER

YELLOW LID IS EXPLOSIVE, UPSTAIRS IN  
LEFT BEDROOM

PVC IN MASTER

1103 MR. TRAVIS ON SITE

OSC WILLIAMSON PROVIDES START : ERRS  
COMS

MR. TRAVIS STATES IT IS LEAD AZIDE

ALSO POTASSIUM PERCHLORATE

8

1120 FIRST ENTRY

GARAGE

- FORMIC ACID (90%) 1L
- GLACIAL ACETIC ACID 1L
- FIREWORKS (AND TUBES)

1127 DOWNSTAIRS (ROOM 1)

UTILITY

1130 UP / LOW

• KITCHEN

• FIREWORK ON COUNTER

PAINT BALLS

SWITCHBLADE IN DRAWER

LIVING ROOM

• SODIUM SILICATE SOLN 1 gal

DEN

• AIR RIFLE

• FIREWORKS IN FIREPLACE

UP

MB - FIREWORKS ? PILL BOTTLE (OUT DRAWER)

CANNOT FIND LEAD AZIDE

R/F - NADA

L/F - ? POTASSIUM PERCHLORATE IN WINDOW

• LEAD SHOT

• FUZES

8

1147 ALL OUT

MOST MATERIALS FOUND ARE COMMERCIALY  
AVAILABLE (FIREWORKS, ACID, OX, AZIDE)

1207 USES COLLECTS INVENTORY OF CHEMICALS

STAGGO ON BACK PATIO:

SODIUM AZIDE

LEAD AZIDE

BLACK POWDER, ALUMINUM

LEAD ACETATE

THALLIUM METAL

ARSENIC METAL

SODIUM FLUORIDE

POTASSIUM PERCHLORATE

DIXYLON (102 DROPPER 2)

FLARES, AERIAL AND ROAD

1308 PLAN IS TO PACK ALL MATERIALS TOGETHER

AND MAKE A SINGLE SHOT AT A LOCAL

VULCAN QUARRY IN READYVILLE, TN  
MATERIALS

1334 VULCAN CANNOT MAKE SHOT 12/4 TUESDAY

PACK CHEMICALS FOR DISPOSAL

LOOKING FOR OPTIONS

1345 BACK ON AT 15:00 @ VULCAN

CHIEF BURNETT 542-3879 ONSITE

20

LOOKING FOR CHARGES; CURRENTLY NONE

1351 FIND POTASSIUM PERCHLORATE 3 EA 1lb CANS  
IN GARAGE

1356 TROOPERS IN RESIDENCE LOOKING FOR  
ADDITIONAL MATERIALS

POTASSIUM PERCHLORATE

PHENOL 99.5% 1/2 lb

POTASSIUM CARBONATE

210 x 10' FUSES

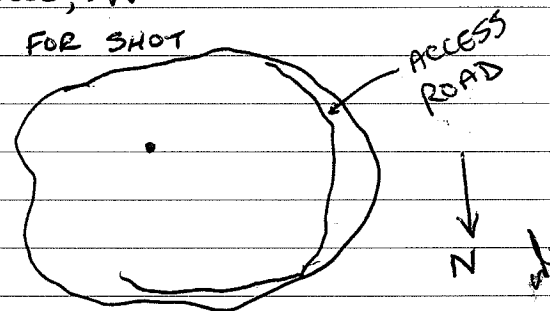
1431 NEW NAME: WOODBURY EXPLOSIVES RESPONSE  
SITE

1439 ALL WASTE ON EMA TRAILER TO MAKE  
SHOT

1450 USES OFF SITE

1500 ARRIVE VULCAN MATERIALS QUARRY  
READYVILLE, TN

PREPARE FOR SHOT



1522 RAIN DELAY

1607 RAIN DELAY NO BG OVER

1637 TWO DRUMS ARE RIGGED DIFFERENTLY

1) S END = 6 BRICKS (1.25 lb)

2) MID = DET CORD AND CAST BOOSTERS  
(PENTEX)

1708 TWO SHOTS 30 SEC. APART - GOOD

1714 SOME BURNING DEBRIS

1720 FRAG LOADED FOR LANDFILL

1732 DEMOS

CR.

00

06/23/02



## **APPENDIX C**

### **PHOTOGRAPHIC LOG (36 Pages)**



**OFFICIAL PHOTOGRAPH NO. 1**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

<b>TDD Number:</b>	TTEMI-05-001-0058	<b>Location:</b>	Woodbury Explosive
<b>Orientation:</b>	South	<b>Date:</b>	May 23, 2008
<b>Photographer:</b>	Chris Draper, Tetra Tech	<b>Witness:</b>	OSC Carter Williamson, EPA
<b>Subject:</b>	Front of the residence at 107 East Colonial Street in Woodbury, Cannon County, Tennessee (site) depicting fire damage to upstairs.		



**OFFICIAL PHOTOGRAPH NO. 2**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

**TDD Number:** TTEMI-05-001-0058

**Location:** Woodbury Explosive

**Orientation:** North

**Date:** May 23, 2008

**Photographer:** Chris Draper, Tetra Tech

**Witness:** OSC Carter Williamson, EPA

**Subject:** Rear of site.





**OFFICIAL PHOTOGRAPH NO. 3**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

<b>TDD Number:</b>	TTEMI-05-001-0058	<b>Location:</b>	Woodbury Explosive
<b>Orientation:</b>	East	<b>Date:</b>	May 23, 2008
<b>Photographer:</b>	Chris Draper, Tetra Tech	<b>Witness:</b>	OSC Carter Williamson, EPA
<b>Subject:</b>	Covered patio at the rear of the site where hazardous substances were inventoried, segregated, staged, and packaged for disposal.		



**OFFICIAL PHOTOGRAPH NO. 4  
U.S. ENVIRONMENTAL PROTECTION AGENCY**

<b>TDD Number:</b>	TTEMI-05-001-0058	<b>Location:</b>	Woodbury Explosive
<b>Orientation:</b>	Southeast	<b>Date:</b>	May 23, 2008
<b>Photographer:</b>	Chris Draper, Tetra Tech	<b>Witness:</b>	OSC Carter Williamson, EPA
<b>Subject:</b>	View of the western side of the site where Servpro had positioned a roll-off container to dispose of fire debris.		



**OFFICIAL PHOTOGRAPH NO. 5**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

<b>TDD Number:</b>	TTEMI-05-001-0058	<b>Location:</b>	Woodbury Explosive
<b>Orientation:</b>	Down	<b>Date:</b>	May 23, 2008
<b>Photographer:</b>	Chris Draper, Tetra Tech	<b>Witness:</b>	OSC Carter Williamson, EPA
<b>Subject:</b>	Ammunition, including rubber shot 12-gauge shotgun shells, discovered in the garage of the site.		





**OFFICIAL PHOTOGRAPH NO. 6**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

<b>TDD Number:</b>	TTEMI-05-001-0058	<b>Location:</b>	Woodbury Explosive
<b>Orientation:</b>	Down	<b>Date:</b>	May 23, 2008
<b>Photographer:</b>	Chris Draper, Tetra Tech	<b>Witness:</b>	OSC Carter Williamson, EPA
<b>Subject:</b>	Fuses discovered in the garage of the site.		



**OFFICIAL PHOTOGRAPH NO. 7**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

**TDD Number:** TTEMI-05-001-0058

**Location:** Woodbury Explosive

**Orientation:** North

**Date:** May 23, 2008

**Photographer:** Chris Draper, Tetra Tech

**Witness:** OSC Carter Williamson, EPA

**Subject:** Cabinet in garage of the site used to store cardboard fireworks tubes and potassium perchlorate.





**OFFICIAL PHOTOGRAPH NO. 8**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

<b>TDD Number:</b>	TTEMI-05-001-0058	<b>Location:</b>	Woodbury Explosive
<b>Orientation:</b>	East	<b>Date:</b>	May 23, 2008
<b>Photographer:</b>	Chris Draper, Tetra Tech	<b>Witness:</b>	OSC Carter Williamson, EPA
<b>Subject:</b>	Formic acid and glacial acetic acid found on a shelf in the garage of the site.		



**OFFICIAL PHOTOGRAPH NO. 9**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

**TDD Number:** TTEMI-05-001-0058

**Location:** Woodbury Explosive

**Orientation:** Southwest

**Date:** May 23, 2008

**Photographer:** Chris Draper, Tetra Tech

**Witness:** OSC Carter Williamson, EPA

**Subject:** Bedroom located in the southwest corner of the basement of the site.



**OFFICIAL PHOTOGRAPH NO. 10**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

**TDD Number:** TTEMI-05-001-0058

**Location:** Woodbury Explosive

**Orientation:** North

**Date:** May 23, 2008

**Photographer:** Chris Draper, Tetra Tech

**Witness:** OSC Carter Williamson, EPA

**Subject:** The kitchen of the site.





**OFFICIAL PHOTOGRAPH NO. 11**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

<b>TDD Number:</b>	TTEMI-05-001-0058	<b>Location:</b>	Woodbury Explosive
<b>Orientation:</b>	East	<b>Date:</b>	May 23, 2008
<b>Photographer:</b>	Chris Draper, Tetra Tech	<b>Witness:</b>	OSC Carter Williamson, EPA
<b>Subject:</b>	Multi-shot fireworks tubes on the counter in kitchen of the site.		



**OFFICIAL PHOTOGRAPH NO. 12**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

<b>TDD Number:</b>	TTEMI-05-001-0058	<b>Location:</b>	Woodbury Explosive
<b>Orientation:</b>	East	<b>Date:</b>	May 23, 2008
<b>Photographer:</b>	Chris Draper, Tetra Tech	<b>Witness:</b>	OSC Carter Williamson, EPA
<b>Subject:</b>	Den located in the southeast corner of the site.		



**OFFICIAL PHOTOGRAPH NO. 13**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

**TDD Number:** TTEMI-05-001-0058

**Location:** Woodbury Explosive

**Orientation:** East

**Date:** May 23, 2008

**Photographer:** Chris Draper, Tetra Tech

**Witness:** OSC Carter Williamson, EPA

**Subject:** Living room located in the northeast corner of the site.





**OFFICIAL PHOTOGRAPH NO. 14**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

**TDD Number:** TTEMI-05-001-0058      **Location:** Woodbury Explosive  
**Orientation:** West      **Date:** May 23, 2008  
**Photographer:** Chris Draper, Tetra Tech      **Witness:** OSC Carter Williamson, EPA  
**Subject:** View up the stairs into the fire-damaged portion of the site.



**OFFICIAL PHOTOGRAPH NO. 15**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

<b>TDD Number:</b>	TTEMI-05-001-0058	<b>Location:</b>	Woodbury Explosive
<b>Orientation:</b>	North	<b>Date:</b>	May 23, 2008
<b>Photographer:</b>	Chris Draper, Tetra Tech	<b>Witness:</b>	OSC Carter Williamson, EPA
<b>Subject:</b>	Upstairs front, left bedroom of the site with potassium perchlorate on the window sill.		





**OFFICIAL PHOTOGRAPH NO. 16**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

**TDD Number:** TTEMI-05-001-0058

**Location:** Woodbury Explosive

**Orientation:** Southeast

**Date:** May 23, 2008

**Photographer:** Chris Draper, Tetra Tech

**Witness:** OSC Carter Williamson, EPA

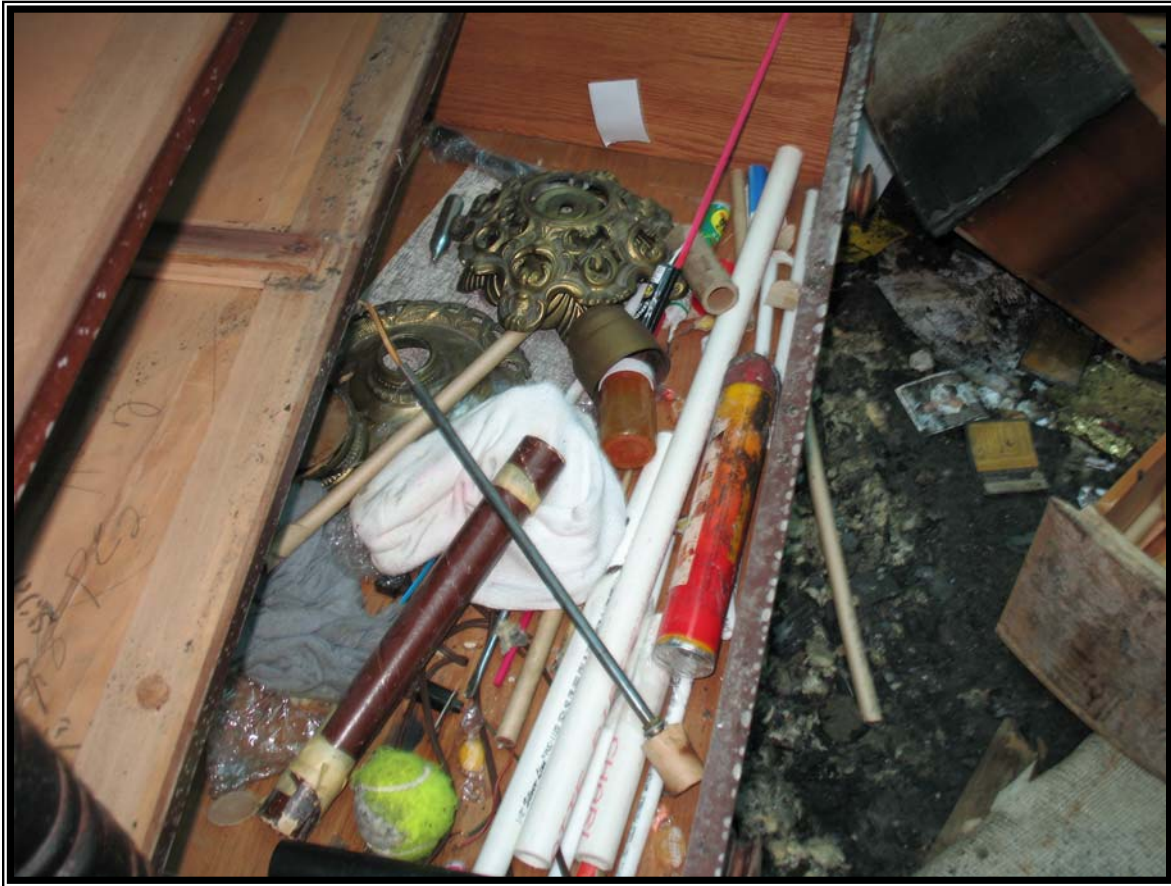
**Subject:** Upstairs main bath of the site.



**OFFICIAL PHOTOGRAPH NO. 17**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

**TDD Number:** TTEMI-05-001-0058      **Location:** Woodbury Explosive  
**Orientation:** Southwest      **Date:** May 23, 2008  
**Photographer:** Chris Draper, Tetra Tech      **Witness:** OSC Carter Williamson, EPA  
**Subject:** Upstairs, back right master bedroom of the site with numerous fireworks.





**OFFICIAL PHOTOGRAPH NO. 18**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

<b>TDD Number:</b>	TTEMI-05-001-0058	<b>Location:</b>	Woodbury Explosive
<b>Orientation:</b>	Down	<b>Date:</b>	May 23, 2008
<b>Photographer:</b>	Chris Draper, Tetra Tech	<b>Witness:</b>	OSC Carter Williamson, EPA
<b>Subject:</b>	Drawer in master bedroom of the site containing fireworks and a pill bottle of lead azide.		



**OFFICIAL PHOTOGRAPH NO. 19**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

<b>TDD Number:</b>	TTEMI-05-001-0058	<b>Location:</b>	Woodbury Explosive
<b>Orientation:</b>	Down	<b>Date:</b>	May 23, 2008
<b>Photographer:</b>	Chris Draper, Tetra Tech	<b>Witness:</b>	OSC Carter Williamson, EPA
<b>Subject:</b>	Fireworks and the hammer that Mr. Travis used to initiate the aerial flare that caused the fire discovered in the master bedroom of the site.		





**OFFICIAL PHOTOGRAPH NO. 20**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

<b>TDD Number:</b>	TTEMI-05-001-0058	<b>Location:</b>	Woodbury Explosive
<b>Orientation:</b>	Northwest	<b>Date:</b>	May 23, 2008
<b>Photographer:</b>	Chris Draper, Tetra Tech	<b>Witness:</b>	OSC Carter Williamson, EPA
<b>Subject:</b>	Upstairs, front right bedroom of the site.		



**OFFICIAL PHOTOGRAPH NO. 21**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

<b>TDD Number:</b>	TTEMI-05-001-0058	<b>Location:</b>	Woodbury Explosive
<b>Orientation:</b>	North	<b>Date:</b>	May 23, 2008
<b>Photographer:</b>	Chris Draper, Tetra Tech	<b>Witness:</b>	OSC Carter Williamson, EPA
<b>Subject:</b>	Front yard and park across the street from the site.		





**OFFICIAL PHOTOGRAPH NO. 22**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

<b>TDD Number:</b>	TTEMI-05-001-0058	<b>Location:</b>	Woodbury Explosive
<b>Orientation:</b>	South	<b>Date:</b>	May 23, 2008
<b>Photographer:</b>	Chris Draper, Tetra Tech	<b>Witness:</b>	OSC Carter Williamson, EPA
<b>Subject:</b>	Hazardous chemicals removed from the site by local responders and staged on the covered rear patio.		



**OFFICIAL PHOTOGRAPH NO. 23**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

<b>TDD Number:</b>	TTEMI-05-001-0058	<b>Location:</b>	Woodbury Explosive
<b>Orientation:</b>	Southeast	<b>Date:</b>	May 23, 2008
<b>Photographer:</b>	Chris Draper, Tetra Tech	<b>Witness:</b>	OSC Carter Williamson, EPA
<b>Subject:</b>	Aerial and road flares removed from the site by local responders and staged on the covered rear patio.		





**OFFICIAL PHOTOGRAPH NO. 24**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

**TDD Number:** TTEMI-05-001-0058

**Location:** Woodbury Explosive

**Orientation:** South

**Date:** May 23, 2008

**Photographer:** Chris Draper, Tetra Tech

**Witness:** OSC Carter Williamson, EPA

**Subject:** Containers of potassium perchlorate and lead azide discovered in the site by EPA and staged on the covered rear patio.



**OFFICIAL PHOTOGRAPH NO. 25**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

<b>TDD Number:</b>	TTEMI-05-001-0058	<b>Location:</b>	Woodbury Explosive
<b>Orientation:</b>	Northeast	<b>Date:</b>	May 23, 2008
<b>Photographer:</b>	Chris Draper, Tetra Tech	<b>Witness:</b>	OSC Carter Williamson, EPA
<b>Subject:</b>	United States Environmental Services, L.L.C., personnel load boxes and drums of hazardous substances (Attachment 1) aboard a small trailer for transportation to the Vulcan Materials Company quarry.		



**OFFICIAL PHOTOGRAPH NO. 26**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

<b>TDD Number:</b>	TTEMI-05-001-0058	<b>Location:</b>	Woodbury Explosive
<b>Orientation:</b>	East	<b>Date:</b>	May 23, 2008
<b>Photographer:</b>	Chris Draper, Tetra Tech	<b>Witness:</b>	OSC Carter Williamson, EPA
<b>Subject:</b>	View of the two 30-gallon, poly drums before open detonation.		





**OFFICIAL PHOTOGRAPH NO. 27**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

<b>TDD Number:</b>	TTEMI-05-001-0058	<b>Location:</b>	Woodbury Explosive
<b>Orientation:</b>	Southeast	<b>Date:</b>	May 23, 2008
<b>Photographer:</b>	Chris Draper, Tetra Tech	<b>Witness:</b>	OSC Carter Williamson, EPA
<b>Subject:</b>	Sign at the entrance to the Vulcan Materials Company quarry.		





**OFFICIAL PHOTOGRAPH NO. 28**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

<b>TDD Number:</b>	TTEMI-05-001-0058	<b>Location:</b>	Woodbury Explosive
<b>Orientation:</b>	Northeast	<b>Date:</b>	May 23, 2008
<b>Photographer:</b>	Chris Draper, Tetra Tech	<b>Witness:</b>	OSC Carter Williamson, EPA
<b>Subject:</b>	Tennessee Highway Patrol Special Operations personnel unload and prepare containers 1 and 2 (Attachment 1) for open detonation on the quarry floor.		



**OFFICIAL PHOTOGRAPH NO. 29**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

<b>TDD Number:</b>	TTEMI-05-001-0058	<b>Location:</b>	Woodbury Explosive
<b>Orientation:</b>	North	<b>Date:</b>	May 23, 2008
<b>Photographer:</b>	Chris Draper, Tetra Tech	<b>Witness:</b>	OSC Carter Williamson, EPA
<b>Subject:</b>	Pentex cast boosters used in conjunction with detonation cord to open detonate container number 2.		



**OFFICIAL PHOTOGRAPH NO. 30**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

<b>TDD Number:</b>	TTEMI-05-001-0058	<b>Location:</b>	Woodbury Explosive
<b>Orientation:</b>	North	<b>Date:</b>	May 23, 2008
<b>Photographer:</b>	Chris Draper, Tetra Tech	<b>Witness:</b>	OSC Carter Williamson, EPA
<b>Subject:</b>	Tennessee Highway Patrol Special Operations personnel wrap container number 2 in detonation cord in preparation for open detonation.		





**OFFICIAL PHOTOGRAPH NO. 31**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

<b>TDD Number:</b>	TTEMI-05-001-0058	<b>Location:</b>	Woodbury Explosive
<b>Orientation:</b>	North	<b>Date:</b>	May 23, 2008
<b>Photographer:</b>	Chris Draper, Tetra Tech	<b>Witness:</b>	OSC Carter Williamson, EPA
<b>Subject:</b>	Container number 2 as prepared for open detonation by Tennessee Highway Patrol Special Operations personnel.		



**OFFICIAL PHOTOGRAPH NO. 32**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

<b>TDD Number:</b>	TTEMI-05-001-0058	<b>Location:</b>	Woodbury Explosive
<b>Orientation:</b>	North	<b>Date:</b>	May 23, 2008
<b>Photographer:</b>	Chris Draper, Tetra Tech	<b>Witness:</b>	OSC Carter Williamson, EPA
<b>Subject:</b>	One and one-quarter pound bricks of C-4 used in conjunction with detonation cord to open detonate container number 1.		



**OFFICIAL PHOTOGRAPH NO. 33**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

<b>TDD Number:</b>	TTEMI-05-001-0058	<b>Location:</b>	Woodbury Explosive
<b>Orientation:</b>	North	<b>Date:</b>	May 23, 2008
<b>Photographer:</b>	Chris Draper, Tetra Tech	<b>Witness:</b>	OSC Carter Williamson, EPA
<b>Subject:</b>	OSC Williamson observes as Tennessee Highway Patrol Special Operations personnel prepare container number 1 for open detonation.		





**OFFICIAL PHOTOGRAPH NO. 34**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

<b>TDD Number:</b>	TTEMI-05-001-0058	<b>Location:</b>	Woodbury Explosive
<b>Orientation:</b>	North	<b>Date:</b>	May 23, 2008
<b>Photographer:</b>	Chris Draper, Tetra Tech	<b>Witness:</b>	OSC Carter Williamson, EPA
<b>Subject:</b>	Container number 1 as prepared for open detonation by Tennessee Highway Patrol Special Operations personnel.		



**OFFICIAL PHOTOGRAPH NO. 35**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

<b>TDD Number:</b>	TTEMI-05-001-0058	<b>Location:</b>	Woodbury Explosive
<b>Orientation:</b>		<b>Date:</b>	May 23, 2008
<b>Photographer:</b>	Chris Draper, Tetra Tech	<b>Witness:</b>	OSC Carter Williamson, EPA
<b>Subject:</b>	Container number 2 as open-detonated within the Vulcan Materials Company quarry by Tennessee Highway Patrol Special Operations personnel.		



**OFFICIAL PHOTOGRAPH NO. 36**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

<b>TDD Number:</b>	TTEMI-05-001-0058	<b>Location:</b>	Woodbury Explosive
<b>Orientation:</b>	South	<b>Date:</b>	May 23, 2008
<b>Photographer:</b>	Chris Draper, Tetra Tech	<b>Witness:</b>	OSC Carter Williamson, EPA
<b>Subject:</b>	Smoldering piece of 30-gallon, poly drum following open-detonation.		



## **APPENDIX D**

### **TABLE OF WITNESSES (One Page)**

**TABLE OF WITNESSES**  
**WOODBURY EXPLOSIVES RESPONSE SITE**  
**WOODBURY, CANNON COUNTY, TENNESSEE**

Mr. Carter Williamson  
Emergency Response and Removals Branch  
Federal On-Scene Coordinator  
U.S. Environmental Protection Agency  
61 Forsyth Street, S.W.  
Atlanta, GA 30303-8960  
Telephone No.: (404) 229-9507

Mr. Chris Draper  
Superfund Technical Assessment and Response  
Team  
Site Manager  
Tetra Tech EM Inc.  
712 Melrose Avenue  
Nashville, TN 37211  
Telephone No.: (615) 969-1334

Mr. Todd Taylor  
Emergency and Rapid Response Services  
Project Manager  
United States Environmental Services, LLC  
301 Old Stone Bridge Road  
Goodlettsville, TN 37072  
Telephone No.: (615) 870-4117

Mr. John B. Adcock, Jr.  
Criminal Investigation Division  
Special Agent in Charge  
U.S. Environmental Protection Agency  
Estes Kefauver Federal Building  
801 Broadway, Suite 312  
Nashville, TN 37203  
Telephone No.: (615) 736-2227

Ms. Faye G. Morse  
Office of Emergency Management  
Director  
Cannon County Emergency Management  
Agency  
32 Gassaway School Road  
Liberty, TN 37095  
Telephone No.: (615) 563-2026

Mr. Jeffery Travis  
Owner  
107 East Colonial Street  
Woodbury, TN 37190

Mr. Donald Jones  
Department of Commerce & Insurance  
Bomb and Arson Section  
State Fire Marshall's Office  
Special Agent  
1210 Foster Avenue  
Nashville, TN 37210  
Telephone No.: (615) 741-3030

Mr. J.W. Brown, III  
Bureau of Alcohol, Tobacco, Firearms, and  
Explosives  
U.S. Department of Justice  
Special Agent  
5300 Maryland Way  
Suite 200  
Brentwood, TN 37027  
Telephone No.: (615) 565-1272

Lt. Lee Chaffin, EMT-P  
Special Operations  
Supervisor  
Tennessee Highway Patrol  
225 Ezell Pike  
Nashville, TN 37217  
Telephone No.: (615) 741-5660

Mr. Leland "Buddy" Chaffin  
Meth Incident Response Specialist  
Tennessee Methamphetamine Task Force  
1110 Market Street  
Suite 332  
Chattanooga, TN 37402  
Telephone No.: (423) 752-1479

Mr. Tony Burnett  
City of Woodbury, Tennessee  
Chief of Police  
965 West Main Street  
Woodbury, TN 37190  
Telephone No.: (615) 563-5940

Vulcan Materials Company  
482 Hurst Lane  
Readyville, TN 37149  
(615) 563-2601

## **ATTACHMENT 1**

**PACKING LISTS COMPILED BY UNITED STATES ENVIRONMENTAL SERVICES, L.L.C.  
(Five Pages)**





UNITED STATES ENVIRONMENTAL SERVICES, L.L.C.

301 Old Stone Bridge Rd  
Goodlettsville, TN 37072  
(615) 870-0010

PAGE 1 OF 2

CONTAINER PACKING LIST

Container Type: <u>DM</u> (DM, DF, CY, BA)	UHMW #: _____
Size: <u>30</u> Gallon	Line #: _____
	Container #: <u>1</u>
Agency Address: _____	DOT Proper Shipping Name: _____
_____	UN/NA: _____ Haz Class: _____
_____	Packing Group: _____
Site Address: _____	Packed By: _____
_____	Date: <u>05-23-08</u>
_____	Material: _____
<b>JOB NUMBER:</b> _____	

# OF UNITS	Waste Description	SIZE	AMOUNT	PHYS STATE	INNER CONTAINER	WASTE CODE
1	THALLIUM, METAL	2 OZ	2 OZ.	S	P	
1	ARSENIC, METAL, CHUNK	4 OZ	4 OZ	S	P	
4	SODIUM AZIDE	1 P	1 P	S	P	
1	SODIUM AZIDE	1/2 P	1/2 P	S	P	
1	SODIUM FLORIDE	4 OZ	4 OZ	S	P	
1	POTASSIUM PERCHLORATE	12 OZ	12 OZ	S	P	
1	POTASSIUM PERCHLORATE	5 P	5 P	S	P	
2	LEAD ACETATE	1 1/2 P	1 1/2 P	S	P	
1	LEAD ACETATE	4 OZ	4 OZ	S	P	
2	DIXYLOX	1 OZ	1 OZ	L	G	
3	ALUMINUM POWDER	2 P	2 P	S	P	
1	ALUMINUM POWDER	1 G	1 G	S	GALLON BAG	
1	LEAD AZIDE	4 OZ	4 OZ	S	G	
2	POTASSIUM PERCHLORATE	2 P	2 P	S	P	
1	POTASSIUM PERCHLORATE	3 P	3 P	S	P	

Units of Measure	Physical State	Inner Container Description
G=GALLONS	S=SOLID	GLASS/METAL/PLASTIC/WOOD
OZ=OUNCES	L=LIQUID	CYLINDER (S/M/L)
P=POUNDS	A=GAS/AEROSOL	OTHER _____
T=TONS	Amount Measure	
CY=CUBIC YARDS	<1/10 full 1/2 full	Size of Container
GM=GRAMS	1/10 full 2/3 full	G=GALLON(S) QT=QUART
KG=KILOGRAMS	1/4 full 3/4 full	PT=PINT OZ=OUNCES
	1/3 full Full	OTHER _____



**301 Old Stone Bridge Rd  
Goodlettsville, TN 37072  
(615) 870-0010**

PAGE 2 OF 2

## CONTAINER PACKING LIST

Container Type: <u>DM</u> (DM, DF, CY, BA) Size: <u>30</u> Gallon	UHWM #: _____ Line #: _____ Container #: <u>1</u> _____
Agency Address: _____ _____ _____	DOT Proper Shipping Name: _____  UN/NA: _____ Haz Class: _____ Packing Group: _____
Site Address: _____ _____ _____	Packed By: _____ Date: <u>05-23-08</u> Material: _____
<b>JOB NUMBER:</b> _____	

# OF UNITS	Waste Description	SIZE	AMOUNT	PHYS STATE	INNER CONTAINER	WASTE CODE
1	FORMIC ACID	1 LITER	1 LITER	L	P	
1	ACETIC ACID, GLACIAL	1 LITER	1 LITER	L	P	

Units of Measure	Physical State	Inner Container Description
G=GALLONS	S=SOLID	GLASS/METAL/PLASTIC/WOOD
OZ=OUNCES	L=LIQUID	CYLINDER (S/M/L)
P=POUNDS	A=GAS/AEROSOL	OTHER _____
T=TONS	<b>Amount Measure</b>	
CY=CUBIC YARDS	<1/10 full    1/2 full	<b>Size of Container</b>
GM=GRAMS	1/10 full    2/3 full	G=GALLON(S)    QT=QUART
KG=KILOGRAMS	1/4 full    3/4 full	PT=PINT    OZ=OUNCES
	1/3 full    Full	OTHER _____



UNITED STATES ENVIRONMENTAL SERVICES, L.L.C.

301 Old Stone Bridge Rd

Goodlettsville, TN 37072

(615) 870-0010

**CONTAINER PACKING LIST**

Container Type: <u>DM</u> (DM, DF, CY, BA)	UHMW #: _____
Size: <u>30</u> Gallon	Line #: _____
	Container #: <u>2</u>
Agency Address: _____	DOT Proper Shipping Name: _____
	UN/NA: _____ Haz Class: _____
	Packing Group: _____
Site Address: _____	Packed By: _____
	Date: <u>05-23-08</u>
	Material: _____
<b>JOB NUMBER:</b> _____	

# OF UNITS	Waste Description	SIZE	AMOUNT	PHYS STATE	INNER CONTAINER	WASTE CODE
1	POTASSIUM CARBONATE	6 P	6 P	S	P	
1	PHENOL, LOOSE CRYSTALS	1/2 P	1/2 P	S	P	
1	SODIUM SILICATE	1 QT	1 QT	L	G	
1	POTASSIUM PERCHLORATE	16 OZ	16 OZ	S	P	
1	ALUMINUM POWDER	4 OZ	4 OZ	S	P	
1	LEAD SHOT	4 OZ	4 OZ	S	P	
1	SODIUM AZIDE	1/2 G	1/2 G	S	P	

Units of Measure	Physical State	Inner Container Description
G=GALLONS	S=SOLID	GLASS/METAL/PLASTIC/WOOD
OZ=OUNCES	L=LIQUID	CYLINDER (S/M/L)
P=POUNDS	A=GAS/AEROSOL	OTHER _____
T=TONS	<b>Amount Measure</b>	
CY=CUBIC YARDS	<1/10 full 1/2 full	<b>Size of Container</b>
GM=GRAMS	1/10 full 2/3 full	G=GALLON(S) QT=QUART
KG=KILOGRAMS	1/4 full 3/4 full	PT=PINT OZ=OUNCES
	1/3 full Full	OTHER _____





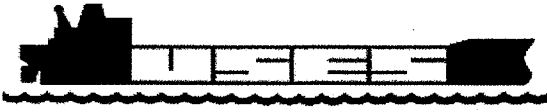
**301 Old Stone Bridge Rd  
Goodlettsville, TN 37072  
(615) 870-0010**

## CONTAINER PACKING LIST

Container Type: <u>Box</u> (DM, DF, CY, BA) Size: _____ Gallon	UHWM #: _____ Line #: _____ Container #: <u>3</u> DOT Proper Shipping Name: _____
Agency Address: _____ _____ _____	UN/NA: _____ Haz Class: _____ Packing Group: _____
Site Address: _____ _____ _____	Packed By: _____ Date: <u>05-23-08</u> Material: _____
<b>JOB NUMBER:</b> _____	

# OF UNITS	Waste Description	SIZE	AMOUNT	PHYS STATE	INNER CONTAINER	WASTE CODE
210	FUSES	20x20 Box	20 P	S		

Units of Measure	Physical State	Inner Container Description
G=GALLONS	S=SOLID	GLASS/METAL/PLASTIC/WOOD
OZ=OUNCES	L=LIQUID	CYLINDER (S/M/L)
P=POUNDS	A=GAS/AEROSOL	OTHER
T=TONS	Amount Measure	
CY=CUBIC YARDS	<1/10 full    1/2 full	Size of Container
GM=GRAMS	1/10 full    2/3 full	G=GALLON(S)    QT=QUART
KG=KILOGRAMS	1/4 full    3/4 full	PT=PINT    OZ=OUNCES
	1/3 full    Full	OTHER



**UNITED STATES ENVIRONMENTAL SERVICES, L.L.C.**

**301 Old Stone Bridge Rd**

**Goodlettsville, TN 37072**

**(615) 870-0010**

## CONTAINER PACKING LIST

Container Type: <u>Box</u> (DM, DF, CY, BA) Size: _____ Gallon	UHWM #: _____ Line #: _____ Container #: <u>4</u>
Agency Address: _____ _____ _____	DOT Proper Shipping Name: _____ UN/NA: _____ Haz Class: _____ Packing Group: _____
Site Address: _____ _____ _____	Packed By: _____ Date: <u>05-23-08</u> Material: _____
<b>JOB NUMBER:</b> _____	

# OF UNITS	Waste Description	SIZE	AMOUNT	PHYS STATE	INNER CONTAINER	WASTE CODE
42	FLARES	20x20 BOX	35 P	S		

Units of Measure	Physical State	Inner Container Description
G=GALLONS	S=SOLID	GLASS/METAL/PLASTIC/WOOD
OZ=OUNCES	L=LIQUID	CYLINDER (S/M/L)
P=POUNDS	A=GAS/AEROSOL	OTHER _____
T=TONS	Amount Measure	
CY=CUBIC YARDS	<1/10 full    1/2 full	Size of Container
GM=GRAMS	1/10 full    2/3 full	G=GALLON(S)    QT=QUART
KG=KILOGRAMS	1/4 full    3/4 full	PT=PINT    OZ=OUNCES
	1/3 full    Full	OTHER