



UNCLASSIFIED

BAGRAM AIRFIELD
ACME
LAB

Collection and Processing of IED Evidence

Presented By: Leroy Keith

The Overall Classification Of This Brief:
UNCLASSIFIED//FOR OFFICIAL USE ONLY

UNCLASSIFIED



Collection of IED Evidence

(EOD Personnel Only)

Find & Clear

- Find something suspicious, call EOD to render safe
- Collect ignition system, power supply and a sample of the explosive
- Collect other evidence that could be of value

Post-Blast

- Ensure personnel safety
- Collect a soil sample from the blast seat
- Collect the initiation system
 - i.e. command wire, cell phone, etc.
- Collect other evidence that could be of value



Proper Collection

- Wear gloves!
- Do not talk over the evidence
- Dry wet evidence before packaging
- Package in paper or plastic bags, clearly labeled
 - If packaged in plastic cut small holes in the corners to prevent bacteria growth
- Take notes/photographs of the scene and where evidence was collected from
- Make sure everything is rendered safe!



What to Collect

Accepted Items

- IED components, igniters, pressure plates
- Powders, liquids, drugs and residue (samples only)
- Firearms, magazines, cartridges
 - Do not unload magazines
- Cigarette butts
- Skin samples
- 10 print cards
- Major crime cards
- DNA buccal swabs
- Bloody clothing (dry first)
- Cell phones, cameras, computers
- Documents and propaganda

Items NOT Accepted

- Body parts
 - Take a swab to obtain DNA and fingerprints if possible
- Urine samples
- IED Initiators

**Make sure evidence
is DRY!**



Submission to the ACME Lab

- Fill out a DD Form 4137 and DA Form 2922

EVIDENCE/PROPERTY CUSTODY DOCUMENT		MPC/ICD SEQUENCE NUMBER		
For use of this form see AR 190-45 and AR 195-5; the proponent agency is US Army Criminal Investigation Command				
RECEIVING ACTIVITY Task Force Red Knight		LOCATION Bagram Air Field (BAF)		
NAME, GRADE AND TITLE OF PERSON FROM WHOM RECEIVED <input type="checkbox"/> OWNER LEP Craig McCastlin		ADDRESS (include Zip Code) LEP Office Bagram Air Field APO AE 09354		
LOCATION FROM WHERE OBTAINED MGRS: 42S WD2330067100 Province: Parwan District: Bagram		REASON OBTAINED ISAF detainee processing	TIME/DATE OBTAINED DTG: 120019May11	
ITEM NO.	QUANTITY	DESCRIPTION OF ARTICLES (include model, serial number, condition and unusual marks or scratches)		
1	1	DNA (buccal) swab from Mickey Mouse s/o Donald Duck (detainee # 123456)		
2	2	Major case fingerprints (FBI card and palm prints) from Mickey Mouse s/o Donald Duck (detainee # 123456)		
3	3	Afghan clothing (pants, shirt, vest) from Mickey Mouse s/o Donald Duck (detainee # 123456)		
4	1	DNA (blood) swab from Tweety Bird s/o Yosemite Sam (detainee # 654321)		
5	2	Major case fingerprints (FBI card and palm prints) from Tweety Bird s/o Yosemite Sam (detainee # 654321)		
6	3	Afghan clothing (pants, shirt, vest) from Tweety Bird s/o Yosemite Sam (detainee # 654321)		
7	1	DNA (buccal) swab from Pluto s/o Snoopy (detainee # 789456)		
8	5	Major case fingerprints (FBI card and palm prints) from Pluto s/o Snoopy (detainee # 789456)		
XXX	XXX	*****NOTHING FOLLOWS*****		
CHAIN OF CUSTODY				
ITEM NO.	DATE	RELEASED BY	RECEIVED BY	PURPOSE OF CHANGE OF CUSTODY
1-8	19May11	SIGNATURE NAME, GRADE OR TITLE Lisa Ford (Evidence Custodian)	SIGNATURE NAME, GRADE OR TITLE	Transfer to ACME-B for exploitation
		SIGNATURE NAME, GRADE OR TITLE	SIGNATURE NAME, GRADE OR TITLE	
		SIGNATURE NAME, GRADE OR TITLE	SIGNATURE NAME, GRADE OR TITLE	
		SIGNATURE NAME, GRADE OR TITLE	SIGNATURE NAME, GRADE OR TITLE	
		SIGNATURE NAME, GRADE OR TITLE	SIGNATURE NAME, GRADE OR TITLE	

DA FORM 4137, 1 JUL 1976
Replaces DA FORM 4137, 1 Aug 74 and DA FORM 4137-1, Privacy Act Statement 28 Sep 75 Which are Obsolete
LOCATION _____ DOCUMENT NUMBER _____ APO PEV130

FORENSIC LABORATORY EXAMINATION REQUEST			
1. TO: Director <input type="checkbox"/> USACIL 4930 N. 31st Street Forest Park, GA 30097-5205 <input type="checkbox"/> Other (Specify):	2. FROM:	4. EXAM PRIORITY <input type="radio"/> ROUTINE <input type="radio"/> EXPEDITE <input type="checkbox"/> Trial/Article 32/39A (*) <input type="checkbox"/> Subject in pre-trial confinement <input type="checkbox"/> Subject pending PCS/ Separation/Reenlist (*) <input type="checkbox"/> Other (Specify in Block 13) *Date _____	5. LAB USE ONLY a. LAB CASE # b. METHOD OF RECEIPT c. RECEIVED BY/DATE
3. RETURN EVIDENCE TO:		6. SUBMITTING AGENCY CASE NUMBER	
9. PREVIOUS EVIDENCE SUBMITTED DATE: _____ MAIL METHOD: _____ LAB CASE #: _____ SUSPECT(S): _____		7. TYPE OF OFFENSE	
9. SUSPECT(S) (Last, first and middle name(s))		10. VICTIM(S) (Last, first and middle name(s))	
11. BRIEF DESCRIPTION (SYNOPSIS) OF CASE FACTS THAT MIGHT ASSIST THE LABORATORY IN EXAMINING OR EVALUATING THE EVIDENCE OR ADDITIONAL DOCUMENTATION ATTACHED (e.g., Summary of investigation, crime scene sketches/photographs, statements)			
12. EVIDENCE SUBMITTED			
a. EXHIBIT		b. DESCRIPTION OF EXHIBIT	

DD FORM 2922, JUL 2006
REPLACES DA FORM 3655, AF FORM 1880, AND NCS FORM 5585/23, WHICH ARE OBSOLETE. Adobe Designer 7.0

available at www.army.mil/uspa

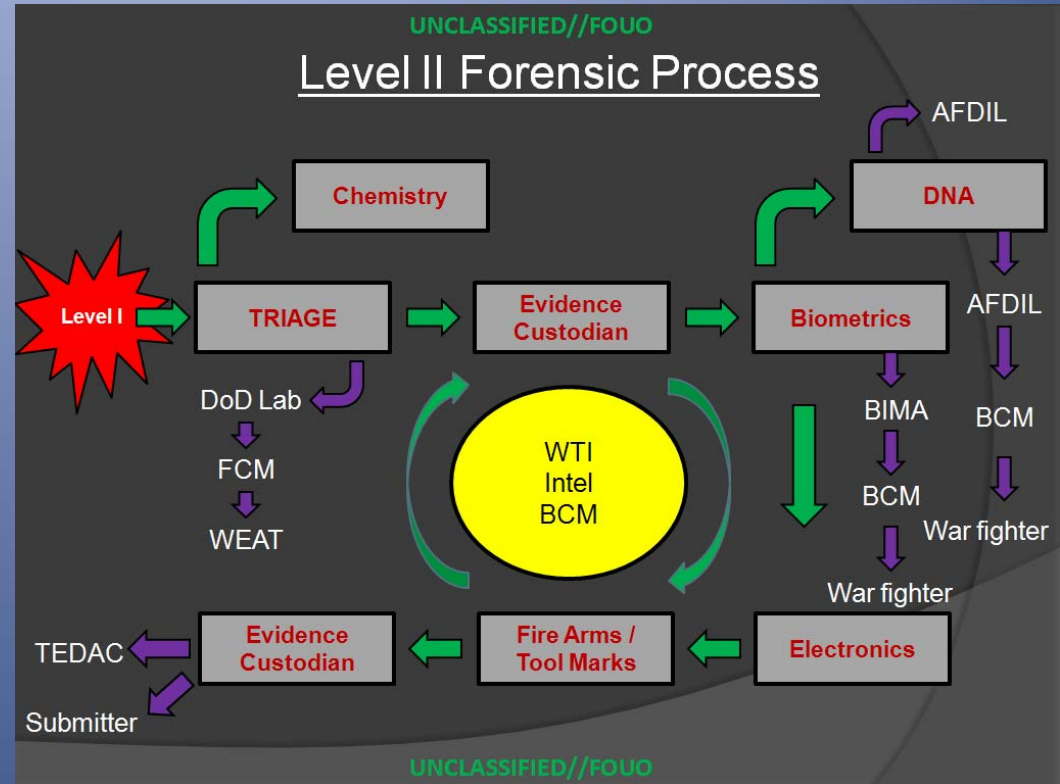


Transport to Lab

- Special Handling
 - Air Cargo (Operation Maderek)
- Hand Delivery
- Registered Mail
 - Bagram: CJTF 1CD, ACME-B Lab, APO AE 09354, DODACC: W80JRD
 - Kandahar: EFL-KAF, Attn: Evidence Custodian, APO AE 09355
 - Leatherneck: EFL-L/JEFF7, Attn: Evidence Custodian, Camp Leatherneck, FPO AE 09372

Lab Processing

- Triage
- Evidence
- Chemistry
- Latent Prints
- DNA
- Electronics
- Firearms & Toolmarks
- Intelligence
- Disposition



Triage

- Receives all evidence
- X-rays all closed objects
- Ensures safe removal of all explosive hazards
- Creates WEAT report
- Verifies Level I reports
- Transfers samples to Chemistry section
- Transfers all other evidence to Evidence section





Evidence Custodian

- Creates master exhibit list
- Assigns cases
- Tracks evidence
- Ensures proper chain of custody
- Sends evidence to TEDAC
- Returns evidence to submitter

Chemistry

CAN-26
Fertilizer



- Receives samples directly from Triage
- Identifies:
 - Fuel components
 - HME precursors
 - Drugs
 - Unknown Substances

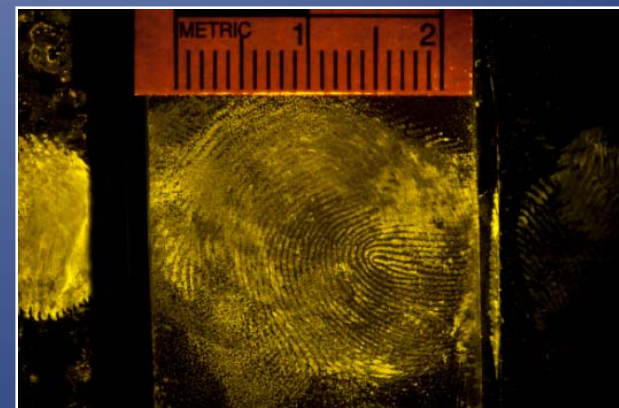


Match heads –
source of potassium
chlorate



Latent Prints

- Photographs evidence as received
- Visually looks for latent prints
- Superglue fumes then visually examines
- Removes any tape
- Swabs for DNA
- Processes with chemicals then visualizes with an alternate light source
- Photographs any latent prints
- Sends suitable latents to BIMA



DNA



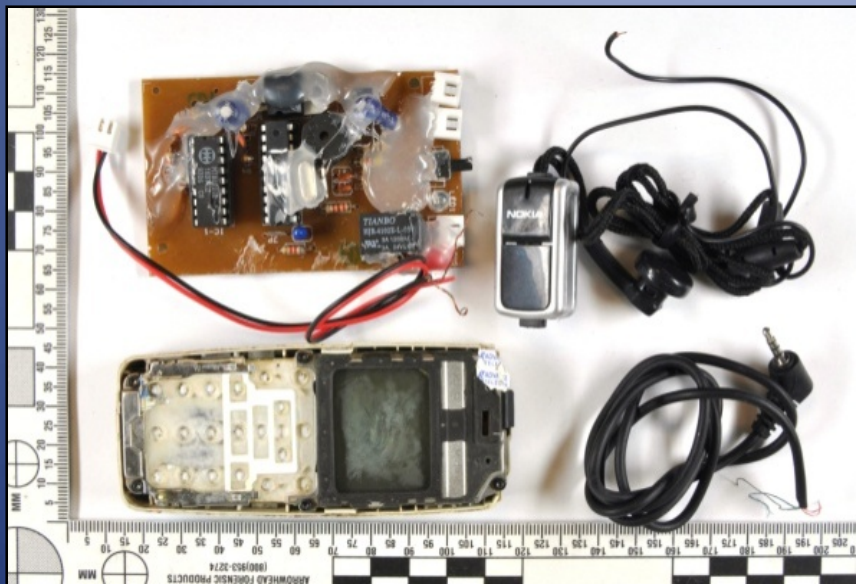
- Extracts DNA
- Quantifies DNA
- Amplifies DNA
- Develops DNA profile using a genetic analyzer
- Compares profiles to suspects
- Uploads profiles to database



DNA can be extracted from
all of these mediums

Electronics

Mobile Phone with DTMF Board



- Identify IED electronic components to assess design and function
- Collect technical information on IED's electronic and mechanical construction

Firearms & Toolmarks



- Identifies caliber of bullets used as frag
- Compares toolmarks left on IED evidence
 - Determines type of tool
- Identifies make, model, caliber, country of origin of firearms
- Compare manufacturing marks



Intelligence

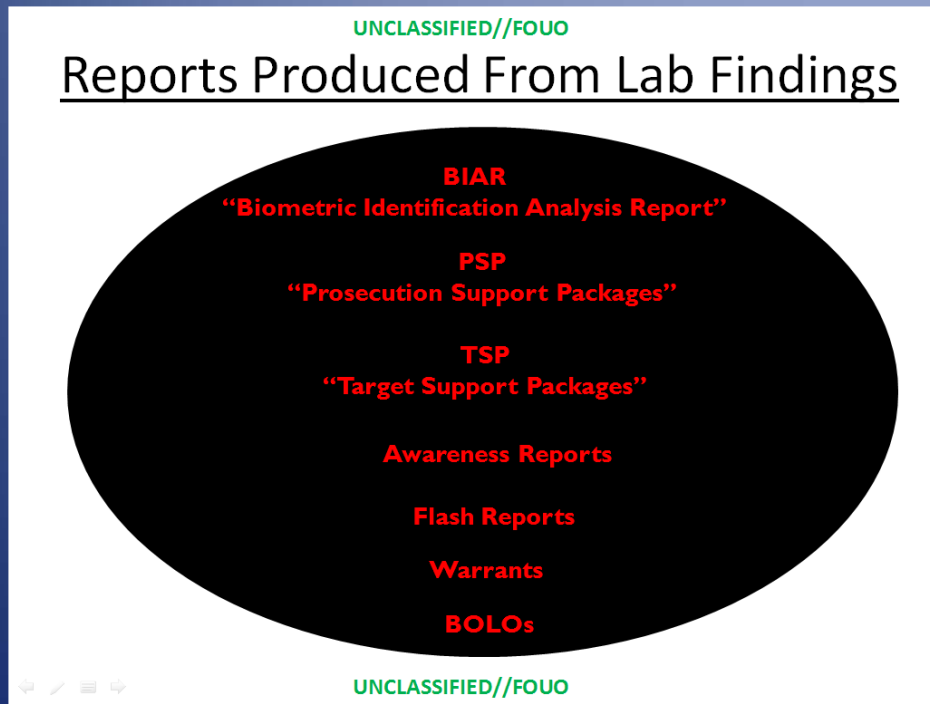
Weapons Technical Intelligence

- Provides information and analyses of IED's
- Provides route and area analyses
- Profiles all IED switches

Biometric Case Manager & Intelligence Analyst

- Provides biometric support for force protection and targeting
- Creates high priority biometric match storyboards
- Disseminates snapshot of biometric enrollments

Final Reports



- Section reports are reviewed internally then by command
- After final review by command they are available to the submitter
- Other reports are generated based on lab findings



Disposition of Evidence

- Evidence section transfers processed evidence to:
 - TEDAC for further processing (Trace and EE)
 - The submitter for prosecution or disposal
- In some instances sections can request to keep a piece of evidence for training purposes

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Questions?

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