OFFICE OF THE DIRECTOR



## UNITED STATES DEPARTMENT OF JUSTICE

FEDERAL BUREAU OF INVESTIGATION

WASHINGTON, D.C. 20535

September 21, 1976

Mr. Emory L. Brown, Jr. 82 Squankum Road Howell, New Jersey 07731

Dear Mr. Brown:

This is in reference to your letter dated August 24, 1976, to Mr. Jay Cochran, Jr., Assistant Director of the FBI Laboratory Division. This response is being handled by the Freedom of Information-Privacy Acts (FOIPA) Section since your inquiry pertains to documents furnished in regard to your previous FOIPA request.

As you have previously been advised, the FOIPA does not provide for interpretation of disclosed documents. It only provides for searching of an agency's records to locate documents. We have provided you with all known documents pertaining to this matter.

As you were advised in my letter dated September 17, 1976, the testimonies of the FBI Agents who conducted these examinations are printed in the "Hearing Before the President's Commission on the Assassination of President Kennedy." The testimony of Special Agent Robert A. Frazier may help to answer your questions.

Sincerely yours,

Clarence M. Kelley Director



·( 🚳 RECORDED 11**/2**9/63 FEDERAL BUREAU OF INVESTIGATION UNITED STATES DEPARTMENT OF JUSTICE Laboratory Work Sheet File # (2-109060 - 239 Re: ASSASSINATION OF PRESIDENT JOHN F. KENNEDY, 11/22/63 DALLAS, TEXAS Lab. #PC-78318 GH AFO FBI, BALLAS (69-43) Letter 11/27/63 Examination requested by: **Examination requested:** Date received: Spectrographic' 11/27 ram **Result of Examination:** Examination by: GALLAGHER Q53 (A) Back of right hand (B) Frant ar poly sode night (C) Bach of left hand (D) Felm at Front side of left he (E) Long and narrow section a (F) hong triangleser ser - Side of left . (G). This also for right chuch Specimens submitted for examination Even plastic bags, each containing one piece of a paraffin cast **Q**53 Paper envelope in which paraffin cast of right hand of Lee Harvey Gawald was brought to Dallas City-County Criminal Investigation Q54 Laboratory Paper envelope in which paraffin cast of left hand of Lee Harvey Q55 Oswald was brought to Dallas City-County Criminal Investigation Laboratory Paper envelope in which paraffin east of right side of face of Lee **Q**56 Harvey Oswald was brought to Ballas City-County Criminal Investigation Laboratory Paper sack in which seven pieces of paraffin casts were placed Q57 Q58 Paper sack Copy of report dated 11/23/63, of Ballas City-County Also Submitted: Criminal Investigation Laboratory regarding examination of paraffin casts of right side of face, left hand and K Y right hand of Oswald

REPORT of the



## FEDERAL BUREAU OF INVESTIGATION WASHINGTON. D. C.

FBI, Dallas Tot

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Casper Callahan Conrad DeLoch F.... ms , Gale . Rose

Sullivan Tave! Trotter Tele. Room Holmes mdy

Re: LEE HARVEY OSVALD 18 - R

March 6, 1964 Date: FBI File No. 105-82555 Lab. No. PC-78318 GH

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### Specimens received 11/27/63

## PARAFFIN CASTS FROM LEE HARVEY OSWALD

( ) ⑧

Q53A Back of right hand Q53B Front or palm side of right hand Q53C Back of left hand Q53D Front or yalm side of left hand Q531 Long marrow section side of right thumb Q537 Long triangular section side of left thumb Q53G Thin slab from right check

Q54 Paper envelope in which paraffin cast of right hand of Lee Harvey Oswald was brought to Dallas City-County Criminal Investigation Laboratory

Q55 Paper envelope in which paraffin cast of left hand of Lee Harvey Oswald was brought to Dallas City-County Criminal Investigation Laboratory

Paper envelope in which paraffin cast of right side of Q56 face of Lee Harvey Oswald was brought to Dallas City-County Criminal Investigation Laboratory

Paper sack in which seven pieces of paraffin casts were Q57 Q58 Paper sack of the type in which the casts from Oswald

were stored from 11/23/63, to 11/27/63

## Results of examination:

The paraffin casts, Q53A through Q53G, were analyzed by neutron activation analyses to determine if these paraffin casts from Oswald, which were made, chemically treated and washed by the Dallas law enforcement authorities bore any doposita which could be specifically associated with the rifle cartridge cases found in the Texas School Book Depository Building following the President's assassination. As a

Page 1

(continued on next page)

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result of these examinations, the deposits found on the paraffin casts from the hands and cheek of Oswald could not be specifically associated with the rifle cartridges. Blements (barium and antimony) were found on the casts; however, these same elements were found in powder residues both from the above rifle cartridge cases and from the revolver cartridge cases which were fired from Ouwald's revolver reportedly between the time of the assassingtion and the time of apprehension.

No characteristic elements were found by neutron activation analyses which could be used to distinguish the rifle from the revolver cartridges.

In view of the fact that the paraffin casts were not made until after the reported firing and handling of the fired revolver, no significance could be attached to the residues found on the casts other than the conclusion that barium and antimony in these residues are present in amounts greater than would be expected to be found on the hands of an individual who has not recently fired a weapon er handled a fired weapon.

No identifiable particles of powder residues were found in the envelopes and sacks, Q54 through Q58.

The submitted evidence is being retained.

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Addendum: Mr. William S. Lyon, Dr. Frank F. Dyer and Mr. Joel F. Emery all of Union Carbide Corporation, Oak Ridge, Tennessee, who have studied data from Oswald's casts concurred in conclusion of this Laboratory report.

Page 3 PC-78318 GH

246 report 12/3/63 . ( 7-7 RECORDED FEDERAL BUREAU OF INVESTIGATION 11/26/53 KO UNITED STATES DEPARTMENT OF JUSTICE Laboratory Work Sheet Pe: ASSASSINATION OF PRESIDENT File # 715252 JOHN F. KENNEDY Lab. \* PC-TICH BX HB Examination requested by: U. S. SECRET SERVICE Examination requested: Firearms (G & A) -Date received: 11/23 Spectro Result of Examination: Examination by: FRAZIER Fleeting of John around had in Jack of -ESIBERGER 9-25 shirt and 9 22 cont remain taken of coffee Xang of 9 22, 9 24 and 9 25 - motions sig. Hecter of Shin around had in Q-24 the and men hetter at meet of shart i ( from ) me time of Coffee on lead. Duthay My. Received 11/23/63 from SA Orin Bartlett Q19. Pair of black moccasin shoes Q20 Pair of black socks Q21 - Q22 Trousers and coat Q23 . Belt Q24 Necktle

Q25 Shirt

Q26 Han dkerchief

- 027 Comb
- Q28
- Bandages and belt 029 White shorts

٢ Ser 2170 ESULTS BY 10:30 A /14/64 EXPEDITE /9/64 FEDERAL BUREAU OF INVESTIGATION **zh** UNITED STATES DEPARTMENT OF JUSTICE Laboratory Work Sheet Re: ASSASSINATION OF PRESIDENT JOHN F. ERANEDY, BALLAS, TEXAS, 11/22/64 File # 62-109060 -7870 Lab. # PC-80185 ERT HR Monorable J. Lood Rankin Letter 4/9/64 General Counsel The President's Commission 200 Maryland Avenue, Northeast Examination requested by: Washington, D. C. 20002 Examination requested: Firearms (Guns & Ammun.) Date received: 4/9/64 pd **Spectrographic Result of Examination:** Examination by: Fraster Evidence personally delivered by Special Agent Robert N. Meill of the FBI Laboratory/ on 4/9/64 Nit The cost, trance is shirt and the me mininghilly examined. Ho foreign deposite of metal mene for tomen and shul. Specimens submitted for examination Black suit coat worm by Governor John Connelly **Q566 C3**11 Q567 CB12 Black suit trousers worn by Gorvernor John Connelly White dress shirt worm by Governor John Connelly 9568 **C313** The - nothing représente 0589 **C314** They Soft Xing of Lo. #2- 9566 cool. With Free - Nitor 12 KV 30 ru X 6 mm. - too les 120 Me Kenne gund IZXV an metal server,

Tu port 12/5/63

Becorded 13/2/63

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FEDERAL BUREAU OF INVESTIGATION UNITED STATES DEPARTMENT OF JUSTICE

Laboratory Work Sheet

Re:

ABSASSINATION OF PRESIDENT JOHN 7. KERKEDI, 11/22/63 DALLAS, TEXAS File # Lab. #

 $( \mathbb{P}^{1})$ 

PC-78339 BX JY 6+4

Examination requested by:

Examination requested:

**Result of Examination:** 

K47,987+988 to 6++ 1-/2

MAC, Ballas (89-63)

20

Firearns (guns and saud Ricroscopic (fibers)

(let 11/30) Date received: 11/30/63 sex Examination by: Stombaugh

Specimens submitted for examination

442- Gray jacket 971) Four .38 caliber cartridges casings 9 Four .35 caliber cartridges 9 Five .38 caliber cartridges 9 For Le Coultre wrist watch 0 For Monie anime

Tu port 12/5/63

Becorded 13/2/63 box FEDERAL BUREAU OF INVESTIGATION UNITED STATES DEPARTMENT OF JUSTICE

Laboratory Work Sheet

Re:

ASSASSINATION OF PRESIDENT JOHN 7. KERKEDY, 11/22/63 DALLAS, TEXAS ATO File # Lab. # **PC-78339 BX JV** 6++

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Examination requested by:

Examination requested:

**Result of Examination:** 

K47,987+988 to 6++ 1-/~

## MAC, Ballas (89-63)

Firearns (guns and amon Microscopic (fibers) (let 11/30) Date received: 11/30/63 acz Examination by: 77mmier Stombaugh

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Specimens submitted for examination

ray Jaci 38 caliber cartridges casings .38 galiber earteid .38 calibor cartridges 7170 Coultre wrist watch 985 HO.

19 (00) (\*\*\*\* 7-2 EXPEDITE 2/12/64 FEDERAL BUREAU OF INVESTIGATION sh UNITED STATES DEPARTMENT OF JUSTICE 3/3/164 Laboratory Work Sheet **62-109060** 2798 Re: ARSASSINATION OF PRESIDENT JOHN FITZGERALD File # KENNEDY, NOVEMBER 22, 1963, DALLAS, TEXAS; Lab. # MISCELLANEOUS INFORMATION CONCERNING PC-79846 HI HB Examination requested by: FBI, Dallas (100-10561) Airtel 3/14/64 Examination requested: Firearms (Guns & Ammun.) Date received: 3/16/64 hw *Mpectrographic* Examination by: **#Frazier** Belystock **Result of Examination:** Specimens submitted for examination Bullet from Officer Tippit.(No. 1) Bullet from Officer Tippit (No. 2) Bullet from Officer Tippit (No. 3) C25 **Q**500 **Q**501 P2.50 Q502 C253 Enter attender

## FEDERAL BUREAU OF INVESTIGATION UNITED STATES DEPARTMENT OF JUSTICE

Laboratory Work Sheet

Re: ASSASSINATION OF PRESIDENT JOHN F. KENNEDY, 11/22/63 DALLAS, TEXAS AFO

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FBI, DALLAS (89-43) Letter 11/27/63

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File #

Lab. #1

Examination requested: Spectrographic Date received: 11/27 ram Result of Examination:

(B) Frant ar pan sode night hand (B) Frant ar pan sode night hand (C) Bach of left hand (C) Bach of left hand (P) Fran at Front side of left hand put of night thunk (E) Long and narrow Section - side of left chink (F) hang triangles realized - side of left chink (G) I This alst from right chuch

Specimens submitted for examination

253 Seven plastic bags, each containing one piece of a paraffin cast 254 Paper envelope in which paraffin cast of right find of Lee Harvey Oswald was brought to Dallas City-County Criminal Investigation

J55 Paper envelope in which paraffin cast of left hand of Lee Harvey Oswald was brought to Dallas City-County Criminal Investigation Laboratory

256 Paper envelope in which paraffin cast of right side of face of Lee Harvey Oswald was brought to Dallas City-County Criminal Investigation Laboratory

257 Paper sack in which seven pieces of paraffin casts were placed 258 Paper sack

ilso Submitted:

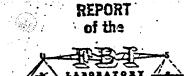
RECORDED

Examination requested by:

29/63

Copy of report dated 11/23/63, of Dallas City-County Criminal Investigation Laboratory regarding examination of paraffin casts of right side of face, left hand and right hand of Oswald

SAMPLES From L. H.O (C 41) mg Ba MgSb A) Back of right hand 3.23 .065 Control Coutside surface any franslein 0.14 0.23 right B) Pilm side right-hand Forefinger 3.20 .034 124 ·015 3.48 1051 E) side of right thinks Specks Scraping 124 .072 -34\_\_\_ 039 .412 133 C Back of left hand scragings •95 . . 018 D Palm aid left hand scrapings 2.01 • OZ 6 F hong sotten side of lift think control (away from skii) 0.24 .020 0.28 029 G Seals from check (check side Control (curray from check 0.30 .015 0:47 .012



# FEDERAL BUREAU OF INVESTIGATION WASHINGTON, D. C.

FBI, Dallas 

Dater March 6, 1964 FBI File No.

Lab. No.

LIE HARVEY CSHALD 

## PARAFFIN CASTS FROM LIE HARVEY OSVALD

Q534 Back of right hand C533 Front or pala side of right hand Q530 Back of left hand Q53D Front or palm side of left hand Q533 Long narroy section side of right thumb Q53F Long triangular section side of left thumb . .. Q536 Thin slab from right cheek

Q54 Paper envelope in which paraffin cast of right hand of Lee Harvey Oswald was brought to Ballas City-County Criminal Investigation Laboratory

Paper envelope in which paraffin cast of left hand of Lee Harvey Oswald was brought to Dallas City-County Criminal Investigation Lacoratory

Q56 Paper envelope in which parailin cast of right side of face of Lee Harvey Cawald was brought to Dallas City-County Criminal Investigation Laborator, Q57 Paper sack in which seven nieces of parai in casts were

started stored from 11/23/63, to 11/27/63

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. . .

Q58 Paper sack of the type in which the casts from Cowald were stored from 11/23/63, to 11/27/63

Results of examination:

. . . The paraffin casts, Q53A through Q53G, were analyzed by neutron activation analyses to determine if these parafiin casts from Oswald, which were made; chemically treated and vashed by the Dallas law enforcement authorities bore any coposits which couldbe specifically associated with the rifle cartridge cases found in the Texas School Book Depository Building following the President's assassination. As a 

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result of these examinations, the deposits found on the paraffin casts from the hands and cheek of Oswald could not be specifically associated with the rifle cartridges. Elements (barium and antimony) were found on the casts; however, these same elements were found in powder residues both from the above rifle cartridge cases and from the revolver cartridge cases which were fired from Oswald's revolver reportedly between the time of the assassination and the time of apprehension. \_\_\_\_\_ and the second second

ACCOUNTS &

2/82

No characteristic elements were found by neutron activation analyses which could be used to distinguish the rifle from the revolver cartridges. 

In view of the fact that the paraffin casts were not made until after the reported firing and handling of the fired revolver, no significance could be attached to the residues found on the casts other than the conclusion that barium and antimony in these residues are present in amounts greater than would be expected to be found on the hands of an individual who has not recently fired a weapon or handled a fired weapon. 

No identifiable particles of powder residues were found in the envelopes and sacks, Q54 through Q58.

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The submitted evidence is being retained. 

RECORDED 11/26/83 KO

## FEDERAL BUREAU OF INVESTIGATION UNITED STATES DEPARTMENT OF JUSTICE

Laboratory Work Sheet

Pe: ASSASSINATION OF PRESIDENT JOHN F. KENNEDY

File # Lab. #	PC-720-12 BX	HE	2
		-	•

Examination requested by: U. S. SECRET SERVICE

Spectro

Excation requested: Firearms (G & A) -

Date received: 11/23

Result of Examination: Examination by Tection of fatile around date in lach of Q-25 shirt and Q 22 cont revend . the n of \$ 22, \$ 24 and \$ 25 - -Afection of fahrer and had in Q-24 the the specimens submitted for examination rof lo

Received 11/23/63 from SA Oria Bartlett

Pair of black moccasin shoes Q19 920 Pair of black socks Q21 Q22 Trousers and coat Q23 . Belt 024 Necktie . Q25 Shirt Han dkerchief Q26 027 Comb G28 Bandages and belt 629 White shorts

(\* \* \* (\* \* 3 11/25/03 922 Con - and dots . 1 plui ent G# er

C O ·• 11/25/23 25 shirt / pour and the Y -10. and an ny

(JFK Coat & shit. While. 11/25/05 Q22 Coat, Outrido Back St #1+3 JA 4/10 · 1 Ca MI SI Ki \_ Fr Cloth Seffor t 00 0 Clathe & Mend U 0 ち ath and 1/4/1 o the 士 U Clith bytom ち Ű U Claramed Kylob. D. Ù Q22 lout meide - living I shi SA#1+#3 JA 4×10 2 Fi PI MK en Cont line with. 4 Ø ٥ Cost lim clittand I for 土 0. 0 Cont demin cloth & blood た 0 Ű that let U ÷t. .0 that with mentality + C Ű 0 that dolland blood 亡 - you

( ( ( 1 11/20 9.25 shird for £ ol ny Al of ~ 1#3 4/10 5 e Clethe of itent ta "lit and had both wh 2 Al Kand 2 1 - and hals tolake "letter, him souted ? Il goter and for they My -fin

1-2 **EXPEDIT** 4/9/64 FEDERAL BUREAU OF INVESTIGATION sh UNITED STATES DEPARTMENT OF JUSTICE Laboratory Work Sheet Re: ASSASSINATION OF PRESIDENT JOHN F. 62-109060-2870 File # KENNEDY, DALLAS, TEXAS, 11/22/64 PC-80185 #BX HR Lab. # . Honorable J. Leef Rankin Letter 4/9/64 General Counsel The President's Commission 200 Maryland Avenue, Northeast Examination requested by: Washington, D. C. 20002 • Examination requested: Firearms (Guns & Amoun.) Date received: 4/9/54 pd Spectrographic Result of Examination: Examination by: - 34 1.1 Evidence personally delivered by Special Agent of the FHI Laboratory/ on 4/9/64 he cost, trouver -; shirt and the. ind. Roforiga deprita of the shath suit u and shut Specimens submitted for examination Black suit coat worn by Governor John Connelly Q566 - C311 -Black suit trousers worn by Gorvernor John Connelly 9567 C312 White dress shirt worn by Governor John Connelly Q568 **C313** " C314 Tie - intin ruga Q569 with French J. 72m 12 XV Jon Kemm. nRV 120 million monte ron.

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Socorded 13/2/53	UNITED STATES DE	AU OF INVESTIGATION EPARTMENT OF JUSTICE Work Sheet	
Re: ASSAS	SIMATICH OF PRESIDENT	File #	
DALLA AFO	s, 75149		<b>.</b>
Examination rec		Date : no and approx	lat 11/30) received: 11/30/63 new ination by:

Kun 987+ 988 to 6++ 12/2

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**Result of Examination:** 

Specimens submitted for examination

-KH2 da	ay jackst	• • •		
	Four 38	caliber	cartridges	casings
- <b>Q Z</b> - <b>Z</b>	Tour .33	callbar	cartridges	سيهما ا
Q	Five 38	caliber	cartridgus	•
074	Coultre W	rist vat	ci	• •

. • Cal Cu+Ay Q89 GT Ag 987 . N. -2 Nit C.+ <u>987</u> 3 Fe But at Alt Pot 51+ C.L ч est Cut Cat Cat 5 1) From Surface of Watch (beck of weld 2) From 3) From metel bushle (walk Stay 5. Prin Vac u 1. 2. 2. 2. Pa  $\leq 1$ Pc-78339 12/3/63 Fith

3/13/64 sh UI		FEDERAL BUREAU OF INVESTIGAT NITED STATES DEPARTMENT OF JU			
		Laboratory Work Sheet	•	3/3//04	
KENNEDY, NOVEMBE		PRESIDENT JOHN FITZGERALI R 22, 1963, DALLAS, TEXAS; FORMATION CONCERNING		62-109060 2798 PC-79846 BX HB	
			· .		
Examination requested by: Examination requested:		FBI, Dallas (100-10561)	Airt	el 3/14/64	
		Firearms (Guns & Ammun.)	Date rece	ived:	
		Spectrographic	Examinat	Examination by:	

EXPEDITE

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Specimens submitted for examination

 ;	trady v	•/*	Q500	C251	-Builet	from	Officar	Tippit.	(No.	-1)	
۰.			Q501	C252	Bullst	from	Officer	Tippit	(No.	2)	
			Q502	C253	Bullet	from	Officer	Tippit	(No.	3)	

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3/22/64 SA#1 4X13 JA ر متر Inton. 30 see thypan SEPBSICU Q F. M. K. Sn 15 +++-= 15 - ± 9:500 0 C251 -6253 9-502  $\mathcal{Q}$ C-13 13 c.51 9 78 C 79 9 t 1t 2-52 た + 9 82 C-55 س من 9 83 - 56 9 84 57 Q 85 :58 986 - 59 : 137 9177 5-501 ± 525E Zer Bellits = 80 | : 53 R-P 981 : 54 -138 0178 Coffer facher ha んん Zente 1 hilled L Copper Jacket bullets - laad similar to each other/lead bullet similar To each other EU\_ 9-29-76

