



South Carolina Law Enforcement Division
 Forensic Services Laboratory
 CHAIN OF CUSTODY

Laboratory Case Number: L21-09074 Page 8 of 12 ¹³ ^{my 27/6/22} MU
 Agency of Origin: SLED
 Agency Case Number: 31-21-0061

ITEM #	QTY	DESCRIPTION OF ITEMS
	1	Buccal swab set from Rogan Gibson

Item #	Date	Relinquished By	Received By	Comments
	6/9/21	Printed Name: <u>Jeff Croft</u> Signature: <i>[Signature]</i>	Printed Name: <u>Melinda A. Worley</u> Signature: <i>[Signature]</i>	
		Printed Name: Signature:	Printed Name: Signature:	
		Printed Name: Signature:	Printed Name: Signature:	
		Printed Name: Signature:	Printed Name: Signature:	

Issuing Authority: Quality Manager

Page 1 of 1

SLED Forensics Form # FSA 049, January 2014





South Carolina Law Enforcement Division
 Forensic Services Laboratory
 CHAIN OF CUSTODY

Laboratory Case Number: L21-09074 Page 9 of 12 MW^{13 MW 2/16/22}
 Agency of Origin: SLED
 Agency Case Number: 31-21-0061

ITEM #	QTY	DESCRIPTION OF ITEMS
1	1	Buccal Swab - Claude Rowe #1

Item #	Date	Relinquished By	Received By	Comments
1	6/9 2021	Printed Name Blake Johnson	Printed Name Melinda A. Warden	
		Signature <i>[Signature]</i>	Signature <i>[Signature]</i>	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	

Issuing Authority: Quality Manager

Page 1 of 1

SLED Forensics Form # FSA 049, January 2014





South Carolina Law Enforcement Division
 Forensic Services Laboratory
 CHAIN OF CUSTODY

Laboratory Case Number: L21-09074 Page 10 of 12 ¹³ _{may/16/22} MM
 Agency of Origin: SLED → SLED
 Agency Case Number: _____

ITEM #	QTY	DESCRIPTION OF ITEMS
	1	Digital photographs of Shotgun in Lab

Item #	Date	Relinquished By	Received By	Comments
	6/10/21 1103	Printed Name: <u>Todd Schenk</u> Signature:	Printed Name: <u>Melinda A. Worley</u> Signature:	
		Printed Name: _____ Signature: _____	Printed Name: _____ Signature: _____	
		Printed Name: _____ Signature: _____	Printed Name: _____ Signature: _____	
		Printed Name: _____ Signature: _____	Printed Name: _____ Signature: _____	

Issuing Authority: Quality Manager

Page 1 of 1

SLED Forensics Form # FSA 045, January 2014



RECEIPT FOR PROPERTY		SLED CASE NUMBER			
		31-21-0031			
S.C. LAW ENFORCEMENT DIVISION		LOCATION OF FIRST TRANSFER			
Signature of Person from whom Property is Obtained <input type="checkbox"/> Owner <input type="checkbox"/> Other		Address (Include Zip Code)			
Signature of Owner Voluntarily Submitting Items		4100 BUX MOSELLE RD, SUMMERTON, SC			
Origin of Property					
PROPERTY BY FOND NEAR MOSELLE RD					
Purpose for Which Obtained					
EVIDENCE COMPARISON					
ITEM #	QTY	DESCRIPTION OF ITEMS			
1	8	12 GAUGE SHOT SHELLS			
2	20	300 TAKUMOUT CARTRIDGE CASES			
I Certify That I Have Received The Articles Listed Above					
Date	Name	Signature			
CHAIN OF CUSTODY					
ITEM #	DATE	RELINQUISHED BY	RECEIVED BY	PURPOSE OF CHANGE OF CUSTODY	LOCATION OF TRANSFER
1+2	6/14/21	Name: <u>BRITTA OWEN</u> Signature: <u>[Signature]</u>	Name: <u>Todd Schenk</u> Signature: <u>[Signature]</u>	4100 BUX MOSELLE RD	TRANSPORT TO LAB
	6/16/21	Name: <u>Todd Schenk</u> Signature: <u>[Signature]</u>	Name: <u>Melinda A. Worley</u> Signature: <u>[Signature]</u>		
		Name: _____ Signature: _____	Name: _____ Signature: _____		
		Name: _____ Signature: _____	Name: _____ Signature: _____		

L21-09074 Page 11 of 12 ^{13 mg} 2/19/22 ^{mm}

Form # CF-004 (Rev. 8-30-06)



RECEIPT FOR PROPERTY		SLED CASE NUMBER 21-21-0061			
S.C. LAW ENFORCEMENT DIVISION LOWCOUNTRY		LOCATION OF FIRST TRANSFER			
Signature of Person from whom Property is Obtained <input type="checkbox"/> Owner <input type="checkbox"/> Other		Address (Include Zip Code)			
Signature of Owner Voluntarily Submitting Items					
Origin of Property					
Purpose for Which Obtained INVESTIGATION					
ITEM #	QTY	DESCRIPTION OF ITEMS			
1	2	DNA SAMPLES, BUCCAL SWABS - MICHAEL DAVID LEST			
I Certify That I Have Received The Articles Listed Above					
Date 6.16.21	Name RYAN KELLY	Signature <i>[Signature]</i>			
CHAIN OF CUSTODY					
ITEM #	DATE	RELINQUISHED BY	RECEIVED BY	PURPOSE OF CHANGE OF CUSTODY	LOCATION OF TRANSFER
1	6-17-21	Name R. KELLY Signature <i>[Signature]</i>	Name C. GIBBS Signature <i>[Signature]</i>	TRANSFER	SLED LOWCOUNTRY OFFICE
1	6-17-21	Name C. GIBBS Signature <i>[Signature]</i>	Name DANN OWEN Signature <i>[Signature]</i>	TRANSFER	SLED LOWCOUNTRY OFFICE
1	6-21-21	Name DANN OWEN Signature <i>[Signature]</i>	Name Melinda A. Worley Signature <i>[Signature]</i>	TRANSFER	SLED HQ
		Name Signature	Name Signature		

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Form # CF-004 (Rev. 3-30-06)





South Carolina Law Enforcement Division
 Forensic Services Laboratory
 CHAIN OF CUSTODY

Laboratory Case Number: L21-09074 Page 13 of 13 MW
 Agency of Origin: SLED
 Agency Case Number: _____

ITEM #	QTY	DESCRIPTION OF ITEMS
		IR photos of Items 21 and 142 taken at the lab on 9/1/21

Item #	Date	Relinquished By	Received By	Comments
	9/1/21	Printed Name: <u>Todd Schenk</u> Signature:	Printed Name: <u>Melinda A. Worley</u> Signature:	
		Printed Name: _____ Signature: _____	Printed Name: _____ Signature: _____	
		Printed Name: _____ Signature: _____	Printed Name: _____ Signature: _____	
		Printed Name: _____ Signature: _____	Printed Name: _____ Signature: _____	

Issuing Authority: Quality Manager

Page 1 of 1

SLED Forensics Form # FSA 049, January 2014





**SLED LABORATORY
 FORENSIC SERVICES REQUEST
 SUBMISSION RECEIPT**

SLED LAB No. L21-09074 *MW*
 Submission: 3/6/8/2021 5:05:34PM

Name of Investigating officer: <u>David Owen, III</u>	Agency ID: <u>SCLED0000</u>
Agency: <u>South Carolina Law Enforcement Division</u> Phone No: <u>737-9000</u>	Agency Case No: <u>31210061</u>
Fax No: _____ Email: <u>dowen@sled.sc.gov</u>	Offense: <u>HOMICIDE</u>
Mailing Address: <u>4400 Broad River Road</u>	County: <u>Colleton</u>
City / State / Zip: <u>Columbia, SC 29210</u>	Offense Date: <u>08/07/2021</u>
CC: _____	Officer Involved Shooting <input type="checkbox"/> Yes
	Priority: <input type="checkbox"/> Yes

Is this evidence related to another lab number?
 Yes No
 If yes, Lab Number: _____

SLED ITEM No. LAB ONLY	Agency Item No.	Description of Evidence	Analysis Requested
23		Buccal swab - From Margaret Murdaugh	DNA - Known Standard
24		Buccal swab - From Paul Murdaugh	DNA - Known Standard
25		Miscellaneous - One (1) iPhone cell phone black in color with clear case	DNA - Touch LP - Latents

Witness(s)	Sex	Race	DOB	SSN
Richard Murdaugh	M	W		

Victim(s) Deceased	Sex	Race	DOB	SSN
Paul Murdaugh	M	W		
Margaret Murdaugh	F	W		

Comments

All sealed evidence packages accepted by the laboratory are assumed to contain what they are "said to contain" by the submitter. The laboratory does not conduct a detailed inventory of evidence package contents during the evidence intake process.





**SLED LABORATORY
FORENSIC SERVICES REQUEST
SUBMISSION RECEIPT**

SLED LAB No. <u>L21-09074</u> <i>rw</i>
Submission: <u>3/6/8/2021 5:05:34PM</u>

Submitted and Maintained by :

A handwritten signature in black ink, appearing to read "Todd Schenk".

Lt. Todd Schenk
SLED Crime Scene Investigation Unit

COURTESY OF
LUNA SHARK MEDIA

Printed: 06/08/2021 17:05

Page 2 of 2 *TAS*





**SLED LABORATORY
 FORENSIC SERVICES REQUEST
 SUBMISSION RECEIPT**

SLED LAB No. L21-09074 MU
 Submission: 4/6/9/2021 11:21:50PM

Name of Investigating officer: <u>David Owen, III</u>	Agency ID: <u>SCLED0000</u>
Agency: <u>South Carolina Law Enforcement Division</u> Phone No.: <u>737-8000</u>	Agency Case No.: <u>31210061</u>
Fax No.: _____ Email: <u>dowen@sled.sc.gov</u>	Offense: <u>HOMICIDE</u>
Mailing Address: <u>4400 Broad River Road</u>	County: <u>Colleton</u>
City / State / Zip: <u>Columbia, SC 29210</u>	Offense Date: <u>06/07/2021</u>
CC: _____	Officer Involved Shooting <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	Priority: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Is this evidence related to another lab number?
 Yes No
 If yes, Lab Number: _____

SLED ITEM No LAB ONLY	Agency Item No.	Description of Evidence	Analysis Requested
26 J		Buccal swab - One (1) set of buccal swabs collected from Anthony Cook	DNA - Known Standard
27 J		Buccal swab - One (1) set of buccal swabs collected from Roger Davis	DNA - Known Standard
28 J		Buccal swab - One (1) set of buccal swabs collected from Rogan Gibson	DNA - Known Standard
29 J		Buccal swab - One (1) set of buccal swabs collected from Claude (C.B.) Rowe	DNA - Known Standard
30		Shotgun - One (1) Mossberg Model 835 Ulti-Mag shotgun (S/N: UM813411) (previously on pool table) with one (1) unfired 12GA shotshell	DNA - Blood FA - Firearms LP - Latents
31		Shotgun - One (1) Browning Auto-5 Light Vector + Special Steel 12GA shotgun (S/N: 03867NV211)	DNA - Blood FA - Firearms LP - Latents
32		Shotgun - One (1) Benelli Super Black Eagle 2 12 GA shotgun (S/N: U39114B) with strap and two (2) unfired shotshells headstamped "WINCHESTER 12 GA" and "12 GA FEDERAL"	DNA - Blood FA - Firearms LP - Latents
33 K		Rifle - One (1) Palmetto State Amory PSA PA-15 MULTI rifle (S/N: PA068237) with "Pulsar" night vision scope	DNA - Blood FA - Firearms LP - Latents
34 K		Firearm accessory (scope, sling, magazine) - One (1) metal 30 round magazine containing unknown amount of "S&B .300 AAC BLK" cartridges collected from PSA rifle (S/N: PA068237)	DNA - Blood FA - Firearms LP - Latents
35 L		Cartridge case(s) - One (1) cartridge case headstamped "S&B .300 AAC BLK" collected from ground at side entrance door	FA - Firearms

Printed: 06/09/2021 23:22

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**SLED LABORATORY
 FORENSIC SERVICES REQUEST
 SUBMISSION RECEIPT**

SLED LAB No. L21-09074 MU
 Submission: 4/6/9/2021 11:21:50PM

SLED ITEM No LAB ONLY	Agency Item No.	Description of Evidence	Analysis Requested
36 L		Cartridge case(s) - One (1) cartridge case headstamped "S&B .300 AAC BLK" collected from ground at side entrance door	FA - Firearms
37 L		Cartridge case(s) - One (1) cartridge case headstamped "S&B .300 AAC BLK" collected from ground at side entrance door	FA - Firearms
38 L		Cartridge case(s) - One (1) cartridge case headstamped "S&B .300 AAC BLK" collected from ground at side entrance door	FA - Firearms
39 L		Cartridge case(s) - One (1) cartridge case headstamped "S&B .300 AAC BLK" collected from ground at side entrance door	FA - Firearms
40 M		Unfired cartridges and shotshells - One (1) unfired cartridge headstamped "S&B .300 AAC BLK" collected from Remington 20GA shotgun shell box from shelving near gun storage rack	EC - Storage
41 M		Unfired cartridges and shotshells - Three (3) unfired cartridges headstamped "R-P .243 WIN" collected from gun storage room	EC - Storage
42 M		Unfired cartridges and shotshells - One (1) Black Cloud Steel 12 GA shotgun shell collected from gun shelving area in gun storage room	EC - Storage
43 M		Unfired cartridges and shotshells - One (1) black 12 GA shotgun shell headstamped "12GA Made in USA" collected from gun shelving area in gun storage room	EC - Storage
44 M		Unfired cartridges and shotshells - One (1) Heavy Weight TSS FEDERAL 12 GA shotgun shell collected from box on gun shelving in gun storage room	EC - Storage
45		Packaging - One (1) empty 20 round box of "S&B .300 AAC BLK" FMJ ammunition collected from gun storage room	EC - Storage
46 Z		Packaging - One (1) empty "Browning TSS 12 GAUGE AMMUNITION" box collected from the trash at 4147 Moselle Rd., Islandton, SC	EC - Storage
47 Z		Packaging - One (1) empty "WINCHESTER 12 GAUGE SHOT-LOK LEAD TURKEY LOAD" ammunition box collected from the trash at 4147 Moselle Rd., Islandton, SC	EC - Storage
48 Z		Packaging - One (1) empty "FEDERAL 12 GAUGE HEAVYWEIGHT TSS TURKEY SHOTSHELLS" box collected from the trash at 4147 Moselle Rd., Islandton, SC	EC - Storage





**SLED LABORATORY
 FORENSIC SERVICES REQUEST
 SUBMISSION RECEIPT**

SLED LAB No. L21-09074 AWJ
 Submission: 4/8/2021 11:21:50PM

SLED ITEM No. LAB ONLY	Agency Item No.	Description of Evidence	Analysis Requested
49 N		Shredded document - Shredded paperwork collected from the trash at 4147 Moselle Rd., Islandton, SC	EC - Storage
50		Unfired cartridges and shotshells - One (1) unfired shotshell headstamped "WINCHESTER 12 GA" collected from rear driver side floorboard of Chevy Suburban	EC - Storage
51 O		Swab(s) - Two (2) swabs suspected blood (BS+) collected from lock/unlock buttons on driver's door (Chevy Suburban)	DNA - Blood
52 O		Swab(s) - Two (2) swabs suspected blood (BS+) collected from driver's door arm rest (Chevy Suburban)	DNA - Blood
53 O		Swab(s) - Two (2) swabs suspected blood (BS+) collected from driver's side running board below driver's door (Chevy Suburban)	DNA - Blood
54 O		Swab(s) - Two (2) swabs suspected blood (BS+) collected from driver's floorboard (Chevy Suburban)	DNA - Blood
55 O		Swab(s) - Two (2) swabs suspected blood (BS+) collected from front edge of driver's seat (Chevy Suburban)	DNA - Blood
56 O		Swab(s) - Two (2) swabs suspected blood (BS+) collected from steering wheel (Chevy Suburban)	DNA - Blood
57 O		Swab(s) - Two (2) swabs suspected blood (BS+) collected from center of driver's seat back (Chevy Suburban)	DNA - Blood
58 O		Swab(s) - Two (2) swabs suspected blood (BS+) collected from front passenger door above arm rest (Chevy Suburban)	DNA - Blood
59 O		Swab(s) - Two (2) swabs suspected blood (BS+) collected from front passenger seat bottom (Chevy Suburban)	DNA - Blood
60 O		Swab(s) - Two (2) swabs suspected blood (BS+) collected from front passenger seat back (Chevy Suburban)	DNA - Blood
61 P		Swab(s) - Two (2) swabs suspected blood (BS+) collected from driver's door above arm rest (Ford F250)	DNA - Blood
62 P		Swab(s) - Two (2) swabs suspected blood (BS+) collected from door side corner of driver's seat bottom (Ford F250)	DNA - Blood
63 P		Swab(s) - Two (2) swabs suspected blood (BS+) collected from door side edge of front passenger seat bottom (Ford F250)	DNA - Blood





**SLED LABORATORY
 FORENSIC SERVICES REQUEST
 SUBMISSION RECEIPT**

SLED LAB No. L21-09074 *mw*
 Submission: 4/6/9/2021 11:21:50PM

SLED ITEM No. LAB ONLY	Agency Item No.	Description of Evidence	Analysis Requested
64 <i>P</i>		Swab(s) - Two (2) swabs suspected blood (BS+) collected from front passenger side seat back (Ford F250)	DNA - Blood
65		Unfired cartridges and shotshells - Ten (10) unfired cartridges headstamped "S&B .300 AAC BLK" collected from center console of Ford F250	EC - Storage

Elimination(s)	Sex	Race	DOB	SSN
Anthony Cook	M	W		
Roger Davis	M	W		
Rogan Gibson	M	W		
Claude (C.B.) Rowe	M	W		

Witness(s)	Sex	Race	DOB	SSN
Richard Murdaugh	M	W		

Victim(s) Deceased	Sex	Race	DOB	SSN
Paul Murdaugh	M	W		
Margaret Murdaugh	F	W		

Comments

All sealed evidence packages accepted by the laboratory are assumed to contain what they are "said to contain" by the submitter. The laboratory does not conduct a detailed inventory of evidence package contents during the evidence intake process.

Submitted and Maintained by :

Melinda A. Worley
 SLED Crime Scene Investigation Unit

Printed: 06/09/2021 23:22

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**SLED LABORATORY
 FORENSIC SERVICES REQUEST
 SUBMISSION RECEIPT**

SLED LAB No. L21-09074 NWJ
 Submission: 8/6/16/2021 11:27:29AM

Name of Investigating officer: <u>David Owen, III</u>	Agency ID: <u>SCLED0000</u>
Agency: <u>South Carolina Law Enforcement Division</u> Phone No: <u>737-9000</u>	Agency Case No: <u>31210061</u>
Fax No: _____ Email: <u>dowen@sled.sc.gov</u>	Offense: <u>HOMICIDE</u>
Mailing Address: <u>4400 Broad River Road</u>	County: <u>Colleton</u>
City / State / Zip: <u>Columbia, SC 29210</u>	Offense Date: <u>06/07/2021</u>
CC: _____	Officer Involved Shooting <input type="checkbox"/> Yes
	Priority: <input type="checkbox"/> Yes

Is this evidence related to another lab number?
 Yes No
 If yes, Lab Number: _____

SLED ITEM No LAB ONLY	Agency Item No.	Description of Evidence	Analysis Requested
106 AA		Swab(s) - Two swabs for touch DNA collected from the interior driver's door release (Mercedes GLS 450)	EC - Storage
107 AA		Swab(s) - Two swabs for touch DNA collected from the exterior driver's door release (Mercedes GLS 450)	EC - Storage

LUNA SHARPE





**SLED LABORATORY
 FORENSIC SERVICES REQUEST
 SUBMISSION RECEIPT**

SLED LAB No. L21-09074 MM
 Submission: 8/6/16/2021 11:27:29AM

Elimination(s)	Sex	Race	DOB	SSN
Anthony Cook	M	W		
Roger Davis	M	W		
Rogan Gibson	M	W		
Claude (C.B.) Rowe	M	W		
Connor Cook	M	W		
Morgan Dougherty	F	W		
Phillip Beach	M	W		
Renee Beach	F	W		
Robin Beach	F	W		
John Murdaugh	M	W		
Richard Alexander Murdaugh Jr.	M	W	06/16/2021	
Richard Alexander Murdaugh	M	W	06/16/2021	
Randy Murdaugh	M	W		
Miley Altman	F	W		

Witness(s)	Sex	Race	DOB	SSN
Richard Murdaugh	M	W		

Victim(s) Deceased	Sex	Race	DOB	SSN
Paul Murdaugh	M	W		
Margaret Murdaugh	F	W		

Comments

All sealed evidence packages accepted by the laboratory are assumed to contain what they are "said to contain" by the submitter. The laboratory does not conduct a detailed inventory of evidence package contents during the evidence intake process.





**SLED LABORATORY
FORENSIC SERVICES REQUEST
SUBMISSION RECEIPT**

SLED LAB No. L21-09074 <i>MW</i>
Submission: 8/6/2021 11:27:29AM

Submitted and Maintained by :

A handwritten signature in black ink that reads "Melinda A. Worley".

Melinda A. Worley
SLED Crime Scene Investigation Unit

COURTESY OF
LUNA SHARK MEDIA

Printed: 06/16/2021 11:27

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**SLED LABORATORY
 FORENSIC SERVICES REQUEST
 SUBMISSION RECEIPT**

SLED LAB No. L21-09074 NU
 Submission: 9/6/17/2021 1:46:11PM

Name of Investigating officer: <u>David Owen, III</u>	Agency ID: <u>SCLED0000</u>
Agency: <u>South Carolina Law Enforcement Division</u> Phone No: <u>737-9000</u>	Agency Case No: <u>31210061</u>
Fax No: _____ Email: <u>dowen@sled.sc.gov</u>	Offense: <u>HOMICIDE</u>
Mailing Address: <u>4400 Broad River Road</u>	County: <u>Colleton</u>
City / State / Zip: <u>Columbia, SC 29210</u>	Offense Date: <u>06/07/2021</u>
CC: _____	Officer Involved Shooting <input type="checkbox"/> Yes
	Priority: <input type="checkbox"/> Yes

Is this evidence related to another lab number?
 Yes No
 If yes, Lab Number.

SLED ITEM No. LAB ONLY	Agency Item No.	Description of Evidence	Analysis Requested
..108 AB		Cartridge case(s) - One (1) cartridge case headstamped "S&B 300 AAC BLK" collected from to the left of shooting chair (near field)	FA - Firearms
..109 AB		Cartridge case(s) - One (1) cartridge case headstamped "S&B 300 AAC BLK" collected from right front corner (near field)	FA - Firearms
..110 AB		Cartridge case(s) - One (1) cartridge case headstamped "S&B 300 AAC BLK" collected from in front of shooter's chair under table (near field)	FA - Firearms
..111 AB		Cartridge case(s) - One (1) cartridge case headstamped "S&B 300 AAC BLK" collected from in front of chair at table (near field)	FA - Firearms
..112 AB		Cartridge case(s) - One (1) cartridge case headstamped "S&B 300 AAC BLK" collected from under shooting table (near field)	FA - Firearms
..113 AB		Cartridge case(s) - One (1) cartridge case headstamped "S&B 300 AAC BLK" collected from in front of right shooting table leg (near field)	FA - Firearms
..114 AB		Cartridge case(s) - One (1) cartridge case headstamped "S&B 300 AAC BLK" collected from near right leg of shooting table in front of chair (near field)	FA - Firearms
..115 AB		Cartridge case(s) - One (1) cartridge case headstamped "S&B 300 AAC BLK" collected from the front of and to the right of shooting table leg (near field)	FA - Firearms
..116 AB		Cartridge case(s) - One (1) cartridge case headstamped "S&B 300 AAC BLK" collected from to the right halfway between leg and wall (near field)	FA - Firearms

Printed: 06/17/2021 13:46

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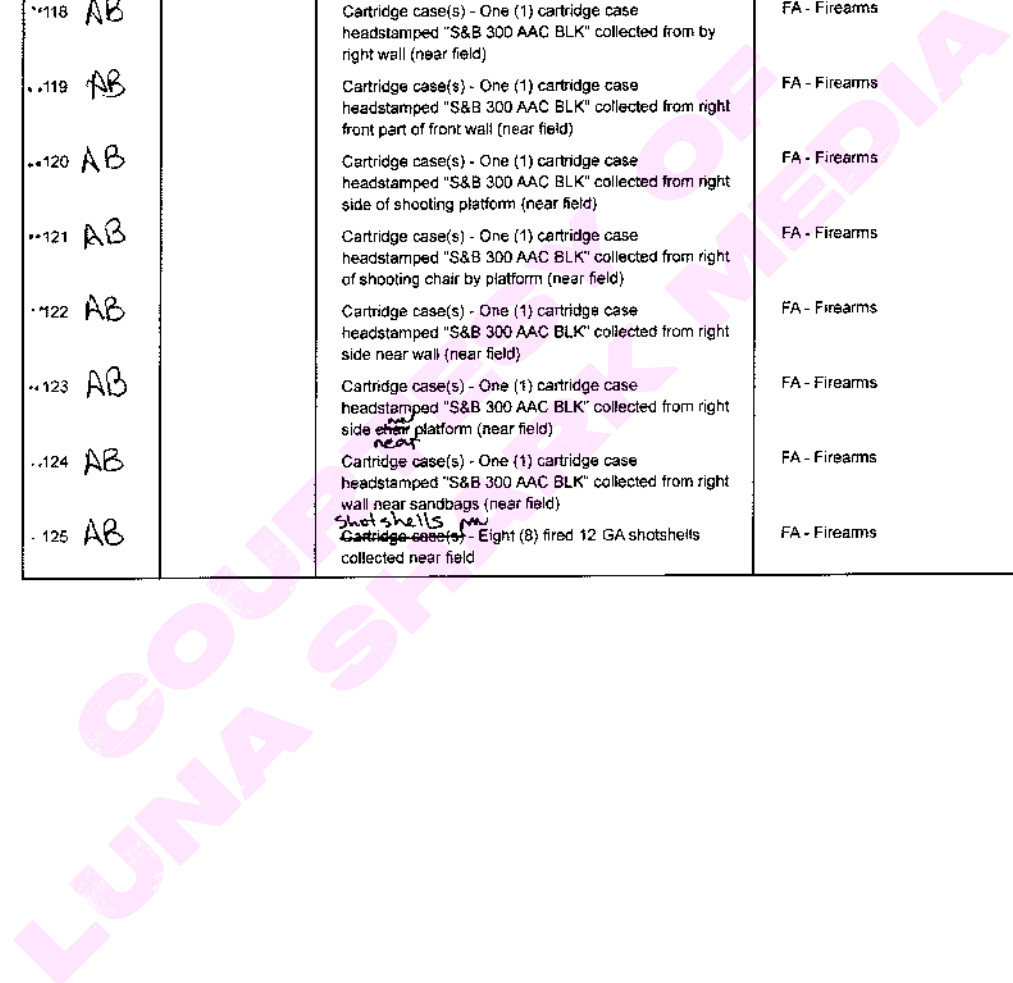




**SLED LABORATORY
 FORENSIC SERVICES REQUEST
 SUBMISSION RECEIPT**

SLED LAB No. L21-09074
 Submission: 9/6/17/2021 1:46:11PM

SLED ITEM No LAB ONLY	Agency Item No.	Description of Evidence	Analysis Requested
**117 AB		Cartridge case(s) - One (1) cartridge case headstamped "S&B 300 AAC BLK" collected from near right leg of shooting table near chair (near field)	FA - Firearms
**118 AB		Cartridge case(s) - One (1) cartridge case headstamped "S&B 300 AAC BLK" collected from by right wall (near field)	FA - Firearms
**119 AB		Cartridge case(s) - One (1) cartridge case headstamped "S&B 300 AAC BLK" collected from right front part of front wall (near field)	FA - Firearms
**120 AB		Cartridge case(s) - One (1) cartridge case headstamped "S&B 300 AAC BLK" collected from right side of shooting platform (near field)	FA - Firearms
**121 AB		Cartridge case(s) - One (1) cartridge case headstamped "S&B 300 AAC BLK" collected from right of shooting chair by platform (near field)	FA - Firearms
**122 AB		Cartridge case(s) - One (1) cartridge case headstamped "S&B 300 AAC BLK" collected from right side near wall (near field)	FA - Firearms
**123 AB		Cartridge case(s) - One (1) cartridge case headstamped "S&B 300 AAC BLK" collected from right side ^{near} chair platform (near field)	FA - Firearms
**124 AB		Cartridge case(s) - One (1) cartridge case headstamped "S&B 300 AAC BLK" collected from right wall near sandbags (near field)	FA - Firearms
**125 AB		Cartridge case(s) - Eight (8) fired 12 GA shotshells collected near field	FA - Firearms





**SLED LABORATORY
 FORENSIC SERVICES REQUEST
 SUBMISSION RECEIPT**

SLED LAB No. L21-09074 *MW*
 Submission: 9/6/17/2021 1:46:11PM

Elimination(s)	Sex	Race	DOB	SSN
Anthony Cook	M	W		
Roger Davis	M	W		
Rogan Gibson	M	W		
Claude (C.B.) Rowe	M	W		
Connor Cook	M	W		
Morgan Dougherty	F	W		
Phillip Beach	M	W		
Renee Beach	F	W		
Robin Beach	F	W		
John Murdaugh	M	W		
Richard Alexander Murdaugh Jr.	M	W	REDACTED	
Richard Alexander Murdaugh	M	W	REDACTED	
Randy Murdaugh	M	W		
Miley Altman	F	W		

Witness(s)	Sex	Race	DOB	SSN
Richard Murdaugh	M	W		

Victim(s) Deceased	Sex	Race	DOB	SSN
Paul Murdaugh	M	W		
Margaret Murdaugh	F	W		

Comments

All sealed evidence packages accepted by the laboratory are assumed to contain what they are "said to contain" by the submitter. The laboratory does not conduct a detailed inventory of evidence package contents during the evidence intake process.





**SLED LABORATORY
FORENSIC SERVICES REQUEST
SUBMISSION RECEIPT**

SLED LAB No. L21-09074 <i>mw</i>
Submission: 9/6/17/2021 1:46:11PM

Submitted and Maintained by :

A handwritten signature in black ink that reads "Melinda A. Worley".

Melinda A. Worley
SLED Crime Scene Investigation Unit

COURTESY OF
LUNA SHARK MEDIA

Printed: 06/17/2021 13:46

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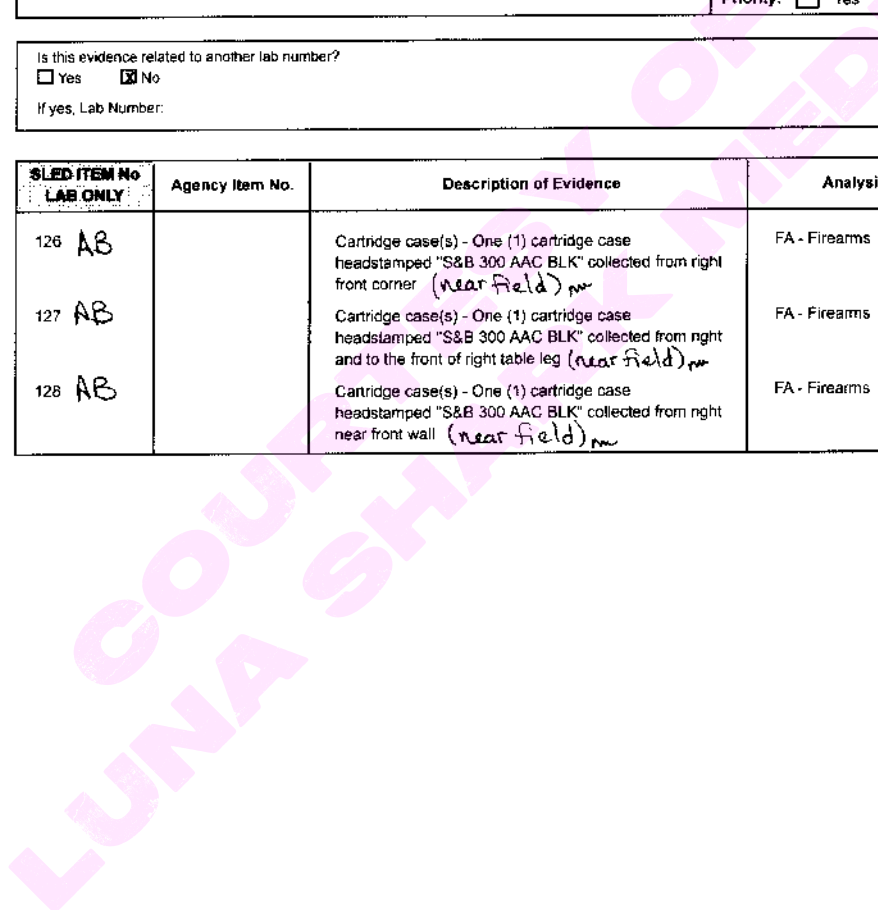
**SLED LABORATORY
 FORENSIC SERVICES REQUEST
 SUBMISSION RECEIPT**

SLED LAB No. L21-09074 *MW*
 Submission: 10/6/17/2021 3:52:34PM

Name of Investigating officer: <u>David Owen, III</u>	Agency ID: <u>SCLED0000</u>
Agency: <u>South Carolina Law Enforcement Division</u> Phone No: <u>737-9000</u>	Agency Case No: <u>31210061</u>
Fax No: _____ Email: <u>dowen@sled.sc.gov</u>	Offense: <u>HOMICIDE</u>
Mailing Address: <u>4400 Broad River Road</u>	County: <u>Colleton</u>
City / State / Zip: <u>Columbia, SC 29210</u>	Offense Date: <u>06/07/2021</u>
CC: _____	Officer Involved Shooting <input type="checkbox"/> Yes
	Priority: <input type="checkbox"/> Yes

Is this evidence related to another lab number?
 Yes No
 If yes, Lab Number: _____

SLED ITEM No LAB ONLY	Agency Item No.	Description of Evidence	Analysis Requested
126 AB		Cartridge case(s) - One (1) cartridge case headstamped "S&B 300 AAC BLK" collected from right front corner (near field) <i>mw</i>	FA - Firearms
127 AB		Cartridge case(s) - One (1) cartridge case headstamped "S&B 300 AAC BLK" collected from right and to the front of right table leg (near field) <i>mw</i>	FA - Firearms
128 AB		Cartridge case(s) - One (1) cartridge case headstamped "S&B 300 AAC BLK" collected from right near front wall (near field) <i>mw</i>	FA - Firearms





**SLED LABORATORY
 FORENSIC SERVICES REQUEST
 SUBMISSION RECEIPT**

SLED LAB No. L21-09074 MMJ
 Submission: 10/6/17/2021 3:52:34PM

Elimination(s)	Sex	Race	DOB	SSN
Anthony Cook	M	W		
Roger Davis	M	W		
Rogan Gibson	M	W		
Claude (C.B.) Rowe	M	W		
Connor Cook	M	W		
Morgan Dougherty	F	W		
Phillip Beach	M	W		
Renee Beach	F	W		
Robin Beach	F	W		
John Murdaugh	M	W		
Richard Alexander Murdaugh Jr.	M	W		
Richard Alexander Murdaugh	M	W		
Randy Murdaugh	M	W		
Miley Altman	F	W		

Witness(s)	Sex	Race	DOB	SSN
Richard Murdaugh	M	W		

Victim(s) Deceased	Sex	Race	DOB	SSN
Paul Murdaugh	M	W		
Margaret Murdaugh	F	W		

Comments

All sealed evidence packages accepted by the laboratory are assumed to contain what they are "said to contain" by the submitter. The laboratory does not conduct a detailed inventory of evidence package contents during the evidence intake process.





**SLED LABORATORY
FORENSIC SERVICES REQUEST
SUBMISSION RECEIPT**

SLED LAB No. L21-09074 <i>MW</i>
Submission: 10/6/17/2021 3:52:34PM

Submitted and Maintained by :

A handwritten signature in black ink that reads 'Melinda A. Worley'.

Melinda A. Worley
SLED Crime Scene Investigation Unit

COURTESY OF
LUNA SHARK MEDIA

Printed: 06/17/2021 15:52

Page 3 of 3





**SLED LABORATORY
 FORENSIC SERVICES REQUEST
 SUBMISSION RECEIPT**

SLED LAB No. L21-09074 *MW*
 Submission: 11/6/21/2021 10:29:41AM

Name of Investigating officer: <u>David Owen, III</u>	Agency ID: <u>SCLED0000</u>
Agency: <u>South Carolina Law Enforcement Division</u> Phone No: <u>737-9000</u>	Agency Case No: <u>31210061</u>
Fax No: _____ Email: <u>dowen@sled.sc.gov</u>	Offense: <u>HOMICIDE</u>
Mailing Address: <u>4400 Broad River Road</u>	County: <u>Colleton</u>
City / State / Zip: <u>Columbia, SC 29210</u>	Offense Date: <u>06/07/2021</u>
CC: _____	Officer Involved Shooting <input type="checkbox"/> Yes
	Priority: <input type="checkbox"/> Yes

Is this evidence related to another lab number?
 Yes No
 If yes, Lab Number: _____

SLED ITEM No. LAB ONLY	Agency item No.	Description of Evidence	Analysis Requested
136		Buccal swab - Two (2) buccal swabs collected from Michael David List	DNA - Known Standard

LUNA SHARK COURT REPORTER





**SLED LABORATORY
 FORENSIC SERVICES REQUEST
 SUBMISSION RECEIPT**

SLED LAB No. L21-09074 *MW*
 Submission: 11/6/21/2021 10:29:41AM

Elimination(s)	Sex	Race	DOB	SSN
Anthony Cook	M	W		
Roger Davis	M	W		
Rogan Gibson	M	W		
Claude (C.B.) Rowe	M	W		
Connor Cook	M	W		
Morgan Dougherty	F	W		
Phillip Beach	M	W		
Renee Beach	F	W		
Robin Beach	F	W		
John Murdaugh	M	W		
Richard Alexander Murdaugh Jr.	M	W	[REDACTED]	
Richard Alexander Murdaugh	M	W	[REDACTED]	
Randy Murdaugh	M	W		
Miley Altman	F	W		
Michael David List	M	W		

Witness(s)	Sex	Race	DOB	SSN
Richard Murdaugh	M	W		

Victim(s) Deceased	Sex	Race	DOB	SSN
Paul Murdaugh	M	W		
Margaret Murdaugh	F	W		

Comments

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**SLED LABORATORY
FORENSIC SERVICES REQUEST
SUBMISSION RECEIPT**

SLED LAB No. L21-09074 *mw*
Submission: 11/6/21/2021 10:29:41AM

Submitted and Maintained by :

A handwritten signature in black ink that reads "Melinda A. Worley".

Melinda A. Worley
SLED Crime Scene Investigation Unit

COURTESY OF
LUNA SHARK MEDIA

Printed: 06/21/2021 10:29

Page 3 of 3





**SLED LABORATORY
FORENSIC SERVICES REQUEST
SUBMISSION RECEIPT**

SLED LAB No. L21-09074 MU
Submission: 16 8/30/2021 9:23:15AM

Name of Investigating officer: <u>David Owen, III</u>	Agency ID: <u>SCLED0000</u>
Agency: <u>South Carolina Law Enforcement Division</u> Phone No: <u>737-9000</u>	Agency Case No: <u>31210061</u>
Fax No: _____ Email: <u>dowen@sled.sc.gov</u>	Offense: <u>HOMICIDE</u>
Mailing Address: <u>4400 Broad River Road</u>	County: <u>Colleton</u>
City / State / Zip: <u>Columbia, SC, 29210</u>	Offense Date: <u>06/07/2021</u>
CC: _____	Officer Involved Shooting <input type="checkbox"/> Yes
	Priority: <input type="checkbox"/> Yes

Is this evidence related to another lab number?
 Yes No
if yes, Lab Number: L15-08861

SLED ITEM No LAB ONLY	Agency Item No.	Description of Evidence	Analysis Requested
142		Automobile Parts - Driver's seatbelt collected from black 2021 Chevy Suburban (SC tag CZL420)	DNA - Blood SERO - Serology TR - GSR Analysis
143		Buccal swab - Buccal swabs collected from Colleton CSO Deputy Daniel Greene	DNA - Known Standard
144		Digital Media - Digital photographs of black 2021 Chevy Suburban taken August 27, 2021	





**SLED LABORATORY
 FORENSIC SERVICES REQUEST
 SUBMISSION RECEIPT**

SLED LAB No. L21-09074 *M*
 Submission: 16 8/30/2021 9:23:15AM

Elimination(s)	Sex	Race	DOB	SSN
Anthony Cook	M	W		
Roger Davis	M	W		
Rogan Gibson	M	W		
Claude (C.B.) Rowe	M	W		
Connor Cook	M	W		
Morgan Dougherty	F	W		
Phillip Beach	M	W		
Renee Beach	F	W		
Robin Beach	F	W		
John Murdaugh	M	W		
Richard Alexander Murdaugh Jr.	M	W	REDACTED	
Richard Alexander Murdaugh	M	W	REDACTED	
Randy Murdaugh	M	W		
Miley Altman	F	W		
Michael David List	M	W		
Nolen Tuten	M	W	REDACTED	
Deputy Daniel Greene	M	W		

Witness(s)	Sex	Race	DOB	SSN
Richard Murdaugh	M	W		

Victim(s) Deceased	Sex	Race	DOB	SSN
Paul Murdaugh	M	W		
Margaret Murdaugh	F	W		

Comments

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**SLED LABORATORY
FORENSIC SERVICES REQUEST
SUBMISSION RECEIPT**

SLED LAB No. L21-09074 <i>MW</i>
Submission: 16 8/30/2021 9:23:15AM

Submitted and Maintained by :

A handwritten signature in black ink that reads "Melinda A. Worley".

Melinda A. Worley
SLED Crime Scene Investigation Unit

COURTESY OF
LUNA SHARK MEDIA





**SLED LABORATORY
 FORENSIC SERVICES REQUEST
 SUBMISSION RECEIPT**

SLED LAB No. L21-09074 *MW*
 Submission: 17 9/15/2021 12:49:51PM

Name of Investigating officer: <u>David Owen, III</u>	Agency ID: <u>SCLED0000</u>
Agency: <u>South Carolina Law Enforcement Division</u> Phone No: <u>737-9000</u>	Agency Case No: <u>31210061</u>
Fax No: _____ Email: <u>dowen@sled.sc.gov</u>	Offense: <u>HOMICIDE</u>
Mailing Address: <u>4400 Broad River Road</u>	County: <u>Colleton</u>
City / State / Zip: <u>Columbia, SC 29210</u>	Offense Date: <u>06/07/2021</u>
CC: _____	Officer Involved Shooting <input type="checkbox"/> Yes
	Priority: <input type="checkbox"/> Yes

Is this evidence related to another lab number?
 Yes No
 If yes, Lab Number: _____

SLED ITEM No LAB ONLY	Agency Item No.	Description of Evidence	Analysis Requested
145 AE		Cartridge case(s) - One (1) cartridge case headstamped "S&B .300 AAC BLK" from Sabal & Oak bag in gun room	EC - Storage
146 AE		Cartridge case(s) - One (1) cartridge case headstamped "HORNADY 300 BLK" from under driver's seat in black Ford F150 (SC tag QVV216)	EC - Storage
147 AF		Unfired cartridges and shotshells - One (1) unfired cartridge headstamped "S&B .300 AAC BLK" from Winchester box on bookshelf in gun room	EC - Storage
148 AF		Unfired cartridges and shotshells - One (1) unfired cartridge headstamped "S&B .300 AAC BLK" from Winchester box on bookshelf in gun room	EC - Storage
149 AF		Unfired cartridges and shotshells - One (1) unfired cartridge headstamped "S&B .300 AAC BLK" from Winchester box on bookshelf in gun room	EC - Storage
150 AF		Unfired cartridges and shotshells - One (1) unfired cartridge headstamped "S&B .300 AAC BLK" from Winchester box on bookshelf in gun room	EC - Storage
151 AF		Unfired cartridges and shotshells - One (1) unfired cartridge headstamped "S&B .300 AAC BLK" from Winchester box on bookshelf in gun room	EC - Storage
152 AF		Unfired cartridges and shotshells - One (1) unfired cartridge headstamped "S&B .300 AAC BLK" from Winchester box on bookshelf in gun room	EC - Storage
153 AF		Unfired cartridges and shotshells - One (1) unfired cartridge headstamped "S&B .300 AAC BLK" from Winchester box on bookshelf in gun room	EC - Storage

Printed: 09/15/2021 12:50

Page 1 of 5





**SLED LABORATORY
 FORENSIC SERVICES REQUEST
 SUBMISSION RECEIPT**

SLED LAB No. L21-09074 NW
 Submission: 17 9/15/2021 12:49:51PM

SLED ITEM No LAB ONLY	Agency Item No.	Description of Evidence	Analysis Requested
154 AF		Unfired cartridges and shotshells - One (1) unfired cartridge headstamped "S&B .300 AAC BLK" from Winchester box on bookshelf in gun room	EC - Storage
155 AF		Unfired cartridges and shotshells - One (1) unfired cartridge headstamped "S&B .300 AAC BLK" from desk in cabin living room	EC - Storage
156 AF		Unfired cartridges and shotshells - One (1) unfired cartridge headstamped "S&B .300 AAC BLK" from desk in cabin living room	EC - Storage
157 AF		Unfired cartridges and shotshells - One (1) unfired cartridge headstamped "S&B .300 AAC BLK" from desk in cabin living room	EC - Storage
158 AF		Unfired cartridges and shotshells - One (1) unfired cartridge headstamped "BARNES 300 BLK" from Winchester box on bookshelf in gun room	EC - Storage
159 AF		Unfired cartridges and shotshells - One (1) unfired cartridge headstamped "BARNES 300 BLK" from red bin on workshop bench	EC - Storage
160 AF		Unfired cartridges and shotshells - One (1) unfired cartridge headstamped "BARNES 300 BLK" from desk in cabin living room	EC - Storage
161 AF		Unfired cartridges and shotshells - One (1) unfired cartridge headstamped "HORNADY 300 BLK" from desk in cabin living room	EC - Storage
162 AG		Unfired cartridges and shotshells - One (1) unfired shotshell headstamped "WINCHESTER 12 GA" from Estate box on bookshelf in gun room	EC - Storage
163 AG		Unfired cartridges and shotshells - One (1) unfired shotshell headstamped "WINCHESTER 12 GA" from Estate box on bookshelf in gun room	EC - Storage
164 AG		Unfired cartridges and shotshells - One (1) unfired shotshell headstamped "WINCHESTER 12 GA" from Kent box on bookshelf in gun room	EC - Storage
165 AG		Unfired cartridges and shotshells - One (1) unfired shotshell headstamped "WINCHESTER 12 GA" from nightstand drawer in Paul's bedroom	EC - Storage
168 AG		Unfired cartridges and shotshells - One (1) unfired shotshell headstamped "12 GA FEDERAL" from red bin on workshop bench	EC - Storage
167 AG		Unfired cartridges and shotshells - One (1) unfired shotshell headstamped "12 GA FEDERAL" from red bin on workshop bench	EC - Storage





**SLED LABORATORY
FORENSIC SERVICES REQUEST
SUBMISSION RECEIPT**

SLED LAB No. L21-09074 NW
Submission: 17 9/15/2021 12:49:51PM

SLED ITEM No. LAB ONLY	Agency Item No.	Description of Evidence	Analysis Requested
168 AG		Unfired cartridges and shotshells - One (1) unfired shotshell headstamped "12 GA FEDERAL" from red bin on workshop bench	EC - Storage
169 AG		Unfired cartridges and shotshells - One (1) unfired shotshell headstamped "12 GA FEDERAL" from red bin on workshop bench	EC - Storage
170 AH		Firearm accessory (scope, sling, magazine) - One (1) magazine containing "S&B .300 AAC BLK" ammo from bookshelf in gun room	EC - Storage
171 AH		Firearm accessory (scope, sling, magazine) - One (1) magazine containing "S&B .300 AAC BLK" ammo from black Ford F150 (SC tag QVV216)	EC - Storage
172		Digital Media - Digital images of the crime scene taken during search warrant on Sept 13, 2021	

COURTESY OF LUNA SHARK MEDIA





**SLED LABORATORY
 FORENSIC SERVICES REQUEST
 SUBMISSION RECEIPT**

SLED LAB No. L21-09074
 Submission: 17 9/15/2021 12:49:51PM

Elimination(s)	Sex	Race	DOB	SSN
Anthony Cook	M	W		
Roger Davis	M	W		
Rogan Gibson	M	W		
Claude (C.B.) Rowe	M	W		
Connor Cook	M	W		
Morgan Dougherty	F	W		
Phillip Beach	M	W		
Renee Beach	F	W		
Robin Beach	F	W		
John Murdaugh	M	W		
Richard Alexander Murdaugh Jr.	M	W	REDACTED	
Richard Alexander Murdaugh	M	W	REDACTED	
Randy Murdaugh	M	W		
Miley Altman	F	W		
Michael David List	M	W		
Nolen Tuten	M	W	REDACTED	
Deputy Daniel Greene	M	W		

Witness(s)	Sex	Race	DOB	SSN
Richard Murdaugh	M	W		

Victim(s) Deceased	Sex	Race	DOB	SSN
Paul Murdaugh	M	W		
Margaret Murdaugh	F	W		

Comments

All sealed evidence packages accepted by the laboratory are assumed to contain what they are "said to contain" by the submitter. The laboratory does not conduct a detailed inventory of evidence package contents during the evidence intake process.





**SLED LABORATORY
FORENSIC SERVICES REQUEST
SUBMISSION RECEIPT**

SLED LAB No. L21-09074 *mw*
Submission: 17 9/15/2021 12:49:51PM

Submitted and Maintained by :

A handwritten signature in black ink that reads 'Melinda A. Worley'.

Melinda A. Worley
SLED Crime Scene Investigation Unit

COURTESY OF
LUNA SHARK MEDIA

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Page 5 of 5





**SLED LABORATORY
 FORENSIC SERVICES REQUEST
 SUBMISSION RECEIPT**

SLED LAB No. L21-09074 MW
 Submission: 20 2/16/2022 2:09:45PM

Name of Investigating officer: <u>David Owen, III</u>	Agency ID: <u>SCLED0000</u>
Agency: <u>South Carolina Law Enforcement Division</u> Phone No: <u>737-9000</u>	Agency Case No: <u>31210061</u>
Fax No: _____ Email: <u>dowen@sled.sc.gov</u>	Offense: <u>HOMICIDE</u>
Mailing Address: <u>4400 Broad River Road</u>	County: <u>Colleton</u>
City / State / Zip: <u>Columbia, SC 29210</u>	Offense Date: <u>06/07/2021</u>
CC: _____	Officer Involved Shooting <input type="checkbox"/> Yes
	Priority: <input type="checkbox"/> Yes

Is this evidence related to another lab number?
 Yes No
 If yes, Lab Number: _____

SLED ITEM No. LAB ONLY	Agency Item No.	Description of Evidence	Analysis Requested
200		Digital Media - Digital images taken during follow-up on June 8, 2021 (Related to Submission #3)	
201		Digital Media - Digital images taken during follow-up on June 9, 2021 (Related to Submission #4)	
202		Digital Media - Digital images of the black 2021 Mercedes GLS 450 taken June 15, 2021 (Related to Submission #8)	
203		Digital Media - Digital images of Item 30 taken June 10, 2021 and Items 21 and 142 (IR photos) taken on Sept. 1, 2021	





**SLED LABORATORY
 FORENSIC SERVICES REQUEST
 SUBMISSION RECEIPT**

SLED LAB No. L21-09074 MU
 Submission: 20 2/16/2022 2:09 45PM

Elimination(s)	Sex	Race	DOB	SSN
Anthony Cook	M	W		
Roger Davis	M	W		
Rogan Gibson	M	W		
Claude (C.B.) Rowe	M	W		
Connor Cook	M	W		
Morgan Dougherty	F	W		
Phillip Beach	M	W		
Renee Beach	F	W		
Robin Beach	F	W		
John Murdaugh	M	W		
Richard Alexander Murdaugh Jr.	M	W	[REDACTED]	[REDACTED]
Richard Alexander Murdaugh	M	W	[REDACTED]	[REDACTED]
Randy Murdaugh	M	W		
Miley Altman	F	W		
Michael David List	M	W		
Nolen Tuten	M	W	[REDACTED]	[REDACTED]
Deputy Daniel Greene	M	W		

Witness(s)	Sex	Race	DOB	SSN
Richard Murdaugh	M	W		

Victim(s) Deceased	Sex	Race	DOB	SSN
Paul Murdaugh	M	W		
Margaret Murdaugh	F	W		

Comments

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**SLED LABORATORY
FORENSIC SERVICES REQUEST
SUBMISSION RECEIPT**

SLED LAB No. L21-09074 *MW*
Submission: 20 2/16/2022 2:09 45PM

Submitted and Maintained by :

A handwritten signature in black ink that reads "Melinda A. Worley".

Melinda A. Worley
SLED Crime Scene Investigation Unit

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LUNA SHARK MEDIA

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Page 3 of 3





**SLED LABORATORY
FORENSIC SERVICES REQUEST
SUBMISSION RECEIPT**

SLED LAB No. L21-09074 MW
Submission: 21 4/14/2022 10:35:52AM

Name of Investigating officer: <u>David Owen, III</u>	Agency ID: <u>SCLED0000</u>
Agency: <u>South Carolina Law Enforcement Division</u> Phone No: <u>737-9000</u>	Agency Case No: <u>31210061</u>
Fax No: _____ Email: <u>dowen@sled.sc.gov</u>	Offense: <u>HOMICIDE</u>
Mailing Address: <u>4400 Broad River Road</u>	County: <u>Colleton</u>
City / State / Zip: <u>Columbia, SC 29210</u>	Offense Date: <u>06/07/2021</u>
CC: _____	Officer Involved Shooting <input type="checkbox"/> Yes
	Priority: <input type="checkbox"/> Yes

Is this evidence related to another lab number?
 Yes No
If yes, Lab Number: L21-17381

SLED ITEM No LAB ONLY	Agency Item No.	Description of Evidence	Analysis Requested
204		Digital Media - Additional lab photographs of the item 100 shorts taken on March 29, 2022	

COURT REPORTER
LUNA SHARK MEDIA





**SLED LABORATORY
 FORENSIC SERVICES REQUEST
 SUBMISSION RECEIPT**

SLED LAB No. L21-09074 MW
 Submission: 21 4/14/2022 10:35:52AM

Elimination(s)	Sex	Race	DOB	SSN
Anthony Cook	M	W		
Roger Davis	M	W		
Rogan Gibson	M	W		
Claude (C.B.) Rowe	M	W		
Connor Cook	M	W		
Morgan Dougherty	F	W		
Phillip Beach	M	W		
Renee Beach	F	W		
Robin Beach	F	W		
John Murdaugh	M	W		
Richard Alexander Murdaugh Jr.	M	W	[REDACTED]	
Richard Alexander Murdaugh	M	W	[REDACTED]	
Randy Murdaugh	M	W		
Miley Altman	F	W		
Michael David List	M	W		
Nolen Tuten	M	W	[REDACTED]	
Deputy Daniel Greene	M	W		

Witness(s)	Sex	Race	DOB	SSN
Richard Murdaugh	M	W		

Victim(s) Deceased	Sex	Race	DOB	SSN
Paul Murdaugh	M	W		
Margaret Murdaugh	F	W		

Comments

All sealed evidence packages accepted by the laboratory are assumed to contain what they are "said to contain" by the submitter. The laboratory does not conduct a detailed inventory of evidence package contents during the evidence intake process.





**SLED LABORATORY
FORENSIC SERVICES REQUEST
SUBMISSION RECEIPT**

SLED LAB No. <u>L21-09074</u> <u>MW</u>
Submission: <u>21 4/14/2022 10:35:52AM</u>

Submitted and Maintained by :

A handwritten signature in black ink that reads "Melinda A. Worley".

Melinda A. Worley
SLED Crime Scene Investigation Unit

COURTESY OF
LUNA SHARK MEDIA

Printed: 04/14/2022 10:35

Page 3 of 3



SOUTH CAROLINA LAW ENFORCEMENT DIVISION

HENRY D. MCMASTER
Governor



MARK A. KEEL
Chief

The following document is a summary of the crime scene investigation conducted by agents of the SLED Crime Scene Department as of the below listed date. Additional actions taken after the listed date shall be described in Supplemental Summaries. Please refer to the SLED Laboratory case record for complete case information

CRIME SCENE INVESTIGATION SUMMARY SUPPLEMENTAL

February 22, 2022

Laboratory Number L21-09074
Reporting Agent Kristin N. Moore
Requesting Agency SLED Lowcountry Region

Introduction

On September 16, 2021, the SLED Lowcountry Region requested SLED Crime Scene (CS) assistance executing a search warrant in Varnville, SC. S/A Kristin Moore and S/A Jennifer Hunton responded and met with SLED Lowcountry Region S/A David Owen.

SLED CS Agents were provided the following information: This search warrant was being executed in reference to an ongoing homicide investigation.

Scene Summary

The scene consisted of a multi-story residence, located at 2175 Yemassee Hwy., Varnville, SC 29944. Refer to the Crime Scene Notes for additional information.

On October 7, 2021, presumptive testing was conducted at the SLED Forensic Services Laboratory. Refer to the CS Notes for additional information.

During the crime scene investigation, photographs were taken by SLED CS Agents. A copy of the photographs was mailed to S/A Owen on September 17, 2021. Additional copies are available on request.

Evidence was submitted by SLED CS Agents to the SLED Forensic Services Laboratory. Refer to the submission documentation for additional information.



Attachments

- *CS Notes
- *Submission Documentation

This report contains the conclusions, opinions and interpretations of the analyst whose signature appears below.

Technical records supporting the conclusions in this report are available upon request. Afford sufficient time for production.



Kristin N. Moore
Forensic Scientist

COURTESY OF
LUNA SHARK MEDIA



Crime Scene Attachments



SLED CRIME SCENE DEPARTMENT

CRIME SCENE NOTES

Lab No: L21-09074 (Supplemental)

Examiner: S/A Kristin Moore *KM*

On September 16, 2021, S/A Kristin Moore was notified by SLED Crime Scene (CS) Lieutenant (Lt.) Kukila Wallace that the SLED Lowcountry Region was requesting SLED CS assistance with executing a search warrant in Varnville, SC. SLED Lowcountry Region S/A David Owen was provided as the point of contact. S/A Moore and S/A Jennifer Hunton responded to the scene.

Location: 2175 Yemassee Hwy., Varnville, SC 29944

SLED Lowcountry Region lead: S/A Owen

SLED Lowcountry Region case #: 31-21-0061

SLED CS Agents arrived on scene at approximately 4:05 PM. The weather was rainy with an approximate temperature of 71°F. SLED CS Agents made contact with S/A Owen who provided the following additional information: This was the residence of Alexander Murdaugh's mother. Reportedly, Murdaugh was seen at this residence on the night of a homicide that was being investigated. Reports of Murdaugh carrying something wrapped in a blue tarp like material were provided to SLED CS Agents.

S/A Hunton documented the scene with photographs, while S/A Moore documented the scene with notes and a sketch.

The scene consisted of a multi-story home with multiple outbuildings. The outbuildings located on the property were searched by SLED Agents and were not documented by SLED CS Agents. Residents of the home were on scene and inside the home during the execution of the search warrant.

The first story consisted of two bedrooms, three bathrooms, a den, a living room, a dining room, a kitchen, and an office. The front entrance foyer led to the first set of stairs. The stairs led directly into a storage area/attic. A coat closet was located on this landing section as well. A blue in color raincoat was located balled up in the back of this coat closet. This raincoat was documented with photographs and collected by SLED CS Agents.

The second set of stairs led to the second story of the home. The second story consisted of two bedrooms, two bathrooms, and an open area with miscellaneous items. Inside the north bedroom closet, SLED Agents located a blue tarp inside a storage container with miscellaneous dishes. The tarp was documented with photographs and collected by SLED CS Agents. A gun cabinet was also located inside this bedroom. The cabinet was locked, and SLED CS Agents were not provided a key. Exterior photographs only were taken of this cabinet and the firearms inside.

The residence was searched for any additional items of evidentiary value, yielding negative results.

Issuing Authority: Quality Manager

SLED Forensics Form # CSD 003, May 2014
Page 1 of 2





SLED CRIME SCENE DEPARTMENT

L21-09074 KM

CRIME SCENE NOTES

Crime Scene Review

A final walkthrough was conducted with S/A Owen. All actions taken and items collected were discussed, and no further processing was requested at that time. SLED CS Agents cleared the scene at approximately 6:35 PM and transported the evidence to the SLED Forensic Services Laboratory.

Additional Processing

On October 7, 2021, Lt. Wallace and S/A Moore met with SLED Serology personnel at the SLED Forensic Services Laboratory to process and document the blue raincoat (Item 173).

The additional processing was documented with photographs and notes by S/A Moore.

Two (2) suspected defects were photographed, scaled, and labeled by SLED CS Agents as follows:

- Suspected Defect 1: bottom front of Item 173
- Suspected Defect 2: right side of inside front of Item 173

Presumptive Testing

The following items reliability tested positive on October 7, 2021: phenolphthalin (phenol) and leucocrystal violet (LCV).

The front, back, outside, and inside of Item 173 were photographed, scaled, and labeled by SLED CS Agents as follows:

- Inside front: suspected Stains A-M (L & M on hood)
- Inside back: suspected Stains P-Y (Y on hood)
- Inside sleeves: suspected Stains N, O, Z, and A1
- Outside front: suspected Stains B1-L1 (L1 on hood)
- Outside back: suspected Stains P1-A2 (Z1 & A2 on hood)
- Outside sleeves: suspected Stains M1-O1, and B2-F2

All the above listed suspected stains were presumptively tested with phenol, yielding negative results.

SLED CS Agents utilized an alternate light source, yielding positive results. The following suspected stain was photographed, scaled, and labeled by SLED CS Agents:

- Outside of hood: suspected Stain G2
 - o Suspected Stain G2 was presumptively tested with phenol, yielding negative results.

SLED CS Agents processed Item 173 with LCV. The front, back, outside, and inside of item 173 were all LCV negative.

Issuing Authority: Quality Manager

SLED Forensics Form # CSD 003, May 2014
Page 2 of 2





**SLED LABORATORY
 FORENSIC SERVICES REQUEST
 SUBMISSION RECEIPT**

SLED LAB No. L21-09074 *LM*
 Submission: 18 9/17/2021 10:10 40AM

Name of Investigating officer: <u>David Owen, III</u>	Agency ID: <u>SCLED0000</u>
Agency: <u>South Carolina Law Enforcement Division</u> Phone No: <u>737-9000</u>	Agency Case No: <u>31210061</u>
Fax No: _____ Email: <u>dowen@sled.sc.gov</u>	Offense: <u>HOMICIDE</u>
Mailing Address: <u>4400 Broad River Road</u>	County: <u>Collaton</u>
City / State / Zip: <u>Columbia, SC 29210</u>	Offense Date: <u>06/07/2021</u>
CC: _____	Officer Involved Shooting <input type="checkbox"/> Yes
	Priority: <input type="checkbox"/> Yes

Is this evidence related to another lab number?
 Yes No
 If yes, Lab Number: _____

SLED ITEM No. LAB ONLY	Agency Item No.	Description of Evidence	Analysis Requested
173		Clothing - One (1) blue raincoat from second floor hall closet	EC - Storage
174		Miscellaneous - One (1) blue tarp from second floor north bedroom closet (inside storage container)	EC - Storage
175		Digital Media - Digital photographs of 2175 Yemassee Hwy	CS - SLED Crime Scene

LUNA SHARPE COURT REPORTER





**SLED LABORATORY
 FORENSIC SERVICES REQUEST
 SUBMISSION RECEIPT**

SLED LAB No. L21-09074 *KM*
 Submission: 18 9/17/2021 10:10:40AM

Elimination(s)	Sex	Race	DOB	SSN
Anthony Cook	M	W		
Roger Davis	M	W		
Rogan Gibson	M	W		
Claude (C.B.) Rowe	M	W		
Connor Cook	M	W		
Morgan Dougherty	F	W		
Phillip Beach	M	W		
Renee Beach	F	W		
Robin Beach	F	W		
John Murdaugh	M	W		
Richard Alexander Murdaugh Jr.	M	W		
Richard Alexander Murdaugh	M	W		
Randy Murdaugh	M	W		
Miley Altman	F	W		
Michael David List	M	W		
Nolen Tuten	M	W		
Deputy Daniel Greene	M	W		

Witness(s)	Sex	Race	DOB	SSN
Richard Murdaugh	M	W		

Victim(s) Deceased	Sex	Race	DOB	SSN
Paul Murdaugh	M	W		
Margaret Murdaugh	F	W		

Comments

All sealed evidence packages accepted by the laboratory are assumed to contain what they are "said to contain" by the submitter. The laboratory does not conduct a detailed inventory of evidence package contents during the evidence intake process.





**SLED LABORATORY
FORENSIC SERVICES REQUEST
SUBMISSION RECEIPT**

SLED LAB No. L21-09074 *KW*
Submission: 18 9/17/2021 10:10:40AM

Submitted and Maintained by :

A handwritten signature in black ink that reads 'Kristin Moore'.

Kristin N. Moore
SLED Crime Scene Investigation Unit

COURTESY OF
LUNA SHARK MEDIA

Printed: 09/17/2021 10:10

Page 3 of 3





**SLED LABORATORY
FORENSIC SERVICES REQUEST
SUBMISSION RECEIPT**

SLED LAB No. L21-09074 KAU
Submission: 19 10/8/2021 11:40:49AM

Name of Investigating officer: <u>David Owen, III</u>	Agency ID: <u>SCLED0000</u>
Agency: <u>South Carolina Law Enforcement Division</u> Phone No: <u>737-9000</u>	Agency Case No: <u>31210061</u>
Fax No: _____ Email: <u>dowen@sled.sc.gov</u>	Offense: <u>HOMICIDE</u>
Mailing Address: <u>4400 Broad River Road</u>	County: <u>Colleton</u>
City / State / Zip: <u>Columbia, SC 29210</u>	Offense Date: <u>06/07/2021</u>
CC: _____	Officer Involved Shooting <input type="checkbox"/> Yes
	Priority: <input type="checkbox"/> Yes

Is this evidence related to another lab number?
 Yes No
If yes, Lab Number: _____

SLED ITEM No LAB ONLY	Agency Item No.	Description of Evidence	Analysis Requested
176		Digital Media - Digital images of additional processing of Item 173	

COURTESY OF
LUNA SHARK MEDIA





**SLED LABORATORY
 FORENSIC SERVICES REQUEST
 SUBMISSION RECEIPT**

SLED LAB No. L21-09074 KM
 Submission: 19 10/8/2021 11:40:49AM

Elimination(s)	Sex	Race	DOB	SSN
Anthony Cook	M	W		
Roger Davis	M	W		
Rogan Gibson	M	W		
Claude (C.B.) Rowe	M	W		
Connor Cook	M	W		
Morgan Dougherty	F	W		
Philip Beach	M	W		
Renee Beach	F	W		
Robin Beach	F	W		
John Murdaugh	M	W		
Richard Alexander Murdaugh Jr.	M	W		
Richard Alexander Murdaugh	M	W		
Randy Murdaugh	M	W		
Miley Altman	F	W		
Michael David Lust	M	W		
Nolen Tuten	M	W		
Deputy Danel Greene	M	W		

Witness(s)	Sex	Race	DOB	SSN
Richard Murdaugh	M	W		

Victim(s) Deceased	Sex	Race	DOB	SSN
Paul Murdaugh	M	W		
Margaret Murdaugh	F	W		

Comments

All sealed evidence packages accepted by the laboratory are assumed to contain what they are "said to contain" by the submitter. The laboratory does not conduct a detailed inventory of evidence package contents during the evidence intake process.





**SLED LABORATORY
FORENSIC SERVICES REQUEST
SUBMISSION RECEIPT**

SLED LAB No. L21-09074 <i>KM</i>
Submission: 19 10/8/2021 11:40:49AM

Submitted and Maintained by :

A handwritten signature in black ink that reads 'Kristin Moore'.

Kristin N. Moore
SLED Crime Scene Investigation Unit

COURTESY OF
LUNA SHARK MEDIA

Printed: 10/08/2021 11:40

Page 3 of 3



SOUTH CAROLINA LAW ENFORCEMENT DIVISION

FORENSIC SERVICES LABORATORY REPORT

HENRY D. MCMASTER
Governor



MARK A. KEEL
Chief

August 10, 2022

David Owen, III
South Carolina Law Enforcement Division
4400 Broad River Road
Columbia, SC 29210

LATENT PRINTS
SLED LAB: L21-09074
Your Case No: 31210061
Incident Date: 6/7/2021
[V-Deceased] Paul Murdaugh
[V-Deceased] Margaret Murdaugh
[W] Richard Murdaugh
[E] Anthony Cook
[E] Roger Davis
[E] Rogan Gibson
[E] Claude (C.B.) Rowe
[E] Connor Cook
[E] Morgan Dougherty
[E] Phillip Beach
[E] Renee Beach
[E] Robin Beach
[E] John Murdaugh
[E] Richard Murdaugh Jr.
[E] Richard Murdaugh
[E] Randy Murdaugh
[E] Miley Altman
[E] Michael List

This is an official report of the South Carolina Law Enforcement Division Forensic Services Laboratory and is to be used in connection with an official criminal investigation. These examinations were conducted under your assurance that no previous examinations of person(s) or evidence submitted in this case have been or will be conducted by any other laboratory or agency.

Mark A. Keel, Chief
South Carolina Law Enforcement Division

ITEMS OF EVIDENCE:

Item: 21 One (1) pair of red, yellow, and white "Nike Air Max" tennis shoes (size 11.5) from Richard Alexander Murdaugh



P.O. Box 21398, Columbia, South Carolina 29221-1398 Phone (803) 896-7300 Fax (803) 896-7351

- Item: 21.3** Inked test impressions and overlays of the Item 21 shoes
- Item 95:** One (1) pair of brown/white "Reef" brand flip flops (size 9) collected from Margaret Murdaugh at autopsy
- Item: 103** One (1) pair of gray "New Balance 990v5" brand sneakers (size 9) collected from Paul Murdaugh at autopsy
- Item: 103.2** Inked test impressions and overlays of the Item 103 shoes
- Item: 105** Digital images of the crime scene, vehicles, and clothing
- Item: 105.1** Unknown footwear impression represented in Photo # 0139

RESULTS:

The Item 105.1 impression was not made by the Item 21 shoes.
The Item 105.1 impression was not made by the Item 95 shoes.

The Item 105.1 impression corresponds in outsole design with the Item 103 right shoe. Further examination cannot be conducted due to the quality of the Item 105.1 impression.

- Item: 105.2** Unknown footwear impression represented in Photo # 0293

RESULTS:

The Item 105.2 impression was not made by the Item 21 shoes.
The Item 105.2 impression was not made by the Item 95 shoes.

The Item 105.2 impression corresponds in outsole design with the Item 103 shoes. Further examination cannot be conducted due to the quality of the Item 105.2 impression.

- Item: 105.3** Unknown footwear impression represented in Photo # 0293 (right side)

RESULTS:



The Item 105.3 impression was not made by the Item 21 shoes.
The Item 105.3 impression was not made by the Item 95 shoes.

The Item 105.3 impression corresponds in outsole design with the Item 103 right shoe. Further examination cannot be conducted due to the quality of the Item 105.3 impression.

Item: 105.4 Unknown impression(s) represented in Photo # 0420

RESULTS:

No conclusion shall be rendered in reference to the Item 21, Item 95, or Item 103 shoes due to the quality of Item 105.4.

Item: 105.5 Unknown footwear impression represented in Photo # 0470

RESULTS:

The Item 105.5 impression was not made by the Item 21 shoes.
The Item 105.5 impression was not made by the Item 95 shoes.

The Item 105.5 impression corresponds in outsole design with the Item 103 right shoe. Further examination cannot be conducted due to the quality of the Item 105.5 impression.

Item: 105.6 Unknown footwear impression represented in Photo # 0470

RESULTS:

No conclusion shall be rendered in reference to the Item 21 shoes due to the quality of Item 105.6.

The Item 105.6 impression was not made by the Item 95 shoes.
The Item 105.6 impression was not made by the Item 103 shoes.

Impression evidence in this case was examined utilizing the ACE-V methodology.



This report contains the conclusions, opinions and interpretations of the analyst whose signature appears below.



Melinda A. Worley
Forensic Scientist

COURTESY OF
LUNA SHARK MEDIA



SOUTH CAROLINA LAW ENFORCEMENT DIVISION

FORENSIC SERVICES LABORATORY REPORT

HENRY D. MCMASTER
Governor



MARK A. KEEL
Chief

September 22, 2022

David Owen, III
South Carolina Law Enforcement Division
4400 Broad River Road
Columbia, SC 29210

DNA ANALYSIS

SLED LAB: L21-09074
Your Case No: 31210061
Incident Date: 6/7/2021
[V-Deceased] Paul Murdaugh
[V-Deceased] Margaret Murdaugh
[W] Richard Murdaugh

This is an official report of the South Carolina Law Enforcement Division Forensic Services Laboratory and is to be used in connection with an official criminal investigation. These examinations were conducted under your assurance that no previous examinations of person(s) or evidence submitted in this case have been or will be conducted by any other laboratory or agency.
Mark A. Keel, Chief
South Carolina Law Enforcement Division

SUPPLEMENTAL

COMPARISON STANDARDS

136 Buccal swabs from Michael David List

RESULTS:

- The DNA profile developed is suitable for use as a known standard.

ITEMS OF EVIDENCE

- 30.1 Swabs from trigger of Item 30 (Mossberg Model 835 Ulti-Mag shotgun (S/N: UM613411))
31.1 Swabs from trigger of Item 31 (Browning Auto-5 Light Vector + Special Steel 12GA shotgun (S/N: 03867NV211))
32.1 Swabs from trigger of Item 32 (Benelli Super Black Eagle 2 12GA shotgun (S/N: U391148))
33.1 Swabs from trigger of Item 33 (Palmetto State Armory PSA PA-15 MULTI rifle (S/N: PA068237))
103.1 Two (2) swabs collected from the outsole of the Item 103 right shoe (New Balance 990v5)

RESULTS FOR ITEMS 30.1, 31.1, 32.1, 33.1, AND 103.1:

- No analysis performed.



NOTES:

DNA analysis was performed using Short Tandem Repeat (STR) PCR DNA analysis.

The following kits/loci were utilized in the analysis of this case:

GlobalFiler™: D3S1358, vWA, D16S539, CSF1PO, TPOX, Yindel, AMELOGENIN, D8S1179, D21S11, D18S51, DYS391, D2S441, D19S433, TH01, FGA, D22S1045, D5S818, D13S317, D7S820, SE33, D10S1248, D1S1656, D12S391, D2S1338

This report supplements the testing performed in the reports issued on June 25, 2021, July 25, 2021, and November 10, 2021.

Any remaining evidence and/or packaging will be returned to the requesting agency.

This report contains the conclusions, opinions and interpretations of the analyst whose signature appears below.

Technical records supporting the conclusions in this report are available upon request. Afford sufficient time for production.



Sarah Zapata

Forensic Scientist



SOUTH CAROLINA LAW ENFORCEMENT DIVISION

FORENSIC SERVICES LABORATORY REPORT

HENRY D. MCMASTER
Governor



MARK A. KEEL
Chief

October 06, 2022

David Owen, III
South Carolina Law Enforcement Division
4400 Broad River Road
Columbia, SC 29210

FIREARMS DEPARTMENT
SLED LAB: L21-09074
Your Case No: 31210061
Incident Date: 6/7/2021
[V-Deceased] Paul Murdaugh
[V-Deceased] Margaret Murdaugh
[W] Richard Murdaugh

This is an official report of the South Carolina Law Enforcement Division Forensic Services Laboratory and is to be used in connection with an official criminal investigation. These examinations were conducted under your assurance that no previous examinations of person(s) or evidence submitted in this case have been or will be conducted by any other laboratory or agency.

Mark A. Keel, Chief
South Carolina Law Enforcement Division

AMENDED

ITEMS OF EVIDENCE:

- Item: 1** One shot cup and one wad component, listed as "...from Marker 1".
RESULTS:
See Item 69 results.
- Item: 1.1** Reddish-brown debris swabbed from Item 1.
RESULTS:
Item 1.1 was returned without further analysis.
- Item: 1.2** Fibrous material removed from Item 1.
RESULTS:
Item 1.2 was returned without further analysis.
- Item: 2** One fired 300 Blackout caliber cartridge case, listed as "...from Marker 2".
Item: 3 One fired 300 Blackout caliber cartridge case, listed as "...from Marker 3".
Item: 4 One fired 300 Blackout caliber cartridge case, listed as "...from Marker 4".
Item: 5 One fired 300 Blackout caliber cartridge case, listed as "...from Marker 5".
RESULTS:
See Item 128 results.



- Item: 6** One fired 300 Blackout caliber cartridge case, listed as "...from Marker 6".
- Item: 7** One fired 300 Blackout caliber cartridge case, listed as "...from Marker 7".
RESULTS:
See Item 128 results.
- Item: 8** One fired bullet, listed as "...near tire impression at Marker 8".
RESULTS:
See Item 137 results.
- Item: 9** One fired 12 gauge shotshell, listed as "...from Marker 9".
- Item: 10** One fired 12 gauge shotshell, listed as "...from Marker 10".
RESULTS:
See Item 135 results.
- Item: 11** One fired bullet jacket fragment, three bullet jacket fragments, and one piece of lead, listed as "...from defect in ground (gravel) (Marker 13)".
- Item: 12** One fired bullet, listed as "...from bedding inside doghouse".
RESULTS:
See Item 137 results.
- Item: 13** One buckshot pellet, listed as "...from table below storage room window".
- Item: 14** Twenty-four birdshot pellets listed as "...from dog food storage room".
RESULTS:
See Item 104 results.
- Item: 14.1** Reddish-brown debris swabbed from Item 14.
RESULTS:
Item 14.1 was returned without further analysis.
- Item: 22** One Benelli Model Super Black Eagle 3 semiautomatic shotgun, 12 gauge, serial number U573210E17, with one unfired 12 gauge shotshell, one unfired 16 gauge shotshell, and accessory. *Please note that the accessory was not listed on the submission documents.*
RESULTS:
Item 22 was physically examined. The shotgun was test fired and found to be in working order. The 12 gauge shotshell was the correct gauge for use in the shotgun. The 16 gauge shotshell was not correct for use in the shotgun.

No analysis was performed on the accessory.
- Item: 22.4** Reddish-brown debris swabbed from the right side of the Item 22 receiver.
RESULTS:
Item 22.4 was forwarded to the DNA Department.



- Item: 22.5** Reddish-brown debris swabbed from the left side of the Item 22 receiver, above manufacturer information.
RESULTS:
Item 22.5 was forwarded to the DNA Department.
- Item: 22.6** Test specimens fired by Item 22 using Laboratory supplied ammunition.
RESULTS:
The test specimens were packaged for return to your Agency for long term storage as evidence.
- Item: 22.7** The unfired 12 gauge shotshell submitted as Item 22 test fired in the Item 22 shotgun.
RESULTS:
This test specimen was used for comparison purposes and was packaged for return with the other evidence.
- Item: 22.8** Reddish-brown debris swabbed from under the forearm on the magazine tube and receiver area.
RESULTS:
Item 22.8 was returned without further analysis.
- Item: 30** One Mossberg Model 835 "ULTI-MAG" pump-action shotgun, 12 gauge, serial number UM613411, with one unfired 12 gauge shotshell, listed as "... (previously on pool table)..."
RESULTS:
Item 30 was physically examined. During test firing, the first shotshell was loaded from the magazine tube and successfully test fired. After firing, the next available shotshell in the magazine tube had to be manually removed. The shotshell was then fed into the chamber with the lifter and fired. This issue did not prevent test firing and no further analysis was performed.
- Item: 30.2** Test specimens fired by Item 30 using Laboratory supplied ammunition.
RESULTS:
The test specimens were packaged for return to your Agency for long term storage as evidence.
- Item: 31** One Browning Model Auto-5 Light Twelve semiautomatic shotgun, 12 gauge, serial number 03867NV211.
RESULTS:
Item 31 was physically examined. During test firing, the shotgun did not extract and eject the fired shotshells. The shotshells had to be removed from the chamber by manually cycling the firearm. This issue did not prevent test firing and no further analysis was performed.
- Item: 31.2** Test specimens fired by Item 31 using Laboratory supplied ammunition.
RESULTS:
The test specimens were packaged for return to your Agency for long term storage as evidence.



Item: 32 One Benelli Model Super Black Eagle II semiautomatic shotgun, 12 gauge, serial number U391148, with two unfired 12 gauge shotshells and one accessory.

RESULTS:

Item 32 was physically examined. The shotgun was test fired and found to be in working order. The unfired shotshells were the correct gauge for use in the shotgun.

No analysis was performed on the accessory.

Item: 32.2 Test specimens fired by Item 32 using Laboratory supplied ammunition.

RESULTS:

The test specimens were packaged for return to your Agency for long term storage as evidence.

Item: 32.3 Debris swabbed from inside the choke of Item 32.

RESULTS:

Item 32.3 was returned without further analysis.

Item: 33 One Palmetto State Armory Model PA-15 semiautomatic rifle, 300 Blackout caliber, serial number PA068237, with accessory.

RESULTS:

Item 33 was physically examined. The rifle was test fired using the Item 34 magazine. During test firing, the first available cartridge in the magazine was fed and chambered correctly. The cartridge was successfully test fired, and extracted and ejected from the rifle. As the firearm cycled, the next available cartridge from the magazine failed to feed into the chamber. The bolt had to be manually cycled in order to feed the next cartridge. This issue did not prevent test firing and no further analysis was performed.

No analysis was performed on the accessory.

Item: 33.2 Test specimens fired by Item 33 using Laboratory supplied ammunition.

RESULTS:

The test specimens were packaged for return to your Agency for long term storage as evidence.

Item: 33.3 Test specimens cycled through Item 33 using Laboratory supplied ammunition.

RESULTS:

The test specimens were packaged for return to your Agency for long term storage as evidence.

Item: 34 One magazine and twenty-six unfired 300 Blackout caliber cartridges.

RESULTS:

Item 34 was physically examined. The magazine was a correct magazine assembly for use in the Item 33 rifle and in other similar type firearms. The unfired cartridges were the correct caliber for use in the Item 33 rifle and in other firearms chambered for 300 Blackout caliber cartridges.



- Item: 35** One fired 300 Blackout caliber cartridge case, listed as "...from ground at side entrance door".
Item: 36 One fired 300 Blackout caliber cartridge case, listed as "...from ground at side entrance door".
Item: 37 One fired 300 Blackout caliber cartridge case, listed as "...from ground at side entrance door".
Item: 38 One fired 300 Blackout caliber cartridge case, listed as "...from ground at side entrance door".
Item: 39 One fired 300 Blackout caliber cartridge case, listed as "...from ground at side entrance door".

RESULTS:

See Item 128 results.

- Item: 66** Three fired bullet jacket fragments and seven pieces of lead, listed as "...from Margaret Murdaugh at autopsy".

RESULTS:

See Item 137 results.

- Item: 67** Forty-eight birdshot pellets, listed as "...from left shoulder and head of Paul Murdaugh at autopsy".

RESULTS:

See Item 104 results.

- Item: 68** One piece of plastic, listed as "...from left shoulder and head of Paul Murdaugh at autopsy".

RESULTS:

Item 68 was physically and microscopically examined. It could not be determined whether Item 68 was part of a wad or wad component at some prior time, or if it originated from another source. No marks of value suitable for identification were found, and it was concluded that Item 68 was unsuitable for identification.

- Item: 69** One combination wad, listed as "...from left axilla of Paul Murdaugh at autopsy".

RESULTS:

Items 1 and 69 were physically examined and microscopically compared with each other and test wads fired by the Item 22 and 30 – 32 shotguns. Based on their observable, physical characteristics, Items 1 and 69 were most consistent with wads/wad components loaded into some 12 gauge shotshells. Items 1 and 69 bore some striated markings; however, their origin could not be determined and the results of these comparisons were inconclusive. It could not be determined whether Items 1 and 69 were fired by Items 22, 30, 31, 32, or by another firearm or firearms. Items 1 and 69 may not be suitable for identification with other firearms related evidence.

Sufficient differences in class characteristics were found to conclude that Items 1 and 69 were not fired by the Item 33 rifle.

- Item: 104** One birdshot pellet, listed as "...found with Paul Murdaugh's clothing".

RESULTS:

Items 13, 14, 67, and 104 were physically and microscopically examined. From these examinations, the following conclusions were reached:



- Based on its observable, physical characteristics, Item 13 was most consistent with being a Number 0 or larger buckshot pellet. No marks of value suitable for identification were found, and it was concluded that Item 13 was unsuitable for identification with other firearms related evidence.
- Based on their observable, physical characteristics, Items 14, 67, and 104 were most consistent with being Number 2 birdshot pellets. No marks of value suitable for identification were found, and it was concluded that Items 14, 67, and 104 were unsuitable for identification with other firearms related evidence.

Sufficient differences in class characteristics were found to conclude that Items 13, 14, 67, and 104 were not fired by the Item 33 rifle.

- Item: 108** One fired 300 Blackout caliber cartridge case, listed as "...from to the left of shooting chair (near field)".
- Item: 109** One fired 300 Blackout caliber cartridge case, listed as "...collected from right front corner (near field)".
- Item: 110** One fired 300 Blackout caliber cartridge case, listed as "...from in front of shooter's chair under table (near field)".
- Item: 111** One fired 300 Blackout caliber cartridge case, listed as "...from in front of chair at table (near field)".
- Item: 112** One fired 300 Blackout caliber cartridge case, listed as "...from under shooting table (near field)".
- Item: 113** One fired 300 Blackout caliber cartridge case, listed as "...from in front of right shooting table leg (near field)".
- Item: 114** One fired 300 Blackout caliber cartridge case, listed as "...from near right leg of shooting table in front of chair (near field)".
- Item: 115** One fired 300 Blackout caliber cartridge case, listed as "...from the front of and to the right of shooting table leg (near field)".
- Item: 116** One fired 300 Blackout caliber cartridge case, listed as "...from to the right halfway between leg and wall (near field)".
- Item: 117** One fired 300 Blackout caliber cartridge case, listed as "...from near right leg of shooting table near chair (near field)".
- Item: 118** One fired 300 Blackout caliber cartridge case, listed as "...from by right wall (near field)".
- Item: 119** One fired 300 Blackout caliber cartridge case, listed as "...from right front part of front wall (near field)".
- Item: 120** One fired 300 Blackout caliber cartridge case, listed as "...from right side of shooting platform (near field)".
- Item: 121** One fired 300 Blackout caliber cartridge case, listed as "...from right of shooting chair by platform (near field)".

RESULTS:

See Item 128 results.



Item: 122 One fired 300 Blackout caliber cartridge case, listed as "...from right side near wall (near field)".

Item: 123 One fired 300 Blackout caliber cartridge case, listed as "...from right side chair platform (near field)".

Item: 124 One fired 300 Blackout caliber cartridge case, listed as "...from right wall near sandbags (near field)".

RESULTS:

See Item 128 results.

Item: 125 One fired 12 gauge shotshell, listed as "...collected near field". *Item 125 was originally submitted as "...8..." fired shotshells. This evidence was itemized for identification and reporting purposes. See Items 129 – 135.*

RESULTS:

See Item 135 results.

Item: 126 One fired 300 Blackout caliber cartridge case, listed as "...from right front corner".

Item: 127 One fired 300 Blackout caliber cartridge case, listed as "...from right and to the front of right table leg".

Item: 128 One fired 300 Blackout caliber cartridge case, listed as "...collected from right near front wall".

RESULTS:

Items 2 – 7, 35 – 39, 108 – 124 and 126 – 128 were physically examined and, where appropriate, microscopically compared with each other and test cartridge cases fired by the Item 33 rifle. From these examinations and comparisons, the following conclusions were reached:

- Matching individual identifying characteristics were found on Items 38, 109 – 110, 121, 126, 127 and test cartridge cases fired by the Item 33 rifle. It was concluded that these Items were fired by Item 33.
- Due to insufficient corresponding individual identifying characteristics, the results of comparisons of Items 2 – 7, 35 – 37, 39, 108, 111 – 120, 122 – 124, and 128 with each other and test cartridge cases fired by the Item 33 rifle were inconclusive. It could not be determined whether these Items were fired by Item 33 or by another firearm or firearms with similar characteristics. These Items may or may not be suitable for identification with other firearms related evidence. (The word "rifling" was removed from the above paragraph.)
- Matching individual identifying characteristics were found in the mechanism marks of Items 111, 114 – 115, 118 – 119, 123, and 128 to conclude that these Items were loaded into, extracted, and ejected from the Item 33 rifle at some previous time.
- Matching individual identifying characteristics were found in the mechanism marks of Items 2 – 7, 35 – 37, 39, 108, 113, 116 – 117, and 122 to conclude that these Items were loaded into, extracted, and ejected from the same firearm at some previous time.



Sufficient differences in class characteristics were found to conclude that Items 2 – 7, 35 – 37, 39, 108, 111 – 120, 122 – 124, and 128 were not fired by any of the Item 22, 30, 31, or 32 shotguns.

- Item: 129** One fired 12 gauge shotshell, originally submitted as/with Item 125.
- Item: 130** One fired 12 gauge shotshell, originally submitted as/with Item 125.
- Item: 131** One fired 12 gauge shotshell, originally submitted as/with Item 125.
- Item: 132** One fired 12 gauge shotshell, originally submitted as/with Item 125.
- Item: 133** One fired 12 gauge shotshell, originally submitted as/with Item 125.
- Item: 134** One fired 12 gauge shotshell, originally submitted as/with Item 125.
- Item: 135** One fired 12 gauge shotshell, originally submitted as/with Item 125.

RESULTS:

Items 9 – 10, 125, and 129 – 135 were physically examined and, where appropriate, microscopically compared with test shotshells fired by the Item 22 and 30 – 32 shotguns. From these examinations and comparisons, the following conclusions were reached:

- Matching individual identifying characteristics were found, and it was concluded that Items 9 – 10 were fired by the same firearm.
- Due to insufficient corresponding individual identifying characteristics, the results of comparisons of Items 9 – 10 with test shotshells fired by the Item 22 shotgun were inconclusive. It could not be determined whether Items 9 – 10 were fired by Item 22 or by another firearm with similar characteristics. Items 9 – 10 may be suitable for identification with other firearms related evidence.
- Sufficient differences in class and/or individual characteristics were found to conclude that Items 9 – 10 were not fired by the Item 30, 31, or 32 shotguns.
- Due to their damaged and weathered condition, the results of comparisons of Items 125 and 129 – 135 with each other, Items 9 – 10, and test shotshells fired by the Item 22 and 30 – 32 shotguns were inconclusive. It could not be determined whether Items 125 and 129 – 135 were fired by the firearm that fired Items 9 – 10, the Item 22, 30, 31, or 32 shotguns, or by another firearm or firearms with similar characteristics. Items 125 and 129 – 135 may not be suitable for identification with other firearms related evidence.

Sufficient differences in class characteristics were found to conclude that Items 9 – 10, 125, and 129 – 135 were not fired by the Item 33 rifle.

- Item: 137** One piece of lead, listed as "...from hair on the Item 92 dress".

RESULTS:

Items 8, 11 – 12, 66, and 137 were physically examined and, where appropriate, microscopically compared with each other and test bullets fired by the Item 33 rifle. From these examinations and comparisons, the following conclusions were reached:



- Based on their observable, physical characteristics, Items 8 and 12 were most consistent with bullets loaded into some 300 Blackout caliber cartridges.
- Marks of value were found on Item 8 and it was concluded that it may be suitable for identification with other firearms related evidence.
- Due to damage, Item 12 was unsuitable for identification with other firearms related evidence; however, it may be suitable for elimination purposes based on class characteristics.
- Due to damage and their size, the caliber or calibers of Items 11, 66, and 137 could not be determined.
- Due to damage and limited marks of value found on the Item 11 fired bullet jacket fragment and the Item 66 fired bullet jacket fragments, it was concluded that these Items may or may not be suitable for identification with other firearms related evidence.
- No marks of value were found on the Item 11 bullet jacket fragments, the Item 11 piece of lead, and the Item 66 pieces of lead, and it was concluded that these Items were unsuitable for identification with other firearms related evidence.
- Item 137 bore some striated markings; however, their origin could not be determined and it was concluded that this Item was unsuitable for identification with other firearms related evidence.
- Due to damage and insufficient corresponding individual identifying characteristics, the results of comparisons of Item 8, the Item 11 fired bullet jacket fragment, and the Item 66 fired bullet jacket fragments with each other and test bullets fired by the Item 33 rifle were inconclusive. Although some limited similarities were noted on Item 8 and one of the Item 66 fired bullet jacket fragments, it could not be determined whether Item 8, the Item 11 fired bullet jacket fragment, and the Item 66 fired bullet jacket fragments were fired by Item 33 or by another firearm or firearms with similar rifling characteristics.

Sufficient differences in class characteristics were found to conclude that Item 8, the Item 11 fired bullet jacket fragment, and the Item 66 fired bullet jacket fragments were not fired by the Item 22 and 30 – 32 shotguns.

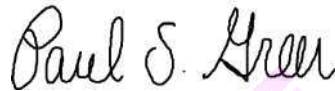
Items 3, 9, 10, and 33 were entered into the Integrated Ballistics Identification System (IBIS). These exhibits will automatically be correlated with exhibits from SC, GA, NC, and VA. Should any investigative leads be developed, your Agency will be notified. Please retain the evidence for a minimum of two years in order to maintain its availability for future comparisons related to IBIS activity.



Amendments and/or additions to the original report are highlighted. This amended report serves to replace the report issued on July 23, 2021.

This report contains the conclusions, opinions and interpretations of the analyst whose signature appears below.

Technical records supporting the conclusions in this report are available upon request. Afford sufficient time for production.



Paul S. Greer
Forensic Scientist

COURTESY OF
LUNA SHARK MEDIA



SOUTH CAROLINA LAW ENFORCEMENT DIVISION

FORENSIC SERVICES LABORATORY REPORT

HENRY D. MCMASTER
Governor



MARK A. KEEL
Chief

November 02, 2022

David Owen, III
South Carolina Law Enforcement Division
4400 Broad River Road
Columbia, SC 29210

DNA ANALYSIS

SLED LAB: L21-09074
Your Case No: 31210061
Incident Date: 6/7/2021
[V-Deceased] Paul Murdaugh
[V-Deceased] Margaret Murdaugh
[W] Richard Murdaugh

Related case: L21-17381

This is an official report of the South Carolina Law Enforcement Division Forensic Services Laboratory and is to be used in connection with an official criminal investigation. These examinations were conducted under your assurance that no previous examinations of person(s) or evidence submitted in this case have been or will be conducted by any other laboratory or agency.

Mark A. Keel, Chief
South Carolina Law Enforcement Division

SUPPLEMENTAL

COMPARISON STANDARDS

**L21-17381-57 Buccal swabs from Curtis Smith*

RESULTS:

- *The DNA profile developed is suitable for use as a known standard.*

ITEMS OF EVIDENCE

- 7.1 M-Vac collection from items 2-7
- 10.1 Swabs from entire exterior of items 9 & 10
- 17 Swabs from ext. door knob of storage room door
- 21.2 Cutting from left shoelace of pair of red, yellow, and white tennis shoes from Richard Murdaugh

ADDITIONAL RESULTS FOR ITEMS 7.1, 10.1, 17, AND 21.2:

- *Curtis Smith is excluded as the contributor.*



- 15 Swabs from camo Benelli 12 GA shotgun from receiver forward of the loading port
- 19.2 Cutting from exterior front, bottom edge of white shirt from Richard Murdaugh
- 19.3 Cutting from exterior, back, bottom center of white shirt from Richard Murdaugh
- 19.4 Cutting from stain "A" on white shirt from Richard Murdaugh
- 19.5 Cutting from stain "B" on white shirt from Richard Murdaugh

ADDITIONAL RESULTS FOR ITEMS 15, 19.2, 19.3, 19.4, AND 19.5:

- *Curtis Smith is excluded as a contributor.*

- 19.6 Cutting from stain "C" on white shirt from Richard Murdaugh

RESULTS:

- No human blood identified.
- A DNA profile suitable for comparison was developed.
- John Murdaugh and Randy Murdaugh are excluded as contributors.
- Due to the relatedness of the contributors, no conclusions will be offered regarding Paul Murdaugh and Richard Alexander Murdaugh, Jr. (Buster) as possible contributors to the mixture.
- Likelihood Ratios (LR) for this profile were calculated using STRmix™.
- **Proposition Set I:**
 - The DNA profile was interpreted as a mixture originating from three individuals.
 - Richard Alexander Murdaugh is contributing to the mixture.
 - Hp = Richard Alexander Murdaugh, Margaret Murdaugh, and an unidentified unrelated individual contributed to the mixture.
 - Hd = Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.
- The DNA profile is approximately 570 octillion (5.7E29) times more likely if Richard Alexander Murdaugh, Margaret Murdaugh, and an unidentified unrelated individual contributed to the mixture than if Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.



• **Proposition Set II:**

- *The DNA profile was interpreted as a mixture originating from three individuals.*
- *Richard Alexander Murdaugh is contributing to the mixture.*
- *Hp = Richard Alexander Murdaugh, Curtis Smith, and an unidentified unrelated individual contributed to the mixture.*
- *Hd = Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.*
- *The DNA profile is approximately 2 (1/4.1E-1) times more likely if Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture than if Richard Alexander Murdaugh, Curtis Smith, and an unidentified unrelated individual contributed to the mixture.*

19.7 Cutting from stain "D" on white shirt from Richard Murdaugh

RESULTS:

- No human blood identified.
- A DNA profile suitable for comparison was developed.
- John Murdaugh and Randy Murdaugh are excluded as contributors.
- Due to the relatedness of the contributors, no conclusions will be offered regarding Paul Murdaugh and Richard Alexander Murdaugh, Jr. (Buster) as possible contributors to the mixture.
- Likelihood Ratios (LR) for this profile were calculated using STRmix™.

• **Proposition Set I:**

- The DNA profile was interpreted as a mixture originating from four individuals.
- Richard Alexander Murdaugh is contributing to the mixture.
- Hp = Richard Alexander Murdaugh, Margaret Murdaugh, and two unidentified unrelated individuals contributed to the mixture.
- Hd = Richard Alexander Murdaugh and three unidentified unrelated individuals contributed to the mixture.



- The DNA profile is approximately 1.9 quadrillion (1.9E15) times more likely if Richard Alexander Murdaugh, Margaret Murdaugh, and two unidentified unrelated individuals contributed to the mixture than if Richard Alexander Murdaugh and three unidentified unrelated individuals contributed to the mixture.

• **Proposition Set II:**

- The DNA profile was interpreted as a mixture originating from four individuals.
 - Richard Alexander Murdaugh is contributing to the mixture.
 - Hp = Richard Alexander Murdaugh, Nolen Tuten, and two unidentified unrelated individuals contributed to the mixture.
 - Hd = Richard Alexander Murdaugh and three unidentified unrelated individuals contributed to the mixture.
- The DNA profile is approximately 48 septillion (4.8E25) times more likely if Richard Alexander Murdaugh, Nolen Tuten, and two unidentified unrelated individuals contributed to the mixture than if Richard Alexander Murdaugh and three unidentified unrelated individuals contributed to the mixture.

• **Proposition Set III:**

- The DNA profile was interpreted as a mixture originating from four individuals.
 - Richard Alexander Murdaugh is contributing to the mixture.
 - Hp = Richard Alexander Murdaugh, Margaret Murdaugh, Nolen Tuten, and an unidentified unrelated individual contributed to the mixture.
 - Hd = Richard Alexander Murdaugh and three unidentified unrelated individuals contributed to the mixture.
- The DNA profile is approximately 450 duodecillion (4.5E41) times more likely if Richard Alexander Murdaugh, Margaret Murdaugh, Nolen Tuten, and an unidentified unrelated individual contributed to the mixture than if Richard Alexander Murdaugh and three unidentified unrelated individuals contributed to the mixture.



• **Proposition Set IV:**

- *The DNA profile was interpreted as a mixture originating from four individuals.*
- *Richard Alexander Murdaugh is contributing to the mixture.*
- *Hp = Richard Alexander Murdaugh, Curtis Smith, and two unidentified unrelated individuals contributed to the mixture.*
- *Hd = Richard Alexander Murdaugh and three unidentified unrelated individuals contributed to the mixture.*
- *Curtis Smith is excluded as a contributor to the mixture under the listed propositions.*

19.8 Cutting from stain "E" on white shirt from Richard Murdaugh

RESULTS:

- No human blood identified.
- A DNA profile suitable for comparison was developed.
- Paul Murdaugh, John Murdaugh, Richard Alexander Murdaugh, Jr. (Buster) and Randy Murdaugh are excluded as contributors.
- Likelihood Ratios (LR) for this profile were calculated using STRmix™.
- **Proposition Set I:**
 - The DNA profile was interpreted as a mixture originating from three individuals.
 - Richard Alexander Murdaugh is contributing to the mixture.
 - Hp = Richard Alexander Murdaugh, Margaret Murdaugh, and an unidentified unrelated individual contributed to the mixture.
 - Hd = Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.
- The DNA profile is approximately 590 million (5.9E8) times more likely if Richard Alexander Murdaugh, Margaret Murdaugh, and an unidentified unrelated individual contributed to the mixture than if Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.



• **Proposition Set II:**

- *The DNA profile was interpreted as a mixture originating from three individuals.*
- *Richard Alexander Murdaugh is contributing to the mixture.*
- *H_p = Richard Alexander Murdaugh, Curtis Smith, and an unidentified unrelated individual contributed to the mixture.*
- *H_d = Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.*
- *The DNA profile is approximately 2 (1/3.9E-1) times more likely if Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture than if Richard Alexander Murdaugh, Curtis Smith, and an unidentified unrelated individual contributed to the mixture.*

- 19.10 **Cutting from stain "G" on white shirt from Richard Murdaugh**
19.11 **Cutting from stain "H" on white shirt from Richard Murdaugh**
19.12 **Cutting from stain "I" on white shirt from Richard Murdaugh**
19.13 **Cutting from stain "J" on white shirt from Richard Murdaugh**
20.2 **Cutting from front, left interior pocket of pair of green shorts from Richard Murdaugh**

ADDITIONAL RESULTS FOR ITEMS 19.10, 19.11, 19.12, 19.13, AND 20.2:

- *Curtis Smith is excluded as a contributor.*

- 20.3 **Cutting from stain "A" on pair of green shorts from Richard Murdaugh**

RESULTS:

- A DNA profile suitable for comparison was developed.
- John Murdaugh and Randy Murdaugh are excluded as contributors.
- Due to the relatedness of the contributors, no conclusions will be offered regarding Paul Murdaugh and Richard Alexander Murdaugh, Jr. (Buster) as possible contributors to the mixture.
- Likelihood Ratios (LR) for this profile were calculated using STRmix™.

• **Proposition Set I:**

- The DNA profile was interpreted as a mixture originating from three individuals.
- Richard Alexander Murdaugh is contributing to the mixture.



- Hp = Richard Alexander Murdaugh, Margaret Murdaugh, and an unidentified unrelated individual contributed to the mixture.
- Hd = Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.
- The DNA profile is approximately 94 septillion (9.4E25) times more likely if Richard Alexander Murdaugh, Margaret Murdaugh, and an unidentified unrelated individual contributed to the mixture than if Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.

• **Proposition Set II:**

- *The DNA profile was interpreted as a mixture originating from three individuals.*
- *Richard Alexander Murdaugh is contributing to the mixture.*
- *Hp = Richard Alexander Murdaugh, Curtis Smith, and an unidentified unrelated individual contributed to the mixture.*
- *Hd = Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.*
- *An uninformative statistical result was obtained. No conclusion can be made regarding Curtis Smith as a possible contributor to the mixture under the listed propositions.*

- 20.4 Cutting from stain "G" on pair of green shorts from Richard Murdaugh
- 20.5 Cutting from stain "C" on pair of green shorts from Richard Murdaugh
- 20.6 Cutting from stain "D" on pair of green shorts from Richard Murdaugh
- 20.8 Cutting from stain "F" on pair of green shorts from Richard Murdaugh
- 22.4 Debris from the right side of the Item 22 receiver (camo Benelli Super Black Eagle 3 SN:US73210E17)
- 22.5 Debris from the left side of the Item 22 receiver, above manufacturer information (camo Benelli Super Black Eagle 3 SN:US73210E17)
- 56 Swabs collected from steering wheel (Chevy Suburban)
- 70 Left fingernail clippings from Margaret Murdaugh

ADDITIONAL RESULTS FOR ITEMS 20.4, 20.5, 20.6, 20.8, 22.4, 22.5, 56, AND 70:

- *Curtis Smith is excluded as a contributor.*



NOTES:

DNA analysis was performed using Short Tandem Repeat (STR) PCR DNA analysis.

The following kits/loci were utilized in the analysis of this case:

GlobalFiler™ Express: D3S1358, vWA, D16S539, CSF1PO, TPOX, Yindel, AMELOGENIN, D8S1179, D21S11, D18S51, DYS391, D2S441, D19S433, TH01, FGA, D22S1045, D5S818, D13S317, D7S820, SE33, D10S1248, D1S1656, D12S391, D2S1338

GlobalFiler™: D3S1358, vWA, D16S539, CSF1PO, TPOX, Yindel, AMELOGENIN, D8S1179, D21S11, D18S51, DYS391, D2S441, D19S433, TH01, FGA, D22S1045, D5S818, D13S317, D7S820, SE33, D10S1248, D1S1656, D12S391, D2S1338

This report supplements the testing performed in the reports issued on June 25, 2021, July 25, 2021, November 10, 2021, and September 22, 2022.

L21-17381 item 57 was analyzed by Forensic Scientist Adrienne Hefney in a report issued on September 10, 2021.

Italics indicate additional items and/or results.

Any remaining evidence and/or packaging will be returned to the requesting agency.

The verbal scales listed in the tables below were implemented by SLED for use with STRmix™ results only. Verbal scales are designed to assist in conveying the weight of likelihood ratios.

Supported Proposition	Likelihood Ratio	Verbal Wording
First proposition (Hp) is supported against the alternative proposition (Hd)	1	Uninformative
	2 to 99	Weak support
	100 to 9,999	Moderate support
	10,000 to 999,999	Strong support
	≥ 1,000,000	Very strong support

Supported Proposition	Likelihood Ratio	Verbal Wording
The alternative proposition (Hd) is supported against the first proposition (Hp)	1	Uninformative
	2 to 99	Moderate support for Hd
	≥100	Exclusion

Reported likelihood ratios are based on the stated propositions. Alternate propositions may require calculation of additional likelihood ratios. If interpretation based on propositions other than those reported is needed, please contact the analyst listed below and allow up to **30 business days** for calculation and reporting of additional likelihood ratios.



Definitions:

Proposition: A statement, based on case circumstances and genetic results, that expresses an opinion

Hp: First proposition

Hd: Alternative proposition

Likelihood ratio: The comparison of the probability of the evidence given Hp and the probability of the evidence given Hd

Person of interest: An individual whose known standard has been submitted for comparison

This report contains the conclusions, opinions and interpretations of the analyst whose signature appears below.

Technical records supporting the conclusions in this report are available upon request. Afford sufficient time for production.



Sarah Zapata

Forensic Scientist



SOUTH CAROLINA LAW ENFORCEMENT DIVISION

FORENSIC SERVICES LABORATORY REPORT

HENRY D. MCMASTER
Governor



MARK A. KEEL
Chief

December 01, 2022

David Owen, III
South Carolina Law Enforcement Division
4400 Broad River Road
Columbia, SC 29210

DNA ANALYSIS

SLED LAB: L21-09074
Your Case No: 31210061
Incident Date: 6/7/2021
[V-Deceased] Paul Murdaugh
[V-Deceased] Margaret Murdaugh
[W] Richard Murdaugh

This is an official report of the South Carolina Law Enforcement Division Forensic Services Laboratory and is to be used in connection with an official criminal investigation. These examinations were conducted under your assurance that no previous examinations of person(s) or evidence submitted in this case have been or will be conducted by any other laboratory or agency.

Mark A. Keel, Chief
South Carolina Law Enforcement Division

SUPPLEMENTAL

COMPARISON STANDARDS

205 *Buccal swabs from Ronald Freeman*

RESULTS:

- *The DNA profile developed is suitable for use as a known standard.*

206 *Buccal swabs from Matthew Luce*

RESULTS:

- *The DNA profile developed is suitable for use as a known standard.*

207 *EasiCollect+ from Hipolito Torez*

RESULTS:

- *The DNA profile developed is suitable for use as a known standard.*



208 *EasiCollect+* from Alhan Gonzales (labeled as "Alhan H.M.T. Gonzales")

RESULTS:

- The DNA profile developed is suitable for use as a known standard.

ITEMS OF EVIDENCE

- 7.1 M-Vac collection from items 2-7
- 10.1 Swabs from entire exterior of items 9 & 10
- 17 Swabs from ext. door knob of storage room door
- 21.2 Cutting from left shoelace of pair of red, yellow, and white tennis shoes from Richard Murdaugh

ADDITIONAL RESULTS FOR ITEMS 7.1, 10.1, 17, AND 21.2:

- Ronald Freeman, Matthew Luce, Hipolito Torez, and Alhan H.M.T. Gonzales are excluded as the contributor.

- 15 Swabs from camo Benelli 12 GA shotgun from receiver forward of the loading port
- 19.2 Cutting from exterior front, bottom edge of white shirt from Richard Murdaugh
- 19.3 Cutting from exterior, back, bottom center of white shirt from Richard Murdaugh
- 19.4 Cutting from stain "A" on white shirt from Richard Murdaugh

ADDITIONAL RESULTS FOR ITEMS 15, 19.2, 19.3, AND 19.4:

- Ronald Freeman, Matthew Luce, Hipolito Torez, and Alhan H.M.T. Gonzales are excluded as contributors.

- 19.5 Cutting from stain "B" on white shirt from Richard Murdaugh

RESULTS:

- No human blood identified.
- A DNA profile suitable for comparison was developed.
- Paul Murdaugh, John Murdaugh, Richard Alexander Murdaugh, Jr. (Buster), Randy Murdaugh, Curtis Smith, Ronald Freeman, Matthew Luce, and Alhan H.M.T. Gonzales are excluded as contributors.
- Likelihood Ratios (LR) for this profile were calculated using STRmix™.



• **Proposition Set I:**

- The DNA profile was interpreted as a mixture originating from two individuals.
 - Richard Alexander Murdaugh is contributing to the mixture.
 - Hp = Richard Alexander Murdaugh and Margaret Murdaugh contributed to the mixture.
 - Hd = Richard Alexander Murdaugh and an unidentified unrelated individual contributed to the mixture.
- The DNA profile is approximately 3,800 (3.8E3) times more likely if Richard Alexander Murdaugh and Margaret Murdaugh contributed to the mixture than if Richard Alexander Murdaugh and an unidentified unrelated individual contributed to the mixture.

• **Proposition Set II:**

- *The DNA profile was interpreted as a mixture originating from two individuals.*
 - *Richard Alexander Murdaugh is contributing to the mixture.*
 - *Hp = Richard Alexander Murdaugh and Hipolito Torez contributed to the mixture.*
 - *Hd = Richard Alexander Murdaugh and an unidentified unrelated individual contributed to the mixture.*
- *Hipolito Torez is excluded as a contributor to the mixture under the listed propositions.*

19.6 Cutting from stain "C" on white shirt from Richard Murdaugh

RESULTS:

- No human blood identified.
- A DNA profile suitable for comparison was developed.
- John Murdaugh and Randy Murdaugh are excluded as contributors.
- Due to the relatedness of the contributors, no conclusions will be offered regarding Paul Murdaugh and Richard Alexander Murdaugh, Jr. (Buster) as possible contributors to the mixture.
- Likelihood Ratios (LR) for this profile were calculated using STRmix™.



• **Proposition Set I:**

- The DNA profile was interpreted as a mixture originating from three individuals.
 - Richard Alexander Murdaugh is contributing to the mixture.
 - Hp = Richard Alexander Murdaugh, Margaret Murdaugh, and an unidentified unrelated individual contributed to the mixture.
 - Hd = Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.
- The DNA profile is approximately 570 octillion ($5.7E29$) times more likely if Richard Alexander Murdaugh, Margaret Murdaugh, and an unidentified unrelated individual contributed to the mixture than if Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.

• **Proposition Set II:**

- The DNA profile was interpreted as a mixture originating from three individuals.
 - Richard Alexander Murdaugh is contributing to the mixture.
 - Hp = Richard Alexander Murdaugh, Curtis Smith, and an unidentified unrelated individual contributed to the mixture.
 - Hd = Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.
- The DNA profile is approximately 2 ($1/4.1E-1$) times more likely if Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture than if Richard Alexander Murdaugh, Curtis Smith, and an unidentified unrelated individual contributed to the mixture.

• **Proposition Set III:**

- *The DNA profile was interpreted as a mixture originating from three individuals.*
- *Richard Alexander Murdaugh is contributing to the mixture.*
- *Hp = Richard Alexander Murdaugh, Ronald Freeman, and an unidentified unrelated individual contributed to the mixture.*
- *Hd = Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.*



- *An uninformative statistical result was obtained. No conclusion can be made regarding Ronald Freeman as a possible contributor to the mixture under the listed propositions.*

• **Proposition Set IV:**

- *The DNA profile was interpreted as a mixture originating from three individuals.*
- *Richard Alexander Murdaugh is contributing to the mixture.*
- *H_p = Richard Alexander Murdaugh, Matthew Luce, and an unidentified unrelated individual contributed to the mixture.*
- *H_d = Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.*
- *The DNA profile is approximately 11 (1/8.8E-2) times more likely if Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture than if Richard Alexander Murdaugh, Matthew Luce, and an unidentified unrelated individual contributed to the mixture.*

• **Proposition Set V:**

- *The DNA profile was interpreted as a mixture originating from three individuals.*
- *Richard Alexander Murdaugh is contributing to the mixture.*
- *H_p = Richard Alexander Murdaugh, Hipolito Torez, and an unidentified unrelated individual contributed to the mixture.*
- *H_d = Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.*
- *The DNA profile is approximately 14 (1/6.8E-2) times more likely if Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture than if Richard Alexander Murdaugh, Hipolito Torez, and an unidentified unrelated individual contributed to the mixture.*

• **Proposition Set VI:**

- *The DNA profile was interpreted as a mixture originating from three individuals.*
- *Richard Alexander Murdaugh is contributing to the mixture.*
- *H_p = Richard Alexander Murdaugh, Alhan H.M.T. Gonzalaes, and an unidentified unrelated individual contributed to the mixture.*



- H_d = Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.

- The DNA profile is approximately 3 ($1/3.3E-1$) times more likely if Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture than if Richard Alexander Murdaugh, Alhan H.M.T. Gonzales, and an unidentified unrelated individual contributed to the mixture.

19.7 Cutting from stain "D" on white shirt from Richard Murdaugh

RESULTS:

- No human blood identified.
- A DNA profile suitable for comparison was developed.
- John Murdaugh and Randy Murdaugh are excluded as contributors.
- Due to the relatedness of the contributors, no conclusions will be offered regarding Paul Murdaugh and Richard Alexander Murdaugh, Jr. (Buster) as possible contributors to the mixture.
- Likelihood Ratios (LR) for this profile were calculated using STRmix™.

• Proposition Set I:

- The DNA profile was interpreted as a mixture originating from four individuals.
- Richard Alexander Murdaugh is contributing to the mixture.
- H_p = Richard Alexander Murdaugh, Margaret Murdaugh, and two unidentified unrelated individuals contributed to the mixture.
- H_d = Richard Alexander Murdaugh and three unidentified unrelated individuals contributed to the mixture.
- The DNA profile is approximately 1.9 quadrillion ($1.9E15$) times more likely if Richard Alexander Murdaugh, Margaret Murdaugh, and two unidentified unrelated individuals contributed to the mixture than if Richard Alexander Murdaugh and three unidentified unrelated individuals contributed to the mixture.

• Proposition Set II:

- The DNA profile was interpreted as a mixture originating from four individuals.
- Richard Alexander Murdaugh is contributing to the mixture.



- Hp = Richard Alexander Murdaugh, Nolen Tuten, and two unidentified unrelated individuals contributed to the mixture.
- Hd = Richard Alexander Murdaugh and three unidentified unrelated individuals contributed to the mixture.
- The DNA profile is approximately 48 septillion ($4.8E25$) times more likely if Richard Alexander Murdaugh, Nolen Tuten, and two unidentified unrelated individuals contributed to the mixture than if Richard Alexander Murdaugh and three unidentified unrelated individuals contributed to the mixture.
- **Proposition Set III:**
 - The DNA profile was interpreted as a mixture originating from four individuals.
 - Richard Alexander Murdaugh is contributing to the mixture.
 - Hp = Richard Alexander Murdaugh, Margaret Murdaugh, Nolen Tuten, and an unidentified unrelated individual contributed to the mixture.
 - Hd = Richard Alexander Murdaugh and three unidentified unrelated individuals contributed to the mixture.
- The DNA profile is approximately 450 duodecillion ($4.5E41$) times more likely if Richard Alexander Murdaugh, Margaret Murdaugh, Nolen Tuten, and an unidentified unrelated individual contributed to the mixture than if Richard Alexander Murdaugh and three unidentified unrelated individuals contributed to the mixture.
- **Proposition Set IV:**
 - The DNA profile was interpreted as a mixture originating from four individuals.
 - Richard Alexander Murdaugh is contributing to the mixture.
 - Hp = Richard Alexander Murdaugh, *the person of interest*, and two unidentified unrelated individuals contributed to the mixture.
 - Hd = Richard Alexander Murdaugh and three unidentified unrelated individuals contributed to the mixture.
- Curtis Smith, *Ronald Freeman, Matthew Luce, Hipolito Torez, and Alhan H.M.T. Gonzalaes* are excluded as contributors to the mixture under the listed propositions.



19.8 Cutting from stain "E" on white shirt from Richard Murdaugh

RESULTS:

- No human blood identified.
- A DNA profile suitable for comparison was developed.
- Paul Murdaugh, John Murdaugh, Richard Alexander Murdaugh, Jr. (Buster) and Randy Murdaugh are excluded as contributors.
- Likelihood Ratios (LR) for this profile were calculated using STRmix™.
- **Proposition Set I:**
 - The DNA profile was interpreted as a mixture originating from three individuals.
 - Richard Alexander Murdaugh is contributing to the mixture.
 - Hp = Richard Alexander Murdaugh, Margaret Murdaugh, and an unidentified unrelated individual contributed to the mixture.
 - Hd = Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.
- The DNA profile is approximately 590 million (5.9E8) times more likely if Richard Alexander Murdaugh, Margaret Murdaugh, and an unidentified unrelated individual contributed to the mixture than if Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.
- **Proposition Set II:**
 - The DNA profile was interpreted as a mixture originating from three individuals.
 - Richard Alexander Murdaugh is contributing to the mixture.
 - Hp = Richard Alexander Murdaugh, Curtis Smith, and an unidentified unrelated individual contributed to the mixture.
 - Hd = Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.
- The DNA profile is approximately 2 (1/3.9E-1) times more likely if Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture than if Richard Alexander Murdaugh, Curtis Smith, and an unidentified unrelated individual contributed to the mixture.



• **Proposition Set III:**

- *The DNA profile was interpreted as a mixture originating from three individuals.*
 - *Richard Alexander Murdaugh is contributing to the mixture.*
 - *Hp = Richard Alexander Murdaugh, Ronald Freeman, and an unidentified unrelated individual contributed to the mixture.*
 - *Hd = Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.*
- *The DNA profile is approximately 6 (1/1.5E-1) times more likely if Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture than if Richard Alexander Murdaugh, Ronald Freeman, and an unidentified unrelated individual contributed to the mixture*

• **Proposition Set IV:**

- *The DNA profile was interpreted as a mixture originating from three individuals.*
 - *Richard Alexander Murdaugh is contributing to the mixture.*
 - *Hp = Richard Alexander Murdaugh, the person of interest, and an unidentified unrelated individual contributed to the mixture.*
 - *Hd = Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.*
- *Matthew Luce, Hipolito Torez, and Alhan H.M.T. Gonzalaes are excluded as contributors to the mixture under the listed propositions.*

- 19.10 Cutting from stain "G" on white shirt from Richard Murdaugh
19.12 Cutting from stain "I" on white shirt from Richard Murdaugh
19.13 Cutting from stain "J" on white shirt from Richard Murdaugh
20.2 Cutting from front, left interior pocket of pair of green shorts from Richard Murdaugh

ADDITIONAL RESULTS FOR ITEMS 19.10, 19.12, 19.13, AND 20.2:

- *Ronald Freeman, Matthew Luce, Hipolito Torez, and Alhan H.M.T. Gonzalaes are excluded as contributors.*

- 19.11 Cutting from stain "H" on white shirt from Richard Murdaugh

RESULTS:

- No human blood identified.



- A DNA profile suitable for comparison was developed.
- Paul Murdaugh, John Murdaugh, Richard Alexander Murdaugh, Jr. (Buster), Randy Murdaugh, Curtis Smith, *Ronald Freeman, Matthew Luce, and Alhan H.M.T. Gonzales* are excluded as contributors.
- Likelihood Ratios (LR) for this profile were calculated using STRmix™.
- **Proposition Set I:**
 - The DNA profile was interpreted as a mixture originating from two individuals.
 - Richard Alexander Murdaugh is contributing to the mixture.
 - Hp = Richard Alexander Murdaugh and Margaret Murdaugh contributed to the mixture.
 - Hd = Richard Alexander Murdaugh and an unidentified unrelated individual contributed to the mixture.
- An uninformative statistical result was obtained. No conclusion can be made regarding Margaret Murdaugh as a possible contributor to the mixture under the listed propositions.
- **Proposition Set II:**
 - *The DNA profile was interpreted as a mixture originating from two individuals.*
 - *Richard Alexander Murdaugh is contributing to the mixture.*
 - *Hp = Richard Alexander Murdaugh and Hipolito Torez contributed to the mixture.*
 - *Hd = Richard Alexander Murdaugh and an unidentified unrelated individual contributed to the mixture.*
- *The DNA profile is approximately 10 (1.0E1) times more likely if Richard Alexander Murdaugh and Hipolito Torez contributed to the mixture than if Richard Alexander Murdaugh and an unidentified unrelated individual contributed to the mixture.*

20.3 Cutting from stain "A" on pair of green shorts from Richard Murdaugh

RESULTS:

- A DNA profile suitable for comparison was developed.
- John Murdaugh and Randy Murdaugh are excluded as contributors.



- Due to the relatedness of the contributors, no conclusions will be offered regarding Paul Murdaugh and Richard Alexander Murdaugh, Jr. (Buster) as possible contributors to the mixture.

- Likelihood Ratios (LR) for this profile were calculated using STRmix™.

• **Proposition Set I:**

- The DNA profile was interpreted as a mixture originating from three individuals.
- Richard Alexander Murdaugh is contributing to the mixture.
- Hp = Richard Alexander Murdaugh, Margaret Murdaugh, and an unidentified unrelated individual contributed to the mixture.
- Hd = Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.

- The DNA profile is approximately 94 septillion (9.4E25) times more likely if Richard Alexander Murdaugh, Margaret Murdaugh, and an unidentified unrelated individual contributed to the mixture than if Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.

• **Proposition Set II:**

- The DNA profile was interpreted as a mixture originating from three individuals.
- Richard Alexander Murdaugh is contributing to the mixture.
- Hp = Richard Alexander Murdaugh, Curtis Smith, and an unidentified unrelated individual contributed to the mixture.
- Hd = Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.

- An uninformative statistical result was obtained. No conclusion can be made regarding Curtis Smith as a possible contributor to the mixture under the listed propositions.

• **Proposition Set III:**

- *The DNA profile was interpreted as a mixture originating from three individuals.*
- *Richard Alexander Murdaugh is contributing to the mixture.*
- *Hp = Richard Alexander Murdaugh, Ronald Freeman, and an unidentified unrelated individual contributed to the mixture.*



- *Hd = Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.*

- *The DNA profile is approximately 5 (1/2.0E-1) times more likely if Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture than if Richard Alexander Murdaugh, Ronald Freeman, and an unidentified unrelated individual contributed to the mixture.*

- **Proposition Set IV:**

- *The DNA profile was interpreted as a mixture originating from three individuals.*

- *Richard Alexander Murdaugh is contributing to the mixture.*

- *Hp = Richard Alexander Murdaugh, Matthew Luce, and an unidentified unrelated individual contributed to the mixture.*

- *Hd = Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.*

- *The DNA profile is approximately 20 (1/4.9E-2) times more likely if Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture than if Richard Alexander Murdaugh, Matthew Luce, and an unidentified unrelated individual contributed to the mixture.*

- **Proposition Set V:**

- *The DNA profile was interpreted as a mixture originating from three individuals.*

- *Richard Alexander Murdaugh is contributing to the mixture.*

- *Hp = Richard Alexander Murdaugh, Hipolito Torez, and an unidentified unrelated individual contributed to the mixture.*

- *Hd = Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.*

- *Hipolito Torez is excluded as a contributor to the mixture under the listed propositions.*

- **Proposition Set VI:**

- *The DNA profile was interpreted as a mixture originating from three individuals.*

- *Richard Alexander Murdaugh is contributing to the mixture.*

- *Hp = Richard Alexander Murdaugh, Alhan H.M.T. Gonzalaes, and an unidentified unrelated individual contributed to the mixture.*



• *Hd = Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.*

• *The DNA profile is approximately 28 (1/3.5E-2) times more likely if Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture than if Richard Alexander Murdaugh, Alhan H.M.T. Gonzalaes, and an unidentified unrelated individual contributed to the mixture.*

- 20.4 Cutting from stain "G" on pair of green shorts from Richard Murdaugh
- 20.5 Cutting from stain "C" on pair of green shorts from Richard Murdaugh
- 20.6 Cutting from stain "D" on pair of green shorts from Richard Murdaugh
- 20.8 Cutting from stain "F" on pair of green shorts from Richard Murdaugh
- 22.4 Debris from the right side of the Item 22 receiver (camo Benelli Super Black Eagle 3 SN:US73210E17)
- 22.5 Debris from the left side of the Item 22 receiver, above manufacturer information (camo Benelli Super Black Eagle 3 SN:US73210E17)
- 56 Swabs collected from steering wheel (Chevy Suburban)
- 70 Left fingernail clippings from Margaret Murdaugh

ADDITIONAL RESULTS FOR ITEMS 20.4, 20.5, 20.6, 20.8, 22.4, 22.5, 56, AND 70:

• *Ronald Freeman, Matthew Luce, Hipolito Torez, and Alhan H.M.T. Gonzalaes are excluded as contributors.*

NOTES:

DNA analysis was performed using Short Tandem Repeat (STR) PCR DNA analysis.

The following kits/loci were utilized in the analysis of this case:

GlobalFiler™ Express: D3S1358, vWA, D16S539, CSF1PO, TPOX, Yindel, AMELOGENIN, D8S1179, D21S11, D18S51, DYS391, D2S441, D19S433, TH01, FGA, D22S1045, D5S818, D13S317, D7S820, SE33, D10S1248, D1S1656, D12S391, D2S1338

GlobalFiler™: D3S1358, vWA, D16S539, CSF1PO, TPOX, Yindel, AMELOGENIN, D8S1179, D21S11, D18S51, DYS391, D2S441, D19S433, TH01, FGA, D22S1045, D5S818, D13S317, D7S820, SE33, D10S1248, D1S1656, D12S391, D2S1338

This report supplements the testing performed in the reports issued on June 25, 2021, July 25, 2021, November 10, 2021, September 22, 2022, and November 02, 2022.

L21-17381 item 57 was analyzed by Forensic Scientist Adrienne Hefney in a report issued on September 10, 2021.

Italics indicate additional items and/or results.



Any remaining evidence and/or packaging will be returned to the requesting agency.

The verbal scales listed in the tables below were implemented by SLED for use with STRmix™ results only. Verbal scales are designed to assist in conveying the weight of likelihood ratios.

Supported Proposition	Likelihood Ratio	Verbal Wording
First proposition (Hp) is supported against the alternative proposition (Hd)	1	Uninformative
	2 to 99	Weak support
	100 to 9,999	Moderate support
	10,000 to 999,999	Strong support
	≥ 1,000,000	Very strong support

Supported Proposition	Likelihood Ratio	Verbal Wording
The alternative proposition (Hd) is supported against the first proposition (Hp)	1	Uninformative
	2 to 99	Moderate support for Hd
	≥100	Exclusion

Reported likelihood ratios are based on the stated propositions. Alternate propositions may require calculation of additional likelihood ratios. If interpretation based on propositions other than those reported is needed, please contact the analyst listed below and allow up to **30 business days** for calculation and reporting of additional likelihood ratios.

Definitions:

Proposition: A statement, based on case circumstances and genetic results, that expresses an opinion

Hp: First proposition

Hd: Alternative proposition

Likelihood ratio: The comparison of the probability of the evidence given Hp and the probability of the evidence given Hd

Person of interest: An individual whose known standard has been submitted for comparison



This report contains the conclusions, opinions and interpretations of the analyst whose signature appears below.

Technical records supporting the conclusions in this report are available upon request. Afford sufficient time for production.



Sarah Zapata

Forensic Scientist

COURTESY OF
LUNA SHARK MEDIA



SOUTH CAROLINA LAW ENFORCEMENT DIVISION

FORENSIC SERVICES LABORATORY REPORT

HENRY D. MCMASTER
Governor



MARK A. KEEL
Chief

January 06, 2023

David Owen, III
South Carolina Law Enforcement Division
4400 Broad River Road
Columbia, SC 29210

DNA ANALYSIS

SLED LAB: L21-09074
Your Case No: 31210061
Incident Date: 6/7/2021
[V-Deceased] Paul Murdaugh
[V-Deceased] Margaret Murdaugh
[W] Richard Murdaugh

This is an official report of the South Carolina Law Enforcement Division Forensic Services Laboratory and is to be used in connection with an official criminal investigation. These examinations were conducted under your assurance that no previous examinations of person(s) or evidence submitted in this case have been or will be conducted by any other laboratory or agency.
Mark A. Keel, Chief
South Carolina Law Enforcement Division

AMENDED SUPPLEMENTAL

COMPARISON STANDARDS

138 Buccal swabs from Nolen Tuten

RESULTS:

- The DNA profile developed is suitable for use as a known standard.

ITEMS OF EVIDENCE

19.3 Cutting from exterior, back, bottom center of white shirt from Richard Murdaugh

RESULTS:

- *Presumptive testing for blood was positive.*
- A DNA profile suitable for comparison was developed.
- Paul Murdaugh, John Murdaugh, Richard Alexander Murdaugh, Jr. (Buster), and Randy Murdaugh are excluded as contributors.
- Likelihood Ratios (LR) for this profile were calculated using STRmix™.



• **Proposition Set:**

- The DNA profile was interpreted as a mixture originating from two individuals.
- Richard Alexander Murdaugh is contributing to the mixture.
- Hp = Richard Alexander Murdaugh and Margaret Murdaugh contributed to the mixture.
- Hd = Richard Alexander Murdaugh and an unidentified unrelated individual contributed to the mixture.

• The DNA profile is approximately 360 quadrillion (3.6E17) times more likely if Richard Alexander Murdaugh and Margaret Murdaugh contributed to the mixture than if Richard Alexander Murdaugh and an unidentified unrelated individual contributed to the mixture.

19.4 Cutting from stain "A" on white shirt from Richard Murdaugh

RESULTS:

- A DNA profile suitable for comparison was developed.
- Margaret Murdaugh, John Murdaugh, Richard Alexander Murdaugh, Jr. (Buster), and Randy Murdaugh are excluded as contributors.
- Likelihood Ratios (LR) for this profile were calculated using STRmix™.

• **Proposition Set I:**

- The DNA profile was interpreted as a mixture originating from two individuals.
- Hp = Richard Alexander Murdaugh and an unidentified unrelated individual contributed to the mixture.
- Hd = Two unidentified unrelated individuals contributed to the mixture.

• The DNA profile is approximately 120 quadrillion (1.2E17) times more likely if Richard Alexander Murdaugh and an unidentified unrelated individual contributed to the mixture than if two unidentified unrelated individuals contributed to the mixture.

• **Proposition Set II:**

- The DNA profile was interpreted as a mixture originating from two individuals.
- Richard Alexander Murdaugh is contributing to the mixture.
- Hp = Richard Alexander Murdaugh and Paul Murdaugh contributed to the mixture.



- Hd = Richard Alexander Murdaugh and an unidentified unrelated individual contributed to the mixture.

- The DNA profile is approximately 7 octillion (7.0E27) times more likely if Richard Alexander Murdaugh and Paul Murdaugh contributed to the mixture than if Richard Alexander Murdaugh and an unidentified unrelated individual contributed to the mixture.

19.5 Cutting from stain "B" on white shirt from Richard Murdaugh

RESULTS:

- A DNA profile suitable for comparison was developed.
- Paul Murdaugh, John Murdaugh, Richard Alexander Murdaugh, Jr. (Buster), and Randy Murdaugh are excluded as contributors.
- Likelihood Ratios (LR) for this profile were calculated using STRmix™.
- **Proposition Set:**
 - The DNA profile was interpreted as a mixture originating from two individuals.
 - Richard Alexander Murdaugh is contributing to the mixture.
 - Hp = Richard Alexander Murdaugh and Margaret Murdaugh contributed to the mixture.
 - Hd = Richard Alexander Murdaugh and an unidentified unrelated individual contributed to the mixture.
- The DNA profile is approximately 3,800 (3.8E3) times more likely if Richard Alexander Murdaugh and Margaret Murdaugh contributed to the mixture than if Richard Alexander Murdaugh and an unidentified unrelated individual contributed to the mixture.

19.6 Cutting from stain "C" on white shirt from Richard Murdaugh

RESULTS:

- A DNA profile suitable for comparison was developed.
- John Murdaugh and Randy Murdaugh are excluded as contributors.
- Due to the relatedness of the contributors, no conclusions will be offered regarding Paul Murdaugh and Richard Alexander Murdaugh, Jr. (Buster) as possible contributors to the mixture.
- Likelihood Ratios (LR) for this profile were calculated using STRmix™.



• **Proposition Set:**

- The DNA profile was interpreted as a mixture originating from three individuals.
- Richard Alexander Murdaugh is contributing to the mixture.
- Hp = Richard Alexander Murdaugh, Margaret Murdaugh, and an unidentified unrelated individual contributed to the mixture.
- Hd = Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.
- The DNA profile is approximately 570 octillion (5.7E29) times more likely if Richard Alexander Murdaugh, Margaret Murdaugh, and an unidentified unrelated individual contributed to the mixture than if Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.

19.7 Cutting from stain "D" on white shirt from Richard Murdaugh

RESULTS:

- A DNA profile suitable for comparison was developed.
- John Murdaugh and Randy Murdaugh are excluded as contributors.
- Due to the relatedness of the contributors, no conclusions will be offered regarding Paul Murdaugh and Richard Alexander Murdaugh, Jr. (Buster) as possible contributors to the mixture.
- Likelihood Ratios (LR) for this profile were calculated using STRmix™.

• **Proposition Set I:**

- The DNA profile was interpreted as a mixture originating from four individuals.
- Richard Alexander Murdaugh is contributing to the mixture.
- Hp = Richard Alexander Murdaugh, Margaret Murdaugh, and two unidentified unrelated individuals contributed to the mixture.
- Hd = Richard Alexander Murdaugh and three unidentified unrelated individuals contributed to the mixture.
- The DNA profile is approximately 1.9 quadrillion (1.9E15) times more likely if Richard Alexander Murdaugh, Margaret Murdaugh, and two unidentified unrelated individuals contributed to the mixture than if Richard Alexander Murdaugh and three unidentified unrelated individuals contributed to the mixture.



• **Proposition Set II:**

- The DNA profile was interpreted as a mixture originating from four individuals.
- Richard Alexander Murdaugh is contributing to the mixture.
- Hp = Richard Alexander Murdaugh, Nolen Tuten, and two unidentified unrelated individuals contributed to the mixture.
- Hd = Richard Alexander Murdaugh and three unidentified unrelated individuals contributed to the mixture.
- The DNA profile is approximately 48 septillion (4.8E25) times more likely if Richard Alexander Murdaugh, Nolen Tuten, and two unidentified unrelated individuals contributed to the mixture than if Richard Alexander Murdaugh and three unidentified unrelated individuals contributed to the mixture.

• **Proposition Set III:**

- The DNA profile was interpreted as a mixture originating from four individuals.
- Richard Alexander Murdaugh is contributing to the mixture.
- Hp = Richard Alexander Murdaugh, Margaret Murdaugh, Nolen Tuten, and an unidentified unrelated individual contributed to the mixture.
- Hd = Richard Alexander Murdaugh and three unidentified unrelated individuals contributed to the mixture.
- The DNA profile is approximately 450 duodecillion (4.5E41) times more likely if Richard Alexander Murdaugh, Margaret Murdaugh, Nolen Tuten, and an unidentified unrelated individual contributed to the mixture than if Richard Alexander Murdaugh and three unidentified unrelated individuals contributed to the mixture.

19.8 Cutting from stain "E" on white shirt from Richard Murdaugh

RESULTS:

- A DNA profile suitable for comparison was developed.
- Paul Murdaugh, John Murdaugh, Richard Alexander Murdaugh, Jr. (Buster) and Randy Murdaugh are excluded as contributors.
- Likelihood Ratios (LR) for this profile were calculated using STRmix™.



• **Proposition Set:**

- The DNA profile was interpreted as a mixture originating from three individuals.
- Richard Alexander Murdaugh is contributing to the mixture.
- Hp = Richard Alexander Murdaugh, Margaret Murdaugh, and an unidentified unrelated individual contributed to the mixture.
- Hd = Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.
- The DNA profile is approximately 590 million (5.9E8) times more likely if Richard Alexander Murdaugh, Margaret Murdaugh, and an unidentified unrelated individual contributed to the mixture than if Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.

19.9 Cutting from stain "F" on white shirt from Richard Murdaugh

RESULTS:

- A DNA profile was developed.
- Due to the inability to determine the number of contributors, no further interpretation will be offered.

19.10 Cutting from stain "G" on white shirt from Richard Murdaugh

RESULTS:

- A DNA profile suitable for comparison was developed.
- John Murdaugh, Richard Alexander Murdaugh, Jr. (Buster) and Randy Murdaugh are excluded as contributors.
- Likelihood Ratios (LR) for this profile were calculated using STRmix™.

• **Proposition Set I:**

- The DNA profile was interpreted as a mixture originating from three individuals.
- Richard Alexander Murdaugh is contributing to the mixture.
- Hp = Richard Alexander Murdaugh, Margaret Murdaugh, and an unidentified unrelated individual contributed to the mixture.



- Hd = Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.
- The DNA profile is approximately 430 octillion (4.3E29) times more likely if Richard Alexander Murdaugh, Margaret Murdaugh, and an unidentified unrelated individual contributed to the mixture than if Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.
- **Proposition Set II:**
 - The DNA profile was interpreted as a mixture originating from three individuals.
 - Richard Alexander Murdaugh is contributing to the mixture.
 - Hp = Richard Alexander Murdaugh, Paul Murdaugh, and an unidentified unrelated individual contributed to the mixture.
 - Hd = Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.
- Paul Murdaugh is excluded as a contributor to the mixture under the listed propositions.

19.11 Cutting from stain "H" on white shirt from Richard Murdaugh

RESULTS:

- A DNA profile suitable for comparison was developed.
- Paul Murdaugh, John Murdaugh, Richard Alexander Murdaugh, Jr. (Buster), and Randy Murdaugh are excluded as contributors.
- Likelihood Ratios (LR) for this profile were calculated using STRmix™.
- **Proposition Set:**
 - The DNA profile was interpreted as a mixture originating from two individuals.
 - Richard Alexander Murdaugh is contributing to the mixture.
 - Hp = Richard Alexander Murdaugh and Margaret Murdaugh contributed to the mixture.
 - Hd = Richard Alexander Murdaugh and an unidentified unrelated individual contributed to the mixture.
- An uninformative statistical result was obtained. No conclusion can be made regarding Margaret Murdaugh as a possible contributor to the mixture under the listed propositions.



19.12 Cutting from stain "I" on white shirt from Richard Murdaugh

RESULTS:

- A DNA profile suitable for comparison was developed.
- Paul Murdaugh, John Murdaugh, Richard Alexander Murdaugh, Jr. (Buster), and Randy Murdaugh are excluded as contributors.
- Likelihood Ratios (LR) for this profile were calculated using STRmix™.
- **Proposition Set:**
 - The DNA profile was interpreted as a mixture originating from two individuals.
 - Richard Alexander Murdaugh is contributing to the mixture.
 - Hp = Richard Alexander Murdaugh and Margaret Murdaugh contributed to the mixture.
 - Hd = Richard Alexander Murdaugh and an unidentified unrelated individual contributed to the mixture.
- The DNA profile is approximately 1.3 nonillion (1.3E30) times more likely if Richard Alexander Murdaugh and Margaret Murdaugh contributed to the mixture than if Richard Alexander Murdaugh and an unidentified unrelated individual contributed to the mixture.

19.13 Cutting from stain "J" on white shirt from Richard Murdaugh

RESULTS:

- A DNA profile suitable for comparison was developed.
- John Murdaugh, Richard Alexander Murdaugh, Jr. (Buster) and Randy Murdaugh are excluded as contributors.
- Likelihood Ratios (LR) for this profile were calculated using STRmix™.
- **Proposition Set I:**
 - The DNA profile was interpreted as a mixture originating from three individuals.
 - Hp = Margaret Murdaugh and two unidentified unrelated individuals contributed to the mixture.
 - Hd = Three unidentified unrelated individuals contributed to the mixture.



- The DNA profile is approximately 1.5 sextillion (1.5E21) times more likely if Margaret Murdaugh and two unidentified unrelated individuals contributed to the mixture than if three unidentified unrelated individuals contributed to the mixture.

• **Proposition Set II:**

- The DNA profile was interpreted as a mixture originating from three individuals.
- Hp = Paul Murdaugh and two unidentified unrelated individuals contributed to the mixture.
- Hd = Three unidentified unrelated individuals contributed to the mixture.
- The DNA profile is approximately 24 quintillion (2.4E19) times more likely if Paul Murdaugh and two unidentified unrelated individuals contributed to the mixture than if three unidentified unrelated individuals contributed to the mixture.

• **Proposition Set III:**

- The DNA profile was interpreted as a mixture originating from three individuals.
- Hp = Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.
- Hd = Three unidentified unrelated individuals contributed to the mixture.
- The DNA profile is approximately 29 (2.9E1) times more likely if Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture than if three unidentified unrelated individuals contributed to the mixture.

• **Proposition Set IV:**

- The DNA profile was interpreted as a mixture originating from three individuals.
- Hp = Margaret Murdaugh, Paul Murdaugh, and Richard Alexander Murdaugh contributed to the mixture.
- Hd = Three unidentified unrelated individuals contributed to the mixture.
- The DNA profile is approximately 260 quindecillion (2.6E50) times more likely if Margaret Murdaugh, Paul Murdaugh, and Richard Alexander Murdaugh contributed to the mixture than if three unidentified unrelated individuals contributed to the mixture.
- The LR for Proposition Set IV was calculated to confirm that the mixture could be explained by the contribution of DNA from all individuals listed under Hp. Due to the disparity in the individual LRs between the contributors for this item, it is recommended to put more weight on the results of



Proposition Set III rather than the results of Proposition Set IV when considering Richard Alexander Murdaugh as a possible contributor to the mixture.

20.3 Cutting from stain "A" on pair of green shorts from Richard Murdaugh

RESULTS:

- A DNA profile suitable for comparison was developed.
- John Murdaugh and Randy Murdaugh are excluded as contributors.
- Due to the relatedness of the contributors, no conclusions will be offered regarding Paul Murdaugh and Richard Alexander Murdaugh, Jr. (Buster) as possible contributors to the mixture.
- Likelihood Ratios (LR) for this profile were calculated using STRmix™.
- **Proposition Set:**
 - The DNA profile was interpreted as a mixture originating from three individuals.
 - Richard Alexander Murdaugh is contributing to the mixture.
 - Hp = Richard Alexander Murdaugh, Margaret Murdaugh, and an unidentified unrelated individual contributed to the mixture.
 - Hd = Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.
- The DNA profile is approximately 94 septillion (9.4E25) times more likely if Richard Alexander Murdaugh, Margaret Murdaugh, and an unidentified unrelated individual contributed to the mixture than if Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.

20.4 Cutting from stain "G" on pair of green shorts from Richard Murdaugh

RESULTS:

- A DNA profile suitable for comparison was developed.
- John Murdaugh and Randy Murdaugh are excluded as contributors.
- Due to the relatedness of the contributors, no conclusions will be offered regarding Paul Murdaugh and Richard Alexander Murdaugh, Jr. (Buster) as possible contributors to the mixture.
- Likelihood Ratios (LR) for this profile were calculated using STRmix™.



• **Proposition Set:**

- The DNA profile was interpreted as a mixture originating from three individuals.
- Richard Alexander Murdaugh is contributing to the mixture.
- Hp = Richard Alexander Murdaugh, Margaret Murdaugh, and an unidentified unrelated individual contributed to the mixture.
- Hd = Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.
- The DNA profile is approximately 24 sextillion (2.4E22) times more likely if Richard Alexander Murdaugh, Margaret Murdaugh, and an unidentified unrelated individual contributed to the mixture than if Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.

20.5 Cutting from stain "C" on pair of green shorts from Richard Murdaugh

RESULTS:

- A DNA profile suitable for comparison was developed.
- Margaret Murdaugh, John Murdaugh, Richard Alexander Murdaugh, Jr. (Buster), and Randy Murdaugh are excluded as contributors.
- Likelihood Ratios (LR) for this profile were calculated using STRmix™.

• **Proposition Set:**

- The DNA profile was interpreted as a mixture originating from two individuals.
- Richard Alexander Murdaugh is contributing to the mixture.
- Hp = Richard Alexander Murdaugh and Paul Murdaugh contributed to the mixture.
- Hd = Richard Alexander Murdaugh and an unidentified unrelated individual contributed to the mixture.
- The DNA profile is approximately 4.1 septillion (4.1E24) times more likely if Richard Alexander Murdaugh and Paul Murdaugh contributed to the mixture than if Richard Alexander Murdaugh and an unidentified unrelated individual contributed to the mixture.



20.6 Cutting from stain "D" on pair of green shorts from Richard Murdaugh

RESULTS:

- A DNA profile suitable for comparison was developed.
- John Murdaugh, Richard Alexander Murdaugh, Jr. (Buster) and Randy Murdaugh are excluded as contributors.
- Likelihood Ratios (LR) for this profile were calculated using STRmix™.

• Proposition Set I:

- The DNA profile was interpreted as a mixture originating from three individuals.
- Hp = Margaret Murdaugh and two unidentified unrelated individuals contributed to the mixture.
- Hd = Three unidentified unrelated individuals contributed to the mixture.
- The DNA profile is approximately 930 quintillion (9.3E20) times more likely if Margaret Murdaugh and two unidentified unrelated individuals contributed to the mixture than if three unidentified unrelated individuals contributed to the mixture.

• Proposition Set II:

- The DNA profile was interpreted as a mixture originating from three individuals.
- Hp = Paul Murdaugh and two unidentified unrelated individuals contributed to the mixture.
- Hd = Three unidentified unrelated individuals contributed to the mixture.
- The DNA profile is approximately 38 quintillion (3.8E19) times more likely if Paul Murdaugh and two unidentified unrelated individuals contributed to the mixture than if three unidentified unrelated individuals contributed to the mixture.

• Proposition Set III:

- The DNA profile was interpreted as a mixture originating from three individuals.
- Hp = Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.
- Hd = Three unidentified unrelated individuals contributed to the mixture.



- The DNA profile is approximately 190 (1.9E2) times more likely if Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture than if three unidentified unrelated individuals contributed to the mixture.

• **Proposition Set IV:**

- The DNA profile was interpreted as a mixture originating from three individuals.
- Hp = Margaret Murdaugh, Paul Murdaugh, and Richard Alexander Murdaugh contributed to the mixture.
- Hd = Three unidentified unrelated individuals contributed to the mixture.
- The DNA profile is approximately 8.7 quindecillion (8.7E48) times more likely if Margaret Murdaugh, Paul Murdaugh, and Richard Alexander Murdaugh contributed to the mixture than if three unidentified unrelated individuals contributed to the mixture.
- The LR for Proposition Set IV was calculated to confirm that the mixture could be explained by the contribution of DNA from all individuals listed under Hp. Due to the disparity in the individual LRs between the contributors for this item, it is recommended to put more weight on the results of Proposition Set III rather than the results of Proposition Set IV when considering Richard Alexander Murdaugh as a possible contributor to the mixture.

20.7 Cutting from stain "E" on pair of green shorts from Richard Murdaugh

RESULTS:

- *Presumptive testing for blood was positive.*
- A DNA profile was developed.
- Due to the inability to determine the number of contributors, no further interpretation will be offered.

20.8 Cutting from stain "F" on pair of green shorts from Richard Murdaugh

RESULTS:

- A DNA profile suitable for comparison was developed.
- John Murdaugh and Randy Murdaugh are excluded as contributors.
- Likelihood Ratios (LR) for this profile were calculated using STRmix™.



• **Proposition Set I:**

- The DNA profile was interpreted as a mixture originating from three individuals.
- Hp = Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.
- Hd = Three unidentified unrelated individuals contributed to the mixture.
- The DNA profile is approximately 320 million (3.2E8) times more likely if Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture than if three unidentified unrelated individuals contributed to the mixture.

• **Proposition Set II:**

- The DNA profile was interpreted as a mixture originating from three individuals.
- Richard Alexander Murdaugh is contributing to the mixture.
- Hp = Richard Alexander Murdaugh, Margaret Murdaugh, and an unidentified unrelated individual contributed to the mixture.
- Hd = Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.
- The DNA profile is approximately 2.6 sextillion (2.6E21) times more likely if Richard Alexander Murdaugh, Margaret Murdaugh, and an unidentified unrelated individual contributed to the mixture than if Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.

• **Proposition Set III:**

- The DNA profile was interpreted as a mixture originating from three individuals.
- Richard Alexander Murdaugh is contributing to the mixture.
- Hp = Richard Alexander Murdaugh, Paul Murdaugh, and an unidentified unrelated individual contributed to the mixture.
- Hd = Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.
- The DNA profile is approximately 17 quintillion (1.7E19) times more likely if Richard Alexander Murdaugh, Paul Murdaugh, and an unidentified unrelated individual contributed to the mixture than if Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.



• **Proposition Set IV:**

- The DNA profile was interpreted as a mixture originating from three individuals.
 - Richard Alexander Murdaugh is contributing to the mixture.
 - Hp = Richard Alexander Murdaugh, Margaret Murdaugh, and Paul Murdaugh contributed to the mixture.
 - Hd = Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.
- The DNA profile is approximately 93 quattuordecillion (9.3E46) times more likely if Richard Alexander Murdaugh, Margaret Murdaugh, and Paul Murdaugh contributed to the mixture than if Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.

• **Proposition Set V:**

- The DNA profile was interpreted as a mixture originating from three individuals.
 - Richard Alexander Murdaugh is contributing to the mixture.
 - Hp = Richard Alexander Murdaugh, Richard Alexander Murdaugh, Jr. (Buster), and an unidentified unrelated individual contributed to the mixture.
 - Hd = Richard Alexander Murdaugh and two unidentified unrelated individuals contributed to the mixture.
- Richard Alexander Murdaugh, Jr. (Buster) is excluded as a contributor to the mixture under the listed propositions.

20.9 Cutting from stain "H" on pair of green shorts from Richard Murdaugh

RESULTS:

- A partial DNA profile was developed.
- Due to the inability to determine the number of contributors, no further interpretation will be offered.



NOTES:

Serology for items 19.3 and 20.7 and sample preparation for DNA for items 19.3-19.13 and 20.3-20.9 were performed by Forensic Serologist Rachel Nguyen.

DNA analysis was performed using Short Tandem Repeat (STR) PCR DNA analysis.

The following kits/loci were utilized in the analysis of this case:

GlobalFiler™: D3S1358, vWA, D16S539, CSF1PO, TPOX, Yindel, AMELOGENIN, D8S1179, D21S11, D18S51, DYS391, D2S441, D19S433, TH01, FGA, D22S1045, D5S818, D13S317, D7S820, SE33, D10S1248, D1S1656, D12S391, D2S1338

No comparisons were performed with the following individuals at this time: Anthony Cook, Roger Davis, Rogan Gibson, Claude (C.B.) Rowe, Connor Cook, Phillip Beach, Renee Beach, Robin Beach, Miley Altman, Morgan Doughty, and Michael List.

Comparisons were only performed with Nolen Tuten for item 19.7.

This report supplements the original testing performed in the report issued on June 25, 2021.

Italics indicate a previously reported item and/or result that has been amended.

This amended report serves to replace the report issued on July 25, 2021.

Any remaining evidence and/or packaging will be returned to the requesting agency.

The verbal scales listed in the tables below were implemented by SLED for use with STRmix™ results only. Verbal scales are designed to assist in conveying the weight of likelihood ratios.

Supported Proposition	Likelihood Ratio	Verbal Wording
First proposition (Hp) is supported against the alternative proposition (Hd)	1	Uninformative
	2 to 99	Weak support
	100 to 9,999	Moderate support
	10,000 to 999,999	Strong support
	≥ 1,000,000	Very strong support

Supported Proposition	Likelihood Ratio	Verbal Wording
The alternative proposition (Hd) is supported against the first proposition (Hp)	1	Uninformative
	2 to 99	Moderate support for Hd
	≥100	Exclusion



Reported likelihood ratios are based on the stated propositions. Alternate propositions may require calculation of additional likelihood ratios. If interpretation based on propositions other than those reported is needed, please contact the analyst listed below and allow up to **30 business days** for calculation and reporting of additional likelihood ratios.

Definitions:

Proposition: A statement, based on case circumstances and genetic results, that expresses an opinion

Hp: First proposition

Hd: Alternative proposition

Likelihood ratio: The comparison of the probabilities of Hp and Hd

Person of interest: An individual whose known standard has been submitted for comparison

This report contains the conclusions, opinions and interpretations of the analyst whose signature appears below.

Technical records supporting the conclusions in this report are available upon request. Afford sufficient time for production.



Sarah Zapata

Forensic Scientist

