

SOUTH CAROLINA LAW ENFORCEMENT DIVISION

FORENSIC SERVICES LABORATORY REPORT

HENRY D. MCMASTER
Governor



MARK A. KEEL
Chief

June 15, 2021

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

TRACE EVIDENCE
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

ITEMS OF EVIDENCE:

Item: 18 One GSR kit from Richard Alexander Murdaugh

Item 18 was analyzed using Scanning Electron Microscopy with Energy Dispersive X-Ray Spectrometry (SEM-EDX) for morphology and elemental composition.

RESULTS:

One particle characteristic of gunshot primer residue was found. In general, particles characteristic of gunshot primer residue are microscopic, molten particles that contain the elements lead, barium, and antimony. Gunshot primer residue can come from discharging a firearm, being in the vicinity to the discharge of a firearm, or coming into contact with a surface that has gunshot primer residue on it.



Item: 19 One white "Hanes BEEFY-T" t-shirt, submitted as collected "from Richard Murdaugh"

Item: 19.1 Particle lifts collected from white "Hanes BEEFY-T" t-shirt

Item 19.1 was analyzed using Scanning Electron Microscopy with Energy Dispersive X-Ray Spectrometry (SEM-EDX) for morphology and elemental composition.

RESULTS:

Particles characteristic of gunshot primer residue were found. In general, particles characteristic of gunshot primer residue are microscopic, molten particles that contain the elements lead, barium, and antimony. Gunshot primer residue can come from being in the vicinity to the discharge of a firearm or coming into contact with a surface that has gunshot primer residue on it; however, no information can be provided as to the time frame in which these particles were deposited.

Item: 20 One pair of green "Roundtree & Yorke" cargo shorts, submitted as collected "from Richard Murdaugh"

Item: 20.1 Particle lifts collected from green "Roundtree & Yorke" cargo shorts

Item 20.1 was analyzed using Scanning Electron Microscopy with Energy Dispersive X-Ray Spectrometry (SEM-EDX) for morphology and elemental composition.

RESULTS:

Particles characteristic of gunshot primer residue were found. In general, particles characteristic of gunshot primer residue are microscopic, molten particles that contain the elements lead, barium, and antimony. Gunshot primer residue can come from being in the vicinity to the discharge of a firearm or coming into contact with a surface that has gunshot primer residue on it; however, no information can be provided as to the time frame in which these particles were deposited.



Item: 21 One pair of green, red, and gray "Nike" tennis shoes, submitted as collected "from Richard Murdaugh"

Item: 21.1 Particle lifts collected from green, red, and gray "Nike" tennis shoes

Item 21.1 was analyzed using Scanning Electron Microscopy with Energy Dispersive X-Ray Spectrometry (SEM-EDX) for morphology and elemental composition.

RESULTS:

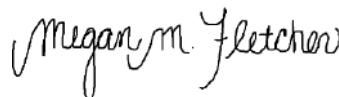
No particles characteristic of gunshot primer residue detected.

The absence of primer residue on the item is consistent with, but not limited to, the following scenarios:

- The item not being in the vicinity to the discharge of a firearm
- Cleaning of the item
- Excessive blood or debris on the item
- Environmental factors including wind and rain
- The ammunition discharged (lead-free, non-toxic, or some .22 caliber rimfire ammunition) not producing particles characteristic of the conventional gunshot primer residue
- The firearm not producing primer residue on the item when discharged

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.



Megan M. Fletcher
Forensic Scientist



SOUTH CAROLINA LAW ENFORCEMENT DIVISION

FORENSIC SERVICES LABORATORY REPORT

HENRY D. MCMASTER
Governor



MARK A. KEEL
Chief

June 09, 2021

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

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Mark A. Keel, Chief
South Carolina Law Enforcement Division

ITEMS OF EVIDENCE:

- Item: 2** One (1) cartridge case headstamped "S&B .300 AAC BLK" from Marker 2.
- Item: 3** One (1) cartridge case headstamped "S&B .300 AAC BLK" from Marker 3.
- Item: 4** One (1) cartridge case headstamped "S&B .300 AAC BLK" from Marker 4.
- Item: 5** One (1) cartridge case headstamped "S&B .300 AAC BLK" from Marker 5.
- Item: 6** One (1) cartridge case headstamped "S&B .300 AAC BLK" from Marker 6.
- Item: 7** One (1) cartridge case headstamped "S&B .300 AAC BLK" from Marker 7.

RESULTS: (Items 2 through 7)

No fingerprint evidence was observed.



Item: 9 One (1) fired shotshell headstamped "12 GA FEDERAL" from Marker 9.

Item: 10 One (1) fired shotshell headstamped "WINCHESTER 12 GA" from Marker 10.

RESULTS: (Items 9 and 10)

No fingerprint evidence was observed.

Item: 22 One (1) camo Benelli Super Black Eagle 3 SN: U573210E17, with two (2) unfired shotshells.

RESULTS:

The item was chemically processed.
No fingerprint evidence was observed.

Item: 22.1 Swabs from trigger of Item 22 shotgun.

RESULTS:

Forwarded to the DNA Casework department.

Item: 22.2 Swabs from rear stock, front stock and ejection lever on Item 22 shotgun.

RESULTS:

Forwarded to the DNA Casework department.

Item: 22.3 Swabs from head stamps of two (2) unfired shotgun shells with Item 22 shotgun.

RESULTS:

Forwarded to the DNA Casework department.

Item: 25 One (1) iPhone cell phone black in color with clear case.

RESULTS:

The item was chemically processed.
No value for comparison.



Item: 25.1 Swabs from sides of Item 25 cell phone.

RESULTS:

Forwarded to the DNA Casework department.

Item: 25.2 White fiber removed from back side of Item 25 cell phone.

RESULTS:

Forwarded to the Trace Evidence department.

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.

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



Thomas E. Darnell
Forensic Scientist



SOUTH CAROLINA LAW ENFORCEMENT DIVISION

FORENSIC SERVICES LABORATORY REPORT

HENRY D. MCMASTER
Governor



MARK A. KEEL
Chief

June 14, 2021

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

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Mark A. Keel, Chief
South Carolina Law Enforcement Division

SUPPLEMENTAL

ITEMS OF EVIDENCE:

Item: 30 One (1) Mossberg Model 835 Ulti-Mag shotgun (S/N: UM613411) (previously on pool table) with one (1) unfired 12GA shotshell.

RESULTS:

The item was chemically processed.
No value for comparison.

Item: 30.1 Swabs from trigger of Item 30 shotgun.

RESULTS:

Forwarded to the DNA Casework department.



Item: 31 One (1) Browning Auto-5 Light Vector + Special Steel 12GA shotgun (S/N: 03867NV211).

RESULTS:

The item was chemically processed.
No value for comparison.

Item: 31.1 Swabs from trigger of Item 31 shotgun.

RESULTS:

Forwarded to the DNA Casework department.

Item: 32 One (1) Benelli Super Black Eagle 2 12GA shotgun (S/N: U391148) with strap and two (2) unfired shotshells headstamped "WINCHESTER 12 GA" and "12 GA FEDERAL".

RESULTS:

The item was chemically processed.
No value for comparison.

Item: 32.1 Swabs from trigger of Item 32 shotgun.

RESULTS:

Forwarded to the DNA Casework department.

Item: 33 One (1) Palmetto State Armory PSA PA-15 MULTI rifle (S/N: PA068237) with "Pulsar" night vision scope.

RESULTS:

The item was chemically processed.
No value for comparison.

Item: 33.1 Swabs from trigger of Item 33 rifle.

RESULTS:

Forwarded to the DNA Casework department.



Item: 34 One (1) metal 30 round magazine containing unknown amount of "S&B .300 AAC BLK" cartridges collected from PSA rifle (S/N: PA068237).

RESULTS:

The item was chemically processed.
No value for comparison.

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.

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



Thomas E. Darnell
Forensic Scientist



SOUTH CAROLINA LAW ENFORCEMENT DIVISION

FORENSIC SERVICES LABORATORY REPORT

HENRY D. MCMASTER
Governor



MARK A. KEEL
Chief

June 25, 2021

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

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Mark A. Keel, Chief
South Carolina Law Enforcement Division

COMPARISON STANDARDS

23 Buccal swabs from Margaret Murdaugh

RESULTS:

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

24 Buccal swabs from Paul Murdaugh

RESULTS:

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

26 Buccal swabs from Anthony Cook

RESULTS:

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

27 Buccal swabs from Roger Davis

RESULTS:

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



28 Buccal swabs from Rogan Gibson

RESULTS:

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

29 Buccal swabs from Claude (C.B.) Rowe

RESULTS:

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

74 Buccal swabs from Connor Cook

RESULTS:

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

75 Known standard from Phillip Beach

RESULTS:

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

76 Known standard from Renee Beach

RESULTS:

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

77 Known standard from Robin Beach

RESULTS:

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

78 Buccal swabs from John Murdaugh

RESULTS:

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

79 Buccal swabs from Richard Alexander Murdaugh, Jr. (Buster)

RESULTS:

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



80 Buccal swabs from Richard Alexander Murdaugh

RESULTS:

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

81 Buccal swabs from Randy Murdaugh

RESULTS:

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

82 Buccal swabs from Miley Altman

RESULTS:

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

83 Buccal swabs from Morgan Doughty

RESULTS:

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

ITEMS OF EVIDENCE

2 Cartridge case headstamped "S&B .300 AAC BLK" from Marker 2

3 Cartridge case headstamped "S&B .300 AAC BLK" from Marker 3

4 Cartridge case headstamped "S&B .300 AAC BLK" from Marker 4

5 Cartridge case headstamped "S&B .300 AAC BLK" from Marker 5

6 Cartridge case headstamped "S&B .300 AAC BLK" from Marker 6

7 Cartridge case headstamped "S&B .300 AAC BLK" from Marker 7

7.1 M-Vac collection from items 2-7

RESULTS:

- A partial DNA profile suitable for comparison was developed.
- Paul Murdaugh, Anthony Cook, Roger Davis, Rogan Gibson, Claude (C.B.) Rowe, Connor Cook,



Phillip Beach, Renee Beach, Robin Beach, John Murdaugh, Richard Alexander Murdaugh, Jr. (Buster), Richard Alexander Murdaugh, Randy Murdaugh, Miley Altman, and Morgan Doughty are excluded as the contributor.

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

• **Proposition Set:**

- The DNA profile was interpreted as single source.
- Hp = Margaret Murdaugh contributed the DNA profile.
- Hd = An unidentified unrelated individual contributed the DNA profile.
- The DNA profile is approximately 510 billion (5.1E11) times more likely if Margaret Murdaugh contributed the profile than if an unidentified unrelated individual contributed the profile.

9 Fired shotshell headstamped "12 GA FEDERAL" from Marker 9

10 Fired shotshell headstamped "WINCHESTER 12 GA" from Marker 10

10.1 Swabs from entire exterior of items 9 & 10

RESULTS:

- Presumptive testing for blood was positive.
- A DNA profile suitable for comparison was developed.
- Margaret Murdaugh, Anthony Cook, Roger Davis, Rogan Gibson, Claude (C.B.) Rowe, Connor Cook, Phillip Beach, Renee Beach, Robin Beach, John Murdaugh, Richard Alexander Murdaugh, Jr. (Buster), Richard Alexander Murdaugh, Randy Murdaugh, Miley Altman, and Morgan Doughty are excluded as the contributor.

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

• **Proposition Set:**

- The DNA profile was interpreted as single source.
- Hp = Paul Murdaugh contributed the DNA profile.
- Hd = An unidentified unrelated individual contributed the DNA profile.
- The DNA profile is approximately 15 octillion (1.5E28) times more likely if Paul Murdaugh contributed the profile than if an unidentified unrelated individual contributed the profile.



15 Swabs from camo Benelli 12 GA shotgun from receiver forward of the loading port

RESULTS:

- Presumptive testing for blood was positive.
- A DNA profile suitable for comparison was developed.
- Paul Murdaugh, Anthony Cook, Roger Davis, Rogan Gibson, Claude (C.B.) Rowe, Connor Cook, Phillip Beach, Renee Beach, Robin Beach, John Murdaugh, Richard Alexander Murdaugh, Jr. (Buster), Randy Murdaugh, Miley Altman, and Morgan Doughty 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 = Margaret Murdaugh and an unidentified unrelated individual contributed to the mixture.
- Hd = Two unidentified unrelated individuals contributed to the mixture.
- The DNA profile is approximately 670 octillion (6.7E29) times more likely if Margaret 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.
- 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 10 quintillion (1.0E19) 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 III:

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



- The DNA profile is approximately 48 quidecillion (4.8E49) times more likely if Margaret Murdaugh and Richard Alexander Murdaugh contributed to the mixture than if two unidentified unrelated individuals contributed to the mixture.

16 Swabs from barrel of camo Benelli 12 GA shotgun

RESULTS:

- Presumptive testing for blood was negative.
- The partial DNA profile developed is insufficient for interpretation.

17 Swabs from ext. door knob of storage room door

RESULTS:

- A DNA profile suitable for comparison was developed.
- Margaret Murdaugh, Anthony Cook, Roger Davis, Rogan Gibson, Claude (C.B.) Rowe, Connor Cook, Phillip Beach, Renee Beach, Robin Beach, John Murdaugh, Richard Alexander Murdaugh, Jr. (Buster), Richard Alexander Murdaugh, Randy Murdaugh, Miley Altman, and Morgan Doughty are excluded as the contributor.
- Likelihood Ratios (LR) for this profile were calculated using STRmix™.
- **Proposition Set:**
 - The DNA profile was interpreted as single source.
 - Hp = Paul Murdaugh contributed the DNA profile.
 - Hd = An unidentified unrelated individual contributed the DNA profile.
- The DNA profile is approximately 15 octillion (1.5E28) times more likely if Paul Murdaugh contributed the profile than if an unidentified unrelated individual contributed the profile.

19 White shirt from Richard Murdaugh

19.2 Cutting from exterior front, bottom edge of white shirt from Richard Murdaugh

RESULTS:

- Presumptive testing for blood was positive.
- A DNA profile suitable for comparison was developed.



- Paul Murdaugh, Anthony Cook, Roger Davis, Rogan Gibson, Claude (C.B.) Rowe, Phillip Beach, Renee Beach, Robin Beach, Richard Alexander Murdaugh, Jr. (Buster), Randy Murdaugh, Miley Altman, and Morgan Doughty are excluded as contributors.

- Due to the relatedness of the contributors, no conclusions will be offered regarding John Murdaugh and Richard Alexander Murdaugh 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 two individuals.

- Hp = Margaret Murdaugh and an unidentified unrelated individual contributed to the mixture.

- Hd = Two unidentified unrelated individuals contributed to the mixture.

- The DNA profile is approximately 460 octillion (4.6E29) times more likely if Margaret 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.

- Hp = Connor Cook and an unidentified unrelated individual contributed to the mixture.

- Hd = Two unidentified unrelated individuals contributed to the mixture.

- The DNA profile is approximately 9 (1/1.1E-1) times more likely if two unidentified unrelated individuals contributed to the mixture than if Connor Cook and an unidentified unrelated individual contributed to the mixture.

20 Pair of green shorts from Richard Murdaugh

20.2 Cutting from front, left interior pocket of pair of green shorts from Richard Murdaugh

RESULTS:

- Presumptive testing for blood was positive.

- A DNA profile suitable for comparison was developed.

- Anthony Cook, Roger Davis, Rogan Gibson, Claude (C.B.) Rowe, Connor Cook, Phillip Beach, Renee Beach, Robin Beach, John Murdaugh, Randy Murdaugh, Miley Altman, and Morgan Doughty 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 140 quadrillion (1.4E17) 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, 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.

• **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, 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 5.1 sextillion (5.1E21) 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 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, 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 25 quintillion (2.5E19) 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 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, 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 2 quindecillion (2.0E48) 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.

21 Pair of red, yellow, and white tennis shoes from Richard Murdaugh

21.2 Cutting from left shoelace of pair of red, yellow, and white tennis shoes from Richard Murdaugh

RESULTS:

- Presumptive testing for blood was positive.
- A DNA profile suitable for comparison was developed.
- Margaret Murdaugh, Paul Murdaugh, Anthony Cook, Roger Davis, Rogan Gibson, Claude (C.B.) Rowe, Connor Cook, Phillip Beach, Renee Beach, Robin Beach, John Murdaugh, Richard



Alexander Murdaugh, Jr. (Buster), Randy Murdaugh, Miley Altman, and Morgan Doughty are excluded as the contributor.

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

• **Proposition Set:**

- The DNA profile was interpreted as single source.
- Hp = Richard Alexander Murdaugh contributed the DNA profile.
- Hd = An unidentified unrelated individual contributed the DNA profile.
- The DNA profile is approximately 410 septillion (4.1E26) times more likely if Richard Alexander Murdaugh contributed the profile than if an unidentified unrelated individual contributed the profile.

22.1 Swabs from trigger of Item 22 shotgun (camo Benelli Super Black Eagle 3 SN:US73210E17)

RESULTS:

- The partial DNA profile developed is insufficient for interpretation.

22.2 Swabs from rear stock, front stock and ejection lever on Item 22 shotgun (camo Benelli Super Black Eagle 3 SN:US73210E17)

RESULTS:

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

22.3 Swabs from head stamps of two (2) unfired shotgun shells with Item 22 shotgun (camo Benelli Super Black Eagle 3 SN:US73210E17)

RESULTS:

- No DNA profile was developed.

22.4 Debris from the right side of the Item 22 receiver (camo Benelli Super Black Eagle 3 SN:US73210E17)

RESULTS:

- Presumptive testing for blood was positive.



- A DNA profile suitable for comparison was developed.
- Paul Murdaugh, Anthony Cook, Roger Davis, Rogan Gibson, Claude (C.B.) Rowe, Connor Cook, Phillip Beach, Renee Beach, Robin Beach, Richard Alexander Murdaugh, Jr. (Buster), Miley Altman, and Morgan Doughty are excluded as contributors.
- Due to the relatedness of the contributors, no conclusions will be offered regarding John Murdaugh, Richard Alexander Murdaugh, and Randy Murdaugh 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 two individuals.
 - Hp = Margaret Murdaugh and an unidentified unrelated individual contributed to the mixture.
 - Hd = Two unidentified unrelated individuals contributed to the mixture.
- The DNA profile is approximately 480 octillion (4.8E29) times more likely if Margaret Murdaugh and an unidentified unrelated individual contributed to the mixture than if two unidentified unrelated individuals contributed to the mixture.

22.5 Debris from the left side of the Item 22 receiver, above manufacturer information (camo Benelli Super Black Eagle 3 SN:US73210E17)

RESULTS:

- Presumptive testing for blood was positive.
- A DNA profile suitable for comparison was developed.
- Anthony Cook, Roger Davis, Rogan Gibson, Claude (C.B.) Rowe, Connor Cook, Phillip Beach, Renee Beach, Robin Beach, Richard Alexander Murdaugh, Jr. (Buster), Miley Altman, and Morgan Doughty are excluded as contributors.
- Due to the relatedness of the contributors, no conclusions will be offered regarding Paul Murdaugh, John Murdaugh, Richard Alexander Murdaugh, and Randy Murdaugh 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 two individuals.



- Hp = Margaret Murdaugh and an unidentified unrelated individual contributed to the mixture.
- Hd = Two unidentified unrelated individuals contributed to the mixture.
- The DNA profile is approximately 570 octillion (5.7E29) times more likely if Margaret Murdaugh and an unidentified unrelated individual contributed to the mixture than if two unidentified unrelated individuals contributed to the mixture.

25.1 Swabs from sides of Item 25 cell phone

RESULTS:

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

30 Mossberg Model 835 Ulti-Mag shotgun (S/N: UM613411) (previously on pool table) with one (1) unfired 12GA shotshell

RESULTS:

- Presumptive testing for blood was negative.

31 Browning Auto-5 Light Vector + Special Steel 12GA shotgun (S/N: 03867NV211)

RESULTS:

- No apparent bloodstains present.

32 Benelli Super Black Eagle 2 12GA shotgun (S/N: U391148) with strap and two (2) unfired shotshells headstamped "WINCHESTER 12 GA" and "12 GA FEDERAL"

RESULTS:

- No apparent bloodstains present.

33 Palmetto State Armory PSA PA-15 MULTI rifle (S/N: PA068237) with "Pulsar" night vision scope

RESULTS:

- No apparent bloodstains present.



51 Swabs collected from lock/unlock buttons on driver's door (Chevy Suburban)

RESULTS:

- No human blood identified.

52 Swabs collected from driver's door arm rest (Chevy Suburban)

RESULTS:

- No human blood identified.

53 Swabs collected from driver's side running board below driver's door (Chevy Suburban)

RESULTS:

- No human blood identified.

54 Swabs collected from driver's floorboard (Chevy Suburban)

RESULTS:

- No human blood identified.

55 Swabs collected from front edge of driver's seat (Chevy Suburban)

RESULTS:

- No human blood identified.

56 Swabs collected from steering wheel (Chevy Suburban)

RESULTS:

- Blood identified.
- A DNA profile suitable for comparison was developed.
- Paul Murdaugh, Anthony Cook, Roger Davis, Rogan Gibson, Claude (C.B.) Rowe, Connor Cook, Phillip Beach, Renee Beach, Robin Beach, John Murdaugh, Richard Alexander Murdaugh, Jr. (Buster), Randy Murdaugh, Miley Altman, and Morgan Doughty 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 = Margaret Murdaugh and an unidentified unrelated individual contributed to the mixture.
 - Hd = Two unidentified unrelated individuals contributed to the mixture.
- The DNA profile is approximately 35 (3.5E1) times more likely if Margaret 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.
 - 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 100 quadrillion (1.0E17) 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 III:**

- The DNA profile was interpreted as a mixture originating from two individuals.
 - Hp = Margaret Murdaugh and Richard Alexander Murdaugh contributed to the mixture.
 - Hd = Two unidentified unrelated individuals contributed to the mixture.
- The DNA profile is approximately 240 quintillion (2.4E20) times more likely if Margaret Murdaugh and Richard Alexander Murdaugh contributed to the mixture than if two unidentified unrelated individuals contributed to the mixture.
- The LR for Proposition Set III 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 I rather than the results of Proposition Set III when considering Margaret Murdaugh as a possible contributor to the mixture.



57 Swabs collected from center of driver's seat back (Chevy Suburban)

RESULTS:

- No human blood identified.

58 Swabs collected from front passenger door above arm rest (Chevy Suburban)

RESULTS:

- No human blood identified.

59 Swabs collected from front passenger seat bottom (Chevy Suburban)

RESULTS:

- No human blood identified.

60 Swabs collected from front passenger seat back (Chevy Suburban)

RESULTS:

- No human blood identified.

61 Swabs collected from driver's door above arm rest (Ford F250)

RESULTS:

- No human blood identified.

62 Swabs collected from door side corner of driver's seat bottom (Ford F250)

RESULTS:

- No human blood identified.

63 Swabs collected from door side edge of front passenger seat bottom (Ford F250)

RESULTS:

- No human blood identified.

64 Swabs collected from front passenger side seat back (Ford F250)

RESULTS:

- No human blood identified.



70 Left fingernail clippings from Margaret Murdaugh

RESULTS:

- A DNA profile suitable for comparison was developed.
- Paul Murdaugh, Anthony Cook, Roger Davis, Rogan Gibson, Connor Cook, Phillip Beach, Renee Beach, Robin Beach, John Murdaugh, Richard Alexander Murdaugh, Jr. (Buster), Richard Alexander Murdaugh, Randy Murdaugh, Miley Altman, and Morgan Doughty 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.
 - Margaret Murdaugh is contributing to the mixture.
 - Hp = Margaret Murdaugh and Claude (C.B.) Rowe contributed to the mixture.
 - Hd = Margaret Murdaugh and an unidentified unrelated individual contributed to the mixture.
- The DNA profile is approximately 11 (1/9.0E-2) times more likely if Margaret Murdaugh and an unidentified unrelated individual contributed to the mixture than if Margaret Murdaugh and Claude (C.B.) Rowe contributed to the mixture.

71 Right fingernail clippings from Margaret Murdaugh

RESULTS:

- The DNA profile developed is attributable to Margaret Murdaugh.

72 Left fingernail clippings from Paul Murdaugh

RESULTS:

- The DNA profile developed is attributable to Paul Murdaugh.

73 Right fingernail clippings from Paul Murdaugh

RESULTS:

- The DNA profile developed is attributable to Paul Murdaugh.



NOTES:

Serology and sample preparation 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

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



SOUTH CAROLINA LAW ENFORCEMENT DIVISION

FORENSIC SERVICES LABORATORY REPORT

HENRY D. MCMASTER
Governor



MARK A. KEEL
Chief

June 18, 2021

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

TRACE EVIDENCE
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

This report supplements the original report issued on June 15, 2021.

ITEMS OF EVIDENCE:

Item: 25.2 Unknown white/colorless/beige fibers held together by dirt and debris, "removed from back side of Item 25 cell phone"

RESULTS:

Several colorless/white/beige fibers, consistent with silk were found. No comparison or conclusions can be drawn as to the source of these fibers due to a lack of distinguishing characteristics.



The following is a list of physical and instrumental techniques used in the Trace Analysis of the evidence for this case:

- Microscopy with Fluorescence
- Fourier Transform Infrared Spectroscopy with Microscope Attachment (micro-FTIR)
- Polarized Light Microscopy (PLM)
- Stereomicroscopy for Observation and/or Sample Manipulation
- Visual (Macroscopic) Observations

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.



Megan M. Fletcher
Forensic Scientist



SOUTH CAROLINA LAW ENFORCEMENT DIVISION

FORENSIC SERVICES LABORATORY REPORT

HENRY D. MCMASTER
Governor



MARK A. KEEL
Chief

July 25, 2021

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

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:

- 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:

- 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:

Sample preparation for DNA 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.

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



SOUTH CAROLINA LAW ENFORCEMENT DIVISION

FORENSIC SERVICES LABORATORY REPORT

HENRY D. MCMASTER
Governor



MARK A. KEEL
Chief

July 23, 2021

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

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 comparisons 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 30 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 rifling characteristics. These Items may or may not be suitable for identification with other firearms related evidence.
- Matching individual identifying characteristics were found in the mechanism marks of Items 111, 114 – 115, 118 – 119, 123, 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.

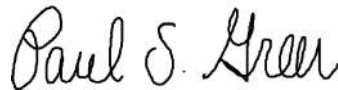
Sufficient differences in class characteristics were found to conclude that Item 8, the Item 11 fired bullet jacket fragment, and the Item 66 fired bullet jacket fragments were not fired by the Item 22 and 30 – 32 shotguns.

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.



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



SOUTH CAROLINA LAW ENFORCEMENT DIVISION

FORENSIC SERVICES LABORATORY REPORT

HENRY D. MCMASTER
Governor



MARK A. KEEL
Chief

November 10, 2021

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

143 Buccal swabs collected from Colleton CSO Deputy Daniel Greene

RESULTS:

- This item is being returned to the submitting agency without analysis and has not been inventoried.



ITEMS OF EVIDENCE

- 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
- 19.6 Cutting from stain "C" on white shirt from Richard Murdaugh
- 19.7 Cutting from stain "D" on white shirt from Richard Murdaugh
- 19.8 Cutting from stain "E" on white shirt from Richard Murdaugh
- 19.9 Cutting from stain "F" on white shirt from Richard Murdaugh
- 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

ADDITIONAL RESULTS FOR ITEMS 19.2, 19.3, 19.4, 19.5, 19.6, 19.7, 19.8, 19.9, 19.10, 19.11, 19.12, AND 19.13:

- No human blood identified.

173 Blue raincoat from second floor hall closet

RESULTS:

- Presumptive testing for blood was negative.
- No hair found.

173.2 Swabs from interior cuffs, collar, and hood, interior and exterior zipper area, zipper, and zipper pull of blue raincoat from second floor hall closet

RESULTS:

- No DNA profile was developed.

173.3 Swabs from side openings, zipper area, and both interior portions of exterior pocket of blue raincoat from second floor hall closet

RESULTS:

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



NOTES:

Serology for item 173 and sample preparation of items 173.2 and 173.3 were performed by Forensic Scientist 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

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

September 20, 2021

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

TRACE EVIDENCE
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

This report supplements the original reports issued on June 15, 2021 and June 18, 2021.

ITEMS OF EVIDENCE:

Item: 142 One seatbelt assembly with a retractor portion (OEM labeling present), an attached black belt and metal attachment piece, an attached latch plate, and a loose buckle (OEM labeling present), submitted as "Driver's seatbelt collected from black 2021 Chevy Suburban (SC tag CZL420)"

Item: 142.1 Particle lifts collected from the loose buckle, the latch plate, and the black belt

Item 142.1 was analyzed using Scanning Electron Microscopy with Energy Dispersive X-Ray Spectrometry (SEM-EDX) for morphology and elemental composition.

RESULTS:

One particle characteristic of gunshot primer residue was found. In general, particles characteristic of gunshot primer residue are microscopic, molten particles that contain the elements lead, barium, and antimony. Gunshot primer residue can come from being in the vicinity to the discharge of a firearm or coming into contact with a surface that has gunshot primer residue on it; however, no information can be provided as to the time frame in which this particle was deposited.



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.



Megan M. Fletcher
Forensic Scientist



SOUTH CAROLINA LAW ENFORCEMENT DIVISION

FORENSIC SERVICES LABORATORY REPORT

HENRY D. MCMASTER
Governor



MARK A. KEEL
Chief

October 25, 2021

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

TRACE EVIDENCE
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

This report supplements the original Trace reports issued on June 15, 2021, June 18, 2021, and September 20, 2021.

ITEMS OF EVIDENCE:

Item: 173 One blue "Kokatat" rain jacket / poncho, submitted as "One (1) blue raincoat from second floor hall closet"

Item: 173.1 Particle lifts collected from the blue "Kokatat" rain jacket / poncho

Item 173.1 was analyzed using Scanning Electron Microscopy with Energy Dispersive X-Ray Spectrometry (SEM-EDX) for morphology and elemental composition.

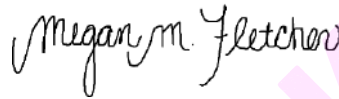
RESULTS:

Particles characteristic of gunshot primer residue were found. In general, particles characteristic of gunshot primer residue are microscopic, molten particles that contain the elements lead, barium, and antimony. Gunshot primer residue can come from being in the vicinity to the discharge of a firearm or coming into contact with a surface that has gunshot primer residue on it; however, no information can be provided as to the time frame in which these particles were deposited.



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.



Megan M. Fletcher
Forensic Scientist



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

December 09, 2021

Laboratory Number L21-09074
Reporting Agent Melinda A. Worley
Requesting Agency SLED Low Country Region

Introduction

On June 7, 2021, the Colleton County Sheriff's Office (CSO) requested SLED Crime Scene assistance with the investigation of a double homicide in Islandton, SC. Special Agent (S/A) Jaclynn McKay and S/A Melinda Worley responded and met with SLED Low Country S/A David Owen. Coroner Richard Harvey was also present from the Colleton County Coroner's Office.

SLED Crime Scene agents were provided the following information: A woman and her son had been found deceased near the dog kennels on their property. Both of the victims had sustained multiple gunshot wounds.

Scene Summary

The scene consisted of the area near the dog kennels on the property located at 4147 Moselle Road, Islandton, SC 29929.

On July 16, 2021, S/A Worley and Lieutenant Kukila Wallace returned to the scene on Moselle Road for additional documentation of the scene.

Refer to the Crime Scene Notes and diagrams for further information on the above-listed scenes.

During the crime scene investigation, evidence was transferred by the Colleton CSO, the SLED Low Country Region, and SLED Crime Scene. Refer to the Chain of Custody documentation for additional information.

On June 10, 2021, S/A Worley attended the victims' autopsies at the Medical University of South Carolina located at 96 Jonathan Lucas Street, Charleston, SC 29425. Refer to the autopsy documents for additional information.



During the crime scene investigation, photographs were taken by SLED Crime Scene agents. A copy of the photographs was provided to SLED Low Country S/A Jomar Albayalde at the SLED Forensic Services Laboratory on June 11, 2021 and to S/A Owen on scene on July 16, 2021. Additional copies are available upon request.

Evidence was submitted by SLED Crime Scene agents to the SLED Forensic Services Laboratory. Refer to the submission documentation for additional information.

Attachments

- *CS Notes
- *CS Diagrams
- *Chain of Custody
- * Autopsy Documents
- * 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.



Melinda A. Worley
Forensic Scientist



Crime Scene Attachments



SLED CRIME SCENE DEPARTMENT

CRIME SCENE NOTES

Lab No: L21-09074

Examiner: S/A Melinda A. Worley MW

On June 7, 2021 at approximately 10:33 PM, Special Agent (S/A) Melinda Worley was notified by the SLED Operations Desk that SLED Crime Scene agents were requested by the Colleton County Sheriff's Office (CSO) to assist with the investigation of a double homicide in Islandton, SC. Colleton CSO Sheriff Buddy Hill was provided as the point of contact. S/A Worley contacted Sheriff Hill, who provided the following information: Two people, a male and a female, had been found deceased with gunshot wounds. Both victims were outside, but the male victim was under a cover and protected from inclement weather. A canopy was being brought to cover the female victim, who was lying out in the open. According to Sheriff Hill, several 300 blackout cartridge cases had been observed, and a search warrant for the property was in the process of being obtained.

SLED Low Country Region Case #: 31-21-0061
Lead Agent: S/A David Owen
Incident Location: 4147 Moselle Road, Islandton, SC 29929
Victims (deceased): Margaret Murdaugh and Paul Murdaugh

S/A Worley and S/A Jaclynn McKay responded to the scene. Upon arrival at approximately 12:07 AM, the weather was lightly raining with an approximate temperature of 73°F. Sheriff Hill, Captain (Capt.) Jason Chapman, and additional personnel from the Colleton CSO were present at the scene. Capt. Ryan Neill, Lieutenant (Lt.) Charles Ghent, S/A David Owen, S/A Lawrence Wiggins, and S/A Mitch Altman from the SLED Low Country Region; and Coroner Richard Harvey and additional personnel from the Colleton County Coroner's Office (CCO) were also present at the scene. SLED Crime Scene agents met with Lt. Ghent and S/A Owen, who provided the following additional information: The victims were a mother and her son. The victims' husband/father, Richard Murdaugh, was holding a shotgun when deputies arrived at the scene; the shotgun, which was loaded with the safety off, had been secured in a Colleton CSO deputy's vehicle. Potential evidence that was located before SLED Crime Scene agents' arrival was marked with Markers 1 – 6, 8, and 12 – 13 by Colleton CSO personnel. A search warrant for the property was provided by the Colleton CSO.

The scene was documented with photographs (**Item 105**) by S/A McKay, while S/A Worley documented the scene with notes and a sketch with measurements.

The shotgun that was secured by deputies upon their arrival was transferred from Colleton CSO Deputy Daniel Greene to S/A Worley via a Chain of Custody form and photographed by SLED Crime Scene agents. The transfer included the following items (**all Item 22**):

- One (1) camouflage "Benelli Super Black Eagle 3" 12 GA shotgun (S/N: U573210E17)
- One (1) unfired shotshell headstamped "12 GA FEDERAL" (removed from shotgun first)
- One (1) unfired shotshell headstamped "WINCHESTER 16 GA"

Issuing Authority: Quality Manager

SLED Forensics Form # CSD 003, May 2014
Page 1 of 10





SLED CRIME SCENE DEPARTMENT

CRIME SCENE NOTES

Two (2) swabs of suspected blood (**Item 15**) were collected from the side of the shotgun. Due to the 16 GA shotshell becoming lodged in the chamber while attempting to unload the weapon, two (2) swabs were also collected from the muzzle area of the barrel (**Item 16**) before a dowel rod was inserted in the barrel to dislodge the shotshell.

The scene, which was secured by law enforcement personnel and yellow barrier tape, consisted of the section of the property where the dog kennels and a large workshop were located. This included a storage/feed room at the end of the kennels and a large hangar-type workshop with a long overhang on either side. Several pieces of equipment, including two all-terrain vehicles (ATVs), and a small animal cage were observed under the overhang closer to the dog kennels. There was also a dog house just outside the west side of the overhang. The victims were both observed lying on the ground and covered with a pink sheet; the male victim was just outside the feed room, and the female victim was just past the workshop overhang near the dog house.

The markers that were placed by the Colleton CSO were marking the following items, which were photographed and collected by SLED Crime Scene agents, unless noted otherwise:

- Marker 1 – One (1) shotshell was located on the floor in the feed room (**Item 1**)
- Marker 2 – One (1) cartridge case headstamped "S&B .300 AAC BLK" located on the gravel between the workshop overhang and the dog kennels (**Item 2**)
- Marker 3 – One (1) cartridge case headstamped "S&B .300 AAC BLK" located on the gravel between the workshop overhang and the dog kennels (**Item 3**)
- Marker 4 – One (1) cartridge case headstamped "S&B .300 AAC BLK" located where the gravel met the grass between the workshop overhang and the dog kennels (**Item 4**)
- Marker 5 – One (1) cartridge case headstamped "S&B .300 AAC BLK" located on the dirt near the female victim's right side (**Item 5**)
- Marker 6 – One (1) cartridge case headstamped "S&B .300 AAC BLK" located on the dirt near the female victim's right side (**Item 6**)
- Marker 8 – Tire impressions in the dirt under the workshop overhang closer to the dog kennels
 - The tire impressions were documented with examination-quality photographs.
 - The tire impressions were later visually compared to the tires on the dogs' caretaker's vehicle and were determined to be consistent with them.
- Marker 12 – Suspected brain matter located in the grass between the gravel and the female victim
 - The suspected brain matter was documented with photographs only.
- Marker 13 – Suspected bullet strike located in the gravel between the workshop overhang and the dog kennels
 - The area directly beneath the bullet strike was searched for a projectile, and several metal fragments (**Item 11**) were recovered.

A search for additional items of evidence at that time yielded negative results.

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After the evidence was documented and collected, the victims were photographed, and evidence was collected from them. Upon removing the sheet from the male victim, Paul Murdaugh, he was observed to be lying face-down on the concrete just outside the feed room. His feet were just inside the open door to the feed room, his head was hanging over the edge of the concrete with his face on the gravel, and both arms were bent at the elbow with his hands underneath his body. The victim was wearing a navy blue t-shirt, khaki shorts with a belt, white ankle socks, and gray "New Balance" shoes. A cell phone was lying on top of the back, right pocket of the shorts. A large pool of suspected blood was saturating the dirt and gravel under his head, and suspected blood was observed on his shirt, shorts, arms, legs, the concrete around him, and inside the feed room. Suspected brain matter and pieces of skull were also observed on the concrete around him and inside the feed room, and his brain was lying on the concrete beside his left leg. Obvious gunshot wounds were observed in the victim's left shoulder, the left side of his face, and the top of his head. Upon rolling the victim over, additional gunshot wounds were observed in the left side of his chest and his left armpit, where a red shotshell wad was still partially inside the wound.

The following items from the victim's pockets were documented with photographs by SLED Crime Scene agents before being collected directly by Coroner Harvey:

- One (1) tan leather wallet containing \$51 cash, ID cards issued to the victim, and other miscellaneous cards
- One (1) "vuse" brand e-cigarette

SLED Crime Scene agents collected a set of postmortem major case prints (**Item 85**) from the victim. The cell phone that was lying on his back pocket was collected directly by S/A Owen.

The female victim, Margaret Murdaugh, was lying in an area of dirt and grass that was just outside the west side of the overhang near the dog house. A Colleton CSO canopy had been placed over her body to protect her from the rain. Upon removing the pink sheet from her body, the victim was observed to be lying face-down with both arms bent at the elbow; the right arm was bent toward her face, and the left arm was underneath her body. The victim's legs were extended straight out from her body. She was wearing a blue and white dress and brown flip flops, which appeared to be secured on her feet. Suspected blood was observed around the victim's head, her upper back, on her lower back near her left hip, and on the back of her left knee. Several clumps and strands of hair, which were consistent with her own hair, were observed on the ground around the victim's body. A gold in color earring, which appeared to be the matching half of the earring that was in the victim's right ear, was observed on the ground between the victim and a green Polaris Ranger 6x6 ATV. Suspected biological material was observed to be low on the front of the ATV.

Obvious gunshot wounds were observed in the back of her head, the top middle area of her back, near her left hip, and in the back of her left knee. Upon rolling the victim over, more suspected blood was observed on her face, in her hair, on her neck and chest, on both arms, and on the dress on the left side of her abdomen and in the area of her left hip. Gunshot wounds were observed in the left side of her face below her left ear, through her left wrist and left breast, and in her left thigh just above her knee. Also, upon rolling the victim over, a cartridge case was observed on the ground

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approximately where her right knee had been. The cartridge case (**Item 7**), which was headstamped "S&B .300 AAC BLK", was marked as Marker 7, photographed, and collected by SLED Crime Scene agents.

A set of postmortem major case prints (**Item 84**) was collected from the victim.

According to Coroner Harvey, the victims' autopsies were scheduled to be at the Medical University of South Carolina (MUSC) in Charleston at 10:30 AM on June 10, 2021. The victims were transported from the scene by the Colleton CCO at approximately 5:40 AM.

After the victims were removed from the scene, SLED Crime Scene agents documented and searched the feed room. In addition to the shotshell wad at Marker 1, the following items were marked, photographed, and collected from the feed room:

- Marker 9 – One (1) fired shotshell headstamped "12 GA FEDERAL" located behind the feed room door (**Item 9**)
- Marker 10 – One (1) fired shotshell headstamped "WINCHESTER 12 GA" located behind the feed room door (**Item 10**)

At the request of S/A Owen, two (2) swabs for touch DNA (**Item 17**) were collected from the feed room's exterior door knob. Multiple birdshot pellets (**Item 14**), which were scattered around the feed room, were also photographed and collected. Several bullet defects were observed in the window in the feed room. The interior and exterior sides of the window were photographed. A search of the area around the exterior side of the window yielded a fired projectile/buckshot (**Item 13**), which was lying on a rusted metal tub below the window.

Additional bullet defects were observed in the following locations at the scene:

- Exterior of the dog house on the side that was facing Margaret Murdaugh
 - A fired projectile (**Item 12**) was photographed and collected from the bedding that was inside the dog house
- Exterior of the small animal cage under the overhang on the side that was facing the dog house
 - The projectile travelled through the cage, exited the back of the cage, went through the exterior and interior walls of the workshop, and struck a vertical 2x4 in the wooden shelving along the wall.
 - A search of the workshop for the projectile yielded negative results.

A possible bullet defect was also observed in the exterior driver's side of the green Polaris ATV, which was parked under the overhang facing Margaret Murdaugh; the side on which the defect was located was facing the feed room. The front passenger side tire was observed to be flat; however, no additional defects were observed, and a search of the immediate area for a projectile yielded negative results. However, while documenting the tire impressions at Marker 8 with photographs, a fired projectile was located on the ground near the impression. The projectile (**Item 8**) was photographed and collected.

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SLED Crime Scene agents were informed that a black 2021 Chevrolet Suburban (SC tag CZL420, VIN: 1GNSKFKD0MR210998), which was parked in the grass facing the dog kennels, was the vehicle Richard Murdaugh was said to have been driving. The exterior of the vehicle was documented with photographs before it was towed from the scene to the secure impound at the Colleton CSO by S & S Super Lube at approximately 7:09 AM. SLED Crime Scene agents would return later to process the vehicle further.

A black Ford F-150 (SC tag QVV216, VIN: 1FTFW1EVXAFB61652), which was said to have been driven by Paul Murdaugh, was parked in the grass next to a farm storage carport and was facing away from the southwest side of the large workshop. The exterior of the Ford F-150 was also documented with photographs by SLED Crime Scene agents, but no items were collected from the vehicle.

Prior to clearing the scene, additional evidence that was collected by Deputy Greene and evidence that was collected by S/A Owen was transferred to S/A Worley via Chain of Custody forms. The transfers included the following items:

- From Deputy Greene – One (1) gunshot residue (GSR) kit collected from Richard Murdaugh (**Item 18**)
- From S/A Owen – Items of clothing that were collected from Richard Murdaugh:
 - One (1) white t-shirt (**Item 19**)
 - One (1) pair of green shorts (**Item 20**)
 - One (1) pair of red/yellow/white "Nike" tennis shoes (**Item 21**)

Crime Scene Review

Prior to clearing the scene, a final walkthrough was conducted with S/A Owen. No additional processing was requested at that time. S/A Owen requested to have the evidence analyzed immediately upon arrival and submission to the lab. SLED Crime Scene agents cleared the scene at approximately 8:20 AM and transported the evidence to the SLED Forensic Services Laboratory.

The evidence, except the postmortem major case prints and crime scene photographs, were transferred from S/A Worley to Lt. Todd Schenk (SLED Crime Scene) via Chain of Custody forms. Lt. Schenk then submitted the items to the lab and transferred them to the respective lab departments for analysis.

On June 10, 2021, S/A Worley responded to MUSC to attend the victims' autopsies.

Response Location: Medical University of South Carolina (MUSC), 96 Jonathan Lucas Street, Charleston, SC 29425

Upon arrival at approximately 9:50 AM, the weather was partly cloudy with an approximate temperature of 85°F. The following items were collected during the autopsies and were transferred to S/A Worley via Chain of Custody forms:

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- From Margaret Murdaugh:
 - One (1) blue and white dress (Item 92)
 - One (1) white bra (Item 93)
 - One (1) pair of white underwear (Item 94)
 - One (1) pair of brown and white sandals/flip flops (Item 95)
 - One (1) black hair tie (Item 96)
 - One (1) metal hair clip (Item 97)
 - One (1) yellow hoop earring with clear stones (Item 98)
 - Left hand fingernail clippings (Item 70)
 - Right hand fingernail clippings (Item 71)
 - Pulled scalp hair (Item 86)
 - Projectile fragments (Item 66)
 - One (1) blood spot (Item 87)
 - One (1) CD containing autopsy photographs (Item 90)
- From Paul Murdaugh:
 - One (1) black t-shirt (Item 99)
 - Note: The t-shirt was navy blue but appeared mostly black due to the amount of suspected blood that was dried on the shirt.
 - One (1) pair of khaki shorts with brown patterned belt (Item 100)
 - One (1) pair of green plaid underwear (Item 101)
 - One (1) pair of white socks (Item 102)
 - One (1) pair of gray sneakers (Item 103)
 - Left hand fingernail clippings (Item 72)
 - Right hand fingernail clippings (Item 73)
 - Pulled scalp hair (Item 88)
 - Shotgun pellets (Item 67) and wadding fragment (Item 68) from left shoulder and head
 - Plastic wadding from left axilla (Item 69)
 - One (1) blood spot (Item 89)
 - One (1) CD containing autopsy photographs (Item 91)

Note: One (1) shotgun pellet (Item 104) was later found with Paul Murdaugh's clothing.

Crime Scene Review

S/A Worley cleared the hospital at approximately 1:23 PM and transported the evidence to the SLED Forensic Services Laboratory. A final walkthrough of each autopsy was conducted via phone with Capt. Neill, S/A Owen, and S/A Haley Nelson (SLED Behavioral Science Unit).

Additional Processing

On June 21, 2021, S/A Worley documented the victims' clothing with photographs (Item 105) at the SLED Forensic Services Laboratory. Suspected bullet defects observed in the clothing items were photographed with and without a scale. While removing the blue and white dress from the drying

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chamber, a metal fragment was observed caught in hair, which was consistent with the victim's hair and was hanging from the dress. The metal fragment (**Item 137**) was collected and submitted to the SLED Firearms Department.

On July 16, 2021, S/A Worley and Lt. Kukila Wallace (SLED Crime Scene) returned to the initial scene for the purpose of additional documentation of the scene.

Response Location: 4147 Moselle Road, Islandton, SC 29929

Upon arrival at approximately 10:10 AM, the weather was partly cloudy with an approximate temperature of 84°F. S/A Owen, who received consent to return to the property, was also present at the scene. An initial walkthrough was completed with S/A Owen, and the following observations were made:

- The dog house and the small animal cage appeared to be in the same position and condition as they were left on the night of the initial scene
- The two ATVs that were under the workshop overhang closer to the dog kennels had been moved inside the workshop
- The feed room door had been cleaned but had not been replaced
- The L-shaped counter in the feed room had been cut out and removed except for a section close to the door
- The walls, ceiling, a shelf, and two light fixtures in the feed room had been removed
- Items that were on the section of the counter that had been cut out and on the walls had been placed on the floor or were removed completely
- The feed room window was still in place, and the bullet defects appeared to be intact except at the bottom of the window, where some of the glass had fallen

The scene was documented with photographs (**Item 139**) and 3D FARO scans (**Item 140**) by Lt. Wallace and with notes and sketches with measurements by S/A Worley.

The following bullet defects in the feed room, the dog house, the small animal cage, and the workshop were scaled, labeled, and photographed:

- Feed Room
 - Defect A – projectile entered the interior side of the window (1st column, 2nd row pane) and exited the exterior side of the window pane (Defect A1)
 - Defect B – projectile entered the interior side of the window (3rd column, 2nd row pane) and exited the exterior side of the window pane (Defect B1)
 - Defect C – projectile entered the interior side of the window frame (3rd column, 2nd row pane) and exited the exterior side of the window frame (Defect C1)
 - Defect D – projectile entered the interior side of the window (2nd column, 3rd row pane) and exited the exterior side of the window pane and window screen (Defect D1)
 - Defect E – projectile entered the interior side of the window (1st column, 4th row pane) and exited the exterior side of the window pane and window screen (Defect E1)

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- Defect F – projectile entered the interior side of the window (2nd column, 4th row pane) and exited the exterior side of the window pane and window screen (Defect F1)
- Defect G – projectile entered the interior side of the window (3rd column, 4th row pane); there was no exit defect in the window screen – a search for a projectile in the broken glass in the bottom of the window yielded negative results
- Defect K – possible defect in the exterior side of the window screen (in line with 2nd column, 4th row pane)
- Dog House
 - Defect H – possible entrance defect on the southeast exterior side of the dog house; no exit defect, and no projectile was recovered
 - Defect I – projectile entered the lower middle area of the southeast exterior side, exited the interior side (Defect I1), and entered the bedding (the projectile was previously collected from the bedding)
 - A flight path rod was placed through Defects I and I1 and was documented with photographs.
 - An angle finder determined the vertical angle of the flight path to be approximately 76°. A protractor and plumb bob determined the horizontal angle to be approximately 84°.
- Small Animal Cage and Workshop
 - Defect J – projectile entered the exterior side of the cardboard on the southwest end of the cage, exited the interior side of the cardboard and chicken wire (Defect J1), traveled through the chicken wire on the back wall of the cage and entered the southeast wall of the workshop (Defect J2), exited the interior side of the workshop wall (Defect J3), and struck a vertical shelf beam (Defect J4) that was perpendicular to the wall
 - A flight path rod was placed through Defects J – J2 and was documented with photographs.
 - An angle finder determined the vertical angle of the flight path to be approximately 87°, and the horizontal angle was approximately 41°.

Crime Scene Review

Prior to clearing the scene, a final walkthrough was completed with S/A Owen. No further documentation was requested at that time. A copy of the crime scene photographs was transferred directly to S/A Owen on scene. SLED Crime Scene agents cleared the scene at approximately 7:40 PM.

Additional Processing

On July 21, 2021, Lt. Wallace and S/A Worley met with SLED Serology personnel at the SLED Forensic Services Laboratory to process and document the white t-shirt (Item 19) and green shorts (Item 20) that were collected from Richard Murdaugh. The items were previously processed for the presence of blood by SLED Serology, and cuttings (Items 19.2 and 20.2) were collected at that time. The cuttings were reinserted in the shirt and shorts for further processing and documentation.

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The additional processing was documented with photographs (**Item 141**) by Lt. Wallace and with notes by S/A Worley.

Presumptive Testing

The front, back, outside, and inside of the Item 19 t-shirt were photographed before the shirt was processed with leucocrystal violet (LCV) for the presence of blood. Areas that were LCV+ were documented with photographs with and without a scale, and the stains were labeled. The shirt was then placed in a grid, which was labeled A through J from left to right and 1 – 8 from top to bottom.

The following stains on the **front** of the shirt were documented in the grid, and cuttings of each stain were collected by SLED Serology:

- Stain A: Located on the bottom right corner of the shirt (Sectors C6, C7, and D7 of the grid)
 - The Item 19.4 cutting of the entire stain was collected
- Stain B: Located on the bottom center area of the shirt (Sectors E5 – E7, F5 – F7, G5 – G7, and H6 of the grid)
 - The Item 19.5 cutting of the entire stain was collected
 - The Item 19.2 cutting was previously collected from Sector G7 within this stain
- Stain C: Located on the right side just below the sleeve (Sectors C4 – C5, D4 – D5, and E5 of the grid)
 - The Item 19.6 cutting of the entire stain was collected
- Stain D: Located on the right side of the chest (Sectors D2 – D3 and E2 of the grid)
 - The Item 19.7 cutting of the entire stain was collected
- Stain E: Located on the left side of the chest on and just above the shirt pocket (Sectors F2, F3, G2, G3, and H2 of the grid)
 - The Item 19.8 cutting of the entire stain was collected
- Stain F: Located on the left side on and just below the shirt pocket and just below the sleeve (Sectors F4 – F5, G3 – G5, and H4 of the grid)
 - The Item 19.9 cutting of the entire stain was collected
- Stain G: Located on the bottom left corner (Sectors H6, H7, I6, and I7 of the grid)
 - The Item 19.10 cutting of the entire stain was collected
- Stain H: Located on the top of the left sleeve (Sectors I2 and J2 of the grid)
 - The Item 19.11 cutting of the entire stain was collected

The following stains on the **back** of the shirt were documented in the grid, and cuttings of each stain were collected by SLED Serology:

- Stain I: Located on the lower left side (Sectors C7, D6, D7, E6, and E7)
 - The Item 19.12 cutting of the entire stain was collected
 - The Item 19.3 cutting, which was previously labeled in Sector E7 but was not previously cut, was collected at this time; it was just outside the Item 19.12 cutting
- Stain J: Located on the lower right edge and corner (Sectors H7, I6, and I7 of the grid)
 - The Item 19.13 cutting of the entire stain was collected

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The process was then repeated with the Item 20 shorts. The front, back, inside, and outside of the shorts were documented with photographs before the shorts were processed with LCV for the presence of blood. Areas that were LCV+ were documented with photographs with and without a scale, and the stains were labeled. The shorts were then placed in a grid, which was labeled A through J from left to right and 1 – 8 from top to bottom.

The following stains on the **outside front** of the shorts were documented with photographs in the grid, and cuttings of each stain were collected by SLED Serology:

- Stain A: Located on the front left pocket (Sectors G3, G4, H3, and H4 of the grid)
 - The Item 20.3 cutting of the entire stain was collected
- Stain B: Originally located on the front left leg (Sector G5) but was determined to be LCV-
- Stain C: Located on the front right pocket (Sector D3 of the grid)
 - The Item 20.5 cutting of the entire stain was collected
- Stain G: Located on the front left leg and the edge of the left cargo pocket (Sectors G5, H5, and H6 of the grid)
 - The Item 20.4 cutting of the entire stain was collected
- Stain H: Located on the front right leg near the right cargo pocket (Sectors D4 and D5 of the grid)
 - The Item 20.9 cutting of the entire stain was collected

The following stain on the **inside front** of the shorts was documented with photographs in the grid, and a cutting of the stain was collected by SLED Serology:

- Stain D: Located on the interior and exterior sides of the front left pocket (Sector D5 of the grid)
 - The Item 20.6 cutting of the entire stain was collected
 - The Item 20.2 cutting was previously collected from the interior side of the pocket

The following stains on the **inside back** of the shorts were documented with photographs in the grid, and a cutting of each stain was collected by SLED Serology:

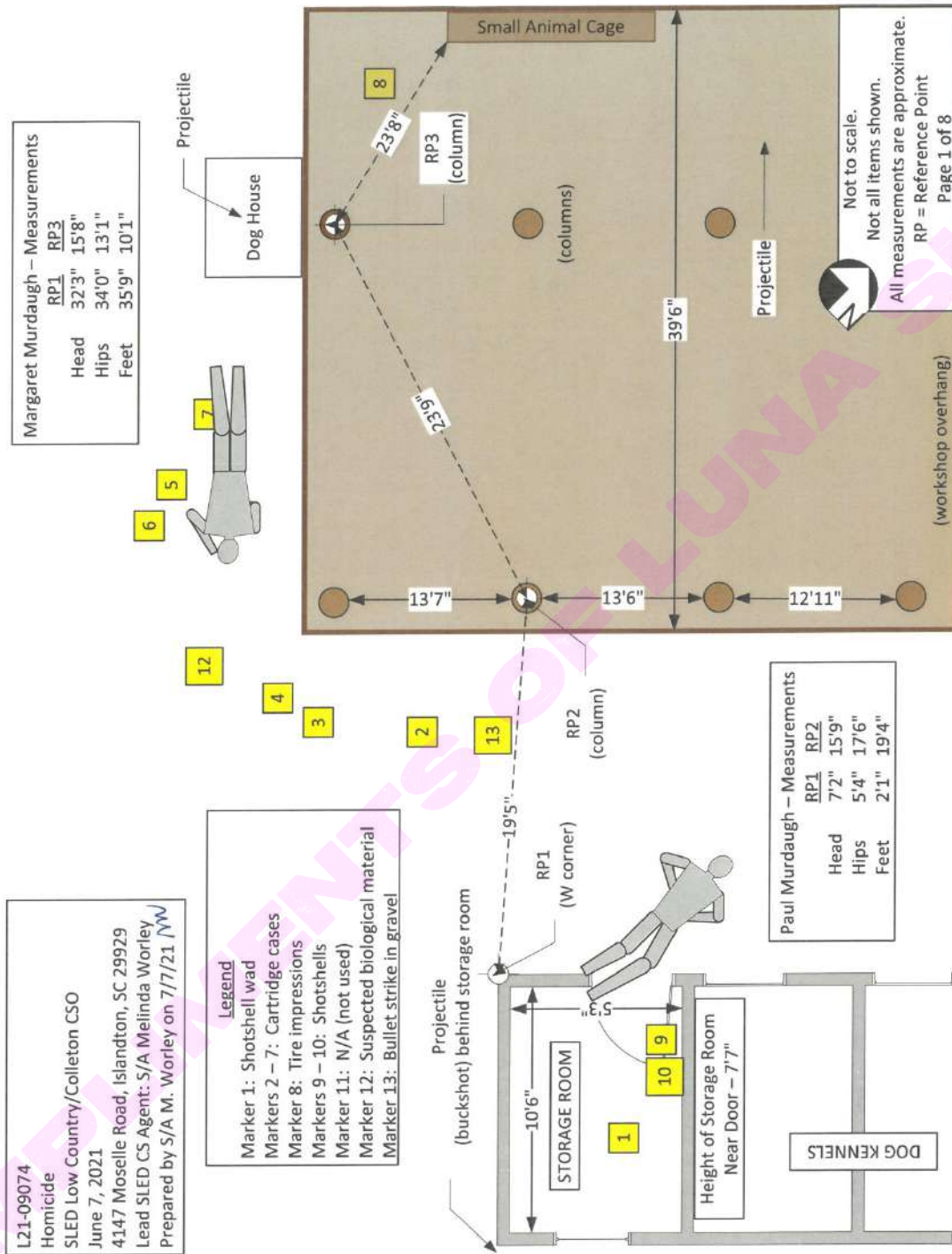
- Stain E: Located on the back right pocket (Sector D3 of the grid)
 - Previously circled and indicated as a weak Phen+ reaction
 - The Item 20.7 cutting of the entire stain was collected
- Stain F: Located on the back left side of the waistband (Sector G2 of the grid)
 - The Item 20.8 cutting of the entire stain was collected

Refer to the SLED Serology and SLED DNA reports for further information.

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 Homicide
 SLED Low Country/Colleton CSO
 June 7, 2021
 4147 Moselle Road, Islandton, SC 29929
 Lead SLED CS Agent: S/A Melinda Worley
 Prepared by S/A M. Worley on 7/7/21

Evidence Measurements				
Marker	Item	RP1	RP2	RP3
2	Cartridge case	16'5"	9'9"	
3	Cartridge case	22'9"	15'6"	
4	Cartridge case	24'3"	17'8"	
5	Cartridge case	34'11"	23'3"	
6	Cartridge case	35'5"	24'2"	
7	Cartridge case		22'0"	11'10"
8	Tire impressions	46'6"	27'1"	
12	Suspected biological material	28'7"	21'5"	
13	Suspected bullet strike	14'1"	5'3"	

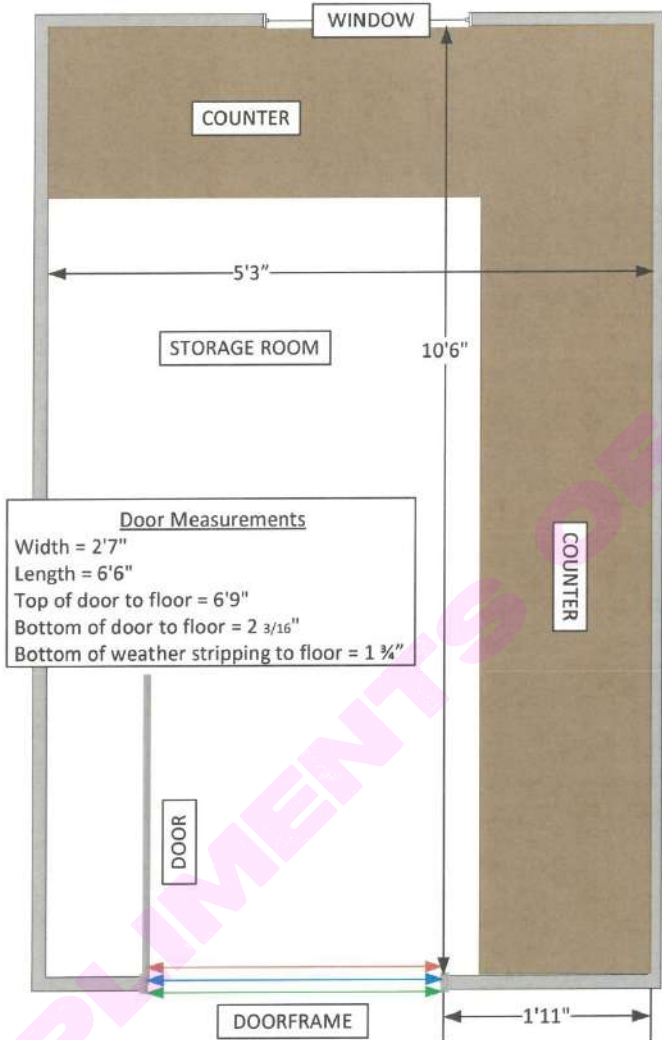
Evidence Measurements – Storage Room				
Marker	Item	NE Wall	SE Wall	SW Wall
1	Shotshell wadding		6'9"	2'2"
9	Fired shotshell	2"	8'6"	
10	Fired shotshell	3"	7'8"	

All measurements are approximate.
 RP = Reference Point



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Homicide
SLED Low Country/Colleton CSO
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4147 Moselle Road, Islandton, SC 29929
Lead SLED CS Agent: S/A Melinda Worley
Prepared by S/A M. Worley on 10/7/21 (MW)

Storage Room
Measurements



Door Measurements
Width = 2'7"
Length = 6'6"
Top of door to floor = 6'9"
Bottom of door to floor = 2 3/16"
Bottom of weather stripping to floor = 1 3/4"

Doorframe Measurements
Interior center width = 2'8"
Center to center width = 2'7"
Exterior center width = 2'7 15/16"
Interior top to bottom = 6'7"

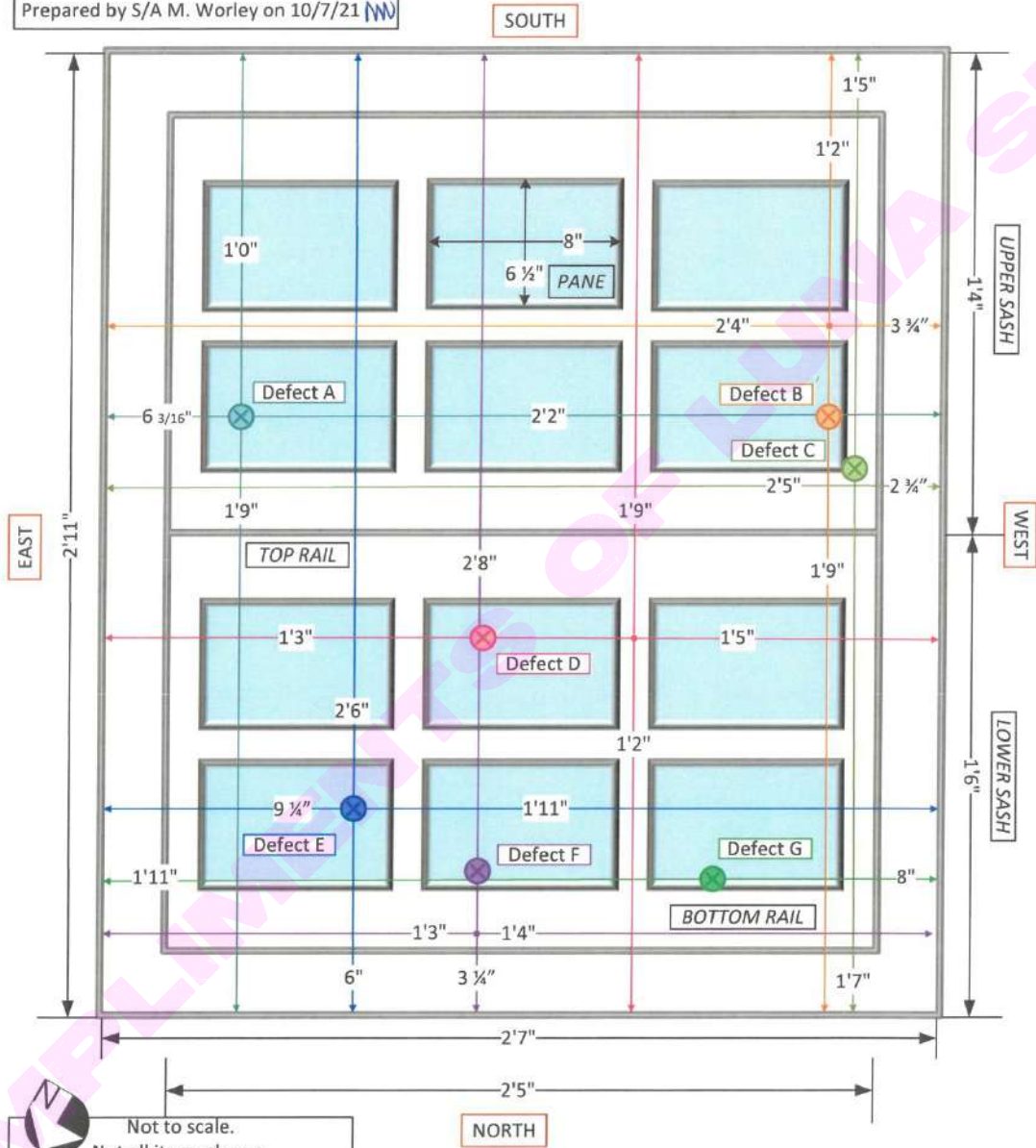
Not to scale.
Not all items shown.
All measurements are approximate.

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 Homicide
 SLED Low Country/Colleton CSO
 June 7, 2021
 4147 Moselle Road, Islandton, SC 29929
 Lead SLED CS Agent: S/A Melinda Worley
 Prepared by S/A M. Worley on 10/7/21 (NW)

Interior Side
 of Storage Room Window



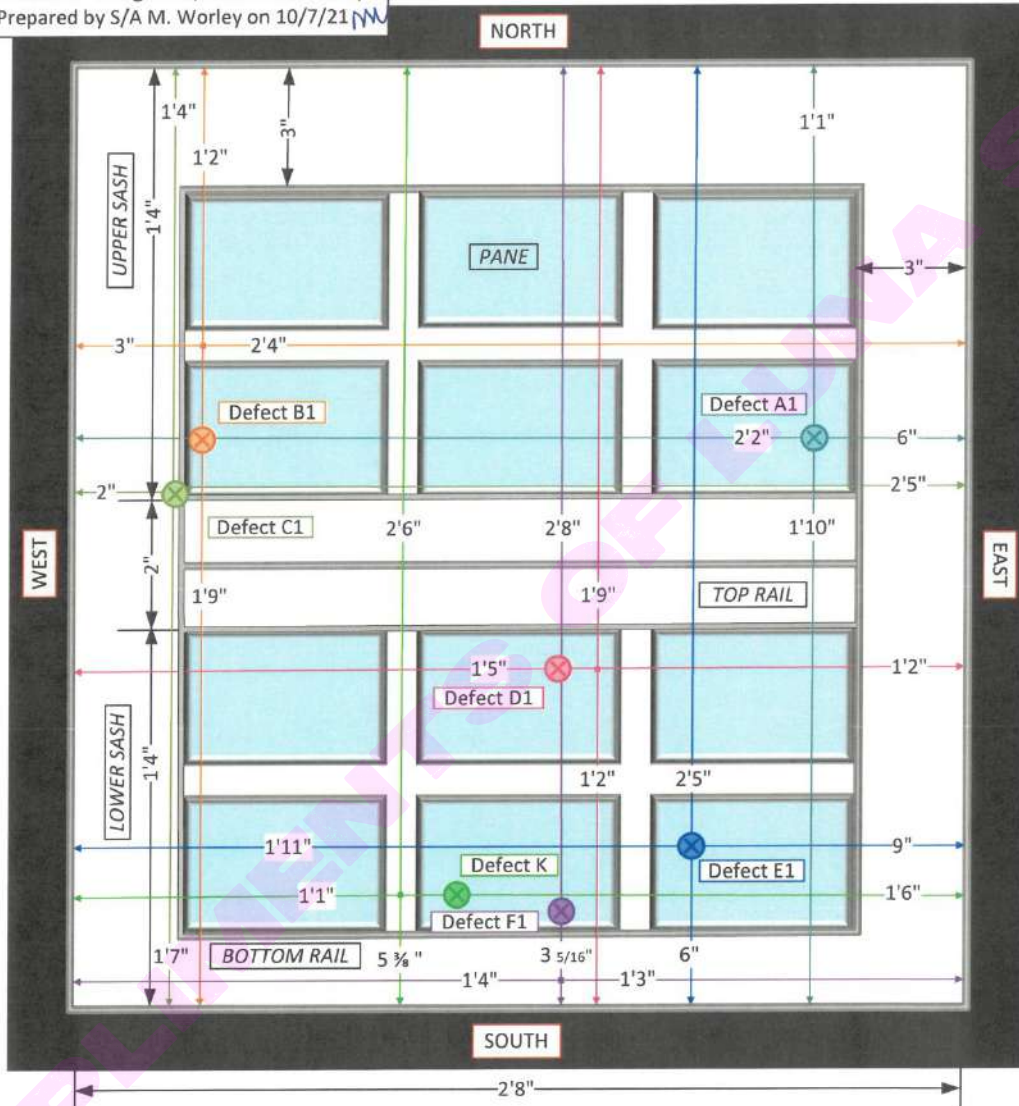
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 Not all items shown.
 All measurements are approximate.

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 June 7, 2021
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 Lead SLED CS Agent: S/A Melinda Worley
 Prepared by S/A M. Worley on 10/7/21

Exterior Side
 of Storage Room Window

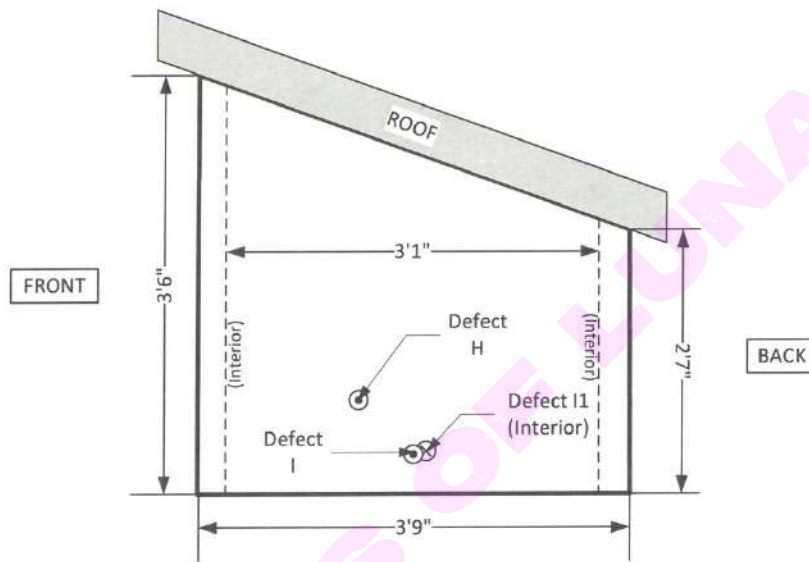


Not to scale.
 Not all items shown.
 All measurements are approximate.



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 June 7, 2021
 4147 Moselle Road, Islandton, SC 29929
 Lead SLED CS Agent: S/A Melinda Worley
 Prepared by S/A M. Worley on 8/5/21 MW

Southeast Side
 of Dog House



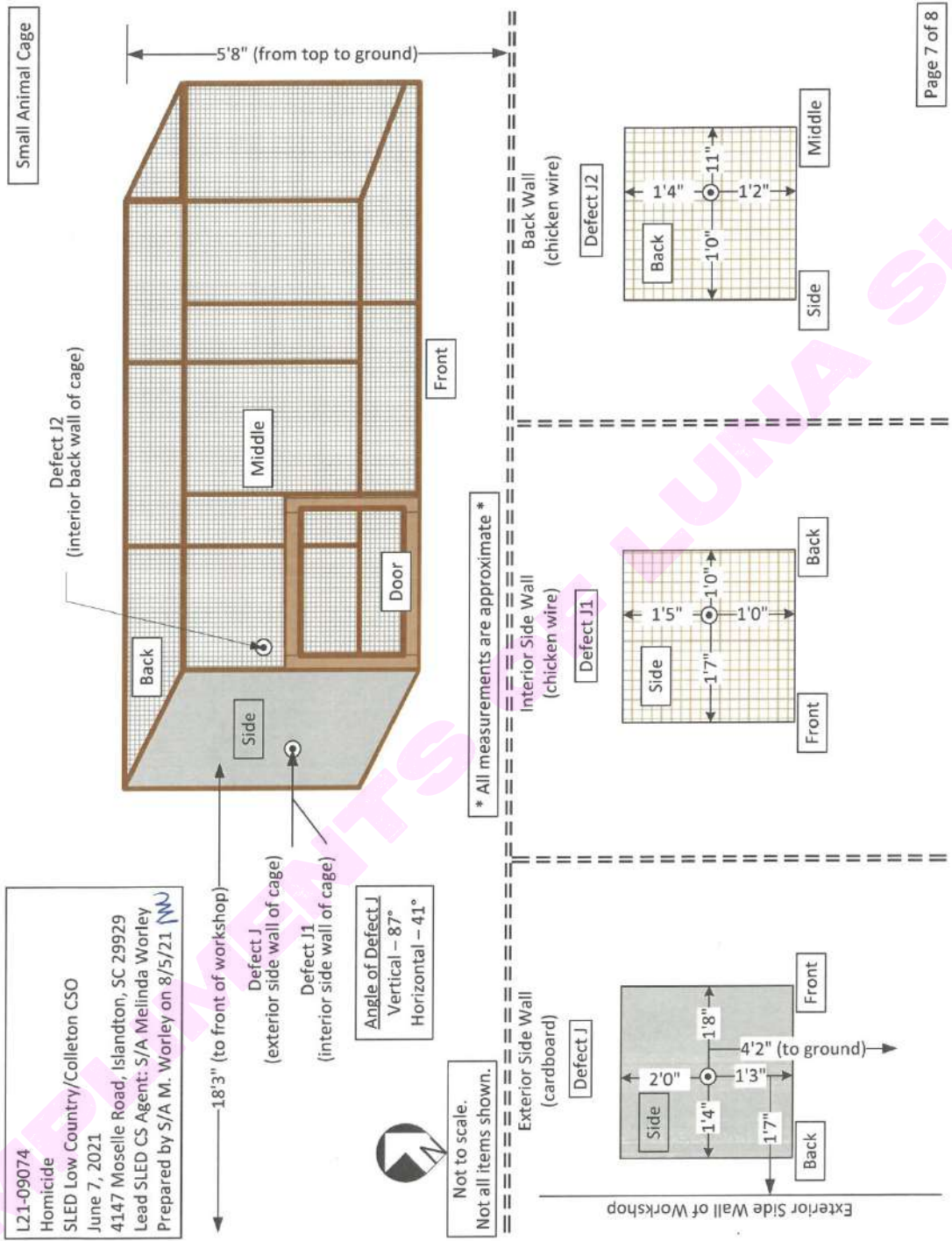
Measurements				
Defect	Front	Back	Top	Bottom
H	1'3"	2'7"	2'4"	11"
I	1'7"	2'2"	2'10"	3"
I1	1'4"	1'9"	2'8"	1"

Angle of Defect I
 Vertical – 76°
 Horizontal – 96°

Not to scale.
 Not all items shown.
 All measurements are approximate.

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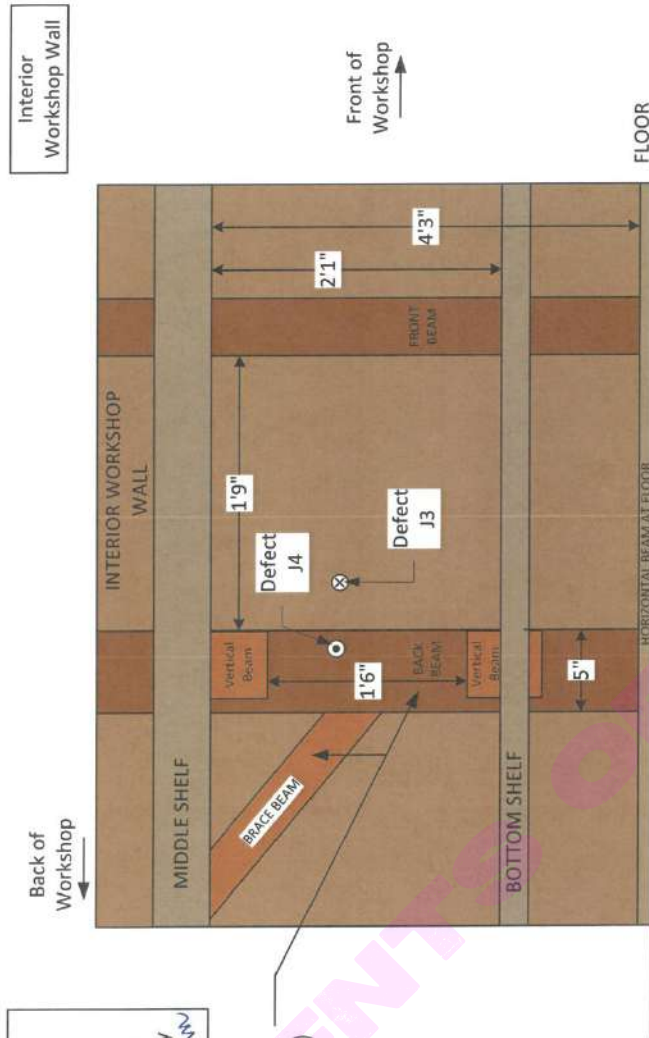




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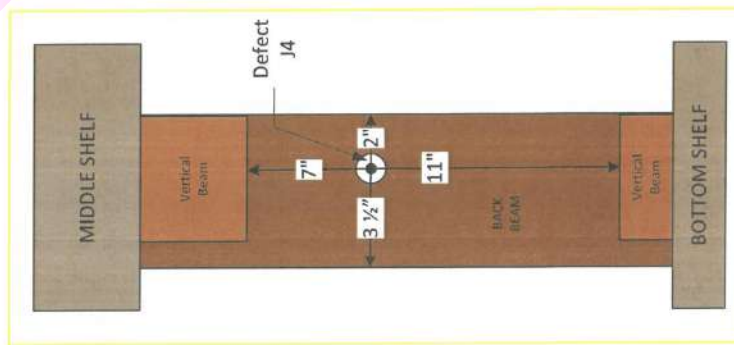
L21-09074
 Homicide
 SLED Low Country/Colleton CSO
 June 7, 2021
 4147 Moselle Road, Islandton, SC 29929
 Lead SLED CS Agent: S/A Melinda Worley
 Prepared by S/A M. Worley on 8/5/21 (NW)





L21-09074
 Homicide
 SLED Low Country/Colleton CSO
 June 7, 2021
 4147 Moselle Road, Islandton, SC 29929
 Lead SLED CS Agent: S/A Melinda Worley
 Prepared by S/A M. Worley on 10/7/21

Surface is perpendicular to interior workshop wall (faces the front of the workshop)



Defect	Measurements		
	Top Vertical Beam	Bottom Vertical Beam	Front Back Beam
J3	7"	11"	1.5" 3"



Not to scale.
 Not all items shown.
 All measurements are approximate.





South Carolina Law Enforcement Division
Forensic Services Laboratory
CHAIN OF CUSTODY

Laboratory Case Number: L21-09074
 Agency of Origin: Colleton CSO Page 1 of 4 m
 Agency Case Number: _____

ITEM #	QTY	DESCRIPTION OF ITEMS
	1	Camo Benelli Super Black Eagle 3 12 GA shotgun (S/N: U573210E17)
	1	Unfired ^m cartridge shot shell "12 GA FEDERAL"
	1	Unfired shotshell "WINCHESTER 16 GA"

Item #	Date	Relinquished By	Received By	Comments
	6/8/21	Printed Name: Daniel Greene Signature: <i>[Signature]</i> ID: 5717	Printed Name: Melinda A. Wentley 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 2 of 4 MW
 Agency of Origin: Colleton CSO
 Agency Case Number: _____

ITEM #	QTY	DESCRIPTION OF ITEMS
	1	GSR kit collected from Richard Alexander Murdaugh

Item #	Date	Relinquished By	Received By	Comments
	6/8/21	<small>Printed Name</small> D. Brian Varnick <small>Signature</small> <i>[Signature]</i>	<small>Printed Name</small> Melinda A. Worley <small>Signature</small> <i>[Signature]</i>	
		<small>Printed Name</small> <small>Signature</small> 	<small>Printed Name</small> <small>Signature</small> 	
		<small>Printed Name</small> <small>Signature</small> 	<small>Printed Name</small> <small>Signature</small> 	
		<small>Printed Name</small> <small>Signature</small> 	<small>Printed Name</small> <small>Signature</small> 	

Issuing Authority: Quality Manager

Page 1 of 1

SLED Forensics Form # FSA 049, January 2014



RECEIPT FOR PROPERTY		SLED CASE NUMBER			
		31-21-0061			
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 ALEL Measurement		Address (Include Zip Code) 4147 MOSELERO LAMARTON			
Signature of Owner Voluntarily Submitting Items					
Origin of Property					
Purpose for Which Obtained					
ITEM #	QTY	DESCRIPTION OF ITEMS			
1		WHITE T-SHIRT			
2		GREEN SHORTS			
3		PAIR OF NIKE SHOES			
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
1-3	4/8/21	Name DAVID ASEN	Name Melinda A. Worley		
		Signature <i>[Signature]</i>	Signature <i>[Signature]</i>		
	6/8/21 10 27	Name Melinda A. Worley	Name Todd Schenk		
		Signature <i>[Signature]</i>	Signature <i>[Signature]</i>		
		Name	Name		
		Signature	Signature		
		Name	Name		
		Signature	Signature		

L21-09074 Page 3 of 4 mu

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





South Carolina Law Enforcement Division
 Forensic Services Laboratory
 CHAIN OF CUSTODY

Laboratory Case Number: L21-09074 Page 4 of 4 MW
 Agency of Origin: SLED → SLED
 Agency Case Number: _____

ITEM #	QTY	DESCRIPTION OF ITEMS
	1	one (1) camo Benelli Super black Eagle 3 SN: US77210E17 w/ 2 (2) unfired shotshells
	6	Six (6) cartridge cases "S+B .300 AAC BLK"
	2	Two (2) fired shotshells
	1	GSQ kit from Richard Murdaugh
	3	Three fired projectiles
	21	multiple birdshot pellets
	1	metal fragments
	3	Three (3) sets of swabs
	1	one (1) shot shell wad

Item #	Date	Relinquished By	Received By	Comments
	6/8/21	Printed Name Melinda A. Worley	Printed Name Todd Schenk	
	1027	Signature <i>Melinda A. Worley</i>	Signature <i>Todd Schenk</i>	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	

Issuing Authority: Quality Manager

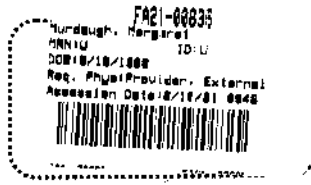
Page 1 of 1

SLED Forensics Form # FSA 049, January 2014





**MUSC DEPARTMENT OF PATHOLOGY
MEDICAL & FORENSIC AUTOPSY SECTION**
171 Ashley Avenue, Rm EH 309, MSC 908, Charleston, SC, 29425-9080
Office (843) 792-3500 Fax (843) 792-3537



Case Number: F21-00835

EVIDENCE AND PERSONAL EFFECTS TRANSFER SHEET

L21-09074 Page 1 of 2 MW

DESCRIPTION OF ITEMS

Two packets (10 envelopes)
Blue folder
White envelope
White paper
Yellow envelope, containing 1000 items
White envelope
Metal envelope (1000 items)
Blue envelope (1000 items)
Blue envelope (1000 items)
White envelope
White envelope
White envelope
White envelope
White envelope
White envelope
White envelope
White envelope
White envelope
White envelope
White envelope
White envelope
White envelope
White envelope
White envelope
White envelope

Transferred By: [Signature]
(PRINT)

Transferred To: [Signature]
(PRINT)

Representing: MUSC Forensic Pathology

Representing: [Signature]

Transferred At: MUSC Medical & Forensic Autopsy Section

Date: 12/09/21

Time: 12:12

OTC 800377 Rev 9/19





**SLED LABORATORY
FORENSIC SERVICES REQUEST
SUBMISSION RECEIPT**

SLED LAB No. L21-09074 WJ
Submission: 1/6/8/2021 11:04:41AM

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 <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
A 1		Wads - One (1) shotshell wad from Marker 1	FA - Firearms
B 2		Cartridge case(s) - One (1) cartridge case headstamped "S&B .300 AAC BLK" from Marker 2	DNA - Touch FA - Firearms LP - Latents
B 3		Cartridge case(s) - One (1) cartridge case headstamped "S&B .300 AAC BLK" from Marker 3	DNA - Touch FA - Firearms LP - Latents
B 4		Cartridge case(s) - One (1) cartridge case headstamped "S&B .300 AAC BLK" from Marker 4	DNA - Touch FA - Firearms LP - Latents
B 5		Cartridge case(s) - One (1) cartridge case headstamped "S&B .300 AAC BLK" from Marker 5	DNA - Touch FA - Firearms LP - Latents
B 6		Cartridge case(s) - One (1) cartridge case headstamped "S&B .300 AAC BLK" from Marker 6	DNA - Touch FA - Firearms LP - Latents
B 7		Cartridge case(s) - One (1) cartridge case headstamped "S&B .300 AAC BLK" from Marker 7	DNA - Touch FA - Firearms LP - Latents
A 8		Fired bullet(s) - One (1) fired projectile near tire tire impression at Marker 8	FA - Firearms
B 9		Shotshells - One (1) fired shotshell headstamped "12 GA FEDERAL" from Marker 9	DNA - Touch FA - Firearms LP - Latents
B 10		Shotshells - One (1) fired shotshell headstamped "WINCHESTER 12 GA" from Marker 10	DNA - Touch FA - Firearms LP - Latents

Printed: 06/08/2021 11:04

Page 1 of 3 TAS





**SLED LABORATORY
 FORENSIC SERVICES REQUEST
 SUBMISSION RECEIPT**

SLED LAB No. L21-09074 MM
 Submission: 1/6/8/2021 11:04 41AM

SLED ITEM No LAB ONLY	Agency item No.	Description of Evidence	Analysis Requested
A 11		Fired bullet(s) - Metal fragments collected from defect in ground (gravel) (Marker 13)	FA - Firearms
A 12		Fired bullet(s) - One (1) fired projectile collected from bedding inside doghouse	FA - Firearms
A 13		Fired bullet(s) - One (1) projectile (buckshot) collected from table below storage room window	FA - Firearms
A 14		Fired bullet(s) - Multiple birdshot pellets collected from dog food storage room	FA - Firearms
C 15		Swab(s) - Two (2) swabs of suspected blood from camo Benelli 12 GA shotgun	DNA - Blood
C 16		Swab(s) - Two (2) swabs collected from barrel of camo Benelli 12 GA shotgun	DNA - Blood
17		Swab(s) - Two (2) swabs for touch DNA collected from ext. door knob of storage room door	DNA - Touch
18		GSR Kit - From Richard Murdaugh	TR - GSR Analysis
D 19		Shirt - One (1) white shirt from Richard Murdaugh	DNA - Blood TR - GSR Analysis
D 20		Pants - One (1) pair of green shorts from Richard Murdaugh	DNA - Blood TR - GSR Analysis
D 21		Shoes - One (1) pair of red, yellow, and white, tennis shoes from Richard Murdaugh	DNA - Blood TR - GSR Analysis

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>MJ</i>
Submission: <u>12/6/2021 11:04:41AM</u>

Submitted and Maintained by :

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

Lt. Todd Schenk
SLED Crime Scene Investigation Unit

COMPLIMENTS OF LUNA SHARK

Printed: 06/08/2021 11:04

Page 3 of 3 *TMS*





**SLED LABORATORY
FORENSIC SERVICES REQUEST
SUBMISSION RECEIPT**

SLED LAB No. L21-09074 *MW*
Submission: 2/6/8/2021 11:16:35AM

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
22		Shotgun - One (1) camo Benelli Super Black Eagle 3 SN: U573210E17, with two (2) unfired shotshells	DNA - Blood DNA - Touch FA - Firearms 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> <u>rw</u>
Submission: <u>2 6/8/2021 11:16:35AM</u>

Submitted and Maintained by :

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

Lt. Todd Schenk
SLED Crime Scene Investigation Unit

COMPLIMENTS OF LUNA SHARK

Printed: 06/08/2021 11:16

Page 2 of 2 MS





**SLED LABORATORY
 FORENSIC SERVICES REQUEST
 SUBMISSION RECEIPT**

SLED LAB No. L21-09074
 Submission: 5/6/10/2021 4:42:55PM

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>31210051</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
66 R		Fired bullet(s) - Projectile fragments collected from Margaret Murdaugh at autopsy	FA - Firearms
67 R		Fired bullet(s) - Shotgun pellets collected from left shoulder and head of Paul Murdaugh at autopsy	FA - Firearms
68 R		Wads - Fragment of shotgun wadding collected from left shoulder and head of Paul Murdaugh at autopsy	FA - Firearms
69 R		Wads - Plastic wadding collected from left axilla of Paul Murdaugh at autopsy	FA - Firearms
70 S		Fingernail clippings - Left fingernail clippings from Margaret Murdaugh	DNA - Fingernail scrapings/clippings
71 S		Fingernail clippings - Right fingernail clippings from Margaret Murdaugh	DNA - Fingernail scrapings/clippings
72 T		Fingernail clippings - Left fingernail clippings from Paul Murdaugh	DNA - Fingernail scrapings/clippings
73 T		Fingernail clippings - Right fingernail clippings from Paul Murdaugh	DNA - Fingernail scrapings/clippings





**SLED LABORATORY
FORENSIC SERVICES REQUEST
SUBMISSION RECEIPT**

SLED LAB No. L21-09074 *mw*
Submission: 5/6/10/2021 4:42:55PM

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: 06/10/2021 16:43

Page 2 of 2





**SLED LABORATORY
 FORENSIC SERVICES REQUEST
 SUBMISSION RECEIPT**

SLED LAB No. L21-09074 *mw*
 Submission: 7/6/14/2021 1:26:41PM

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
84		Known fingerprint and/or palmprint card - One (1) set of postmortem major case prints collected from Margaret Murdaugh	EC - Storage
85		Known fingerprint and/or palmprint card - One (1) set of postmortem major case prints collected from Paul Murdaugh	EC - Storage
86 <i>W</i>		Known head hairs - Pulled scalp hair - Margaret Murdaugh	EC - Storage
87 <i>W</i>		Blood standard - Blood spot collected at autopsy - Margaret Murdaugh	EC - Storage
88 <i>X</i>		Known head hairs - Pulled scalp hair - Paul Murdaugh	EC - Storage
89 <i>X</i>		Blood standard - Blood spot collected at autopsy - Paul Murdaugh	EC - Storage
90		Digital Media - One (1) CD-R containing autopsy photos - Margaret Murdaugh	ADP - ADP-Digital Media
91		Digital Media - One (1) CD-R containing autopsy photos - Paul Murdaugh	ADP - ADP-Digital Media
92 <i>Y</i>		Clothing - One (1) blue/white "Lily Pulitzer" brand dress (size XXL) collected from Margaret Murdaugh at autopsy	EC - Storage
93 <i>Y</i>		Underwear - One (1) white bra collected from Margaret Murdaugh at autopsy	EC - Storage
94 <i>Y</i>		Panties - One (1) pair of white "Victoria's Secret" brand panties (size XL) collected from Margaret Murdaugh at autopsy	EC - Storage





**SLED LABORATORY
 FORENSIC SERVICES REQUEST
 SUBMISSION RECEIPT**

SLED LAB No. L21-09074 MM
 Submission: 7/6/14/2021 1:26:41PM

SLED ITEM No LAB ONLY	Agency Item No.	Description of Evidence	Analysis Requested
95 Y		Shoes - One (1) pair of brown/white "Reef" brand flip flops (size 9) collected from Margaret Murdaugh at autopsy	EC - Storage
96 Y		Miscellaneous - One (1) black hair tie collected from Margaret Murdaugh at autopsy	EC - Storage
97 Y		Miscellaneous - One (1) metal hair clip collected from Margaret Murdaugh at autopsy	EC - Storage
98 Y		Jewelry - One (1) yellow metal hoop earring with clear stones collected from Margaret Murdaugh at autopsy	EC - Storage
99 Z		Shirt - One (1) black or blue "Southern Proper" brand t-shirt (size M) collected from Paul Murdaugh at autopsy	EC - Storage
100 Z		Pants - One (1) pair of khaki "Columbia PFG" brand shorts (size M) with brown patterned belt collected from Paul Murdaugh at autopsy	EC - Storage
101 Z		Underwear - One (1) pair of blue/green plaid "Polo Ralph Lauren" brand boxers (size M) collected from Paul Murdaugh at autopsy	EC - Storage
102 Z		Socks - One (1) pair of white socks collected from Paul Murdaugh at autopsy	EC - Storage
103 Z		Shoes - One (1) pair of gray "New Balance 990v5" brand sneakers (size 9) collected from Paul Murdaugh at autopsy	EC - Storage
104		Pellets - One (1) shotgun pellet found with Paul Murdaugh's clothing	FA - Firearms
105		Digital Media - Digital images of the crime scene, vehicles, and clothing	CS - SLED Crime Scene





**SLED LABORATORY
 FORENSIC SERVICES REQUEST
 SUBMISSION RECEIPT**

SLED LAB No. L21-09074 *MW*
 Submission: 7/6/14/2021 1:26:41PM

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. <u>L21-09074</u> <i>MW</i>
Submission: <u>7/6/14/2021 1:26:41PM</u>

Submitted and Maintained by :

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

Melinda A. Worley
SLED Crime Scene Investigation Unit

COMPLIMENTS OF LUNA SHARK

Printed: 06/14/2021 13:26

Page 4 of 4





**SLED LABORATORY
FORENSIC SERVICES REQUEST
SUBMISSION RECEIPT**

SLED LAB No. L21-09074
Submission: 12/6/21/2021 5:32:05PM

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
137		Miscellaneous - One (1) metal fragment collected from hair on the Item 92 dress	FA - Firearms





**SLED LABORATORY
 FORENSIC SERVICES REQUEST
 SUBMISSION RECEIPT**

SLED LAB No. L21-09074 NW
 Submission: 12/8/21/2021 5:32:05PM

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	<u>12-9-71</u>	
Richard Alexander Murdaugh	M	W	<u>12-9-71</u>	
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

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
Submission: 12/6/21/2021 5:32:05PM

Submitted and Maintained by :

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

Melinda A. Worley
SLED Crime Scene Investigation Unit

COMPLIMENTS OF LUNA SHARK

Printed: 06/21/2021 17:32

Page 3 of 3





**SLED LABORATORY
 FORENSIC SERVICES REQUEST
 SUBMISSION RECEIPT**

SLED LAB No. L21-09074 *MW*
 Submission: 14 7/19/2021 11:39:45AM

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
139		Digital Media - Digital images of the crime scene taken during follow-up on July 16, 2021	
140		Digital Media - FARO scans taken at the crime scene on July 16, 2021	ADP - Advanced Digital Photography - Faro





**SLED LABORATORY
 FORENSIC SERVICES REQUEST
 SUBMISSION RECEIPT**

SLED LAB No. L21-09074 MJ
 Submission: 14 7/19/2021 11:39:45AM

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		

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> 
Submission: <u>14 7/19/2021 11:39:45AM</u>

Submitted and Maintained by :

Melinda A. Worley
SLED Crime Scene Investigation Unit

COMPLIMENTS OF LUNA SHARK

Printed: 07/19/2021 11:39

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**SLED LABORATORY
FORENSIC SERVICES REQUEST
SUBMISSION RECEIPT**

SLED LAB No. L21-09074 *MW*
Submission: 15 7/22/2021 9:50:28AM

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
141		Digital Media - Digital images of additional processing of items 19 and 20	





**SLED LABORATORY
 FORENSIC SERVICES REQUEST
 SUBMISSION RECEIPT**

SLED LAB No. L21-09074 MW
 Submission: 15 7/22/2021 9:50:28AM

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	11-11-21	
Richard Alexander Murdaugh	M	W	12-11-21	
Randy Murdaugh	M	W		
Miley Altman	F	W		
Michael David List	M	W		
Nolen Tuten	M	W	12-11-21	

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>15 7/22/2021 9:50:28AM</u>

Submitted and Maintained by :

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

Melinda A. Worley
SLED Crime Scene Investigation Unit

COMPLIMENTS OF LUNA SHARK

Printed: 07/22/2021 9:50

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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

July 29, 2022

Laboratory Number L21-09074
Reporting Agent Melinda A. Worley
Investigating Agency SLED Low Country Region

Introduction

On June 7, 2021, the Colleton County Sheriff's Office (CSO) requested SLED Crime Scene assistance with the investigation of a double homicide in Islandton, SC. SLED Crime Scene agents were subsequently requested to respond to multiple follow-up locations.

Scene Summary

On June 8, 2021, Special Agent (S/A) Dalila Jazic responded to the Colleton Medical Center, located at 501 Robertson Blvd., Walterboro, SC 29488, to collect additional evidence from the victims.

Upon completion, S/A Jazic responded to the crime scene, located at 4147 Moselle Road, Islandton, SC 29929, where evidence was transferred to her.

On June 9, 2021, S/A Melinda Worley and S/A Jaclynn McKay responded to the SLED Low Country Region Office, located at 104 Simmons Street, Walterboro, SC 29488, where evidence was transferred to S/A Worley.

Upon completion, S/A Worley and S/A McKay responded to the Colleton CSO, located at 394 Mable T. Willis Blvd., Walterboro, SC 29488, to process a black 2021 Chevrolet Suburban and a white 2008 Ford F-250.

On June 15, 2021, S/A Worley and S/A Haley Fiorucci responded to the Colleton CSO to process a black 2021 Mercedes GLS 450.

On August 27, 2021, S/A Worley responded to the Colleton CSO to collect additional evidence from the black 2021 Chevrolet Suburban.



On September 13, 2021, S/A Worley and S/A Bailey Morgan responded to 4147 Moselle Road to assist with the execution of a search warrant.

Refer to the Crime Scene Notes for further information on the above-listed scenes.

Presumptive testing was conducted during the crime scene investigation. Refer to the Crime Scene Notes for further information.

During the crime scene investigation, evidence was transferred by SLED Low Country agents to SLED Crime Scene agents and exchanged between SLED Crime Scene agents. Refer to the Chain of Custody documents for additional information.

During the crime scene investigation, photographs were taken by SLED Crime Scene agents. A copy of the photographs was provided to SLED Low Country S/A David Owen at the SLED Low Country Office on August 27, 2021, and through inter-office mail at various other times. Additional copies are available upon request.

Evidence was submitted by SLED Crime Scene agents to the SLED Forensic Services Laboratory. Refer to the submission documentation for additional information.

Attachments

- *CS Notes
- *Chain of Custody
- *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.



Melinda A. Worley
Forensic Scientist



Crime Scene Attachments



SLED CRIME SCENE DEPARTMENT

CRIME SCENE NOTES

Lab No: L21-09074 - Supplemental

Examiner: S/A Melinda A. Worley MW

Response Location: Colleton Medical Center, 501 Robertson Boulevard, Walterboro, SC 29488

On June 8, 2021, due to the request to have DNA evidence from the crime scene prioritized when it arrived at the lab, Special Agent (S/A) Dalila Jazic (SLED Crime Scene) was requested to meet Colleton County Coroner Richard Harvey at the morgue to collect buccal swabs for DNA standards from the victims, Margaret and Paul Murdaugh.

Upon arrival at approximately 1:50 PM, the weather was overcast with an approximate temperature of 91°F. S/A Jazic met with Coroner Harvey, who provided access to the bodies. S/A Jazic documented the condition of each body bag and victim with photographs (**Item 200**) and notes. Coroner Harvey cut the tag on each body bag and resealed each bag after S/A Jazic collected a set of buccal swabs from each victim (**Items 23 – 24**).

S/A Jazic cleared the morgue at approximately 2:23 PM. At the request of SLED Low Country Captain (Capt.) Ryan Neill, S/A Jazic then responded to the initial scene to take custody of a cell phone that had been located near the scene.

Response Location: 4147 Moselle Road, Islandton, SC 29929

Upon arrival at approximately 2:55 PM, the weather was overcast with an approximate temperature of 90°F. S/A Jazic met with Capt. Neill, who transferred an "iPhone" cell phone in a clear case (**Item 25**) to S/A Jazic via a Chain of Custody form. S/A Jazic cleared the scene at approximately 3:11 PM and transported the evidence to the SLED Forensic Service Laboratory.

The buccal swabs and the cell phone were transferred from S/A Jazic to Lieutenant (Lt.) Todd Schenk (SLED Crime Scene) via Chain of Custody forms. The digital photographs that S/A Jazic took of the victims and the body bags were transferred to S/A Worley via a Chain of Custody form.

Response Location: SLED Low Country Region Office, 104 Simmons Street, Walterboro, SC 29488

On June 9, 2021, S/A Worley and S/A Jaclynn McKay returned to Colleton County to process the Chevrolet Suburban that was towed from the scene and a truck that was recovered. SLED Crime Scene agents were requested to respond initially to the SLED Low Country Region Office before going to the Colleton County Sheriff's Office (CSO) to process the vehicles.

Upon arrival at approximately 11:03 AM, the weather was cloudy with an approximate temperature of 87°F. SLED Crime Scene agents met with S/A Katie McCallister, who transferred the following items, which were collected from the Murdaugh residence, to S/A Worley via Chain of Custody forms:

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SLED CRIME SCENE DEPARTMENT

CRIME SCENE NOTES

- One (1) "MOSSBERG MODEL 835 ULTI-MAG" shotgun (S/N: UM613411) with one (1) unfired 12 GA shotshell (previously on pool table) **(Item 30)**
- One (1) "BROWNING AUTO-5 LIGHT TWELVE INVECTOR PLUS SPECIAL STEEL" 12 GA shotgun (S/N: 03867NV211) **(Item 31)**
- One (1) "BENELLI SUPER BLACK EAGLE II" 12 GA shotgun (S/N: U391148) with strap and two (2) unfired shotshells headstamped "WINCHESTER 12 GA" and "12 GA FEDERAL" **(Item 32)**
- One (1) "PALMETTO STATE ARMORY PSA PA-15 MULTI" rifle (S/N: PA068237) with "Pulsar" night vision scope (S/N: 9025827) **(Item 33)** and one (1) metal 30-round magazine containing multiple "S&B .300 AAC BLK" cartridges **(Item 34)**
- One (1) cartridge case headstamped "S&B .300 AAC BLK" collected from ground at side entrance door **(Item 35)**
- One (1) cartridge case headstamped "S&B .300 AAC BLK" collected from ground at side entrance door **(Item 36)**
- One (1) cartridge case headstamped "S&B .300 AAC BLK" collected from ground at side entrance door **(Item 37)**
- One (1) cartridge case headstamped "S&B .300 AAC BLK" collected from ground at side entrance door **(Item 38)**
- One (1) cartridge case headstamped "S&B .300 AAC BLK" collected from ground at side entrance door **(Item 39)**
- One (1) unfired cartridge headstamped "S&B .300 AAC BLK" collected from Remington 20 GA shotgun shell box from shelving near gun storage rack **(Item 40)**
- Three (3) unfired cartridges headstamped "R-P .243 WIN" collected from gun storage room **(Item 41)**
- One (1) unfired "Black Cloud Steel" 12 GA shotgun shell collected from gun shelving area in gun storage room **(Item 42)**
- One (1) black 12 GA shotgun shell headstamped "12GA Made in USA" collected from gun shelving area in gun storage room **(Item 43)**
- One (1) unfired "Heavy Weight TSS FEDERAL" 12 GA shotgun shell collected from box on gun shelving in gun storage room **(Item 44)**
- One (1) empty 20-round box of "S&B .300 AAC BLK" FMJ ammunition collected from gun storage room **(Item 45)**
- Three (3) empty ammunition boxes collected from the trash:
 - "Browning TSS 12 GAUGE AMMUNITION" **(Item 46)**
 - "WINCHESTER 12 GAUGE SHOT-LOK LEAD TURKEY LOAD" **(Item 47)**
 - "FEDERAL 12 GAUGE HEAVYWEIGHT TSS TURKEY SHOTSHELLS" **(Item 48)**
- Miscellaneous shredded/torn financial statements collected from the trash **(Item 49)**

SLED Crime Scene agents documented the firearms with notes and photographs **(Item 201)**. The other items that were transferred were already packaged and sealed prior to the transfer. The following SLED Low Country agents collected buccal swabs for elimination purposes, all of which were transferred to S/A Worley via Chain of Custody forms:

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SLED CRIME SCENE DEPARTMENT

CRIME SCENE NOTES

- S/A Lawrence Wiggins – One (1) set of buccal swabs from Anthony Cook (**Item 26**) and one (1) set of buccal swabs from Roger Davis (**Item 27**)
- S/A Jeff Croft – One (1) set of buccal swabs from Rogan Gibson (**Item 28**)
- S/A Blake Johnson – One (1) buccal swab from Claude (C.B.) Rowe III (**Item 29**)

SLED Crime Scene agents cleared the SLED Low Country Region Office at approximately 3:00 PM and responded to the Colleton CSO, where the two vehicles were secured for processing.

Response Location: Colleton CSO, 394 Mable T. Willis Boulevard, Walterboro, SC 29488

Upon arrival at approximately 3:07 PM, the weather was mostly cloudy with an approximate temperature of 88°F. Capt. Jason Chapman, additional personnel from the Colleton CSO, SLED Low Country S/A David Owen, and additional personnel from the SLED Low Country Region were present at the garage. S/A Owen provided search warrants for the vehicles.

The vehicles were documented with photographs (**Item 201**) by S/A McKay and with notes by S/A Worley.

Vehicle Information: Black 2021 Chevrolet Suburban, SC tag CZL420, VIN: 1GNSKFKD0MR210998

The vehicle, which was registered to Richard Murdaugh's law firm, was searched for any items of evidentiary value. A representative from the law firm was present to take possession of any legal documents pertaining to the law firm. The following item was photographed and collected from the Chevrolet Suburban by SLED Crime Scene agents:

- One (1) unfired shotgun shell headstamped "WINCHESTER 12 GA" collected from the rear driver side floorboard (**Item 50**)

Presumptive Testing

SLED Crime Scene agents used an alternate light source (ALS) to search the driver's compartment of the vehicle, including the door, window, seat, steering wheel, center console, dashboard, and floor, for suspected blood. Any areas of interest were circled and tested with phenolphthalein (phenol), which tested reliable prior to use, for the presence of blood, all of which yielded negative results. SLED Crime Scene agents then processed the front driver and passenger side compartments with BlueStar for the presence of blood; the BlueStar also tested reliable prior to use. Areas of interest that were BlueStar positive (BS+) were circled. Two (2) swabs of suspected blood (BS+) were collected from each of the following areas:

- Lock/unlock buttons on driver's door (**Item 51**)
- Driver's door arm rest (**Item 52**)
- Driver's side running board below driver's door (**Item 53**)
- Driver's floorboard (**Item 54**)
- Front edge of driver's seat (**Item 55**)

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SLED CRIME SCENE DEPARTMENT

CRIME SCENE NOTES

- Steering wheel (**Item 56**)
- Center of driver's seat back (**Item 57**)
- Front passenger door above arm rest (**Item 58**)
- Front passenger seat bottom (**Item 59**)
- Front passenger seat back (**Item 60**)

SLED Crime Scene agents then documented and processed a white four-door truck, which belonged to the Murdaugh family and was said to have broken down on the side of a road between Islandton and Hampton.

Vehicle Information: White 2008 Ford F250 Super Duty, SC tag IZF269, VIN: 1FTSW21R68EC91635

The vehicle was documented with photographs and searched for any items of evidentiary value. Several 12 GA and 20 GA shotshells were located in the center console, both seatback pockets, and the rear passenger side floorboard; the shotshells were documented with photographs only. The following items were collected from the truck:

- Ten (10) unfired cartridges headstamped "S&B .300 AAC BLK" collected from the center console (**Item 65**)

Presumptive Testing

The driver and front passenger compartments were then processed with BlueStar for the presence of blood; the BlueStar again tested reliable prior to use. Two (2) swabs of suspected blood (BS+) were collected from the following areas of the truck:

- Driver's door above arm rest (**Item 61**)
- Door side corner of driver's seat bottom (**Item 62**)
- Door side edge of front passenger seat bottom (**Item 63**)
- Front passenger side seat back (**Item 64**)

Crime Scene Review

Prior to clearing the Colleton CSO, a final walkthrough was conducted with S/A Owen. No additional processing was requested at that time, and the vehicles were released to the SLED Low Country Region. SLED Crime Scene agents cleared the Colleton CSO at approximately 8:15 PM and transported the evidence to the SLED Forensic Services Laboratory.

On June 10, 2021, at the request of the SLED Latent Print Department, S/A Jazic and Lt. Schenk took additional photographs of the Item 30 shotgun. The photographs (**Item 203**) were transferred from Lt. Schenk to S/A Worley via a Chain of Custody form.

Issuing Authority: Quality Manager

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SLED CRIME SCENE DEPARTMENT

CRIME SCENE NOTES

Response Location: Colleton CSO, 394 Mable T. Willis Boulevard, Walterboro, SC 29488

On June 15, 2021, S/A Worley and S/A Haley Fiorucci (SLED Crime Scene) responded to the Colleton CSO to process Margaret Murdaugh's vehicle, a black Mercedes SUV.

Upon arrival at approximately 3:24 PM, the weather was partly cloudy with an approximate temperature of 96°F. SLED Crime Scene agents met with S/A Owen, who provided a search warrant for the vehicle and the following information: S/A Owen requested for S/A Worley to determine if the tire impressions that were at Marker 8 at the crime scene could have been made by the tires on the victim's vehicle; SLED Crime Scene agents would collect inked tire test impressions from the Mercedes if necessary.

Vehicle Information: Black 2021 Mercedes GLS 450, SC tag TRJ292, VIN: 4JGFF5KE1MA378564

The vehicle was documented with photographs (Item 202) by S/A Fiorucci and with notes by S/A Worley.

All of the vehicle's doors, including the rear hatch and the hood, and the outer door to the garage had been sealed with evidence seal tape. Each seal was documented with photographs.

After a visual comparison of the design characteristics, S/A Worley confirmed that the unknown tire impressions at Marker 8 were not made by the tires on the Mercedes; no inked test impressions of the tires were collected.

A search of the vehicle for any items of evidentiary value yielded negative results.

Presumptive Testing

SLED Crime Scene agents processed the driver's compartment, including the exterior and interior sides of the door and the running board, with BlueStar for the presence of blood; the BlueStar tested reliable prior to use. The search yielded negative results.

At the request of S/A Owen, the following items were collected from the Mercedes:

- Two (2) swabs for touch DNA collected from the interior driver's door release (Item 106)
- Two (2) swabs for touch DNA collected from the exterior driver's door release (Item 107)

Crime Scene Review

Prior to clearing the Colleton CSO, a final walkthrough was completed with S/A Owen. No further processing was requested at that time, and the vehicle was released to S/A Owen. SLED Crime Scene agents cleared the Colleton CSO at approximately 5:37 PM and transported the evidence to the SLED Forensic Services Laboratory.

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SLED CRIME SCENE DEPARTMENT

CRIME SCENE NOTES

On June 16, 2021, SLED Low Country agents searched an area by a pond near Moselle Road that appeared to have been used as a shooting range. Evidence that was collected from that location was transferred from S/A Owen to Lt. Schenk via a Chain of Custody form. Lt. Schenk transported the evidence to the SLED Forensic Services Laboratory, where it was transferred to S/A Worley via a Chain of Custody form and submitted to the lab for comparison purposes. The evidence included the following items:

- One (1) cartridge case headstamped "S&B .300 AAC BLK" collected from to the left of shooting chair (near field) **(Item 108)**
- One (1) cartridge case headstamped "S&B .300 AAC BLK" collected from right front corner (near field) **(Item 109)**
- One (1) cartridge case headstamped "S&B .300 AAC BLK" collected from in front of shooter's chair under table (near field) **(Item 110)**
- One (1) cartridge case headstamped "S&B .300 AAC BLK" collected from in front of chair at table (near field) **(Item 111)**
- One (1) cartridge case headstamped "S&B .300 AAC BLK" collected from under shooting table (near field) **(Item 112)**
- One (1) cartridge case headstamped "S&B .300 AAC BLK" collected from in front of right shooting table leg (near field) **(Item 113)**
- One (1) cartridge case headstamped "S&B .300 AAC BLK" collected from near right leg of shooting table in front of chair (near field) **(Item 114)**
- 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) **(Item 115)**
- One (1) cartridge case headstamped "S&B .300 AAC BLK" collected from to the right halfway between leg and wall (near field) **(Item 116)**
- One (1) cartridge case headstamped "S&B .300 AAC BLK" collected from near right leg of shooting table near chair (near field) **(Item 117)**
- One (1) cartridge case headstamped "S&B .300 AAC BLK" collected from by right wall (near field) **(Item 118)**
- One (1) cartridge case headstamped "S&B .300 AAC BLK" collected from right front part of front wall (near field) **(Item 119)**
- One (1) cartridge case headstamped "S&B .300 AAC BLK" collected from right side of shooting platform (near field) **(Item 120)**
- One (1) cartridge case headstamped "S&B .300 AAC BLK" collected from right of shooting chair by platform (near field) **(Item 121)**
- One (1) cartridge case headstamped "S&B .300 AAC BLK" collected from right side near wall (near field) **(Item 122)**
- One (1) cartridge case headstamped "S&B .300 AAC BLK" collected from right side near platform (near field) **(Item 123)**
- One (1) cartridge case headstamped "S&B .300 AAC BLK" collected from right wall near sandbags (near field) **(Item 124)**
- Eight (8) fired 12 GA shotshells collected near field **(Item 125)**

Issuing Authority: Quelly Manager

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SLED CRIME SCENE DEPARTMENT

CRIME SCENE NOTES

- One (1) cartridge case headstamped "S&B .300 AAC BLK" collected from right front corner (near field) **(Item 126)**
- One (1) cartridge case headstamped "S&B .300 AAC BLK" collected from right and to the front of right table leg (near field) **(Item 127)**
- One (1) cartridge case headstamped "S&B .300 AAC BLK" collected from right near front wall (near field) **(Item 128)**

On June 21, 2021, S/A Owen transferred the following items to S/A Worley via a Chain of Custody form at the SLED Forensic Services Laboratory:

- Two (2) buccal swabs collected from Michael David List **(Item 136)**

Response Location: Colleton CSO, 394 Mable T. Willis Boulevard, Walterboro, SC 29488

On August 27, 2021, S/A Worley returned to the Colleton CSO to document and collect the driver's seatbelt from the black 2021 Chevrolet Suburban, which had remained in a secure area.

Upon arrival at approximately 9:44 AM, the weather was cloudy with an approximate temperature of 86°F. S/A Worley met with S/A Owen and S/A Jeff Croft. S/A Owen provided a search warrant for the vehicle and the following additional information: Troopers from the SC Highway Patrol were present to download computer data from the vehicle's event data recorder. S/A Worley was requested to collect the driver's seatbelt and submit it to the SLED Forensic Services Laboratory for potential blood, DNA, and/or trace evidence testing.

S/A Worley documented the vehicle with photographs **(Item 144)** and notes. In particular, the exterior of the vehicle, the entire front compartment, and the front seatbelts were photographed. The driver's seatbelt **(Item 142)** was then removed from the vehicle. This included the strap, buckle, receiver, and some hardware that could not be separated from the components that were being collected.

While documenting the Chevrolet Suburban, the rear driver side tire was observed to be flat. Upon further investigation, a small hole was found in the tire, and a small screw was found inside the tire.

While at the Colleton CSO, S/A Owen and S/A Worley collected a set of buccal swabs **(Item 143)** from Deputy Daniel Greene, who was the first responding deputy at the crime scene and had secured the Item 22 shotgun.

Crime Scene Review

Prior to clearing the Colleton CSO, a final walkthrough was completed with S/A Owen. No additional processing was requested, and a copy of the photographs was provided to S/A Owen at that time. S/A Worley cleared the Colleton CSO at approximately 1:40 PM and transported the evidence to the SLED Forensic Services Laboratory.

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SLED CRIME SCENE DEPARTMENT

CRIME SCENE NOTES

Additional Processing

On September 1, 2021, Lt. Schenk and S/A Worley met with Sr. Criminalist Ben Vanadore in the SLED Photography Studio to further document the Item 21 shoes from Richard Murdaugh and the Item 142 seatbelt from the Chevrolet Suburban with infrared (IR) photographs.

Presumptive Testing

While photographing the Item 21 pair of shoes, two areas on the right shoe were tested with phenol for the presence of blood; the phenol tested reliable prior to use (Preparation Date: 11/19/2020, Expiration Date: 11/4/2021). The following areas on the right shoe were phenol tested, both of which yielded negative results, and the swabs were not maintained as evidence:

- Exterior lateral toe end
- Tongue area underneath the outer mesh

No additional evidence was collected from the shoes or the seatbelt at that time. The IR photographs (Item 203) were transferred from Lt. Schenk to S/A Worley via a Chain of Custody form.

Response Location: 4147 Moselle Road, Islandton, SC 29929

On September 13, 2021, S/A Worley, S/A Bailey Morgan (SLED Crime Scene), and Sr. Criminalist Paul Greer (SLED Firearms) responded to the initial scene to assist with the execution of a search warrant at the residence.

Upon arrival at approximately 1:28 PM, the weather was partly cloudy with an approximate temperature of 87°F. Capt. Neill, Lt. Charles Ghent, S/A Owen, S/A Croft, S/A McCallister, S/A Jomar Albayalde, S/A Mitch Altman, S/A Ryan Kelly, and S/A Blake Johnson were present at the scene. SLED Crime Scene agents met with Capt. Neill and Lt. Ghent, who provided the following information: Several buildings on the property, including the main residence, a cabin, and the workshop, were to be documented with photographs and searched for any items of evidentiary value. A search warrant for the property was provided by S/A Johnson.

While S/A Worley documented the main residence, S/A Morgan photographed the cabin (Item 172). The cabin was located at 4157 Moselle Road, which could be accessed by a path through the woods from the dog kennels. The cabin was facing Moselle Road and had green siding with a large, covered deck on the back of the house. The following items were photographed and collected from a desk in the living room:

- Three (3) unfired cartridges headstamped "S&B .300 AAC BLK" (Items 155 – 157)
- One (1) unfired cartridge headstamped "BARNES 300 BLK" (Item 160)
- One (1) unfired cartridge headstamped "HORNADY 300 BLK" (Item 161)

After S/A Morgan photographed the interior of the cabin, she documented the following buildings and vehicles with photographs:

Issuing Authority: Quality Manager

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SLED CRIME SCENE DEPARTMENT

CRIME SCENE NOTES

- Covered outbuilding behind the cabin (no items collected by SLED Crime Scene agents)
- Detached shed with carport southeast of the cabin (exterior photographs only)
- Two-story farm storage building with garage and multiple carports southwest of the large workshop (no items collected by SLED Crime Scene agents)
- White 1999 Ford F-250 Super Duty (SC tag FAL533, VIN: 1FTNW21S0XEF03251) that was parked under the far end of the carport (exterior photographs only)
- White 2014 Ford F-150 (SC tag NRH428, VIN: 1FTFW1EF4EFB06497) parked in front of the residence (no items collected by SLED Crime Scene agents)
- Black 2010 Ford F-150 (SC tag QVV216, VIN: 1FTFW1EVXAFB61652) parked in front of the residence – the following items were photographed and collected by SLED Crime Scene agents:
 - One (1) cartridge case headstamped "HORNADY 300 BLK" collected from under the driver's seat (**Item 146**)
 - One (1) magazine containing cartridges headstamped "S&B .300 AAC BLK" collected from underneath the rear seat (**Item 171**)

The main residence, which was set back away from Moselle Road, consisted of a two-story residence with two bedrooms and two bathrooms upstairs and two bedrooms and two and a half bathrooms downstairs. A large bonus room upstairs also contained four twin-sized beds and several attic-style storage cabinets. The two upstairs bedrooms were separated by a walkway that was open to the foyer below on one side and the living room below on the other. One of the bedrooms appeared to be Paul Murdaugh's bedroom, in which the bathroom contained monogrammed towels with his initials on them. There was a large gun room downstairs, in which there was a gun cabinet that contained several long guns and several shelves that contained boxes of ammunition.

SLED Crime Scene agents photographed and collected the following items from the gun room in the main residence:

- One (1) cartridge case headstamped "S&B .300 AAC BLK" collected from a "Sabal & Oak" bag (**Item 145**)
- Eight (8) unfired cartridges headstamped "S&B .300 AAC BLK" collected from a "Winchester" box on the bookshelf (**Items 147 – 154**)
- One (1) unfired cartridge headstamped "BARNES 300 BLK" collected from (**Item 158**)
- Two (2) unfired shotshells headstamped "WINCHESTER 12 GA" collected from an "Estate" box on the bookshelf (**Items 162 – 163**)
- One (1) unfired shotshell headstamped "WINCHESTER 12 GA" collected from "Kent" box on the bookshelf (**Item 164**)
- One (1) magazine containing unfired ammunition headstamped "S&B .300 AAC BLK" collected from the bookshelf (**Item 170**)

The following item was photographed and collected from a nightstand drawer in Paul's bedroom:

- One (1) unfired shotshell headstamped "WINCHESTER 12 GA" (**Item 165**)

Issuing Authority: Quality Manager

SLED Forensics Form # CSD 003, May 2014
L21-09074 m Page 9 of 10





SLED CRIME SCENE DEPARTMENT

CRIME SCENE NOTES

After documenting the residence, items that were located in the large workshop near the dog kennels were documented with photographs, including a red bin on a workshop bench that contained several unfired shotshells and boxes of "Sellier & Bellot 300 AAC BLACKOUT" ammunition. The following items were photographed and collected from the red bin by SLED Crime Scene agents:

- One (1) unfired cartridge headstamped "BARNES 300 BLK" (Item 159)
- Four (4) unfired shotshells headstamped "12 GA FEDERAL" (Items 166 – 169)

Crime Scene Review

Prior to clearing the scene, a final walkthrough was completed with S/A Owen. No additional processing was requested, and the scene was released to SLED Low Country agents. SLED Crime Scene agents and Sr. Criminalist Greer cleared the scene at approximately 6:00 PM and transported the evidence to the SLED Forensic Services Laboratory.

Additional Processing

On March 29, 2022, at the request of S/A Owen, S/A Worley documented the Item 100 shorts with additional photographs at the SLED Forensic Services Laboratory. Of particular interest was the back right, elasticized pocket, which was said to have been the pocket in which the victim would have kept his cell phone. After disinfecting two rulers, the following approximate measurements were taken of the pocket, which were documented in the photographs (Item 204):

- Length – 5 ½ inches (exterior of pocket)
- Width – 3 ¾ inches (exterior at base of pocket)
- Depth – 5 ¾ inches (interior of pocket to the top edge opposite of the side seam)

Issuing Authority: Quality Manager

SLED Forensics Form # CSD 003, May 2014
L21-09074 m Page 10 of 10





South Carolina Law Enforcement Division
 Forensic Services Laboratory
 CHAIN OF CUSTODY

Laboratory Case Number: L21-09074 Page 1 of 12 ^{13 July 29/22}
 Agency of Origin: SLED Lawcountry
 Agency Case Number: 31-21-0061

ITEM #	QTY	DESCRIPTION OF ITEMS
1	1	Two (2) buccal swabs from Paul Murdaugh
2	1	Two (2) buccal swabs from Margaret Murdaugh

Item #	Date	Relinquished By	Received By	Comments
	6/22/21 1709	Printed Name S/A Daina Jazic Signature <i>Daina Jazic</i>	Printed Name Todd Schenk Signature <i>Todd Schenk</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 2 of 13 ¹³ _{new 6/11/22}
 Agency of Origin: SLED Lowcountry
 Agency Case Number: 31-21-0061

ITEM #	QTY	DESCRIPTION OF ITEMS
1	1	one(1) "iPhone" cellphone with clear case

Item #	Date	Relinquished By	Received By	Comments
1	6/8/21	Printed Name: <u>KYAN NEILL</u> Signature: <u>[Signature]</u>	Printed Name: <u>S/A DARIJA JAZIC</u> Signature: <u>[Signature]</u>	
		Printed Name: <u>S/A DARIJA JAZIC</u> Signature: <u>[Signature]</u>	Printed Name: <u>TODD SCHENK</u> Signature: <u>[Signature]</u>	
		Printed Name: <u>[Signature]</u> Signature: <u>[Signature]</u>	Printed Name: <u>[Signature]</u> Signature: <u>[Signature]</u>	
		Printed Name: <u>[Signature]</u> Signature: <u>[Signature]</u>	Printed Name: <u>[Signature]</u> Signature: <u>[Signature]</u>	

Issuing Authority: Quality Manager

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SLED Forensics Form # FSA 049, January 2014





South Carolina Law Enforcement Division
 Forensic Services Laboratory
 CHAIN OF CUSTODY

Laboratory Case Number: L21-09074 Page 3 of 12 ml ^{13 July 2022}
 Agency of Origin: SLED Lawcountry
 Agency Case Number: 31-21-0061

ITEM #	QTY	DESCRIPTION OF ITEMS
		Digital photographs

Item #	Date	Relinquished By	Received By	Comments
	6/30/21	Printed Name S/A Dalila Jazic Signature <i>Dalila Jazic</i>	Printed Name Melinda H. Worley Signature <i>Melinda H. Worley</i>	
		Printed Name Signature	Printed Name Signature	
		Printed Name Signature	Printed Name Signature	
		Printed Name Signature	Printed Name Signature	

Issuing Authority: Quality Manager

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SLED Forensics Form # FSA 049, January 2014



RECEIPT FOR PROPERTY		SLED CASE NUMBER			
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					
Origin of Property					
Purpose for Which Obtained					
ITEM #	QTY	DESCRIPTION OF ITEMS			
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
		Name Signature	Name Signature		
1-9	6-9-2021	Name: <i>McCallister</i> Signature: <i>[Signature]</i>	Name: <i>Melinda A. Worley</i> Signature: <i>[Signature]</i>	Evidence Transfer CS	SLED Lowcountry Office
		Name Signature	Name Signature		
		Name Signature	Name Signature		

L21-09074 Page 4 of 12 ¹³ MW 2/16/22

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



10-17

RECEIPT FOR PROPERTY		SLED CASE NUMBER			
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					
Origin of Property					
Purpose for Which Obtained					
ITEM #	QTY	DESCRIPTION OF ITEMS			
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
		Name Signature	Name Signature		
19	6-9-21	Name: <i>M. Callista</i> Signature: <i>[Signature]</i>	Name: <i>Melinda A. Worley</i> Signature: <i>[Signature]</i>	Evidence transfer CS	SLED Lowcountry office
		Name Signature	Name Signature		
		Name Signature	Name Signature		

L21-09074 Page 5 of 12 ¹³ _{me 2/14/22} mw

Form # CF-004 (Rev 6-30-06)



RECEIPT FOR PROPERTY		SLED CASE NUMBER			
S.C. LAW ENFORCEMENT DIVISION		31-21-0061			
LOCATION OF FIRST TRANSFER		SLED Lowcountry Office			
Signature of Person from whom Property is Obtained <input type="checkbox"/> Owner <input type="checkbox"/> Other		Address (Include Zip Code) 104 Simmons Street, Walterboro SC			
Signature of Owner Voluntarily Submitting Items					
Origin of Property					
Purpose for Which Obtained Evidence					
ITEM #	QTY	DESCRIPTION OF ITEMS			
1	5	.300 Blackout shell casings recovered from side entrance door of 4147 Moselle Rd. Islandton, SC			
2	3	misc boxes (empty) for ammunition from trash			
3	1	shredded/torn financial statements from trash			
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
1-3	6-9-2021	Name: K McCallister Signature: [Signature]	Name: Melinda A. Worley Signature: [Signature]	Evidence Transfer to Crime Scene	SLED Lowcountry Office
		Name: _____ Signature: _____	Name: _____ Signature: _____		
		Name: _____ Signature: _____	Name: _____ Signature: _____		
		Name: _____ Signature: _____	Name: _____ Signature: _____		

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





South Carolina Law Enforcement Division
 Forensic Services Laboratory
 CHAIN OF CUSTODY

Laboratory Case Number: L21-09074 Page 7 of 12 ¹³ _{7/14/22} mw
 Agency of Origin: SLED
 Agency Case Number: 31210061

ITEM #	QTY	DESCRIPTION OF ITEMS
1	1	Set of buccal swabs taken from Roger Davis at 6/18/21 11:58 /---/
2	1	Set of buccal swabs taken from Anthony COOK 6/18/21 12:42 /---/
///		--- / Last Item /--- ///

Item #	Date	Relinquished By	Received By	Comments
1-2	6/18/21	Printed Name L. Wiggins	Printed Name Melinda Worley	
		Signature <i>[Signature]</i>	Signature <i>[Signature]</i>	
		Printed Name	Printed Name	
		Signature	Signature	
		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 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: <u>[Signature]</u>	Printed Name: <u>Melinda A. Worley</u> Signature: <u>[Signature]</u>	
		Printed Name: Signature:	Printed Name: Signature:	
		Printed Name: Signature:	Printed Name: Signature:	
		Printed Name: Signature:	Printed Name: Signature:	

Issuing Authority: Quality Manager

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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 Jelusa	Printed Name Melinda A. Worley	
		Signature <i>[Signature]</i>	Signature <i>[Signature]</i>	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	

Issuing Authority: Quality Manager

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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 _{04/16/22} 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

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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 BIX 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 TAKRUKOUT 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 BIX 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: <u>[Signature]</u> Signature: <u>[Signature]</u>	Name: <u>[Signature]</u> Signature: <u>[Signature]</u>		
		Name: <u>[Signature]</u> Signature: <u>[Signature]</u>	Name: <u>[Signature]</u> Signature: <u>[Signature]</u>		

L21-09074 Page 11 of 12 ^{13 mg} ₂₁₁₉₁₇₂ ^{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 LIST			
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

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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.

Printed: 06/08/2021 17:05

Page 1 of 2 *TMS*





**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

COMPLIMENTS OF LUNA SHARK

Printed: 06/08/2021 17:05

Page 2 of 2

Handwritten initials 'TAS' in black ink.





**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 type="checkbox"/> No
	Priority: <input type="checkbox"/> Yes <input 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

Page 1 of 4





**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

Printed: 06/09/2021 23:22

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**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
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

Printed: 06/09/2021 23:22

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**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

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





**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>NW</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

COMPLIMENTS OF LUNA SHARK

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 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. <u>L21-09074</u> <i>mw</i>
Submission: <u>9/6/17/2021 1:46:11PM</u>

Submitted and Maintained by :

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

Melinda A. Worley
SLED Crime Scene Investigation Unit

COMPLIMENTS OF LUNA SHARK

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	06/17/1952	
Richard Alexander Murdaugh	M	W	06/17/1952	
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

COMPLIMENTS OF LUNA SHARK

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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

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





**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	██████████	██████████
Richard Alexander Murdaugh	M	W	██████████	██████████
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

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: 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

COMPLIMENTS OF LUNA SHARK

Printed: 06/21/2021 10:29

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**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

COMPLIMENTS OF LUNA SHARK

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**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

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**SLED LABORATORY
 FORENSIC SERVICES REQUEST
 SUBMISSION RECEIPT**

SLED LAB No. L21-09074 TW
 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	





**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. <u>L21-09074</u> <i>mw</i>
Submission: <u>17 9/15/2021 12:49:51PM</u>

Submitted and Maintained by :

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

Melinda A. Worley
SLED Crime Scene Investigation Unit

COMPLIMENTS OF LUNA SHARK

Printed: 09/15/2021 12:50

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
 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	██████	██
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 *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

COMPLIMENTS OF LUNA SHARK

Printed: 02/16/2022 14:09

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	





**SLED LABORATORY
 FORENSIC SERVICES REQUEST
 SUBMISSION RECEIPT**

SLED LAB No. L21-09074 
 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		
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

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**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

COMPLIMENTS OF LUNA SHARK



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

COMPLIMENTS OF LUNA SHARK



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 *KM*
 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





**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

COMPLIMENTS OF LUNA SHARK

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	

Printed: 10/08/2021 11:40

Page 1 of 3





**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

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**SLED LABORATORY
FORENSIC SERVICES REQUEST
SUBMISSION RECEIPT**

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

Submitted and Maintained by :

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

Kristin N. Moore
SLED Crime Scene Investigation Unit

COMPLIMENTS OF LUNA SHARK

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

COMPLIMENTS OF LUNA SHARK



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.

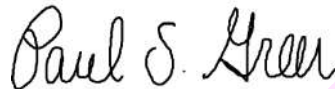
Items 3, 9, 10, and 33 were entered into the Integrated Ballistics Identification System (IBIS). These exhibits will automatically be correlated with exhibits from SC, GA, NC, and VA. Should any investigative leads be developed, your Agency will be notified. Please retain the evidence for a minimum of 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



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 Tomez, and Alhan H.M.T. Gonzales 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.*



- H_d = 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.

- 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 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.

- 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.

- 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.

- H_p = 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



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

