



MINNESOTA DEPARTMENT OF PUBLIC SAFETY

Bureau of Criminal Apprehension
Forensic Science Laboratory - St. Paul
1430 Maryland Avenue East
St. Paul, MN 55106

Laboratory Number
S15-08640

Agency Case Number
2015400

TEL: 651-793-2900
TTY: 651-242-6555
FAX: 651-793-2901

LABORATORY ANALYSIS REQUEST

BCA St. Paul
1430 Maryland Avenue East
St. Paul, MN 55106

COUNTY: Hennepin
TELEPHONE: 651-793-1100

Attn: SA Mike Phill

TYPE OF CASE:
Officer Involved Shooting/with a Death

Report Distribution: BCA St. Paul - 4

Table with 2 columns: Section Involved, Estimated Due Date. Rows include Crime Scene Team (8/23/2015), Firearms (11/21/2015), Nuclear DNA (11/21/2015).

CIRCUMSTANCES AND PURPOSE OF ANALYSIS:

PRINCIPALS:

Table with 6 columns: Name, Date Of Birth, Sex, Type, Race, Comments. Lists individuals like Passig, Michael, Wolfsteller, Derek Ray, Therkelsen, Amy, Haseman, Angela.

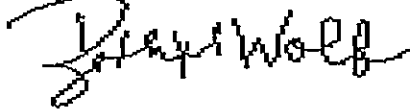
ITEM DESCRIPTION OF EVIDENCE:

Table with 4 columns: Item #, In Container, Packaging and Type, Source / Description. Lists 7 items of evidence including cardboard boxes, manila envelopes, and bullet fragments.

8	One manila envelope containing evidence classified as cartridge case(s)	from the vestibule floor with a Federal 45 Auto +P headstamp
9	One manila envelope containing evidence classified as cartridge case(s)	from the vestibule floor with a Federal 45 Auto +P headstamp
10	One manila envelope containing evidence classified as bullet fragment(s)	from the vestibule floor
11	One manila envelope containing evidence classified as bullet fragment(s)	from the vestibule floor
12	One manila envelope containing evidence classified as bullet fragment(s)	from the vestibule floor
13	One manila envelope containing evidence classified as a bloodstain	from the vestibule floor
14	One manila envelope containing evidence classified as a bloodstain	from the vestibule floor
15	One manila envelope containing evidence classified as bullet fragment(s)	from the vestibule floor
16	One cardboard box containing evidence classified as an item of evidence	a Taser with S/N X120025XT from the vestibule floor
17	One manila envelope containing evidence classified as bullet fragment(s)	from the vestibule floor
18	One manila envelope containing evidence classified as bullet fragment(s)	from the vestibule ceiling
23	One manila envelope containing evidence classified as an item of evidence	a napkin with apparent blood from the dining area
24	One manila envelope containing evidence classified as bullet fragment(s)	from the vestibule floor

Submitted By

Received By



07/24/2015 8:10:29

Crime Scene Collection

Beth Wolf

Submission Date and Time



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1430 Maryland Avenue East
St. Paul, MN 55106

COUNTY: Hennepin
TELEPHONE: 651-793-1100

Attn:

TYPE OF CASE:
Officer Involved Shooting/with a Death

Report Distribution: BCA St. Paul - 2

Table with 2 columns: Section Involved, Estimated Due Date. Rows include Alcohol, Crime Scene Team, Nuclear DNA, and Toxicology.

CIRCUMSTANCES AND PURPOSE OF ANALYSIS:

PRINCIPALS:

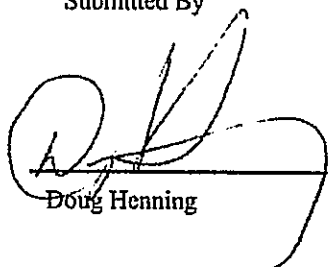
Table with 6 columns: Name, Date Of Birth, Sex, Type, Race, Comments. Lists Wolfsteller, Derek Ray and Therckelsen, Amy.

ITEM DESCRIPTION OF EVIDENCE:

Table with 4 columns: Item #, In Container, Packaging and Type, Source / Description. Lists items 19, 20, and 21.

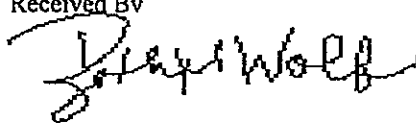
Submitted By

Received By



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Doug Henning



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Beth Wolf

07/24/2015 6:25:53

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Submission Date and Time



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Bureau of Criminal Apprehension
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1430 Maryland Avenue East
St. Paul, MN 55106

COUNTY: Hennepin
TELEPHONE: 651-793-1100

Attn: SA Mike Phill

TYPE OF CASE:
Officer Involved Shooting/with a Death

Report Distribution: BCA St. Paul - 4

Table with 2 columns: Section Involved, Estimated Due Date. Rows include Crime Scene Team (8/23/2015), Firearms (11/21/2015), Latent Prints (10/22/2015), Nuclear DNA (11/21/2015).

CIRCUMSTANCES AND PURPOSE OF ANALYSIS:

PRINCIPALS:

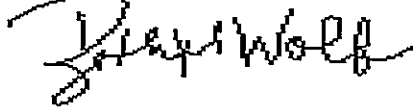
Table with 6 columns: Name, Date Of Birth, Sex, Type, Race, Comments. Lists individuals: Passig, Michael; Wolfsteller, Derek Ray; Therkelsen, Amy; Haseman, Angela.

ITEM DESCRIPTION OF EVIDENCE:

Table with 4 columns: Item #, In Container, Packaging and Type, Source / Description. Row 1: Item # 22, One cardboard box containing evidence classified as a firearm, Glock 21 .45 Auto with S/N GUD936, a magazine, and one round from chamber.

Submitted By

Received By



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Angela Haseman

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Beth Wolf

07/24/2015 6:42:02

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Submission Date and Time



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Attn: SA Mike Phill

TYPE OF CASE:  
Officer Involved Shooting/with a Death

Report Distribution: BCA St. Paul - 4

Section Involved	Estimated Due Date
Crime Scene Team	8/23/2015
Nuclear DNA	11/21/2015

CIRCUMSTANCES AND PURPOSE OF ANALYSIS:

PRINCIPALS:

Wolfsteller, Derek Ray  
Therkelsen, Amy  
Haseman, Angela

<u>Date Of Birth</u>	<u>Sex</u>	<u>Type</u>	<u>Race</u>	<u>Comments</u>
2/1/1984	M	S		
[REDACTED]	F	P		
[REDACTED]	F	P		

ITEM DESCRIPTION OF EVIDENCE:

<u>Item #</u>	<u>In Container</u>	<u>Packaging and Type</u>	<u>Source / Description</u>
25		One envelope containing evidence classified as a known DNA sample collection kit	Angela Haseman

Submitted By

Doug Henning

Received By

Beth Wolf

07/24/2015 8:28:37

Submission Date and Time



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Attn: SA Mike Phill

TYPE OF CASE:
Officer Involved Shooting/with a Death

Report Distribution: BCA St. Paul - 4

Table with 2 columns: Section Involved, Estimated Due Date. Rows include Crime Scene Team (8/24/2015), Firearms (11/22/2015), Nuclear DNA (11/22/2015), Trace (12/22/2015).

CIRCUMSTANCES AND PURPOSE OF ANALYSIS:

PRINCIPALS:

Table with 6 columns: Name, Date Of Birth, Sex, Type, Race, Comments. Lists Wolfsteller, Derek Ray; Therkelsen, Amy; Haseman, Angela.

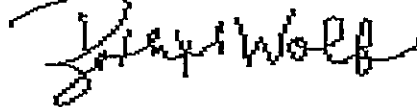
ITEM DESCRIPTION OF EVIDENCE:

Table with 4 columns: Item #, In Container, Packaging and Type, Source / Description. Lists items 27 through 33 with descriptions of evidence like blood samples, fingernail clippings, and bullet fragments.



Submitted By

Received By



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Stephanie Erickson

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Beth Wolf

07/25/2015 11:40:00

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Submission Date and Time



MINNESOTA DEPARTMENT OF PUBLIC SAFETY  
 Bureau of Criminal Apprehension  
 Forensic Science Laboratory - St. Paul  
 1430 Maryland Avenue East  
 St. Paul, MN 55106

Laboratory Number  
 S15-08640

Agency Case Number  
 2015400

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**LABORATORY ANALYSIS REQUEST**

BCA St. Paul  
 1430 Maryland Avenue East  
 St. Paul, MN 55106

Attn: SA Mike Phill

COUNTY: Hennepin  
 TELEPHONE: 651-793-1100  
 TYPE OF CASE:  
 Officer Involved Shooting/with a Death

Report Distribution: BCA St. Paul - 4

Section Involved Estimated Due Date  
 Nuclear DNA 11/27/2015

**CIRCUMSTANCES AND PURPOSE OF ANALYSIS:**

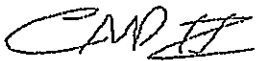
**PRINCIPALS:**

	<u>Date Of Birth</u>	<u>Sex</u>	<u>Type</u>	<u>Race</u>	<u>Comments</u>
Passig, Michael [REDACTED]	[REDACTED]	M	P		
Wolfsteller, Derek Ray	2/1/1984	M	S		
Therkelsen, Amy [REDACTED]	[REDACTED]	F	P		
Haseman, Angela	[REDACTED]	F	P		

**ITEM DESCRIPTION OF EVIDENCE:**

<u>Item #</u>	<u>In Container</u>	<u>Packaging and Type</u>	<u>Source / Description</u>
34		One envelope containing evidence classified as a known DNA sample collection kit	Michael [REDACTED] Passig
35		One envelope containing evidence classified as a known DNA sample collection kit	Amy [REDACTED] Therkelsen
36		One plastic bag containing evidence classified as an item of evidence	police duty belt from Amy [REDACTED] Therkelsen

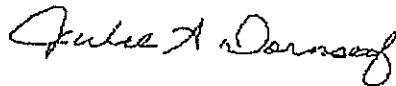
Submitted By



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SA Mike Phill

Received By



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Julie Dornseif

07/30/2015 15:20:00

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Submission Date and Time



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LABORATORY ANALYSIS REQUEST

BCA St. Paul
1430 Maryland Avenue East
St. Paul, MN 55106

COUNTY: Hennepin
TELEPHONE: 651-793-1100

Attn: SA Mike Phill

TYPE OF CASE:
Officer Involved Shooting/with a Death

Report Distribution: BCA St. Paul - 4

Section Involved Estimated Due Date
Firearms 12/3/2015

CIRCUMSTANCES AND PURPOSE OF ANALYSIS:

Proximity and Taser marks


PRINCIPALS:

Table with 6 columns: Name, Date Of Birth, Sex, Type, Race, Comments. Rows include Passig, Michael; Wolfsteller, Derek Ray; Therkelsen, Amy; Haseman, Angela.

ITEM DESCRIPTION OF EVIDENCE:

Table with 4 columns: Item #, In Container, Packaging and Type, Source / Description. Rows 37-40 describe evidence bags containing hats, shirts, and pants.

Submitted By



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SA Mike Phill

Received By



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Carolle David

08/05/2015 15:05:12

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Submission Date and Time



MINNESOTA DEPARTMENT OF PUBLIC SAFETY

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Forensic Science Laboratory - St. Paul
1430 Maryland Avenue East
St. Paul, MN 55106

TEL: (651) 793-2900 TTY: (651) 282-6555 FAX: (651) 793-2901

AN ASCLD/LAB-International ACCREDITED TESTING LABORATORY SINCE 2009

To: BCA St. Paul
1430 Maryland Avenue East
St. Paul, MN 55106

Lab No. S15-08640
Report No. 1

Attention: SA Mike Phill

REPORT ON THE EXAMINATION OF PHYSICAL EVIDENCE

Toxicology 07/31/2015

Laboratory Number: S15-08640
Section Reporting: Toxicology
Case Type: Officer Involved Shooting/with a Death
Principal: Amy [redacted] Therkelsen

Requesting Agency: BCA St. Paul
Agency Case Number: 2015400
County: Hennepin
Date of Birth: [redacted]

Description of Submitted Evidence:

Table with 5 columns: Item, Type and Packaging, Kit Number, Description/Source, Date/Time Collected. Row 1: 21, Sealed BCA DWI blood collection kit, B372006, Amy [redacted] Therkelsen, 07/24/2015 00:42

Results of Laboratory Examination:

Analysis failed to reveal the presence of ethyl alcohol.

Pursuant to Minn. Statute 634.15, I have analyzed at the Minnesota Bureau of Criminal Apprehension Forensic Science Laboratory, using an approved gas chromatographic procedure, this sealed sample of blood identified to me as having been obtained from the above individual. I hereby certify that I am trained in the analysis and interpretation of blood and urine tests for alcohol pursuant to Minn. Rule 7502.0600 and that the above is true and accurate.

Handwritten signature of Donna B. Zittel

Donna B. Zittel, D-ABFT-FT
Forensic Scientist

Disposition: Additional toxicology report(s) to follow.

Distribution:BCA St. Paul - 4



MINNESOTA DEPARTMENT OF PUBLIC SAFETY

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St. Paul, MN 55106

TEL: (651) 793-2900 TTY: (651) 282-6555 FAX: (651) 793-2901

AN ASCLD/LAB-International ACCREDITED TESTING LABORATORY SINCE 2009

To: BCA St. Paul
1430 Maryland Avenue East
St. Paul, MN 55106

Lab No. S15-08640
Report No. 2

Attention: SA Mike Phill

REPORT ON THE EXAMINATION OF PHYSICAL EVIDENCE

Toxicology 08/17/2015

Requesting Agency: BCA St. Paul
Case Type: Officer Involved Shooting/with a Death
Principal: Amy [redacted] Therkelsen

Agency Case Number: 2015400
County: Hennepin
Date of Birth: [redacted]
Section Reporting: Toxicology

Description of Submitted Evidence

Table with 5 columns: Item, Type and Packaging, Kit Number, Description, Date/Time Collected. Row 1: 21, Sealed BCA DWI blood collection kit, B372006, Amy [redacted] Therkelsen, 07/24/2015 00:42

Results of Laboratory Examination

The following are presumptive screening results obtained by immunoassay:

Type of Drug:

Table with 2 columns: Type of Drug, Result. Rows include cannabinoids, cocaine metabolite, opiates, amphetamines, phencyclidine (PCP), barbiturates, benzodiazepines, methadone, carisoprodol, zolpidem, all with result 'Not Detected'.

I hereby certify that the above report is true and accurate and represents my opinions and interpretations.

Handwritten signature of Donna B. Zittel

Donna B. Zittel, D-ABFT-FT
Forensic Scientist

**REPORT ON THE EXAMINATION OF PHYSICAL EVIDENCE**

*Toxicology* 08/17/2015

MINNESOTA DEPARTMENT OF PUBLIC SAFETY  
Bureau of Criminal Apprehension - Forensic Science Laboratory

**Lab No.** S15-08640  
**Report No.** 2

The associated expanded uncertainty is expressed to a 95.45% level of confidence.

For drug scheduling information, visit <https://dps.mn.gov/divisions/bca/bca-divisions/forensic-science/Pages/toxicology-alcohol.aspx>

**Disposition:** Lab will hold all evidence until exams are completed.

Distribution:BCA St. Paul - 4





MINNESOTA DEPARTMENT OF PUBLIC SAFETY

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Forensic Science Laboratory - St. Paul
1430 Maryland Avenue East
St. Paul, MN 55106

TEL: (651) 793-2900 TTY: (651) 282-6555 FAX: (651) 793-2901

AN ASCLD/LAB-International ACCREDITED TESTING LABORATORY SINCE 2009

To: BCA St. Paul
1430 Maryland Avenue East
St. Paul, MN 55106

Lab No. S15-08640
Report No. 3

Attention: SA Mike Phill

RESULTS OF FIELD EXAMINATIONS
Crime Scene Team 09/10/2015

Laboratory Number: S15-08640 Requesting Agency: BCA St. Paul
Section Reporting: Crime Scene Team Agency Case Number: 2015400
Case Type: Officer Involved Shooting/with a Death County: Hennepin

Principals: Derek Ray Wolfstetter; Amy Therkelsen

Description of Submitted Evidence:

Table with 3 columns: Item, Type and Packaging, Description/Source. Contains 16 rows of evidence details.

	item of evidence	floor
17	One manila envelope containing evidence classified as bullet fragment(s)	from the vestibule floor
18	One manila envelope containing evidence classified as bullet fragment(s)	from the vestibule ceiling
19	One manila envelope containing evidence classified as an item of evidence	swabs from the left thumb of Amy [REDACTED] Therkelsen
20	One brown paper bag containing evidence classified as clothing	uniform shirt and pants
21	Scaled BCA DWI blood collection kit	Amy [REDACTED] Therkelsen
22	One cardboard box containing evidence classified as a firearm	Glock 21 .45 Auto with S/N GUD936, a magazine, and one round from chamber
23	One manila envelope containing evidence classified as an item of evidence	a napkin with apparent blood from the dining area
24	One manila envelope containing evidence classified as bullet fragment(s)	from the vestibule floor
25	One envelope containing evidence classified as a known DNA sample collection kit	Angela Haseman
26	One manila envelope containing evidence classified as known major case prints	from Derek Ray Wolfsteller
27	One manila envelope containing evidence classified as a known blood sample	from Derek Ray Wolfsteller
28	One manila envelope containing evidence classified as fingernail clippings	left hand fingernail clippings from Derek Ray Wolfsteller
29	One manila envelope containing evidence classified as fingernail clippings	right hand fingernail clippings from Derek Ray Wolfsteller
30	One manila envelope containing evidence classified as known head hair(s)	from Derek Ray Wolfsteller
31	One manila envelope containing evidence classified as bullet fragment(s)	recovered from folds of clothing from Derek Ray Wolfsteller
32	One manila envelope containing evidence classified as bullet fragment(s)	recovered from Derek Ray Wolfsteller
33	One manila envelope containing evidence classified as questioned hair(s)	from left hand of Derek Ray Wolfsteller

**Results of the Crime Scene Examination:**

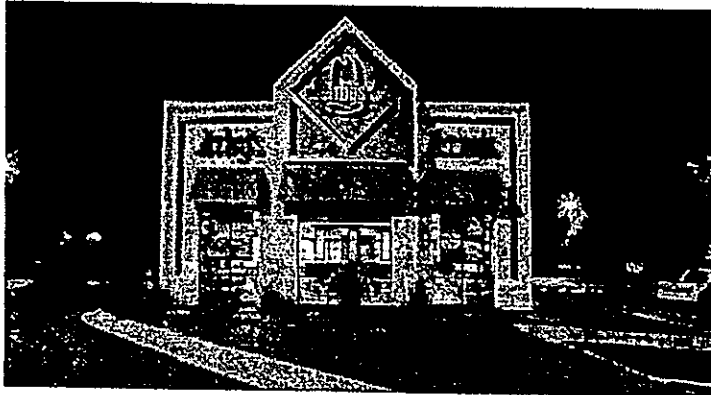
<b>Date of Request:</b> 07/23/15	<b>BCA Crime Scene Team:</b> Beth Wolf – Team Leader Katie Roche – Team Member  SA Mike Katzovitz – Photographer/Videographer
<b>Requested by:</b> SA Mike Phill	
<b>BCA Inv. Case #:</b> 2015-400	
<b>BCA Case Agent:</b> SA Mike Phill	
<b>Agency:</b> Plymouth Police Department	
<b>Agency Case #:</b> 15034642	
<b>Briefed by:</b> SA Mike Phill	
<b>Circumstances:</b> The BCA Crime Scene Team was requested to respond to a fatal officer involved shooting that occurred at an Arby's restaurant in Plymouth, MN on 07/23/15. The involved individuals were Derek Wolfsteller (deceased) and Officer Amy Therkelsen with the Plymouth Police Department.	

Unless otherwise noted, all references to *blood* in this report indicate that a positive presumptive test result was obtained.

Location: 10205 6 <sup>th</sup> Ave. N. Plymouth, MN 55441	Date/Time Processed: From 22:55 on 07/23/15 to 08:57 on 07/24/15
Items	Collected By
Items 3 - 15, 17, and 24	Beth Wolf
Items 1, 2, 18, and 23	Katie Roche
16	SA Doug Henning

**Observations/Conclusions:**

The scene was located in an Arby's restaurant in Plymouth, MN near the intersection of Revere Lane N. and Olson Memorial Highway (MN 55). There were two public entrances via small vestibules located on the east and west sides of the restaurant. Two squad cars were in the Arby's parking lot on the east side of the restaurant. One was Plymouth Police squad #1021 said to have been driven by Officer Amy Therkelsen. The other was an unmarked squad car (with only a Plymouth Police emblem located on the front passenger side) with MN license plate 971 AUV. This vehicle was said to have been driven by the second responding officer. The squad cars were photographically documented and placed. Witness vehicles were also present in the parking lot and were photographically documented prior to their removal from the scene.



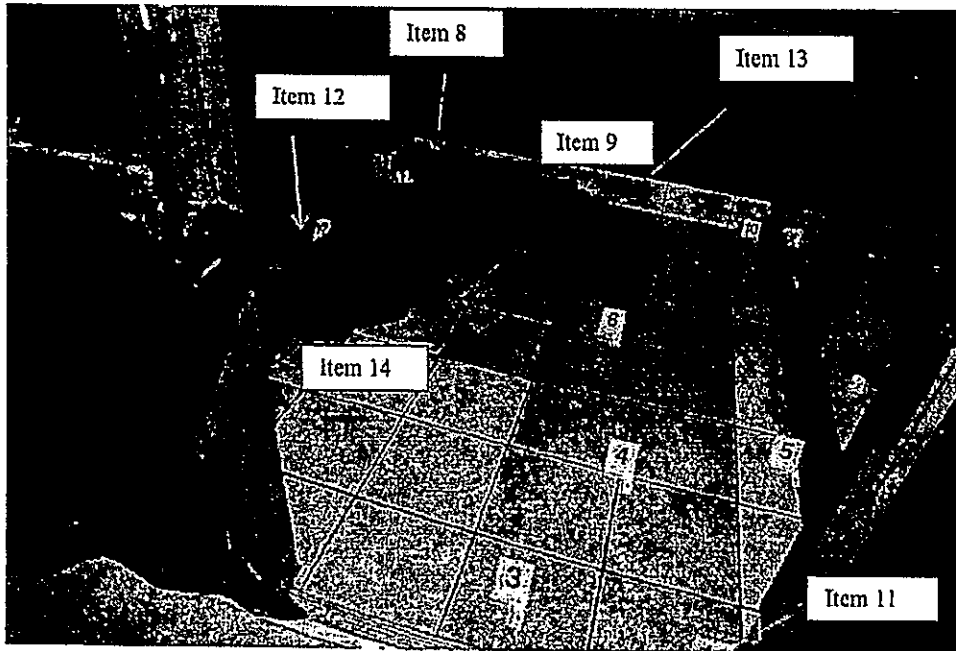
At the front of the restaurant between the ordering counter and the west vestibule door were Taser wires, two probes (one bent), several AFIDS, and other Taser components. These were all collected as Item 1. Also in this area was a small piece of white fabric that appeared to be torn. This piece of fabric was collected as Item 2.

The majority of the evidence collected was from the Arby's west vestibule. The deceased was located in the west vestibule and per investigative information was identified as Derek Ray Wolfsteller. Blood was collected from the floor of the west vestibule as Items 4 and 6. Two cartridge cases (Items 8 and 9) were observed and collected from the west vestibule floor. Item 8 was in the northwest corner of the vestibule and Item 9 was lying to the east of the deceased's head. Items 8 and 9 both had a "Federal 45 Auto +P" headstamp.

Several apparent bullet fragments were observed in the west vestibule and were collected.

- Items 3 and 11 (both located on the floor near the exterior door).
- Item 5 (located on the floor near the east wall of the vestibule).
- Items 7 and 12 (both located on the floor near the west wall of the vestibule).

- Item 10 (located on the floor in the northeast corner of the vestibule near the interior door).
- Item 15 (located on the floor under the deceased's legs – observed when staff from the Hennepin County Medical Examiner's office lifted his legs prior to removal of the body).
- Item 17 (observed on the vestibule floor once the body had been removed).
- Item 18 (located in the ceiling in the northwest corner of the vestibule).
- Item 24 (very small fragments from the vestibule floor and window trim).



Wolfsteller was laying on his stomach with his head turned to the right, his ankles crossed (right over left), and hands cuffed behind him. He was somewhat cool to the touch and was in rigor. He had on a pair of blue jeans with a belt, a white t-shirt with a white tank underneath it, black tennis shoes, and a black and white baseball cap which he was wearing backwards. Apparent blood was observed on his right arm and on both hands. There was blood on the vestibule floor surrounding Wolfsteller's head and down around the upper half of the right side of his body. Staff from the Hennepin County Medical Examiner's Office arrived at approximately 4:15 AM on 07/24/15. Wolfsteller's hands were bagged and his body was rolled. Apparent blood covered the left side of his face. The front of his shirt was soaked in apparent blood. Taser wires were wrapped around his legs and extended toward the right side of his upper body. The Taser itself became visible upon rolling the body as it shook out from Wolfsteller's t-shirt. The Taser's safety was in the off position. The Taser (bearing serial number X120025XT) was collected as Item 16. There appeared to be a hole in Wolfsteller's top, middle forehead and possibly three holes in the baseball hat. Staff from the Hennepin County Medical Examiner's Office removed the body from the scene at approximately 4:58 AM on 07/24/15.

Officer Amy Therkelsen's firearm was secured by law enforcement prior to the arrival of the Crime Scene Team. It was a Glock 21 .45 caliber pistol with serial number GUD936. The magazine had the capacity to hold 13 cartridges. 11 cartridges appeared to be in the magazine. The pistol, the magazine, and one round from the

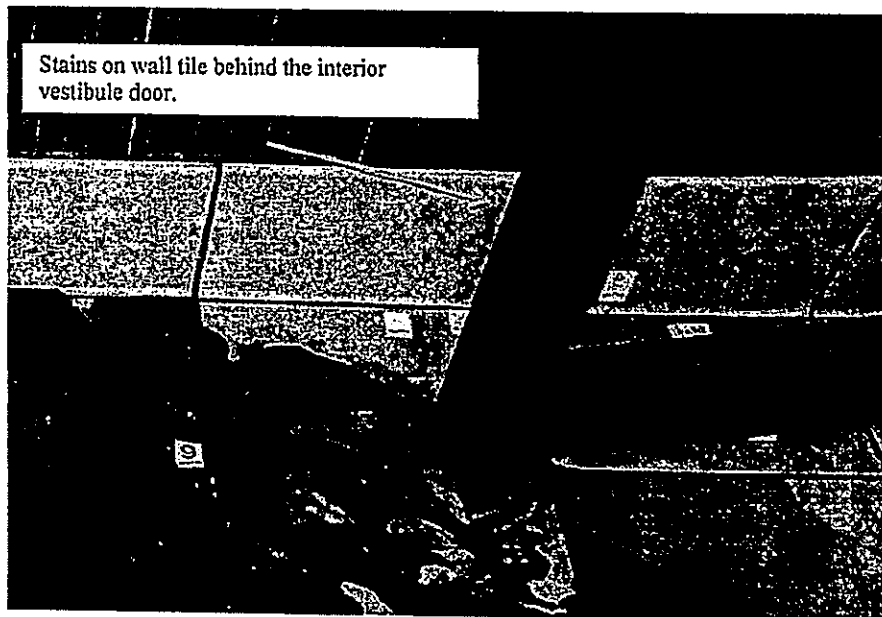
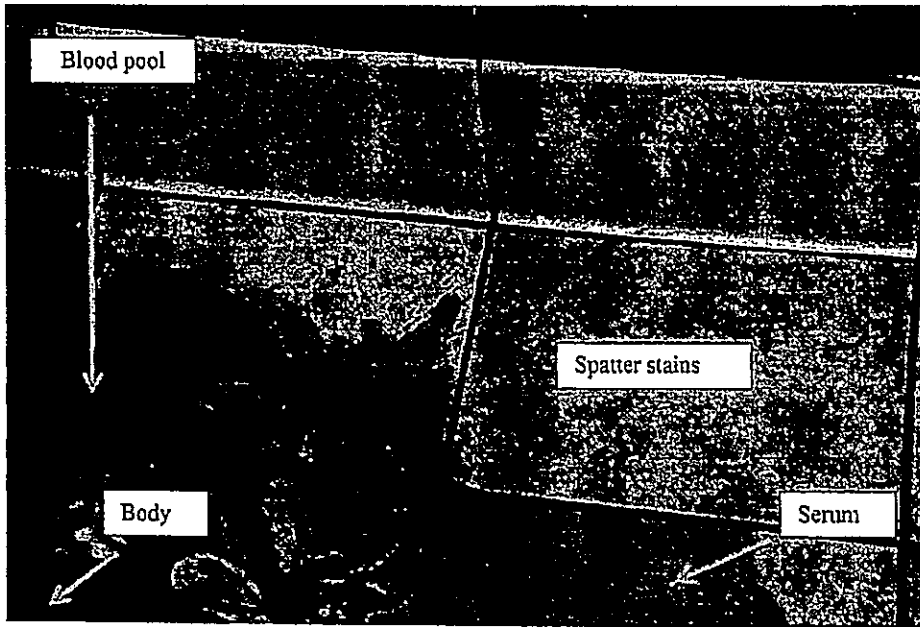
chamber (per law enforcement) with a "Federal 45 Auto +P" headstamp were handed over to the Crime Scene Team as **Item 22**.

A defect was observed in a grid in the ceiling. Examination and chemical testing of this grid weakly indicated the presence of lead. A ladder was utilized to closer examine the space above the ceiling tiles. There appeared to be no bullet holes in this area. Three defects (labeled A, B, and C) were observed somewhat low to the floor on the adjoining walls in the northwest corner of the vestibule. Defects A and C were on the north wall and Defect B was on the west wall. Examination and chemical testing of these three defects indicated the presence of lead. Defects A, B, and C were photographically documented and placed.

A napkin with apparent blood was collected from one of the dining room tables as **Item 23**. A cordless phone was also observed on this dining room table and was documented but not collected. Nothing further was collected from the scene.

**Bloodstain Pattern Analysis:**

Apparent blood appeared to be \*flowing down from Wolfsteller's right ear which was consistent with his body position (as the Crime Scene Team found him). A \*blood pool was located on the floor in the west vestibule. Swabs of blood were collected from this blood pool as **Item 14**. Some smaller, more circular stains (\*spatter stains) were observed on the wall tiles low to the floor. Elongated stains (spatter stains) were observed on the floor slightly northeast of Wolfsteller's head. The stains on the floor and on the wall are consistent with an \*impact pattern. The elongated spatter stains were radiating away from the blood pool. The observed spatter stains originated from an area generally east of Wolfsteller's face and from a height that was low to the floor. One of the elongated spatter stains from the floor was collected as **Item 13**. \*Serum separation along the perimeter of the blood pool and blood clots within the blood pool were also observed. Blood serum was covering or surrounding some of the spatter stains indicating that the spatter stains were deposited first. The circular spatter stains on the wall tiles could not have been deposited on the wall if the interior vestibule door was fully open. Furthermore, blood does not appear to be on the "restaurant side" of the interior vestibule door which would suggest that the door was either shut or only partially open when the spatter producing event took place.



**\*SWGSTAIN Bloodstain Pattern Analysis Recommended Terminology:**

**Blood clot**

A gelatinous mass formed by a complex mechanism involving red blood cells, fibrinogen, platelets, and other clotting factors.

**Flow Pattern**

A bloodstain pattern resulting from the movement of a volume of blood on a surface due to gravity or movement of the target.

**Impact Pattern**

A bloodstain pattern resulting from an object striking liquid blood.

**Pool**

A bloodstain resulting from an accumulation of liquid blood on a surface.

**Serum Stain**

The stain resulting from the liquid portion of blood (serum) that separates during coagulation.

**Spatter Stain**

A bloodstain resulting from a blood drop dispersed through the air due to an external force applied to a source of liquid blood.

<b>Additional Items Retrieved from the Medical Examiner's Office on 07/25/2015</b>	
<b>Items</b>	
26	Collected by Beth Wolf and Katie Roche
Items 27 - 33	Received by Beth Wolf

<b>Additional Items Submitted to the Crime Scene Team on 07/24/2015</b>	
<b>Items</b>	<b>Submitted By</b>
Items 19 - 21 and Item 25	SA Doug Henning
22	Sgt. Angela Haseman

**This scene was photographed, diagrammed, and videoed. The Crime Scene Team Leader, listed as the author of this field report, will act as the point of contact for all laboratory matters regarding this crime scene response.**

The following items will be submitted to the Laboratory Sections listed below for possible analysis:

Nuclear DNA Section: Items 4, 13, 19, 20, 22, 25, 27, 28, and 29

Latent Print Section: Items 22 and 26

Firearms Section: Items 3, 5, 7-12, 15, 17, 18, 22, 24, 31, and 32

Toxicology Section: Item 21

Trace Section: Items 1, 2, 30 and 33

Not Analyzed at this time: Items 6, 14, 16, and 23

I hereby certify that the above report is true and accurate and represents my opinions and interpretations.



Beth Wolf  
Forensic Scientist

**Disposition of Evidence:**  
Evidence will be held in the lab pending analysis.

**Distribution:** BCA St. Paul - 4





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AN ASCLD/LAB-International ACCREDITED TESTING LABORATORY SINCE 2009

To: BCA St. Paul
1430 Maryland Avenue East
St. Paul, MN 55106

Lab No. S15-08640
Report No. 4

Attention: SA Mike Phill

REPORT ON THE EXAMINATION OF PHYSICAL EVIDENCE

Nuclear DNA 09/29/2015

Laboratory Number: S15-08640 Requesting Agency: BCA St. Paul
Section Reporting: Nuclear DNA Agency Case Number: 2015400
Case Type: Officer Involved Shooting/with a Death County: Hennepin

Principals: Derek Ray Wolfsteller; Amy [redacted] Therkelsen

Description of Submitted Evidence:

Table with 3 columns: Item, Type and Packaging, Description/Source. Contains 22 items of evidence including bullet fragments, bloodstains, clothing, and firearms.

25	cartridge(s) One envelope containing evidence classified as a known DNA sample collection kit	Angela Haseman
27	One manila envelope containing evidence classified as a known blood sample	from Derek Ray Wolfsteller
28	One manila envelope containing evidence classified as fingernail clippings	left hand fingernail clippings from Derek Ray Wolfsteller
28A	One manila envelope containing evidence classified as fingernail clippings	left hand fingernail clipping from Derek Ray Wolfsteller
28B	One manila envelope containing evidence classified as fingernail clippings	left hand fingernail clipping from Derek Ray Wolfsteller
28C	One manila envelope containing evidence classified as fingernail clippings	left hand fingernail clipping from Derek Ray Wolfsteller
28D	One manila envelope containing evidence classified as fingernail clippings	left hand fingernail clipping from Derek Ray Wolfsteller
28E	One manila envelope containing evidence classified as fingernail clippings	left hand fingernail clipping from Derek Ray Wolfsteller
29	One manila envelope containing evidence classified as fingernail clippings	right hand fingernail clippings from Derek Ray Wolfsteller
29A	One manila envelope containing evidence classified as fingernail clippings	right hand fingernail clipping from Derek Ray Wolfsteller
29B	One manila envelope containing evidence classified as fingernail clippings	right hand fingernail clipping from Derek Ray Wolfsteller
29C	One manila envelope containing evidence classified as fingernail clippings	right hand fingernail clipping from Derek Ray Wolfsteller
29D	One manila envelope containing evidence classified as fingernail clippings	right hand fingernail clipping from Derek Ray Wolfsteller
29E	One manila envelope containing evidence classified as fingernail clippings	right hand fingernail clipping from Derek Ray Wolfsteller
29F	One manila envelope containing evidence classified as fingernail clippings	right hand fingernail clipping from Derek Ray Wolfsteller
34	One envelope containing evidence classified as a known DNA sample collection kit	Michael [REDACTED] Passig
35	One envelope containing evidence classified as a known DNA sample collection kit	Amy [REDACTED] Therkelsen
36	One plastic bag containing evidence classified as an item of evidence	police duty belt from Amy [REDACTED] Therkelsen

### Results of Laboratory Examination:

Items 4, 6, 13, and 14 were collected.

A sample was collected from Items 28A through 28E and from 29A through 29F as Items 28A-1 through 28E-1 and 29A-1 through 29F-1, respectively. Items 28A through 28E and 29A through 29F were also collected.

Five samples were collected from Item 22A as Items 22A-1 through 22A-5. One sample was collected from Item 22B as Item 22B-1. One sample was collected from Items 3, 5, 11, and 18 as Items 3-1, 5-1, 11-1, and 18-1 respectively.

Presumptive testing indicated the presence of blood on Item 19 and on one area of Item 20A. Item 19 was collected and a sample from Item 20A was collected as Item 20A-1.

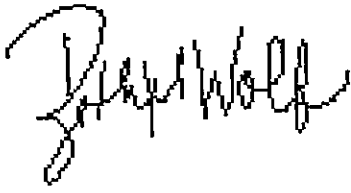
Presumptive testing indicated the presence of blood on one area of Item 20B which was collected as Item 20B-6 and on eight areas of Item 36 which were collected as Items 36-2, 36-5, 36-7, 36-8, 36-10, 36-11, 36-12, and 36-13. Five additional areas of Item 20B were collected as Items 20B-1 through 20B-5. Five additional areas of Item 36 were collected as Items 36-1, 36-3, 36-4, 36-6, and 36-9.

DNA analysis will be performed on selected items. If you have not received a report within two months of the date on this report, or if DNA analysis is not needed, please contact the Biology Section of the BCA Laboratory.

Blood was not detected on Item 20C, however, a sample was still collected from Item 20C as Item 20C-1.

Item 22C was not examined.

I hereby certify that the above report is true and accurate and represents my opinions and interpretations.



---

Beth Wolf  
Forensic Scientist

**Disposition of Evidence:**

Evidence will be held in the lab pending analysis.

Portions of pertinent evidence items have been removed and are being stored at the BCA laboratory.

The contents of Items 4, 6, 13, 14, 19, 25, 27, 28, 29, 34, and 35 have been retained in their entirety.

**Distribution:** BCA St. Paul - 4



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To: BCA St. Paul
1430 Maryland Avenue East
St. Paul, MN 55106

Lab No. S15-08640
Report No. 5

Attention: SA Mike Phill

REPORT ON THE EXAMINATION OF PHYSICAL EVIDENCE

Latent Prints 10/14/2015

Laboratory Number: S15-08640 Requesting Agency: BCA St. Paul
Section Reporting: Latent Prints Agency Case Number: 2015400
Case Type: Officer Involved Shooting/with a Death County: Hennepin

Principals: Michael [redacted] Passig; Derek Ray Wolfsteller; Amy [redacted] Therkelsen; Angela Haseman

Description of Submitted Evidence:

Table with 3 columns: Item, Type and Packaging, Description/Source. Rows include items 22, 22A, 22B, 26, and 36.

Results of Laboratory Examination:

Analysis of the evidence submitted as Items 22 (22A and 22B) and 36 failed to reveal any latent prints which are suitable for comparison.

I hereby certify that the above report is true and accurate and represents my opinions and interpretations.



---

Dennis P. Randall  
Forensic Scientist

**Disposition of Evidence:**

Lab will hold all evidence until exams completed.

**Distribution:** BCA St. Paul - 4



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To: BCA St. Paul
1430 Maryland Avenue East
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Lab No. S15-08640
Report No. 6

Attention: SA Mike Phill

REPORT ON THE EXAMINATION OF PHYSICAL EVIDENCE

Firearms 11/20/2015

Laboratory Number: S15-08640 Requesting Agency: BCA St. Paul
Section Reporting: Firearms Agency Case Number: 2015400
Case Type: Officer Involved Shooting/with a Death County: Hennepin

Principals: Michael Passig; Derek Ray Wolfsteller; Amy Therkelsen; Angela Haseman

Description of Submitted Evidence:

Table with 3 columns: Item, Type and Packaging, Description/Source. Contains 15 rows of evidence details including bullet fragments, cartridge cases, and a firearm.

**Results of Laboratory Examination:**

Item 22 (a Glock Model 21 45 Auto caliber pistol bearing serial number GUD936) fired Items 8 and 9 (two 45 Auto+P caliber cartridge cases), Items 3, 5, 7, 10, 15, and 31 (six bullet fragments) and the bullet from Item 32 (a bullet and an apparent piece of lead).

Items 11, 12, 17, 18 and 24 (eight apparent pieces of lead) and the apparent piece of lead from Item 32 are unsuitable for comparative examinations.

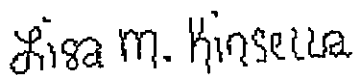
The areas around three holes (labeled A, B and C) in the back of Item 37 (a baseball hat) were visually examined and chemically processed for the presence of gunshot residues. Using Item 22, similar laboratory stock cartridges and four cartridges submitted with Item 22, the following results were obtained:

Hole A - The pattern of close range gunshot residues was reproduced at a distance between four and twelve inches.

Hole B - The presence of close range gunshot residues was indicated. However, without a discernible pattern of residues, a range of muzzle-to-target distance cannot be determined. Excluding the potential for a possible intervening object, a muzzle-to-target distance of greater than four inches is indicated.

Hole C - The presence of residues was indicated. However, without a discernible pattern of close range gunshot residues, a muzzle-to-target distance cannot be determined.

I hereby certify that the above report is true and accurate and represents my opinions and interpretations.



---

Lisa Kinsella  
Forensic Scientist

**Disposition of Evidence:**

Lab will hold all evidence until exams completed.

**Distribution:** BCA St. Paul - 4



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Lab No. S15-08640
Report No. 7

Attention: SA Mike Phill

REPORT ON THE EXAMINATION OF PHYSICAL EVIDENCE

Nuclear DNA 12/01/2015

Laboratory Number: S15-08640 Requesting Agency: BCA St. Paul
Section Reporting: Nuclear DNA Agency Case Number: 2015400
Case Type: Officer Involved Shooting/with a Death County: Hennepin

Principals: Michael Passig; Derek Ray Wolfsteller; Amy Therkelsen; Angela Haseman

Description of Submitted Evidence:

Table with 3 columns: Item, Type and Packaging, Description/Source. Contains 22 rows of evidence items including envelopes, clothing, and firearms.



22A-2	swabbing from Item One cardboard box containing evidence classified as a swabbing from Item	slide
22A-5	One cardboard box containing evidence classified as a swabbing from Item	from the end of the muzzle
25	One envelope containing evidence classified as a known DNA sample collection kit	Angela Haseman
27	One manila envelope containing evidence classified as a known blood sample	from Derek Ray Wolfsteller
34	One envelope containing evidence classified as a known DNA sample collection kit	Michael [REDACTED] Passig
35	One envelope containing evidence classified as a known DNA sample collection kit	Amy [REDACTED] Therkelsen
36	One plastic bag containing evidence classified as an item of evidence	police duty belt from Amy [REDACTED] Therkelsen
36-1	One manila envelope containing evidence classified as a swabbing from Item	from the gun holster
36-4	One manila envelope containing evidence classified as a swabbing from Item	from the flashlight and flashlight holder
36-9	One manila envelope containing evidence classified as a swabbing from Item	from textured area of Taser holster and backside of gun holster

**Results of Laboratory Examination:**

DNA profiling\* was performed on Items 3-1, 20B-1, 20B-2, 20B-3, 20C-1, 22A-1, 22A-2, 25, 27, 34, 35, 36-1, 36-4, and 36-9, and on blood previously indicated on Items 4, 13, 19, and 20A-1.

The DNA results are as follows:

<p><b>Items 3-1, 4, 13, 19, and 20A-1</b></p> <ul style="list-style-type: none"> <li>• Single source male DNA profile</li> <li>• Matches Derek Ray Wolfsteller</li> <li>• Does not match Angela Haseman, Michael [REDACTED] Passig, or Amy [REDACTED] Therkelsen</li> <li>• Would not be expected to occur more than once among unrelated individuals in the world population</li> </ul>
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<p><b>Item 20B-1</b></p> <ul style="list-style-type: none"> <li>• Mixture of four or more individuals</li> <li>• Major DNA profile, indicated as female, matches Amy [REDACTED] Therkelsen and does not match Angela Haseman, Derek Ray Wolfsteller, or Michael [REDACTED] Passig</li> <li>• Major DNA profile would not be expected to occur more than once among unrelated individuals in the world population</li> <li>• Angela Haseman, Derek Ray Wolfsteller, and Michael [REDACTED] Passig are excluded from being contributors to the minor types</li> </ul>
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**Item 20B-2**

- Mixture of four or more individuals
- Amy ██████████ Therkelsen and Derek Ray Wolfsteller cannot be excluded as possible contributors
- Angela Haseman and Michael ██████████ Passig are excluded from being contributors
- Three of the 12 loci suitable for comparison meet the BCA criteria for conducting statistical calculations; it is estimated that 71.6% of the general population can be excluded from being contributors

**Item 20B-3**

- Mixture of three or more individuals
- Major DNA profile, indicated as female, matches Amy ██████████ Therkelsen and does not match Angela Haseman, Derek Ray Wolfsteller, or Michael ██████████ Passig
- The probability of selecting an unrelated individual at random from the general population having a DNA profile that would match this major profile is approximately 1 in 36.7 million
- Due to insufficient genetic information, no statement can be made regarding the minor types

**Item 20C-1**

- Mixture of three or more individuals
- Amy ██████████ Therkelsen and Derek Ray Wolfsteller cannot be excluded as possible contributors
- Angela Haseman and Michael ██████████ Passig are excluded from being contributors
- It is estimated that 99.995% of the general population can be excluded from being contributors

**Items 22A-1 and 22A-2**

- Due to insufficient genetic information, no statement can be made regarding the DNA types obtained from these items

**Item 36-1**

- Mixture of three or more individuals
- Amy ██████████ Therkelsen and Derek Ray Wolfsteller cannot be excluded as possible contributors
- Angela Haseman and Michael ██████████ Passig are excluded from being contributors
- It is estimated that 99.7% of the general population can be excluded from being contributors

**Item 36-4**

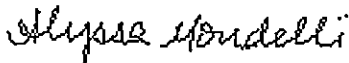
- Mixture of three or more individuals
- Major DNA profile, indicated as female, matches Amy ██████████ Therkelsen and does not match Angela Haseman, Derek Ray Wolfsteller, or Michael ██████████ Passig
- Major DNA profile would not be expected to occur more than once among unrelated individuals in the world population
- Due to insufficient genetic information, no statement can be made regarding the minor types

**Item 36-9**

- Mixture of two or more individuals
- Major DNA profile, indicated as female, matches Amy ██████████ Therkelsen and does not match Angela Haseman, Derek Ray Wolfsteller, or Michael ██████████ Passig
- Major DNA profile would not be expected to occur more than once among unrelated individuals in the world population
- Due to insufficient genetic information, no statement can be made regarding the minor types

Insufficient DNA was obtained from Item 22A-5 to perform DNA profiling.

I hereby certify that the above report is true and accurate and represents my opinions and interpretations.



Alyssa Mondelli  
Forensic Scientist, F-ABC

\*DNA loci tested using PCR-STR includes some or all of the following: D8S1179, D21S11, D7S820, CSF1PO, D3S1358, TH01, D13S317, D16S539, D2S1338, D19S433, vWA, TPOX, D18S51, D5S818, FGA, and Amelogenin.

**Disposition of Evidence:**

Lab will hold all evidence until exams completed.

**Distribution:** BCA St. Paul - 4



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St. Paul, MN 55106

Lab No. S15-08640
Report No. 8

Attention: SA Mike Phill

REPORT ON THE EXAMINATION OF PHYSICAL EVIDENCE

Trace 12/07/2015

Laboratory Number: S15-08640 Requesting Agency: BCA St. Paul
Section Reporting: Trace Agency Case Number: 2015400
Case Type: Officer Involved Shooting/with a Death County: Hennepin

Principals: Derek Ray Wolfsteller; Amy [redacted] Therkelsen; Angela Haseman

Description of Submitted Evidence:

Table with 3 columns: Item, Type and Packaging, Description/Source. Contains 12 rows of evidence items.

Results of Laboratory Examination:

The Item 1 taser probes were searched under a stereomicroscope and three fibers were found on the probes. One probe contained one blue cotton fiber (Item 1A1) and the other probe contained one white cotton fiber and one blue cotton fiber (Item 1B1). Additional fiber comparisons can be completed upon request. It should be noted that white and blue cotton fibers are ubiquitous in the environment and therefore may have little forensic significance. Item 1C was not analyzed.

**FABRIC DAMAGE ANALYSIS:**

Item 2 (piece of white fabric), Item 38 (tank top), Item 39 (t-shirt) and Item 40 (jeans) were analyzed via stereomicroscope for fabric damage that may have been caused by a taser probe.

Test simulations of a taser found that a taser probe causes a puncture type damage. When the taser probe is removed, the puncture can enlarge and show additional signs of tearing.

Item 2 contained eleven holes that were analyzed.



Three holes showed characteristics of being torn, however, due to the lack of characteristics it was inconclusive if these three holes could have been made by a taser probe. Seven holes were consistent with puncture-like damage. It was determined that one of these holes could have been made by a taser probe. The other six holes were too close in proximity to each other to determine if these could have been caused by a taser probe or not. One hole lacked characteristics to determine the type of fabric damage or the possible source. See below for summarized chart:

	<b><u>Fabric damage determined:</u></b>	<b><u>Possible source of damage:</u></b>
<b>Item 2 Hole A</b>	Consistent with a tear	Inconclusive
<b>Item 2 Hole B1</b>	Consistent with a puncture	Inconclusive
<b>Item 2 Hole B2</b>	Consistent with a puncture	Inconclusive
<b>Item 2 Hole B3</b>	Consistent with a puncture	Inconclusive
<b>Item 2 Hole C</b>	Consistent with a puncture	Taser probe could be the source
<b>Item 2 Hole D</b>	Inconclusive	Inconclusive
<b>Item 2 Hole E1</b>	Consistent with a puncture	Inconclusive
<b>Item 2 Hole E2</b>	Consistent with a puncture	Inconclusive
<b>Item 2 Hole E3</b>	Consistent with a puncture	Inconclusive
<b>Item 2 Hole F</b>	Consistent with a tear	Inconclusive
<b>Item 2 Hole G</b>	Consistent with a tear	Inconclusive

Item 38 contained two holes that were analyzed.



One hole lacked characteristics to determine the type of fabric damage or the possible source. One hole was consistent with puncture-like damage. It was determined that this hole could have been made by a taser probe. See below for summarized chart:

	<u>Fabric damage determined:</u>	<u>Possible source of damage:</u>
<b>Item 38 Hole A1</b>	Inconclusive	Inconclusive
<b>Item 38 Hole A2</b>	Consistent with a puncture	Taser probe could be the source

Item 39 contained twelve holes that were analyzed.



Two holes were consistent with being torn. One of these holes was very large and was missing fabric. This hole could not have been caused by the taser probe. The other hole that was consistent with being torn lacked additional characteristics to determine if it could have been caused by a taser probe. Three holes lacked characteristics to determine the type of fabric damage or the possible source. Seven holes were consistent with puncture-like damage. Five of these holes could have been caused by a taser probe. Two holes were too close in proximity to other holes to determine if they could have been caused by a taser probe or not. See below for summarized chart:

	<u>Fabric damage determined:</u>	<u>Possible source of damage:</u>
<b>Item 39 Hole A</b>	Consistent with a tear	Taser probe could <u>not</u> be the source
<b>Item 39 Hole B</b>	Inconclusive	Inconclusive
<b>Item 39 Hole C</b>	Consistent with a tear	Inconclusive
<b>Item 39 Hole D</b>	Consistent with a puncture	Taser probe could be the source
<b>Item 39 Hole E1</b>	Consistent with a puncture	Taser probe could be the source
<b>Item 39 Hole E2</b>	Consistent with a puncture	Taser probe could be the source
<b>Item 39 Hole E3</b>	Consistent with a puncture	Taser probe could be the source
<b>Item 39 Hole E4</b>	Consistent with a puncture	Inconclusive
<b>Item 39 Hole E5</b>	Consistent with a puncture	Inconclusive
<b>Item 39 Hole F</b>	Consistent with a puncture	Taser probe could be the source
<b>Item 39 Hole G</b>	Inconclusive	Inconclusive
<b>Item 39 Hole H</b>	Inconclusive	Inconclusive

Item 40 did not contain any other fabric damage other than holes that were consistent with being from wear.

Limitations for some of the above examinations include: some holes are very small and do not have many characteristics, some of the fabric was stained and matted which may mask characteristics that are used to determine if a textile is cut or torn, and there are other implements that also could have caused the fabric damage determined above.

### **PHYSICAL MATCH ANALYSIS:**

A physical match was attempted between the Item 2 piece of fabric and the large hole in Item 39 (“Hole A”). No physical match was made due to the distortion of the shape of the hole from the condition of the t-shirt (stretching and staining). However, the fabrics of Item 2 and Item 39 were compared. The fabric in Item 2 is similar in construction (knit), fiber type (white cotton) and fluorescence to the Item 39 t-shirt. In addition, the approximate shape and fabric damage (consistent with being torn) are similar between the two items. Therefore, Item 39 could be the source of the Item 2 piece of fabric (**Type 3 Association**).

**Interpretation:**

The following descriptions are meant to provide context to the opinions reached in this report. Every type of conclusion may not be applicable in every case or for every material type.

**Type 1 Association: Identification**

An association in which items share individual characteristics and/or physically fit together that demonstrate the items were once from the same source.

**Type 2 Association: Highly likely**

An association in which items correspond in all measured physical properties, chemical composition and/or microscopic characteristics and share distinctive characteristic(s) that would not be expected to be found in the population of this evidence type. The distinctive characteristics were not sufficient for a Type 1 Association.

**Type 3 Association: Could have**

An association in which items correspond in all measured physical properties, chemical composition and/or microscopic characteristics and could have originated from the same source. Because it is possible for another sample to be indistinguishable from the submitted evidence, an individual source cannot be determined.

**Type 4 Association: Cannot eliminate**

An association in which items correspond in some but possibly not all measured physical properties, chemical composition and/or microscopic characteristics and cannot be eliminated as coming from the same source. This type of evidence may be commonly encountered in the environment, may have limited comparative value and/or there may be factor(s) limiting the comparison.

**Inconclusive:** No conclusion could be reached regarding an association between the items.

**Elimination:** Items exhibit dissimilarities in one or more of the following: physical properties, chemical composition or microscopic characteristics and, therefore, conclusively did not originate from the same source.

**Non-Association:** Items exhibit dissimilarities but certain details or features are not sufficient for an Elimination.

I hereby certify that the above report is true and accurate and represents my opinions and interpretations.



Susan T. Gross  
Forensic Science Supervisor

**Disposition of Evidence:**

Evidence will be held in the lab pending analysis.

**Distribution:** BCA St. Paul - 4





MINNESOTA DEPARTMENT OF PUBLIC SAFETY

Bureau of Criminal Apprehension  
Forensic Science Laboratory – St. Paul  
1430 Maryland Avenue East  
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To: BCA St. Paul  
1430 Maryland Avenue East  
St. Paul, MN 55106

Lab No. S15-08640  
Report No. 9

Attention: SA Mike Phill

REPORT ON THE EXAMINATION OF PHYSICAL EVIDENCE

Trace 12/15/2015

Laboratory Number: S15-08640 Requesting Agency: BCA St. Paul  
Section Reporting: Trace Agency Case Number: 2015400  
Case Type: Officer Involved Shooting/with a Death County: Hennepin

Principals: Michael [redacted] Passig; Derek Ray Wolfsteller; Amy [redacted] Therkelsen; Angela Haseman

Description of Submitted Evidence:

<u>Item</u>	<u>Type and Packaging</u>	<u>Description/Source</u>
30	One manila envelope containing evidence classified as known head hair(s)	from Derek Ray Wolfsteller
33	One manila envelope containing evidence classified as questioned hair(s)	from left hand of Derek Ray Wolfsteller

Results of Laboratory Examination:

As per communication between Steven Swenson and Susan Gross of the Minnesota Bureau of Criminal Apprehension on December 15, 2015, no hair exams will be performed on Items 30 and 33 at this time. Evidence can be resubmitted for analysis at another date if deemed necessary.

I hereby certify that the above report is true and accurate and represents my opinions and interpretations.

Amy Uren  
Forensic Scientist

Disposition of Evidence:

Evidence will be returned by delivery service.

Distribution: BCA St. Paul - 4