



IDAHO STATE POLICE FORENSIC SERVICES

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FORENSIC DNA REPORT

Case Agency(s) : MOSCOW POLICE DEPARTMENT	Agency Case No(s).: 22-M09903	Laboratory Case No.: M2022-4843 XREF: M2022-4870
Date(s) of Offense: 11/13/2022	Investigating Officer(s): Dustin Blaker	Report No.: 7
Date Evidence Accepted: 11/18/2022	Analyst: Jade Miller	
<u>Case Name(s):</u> Suspect - JACK S DUCOEUR Subject - BETHANY G FUNKE Subject - DYLAN M MORTENSEN Subject - JOSE A CRUZ Victim - MADISON M MOGEN Victim - XANA A KERNODLE Victim - ETHAN J CHAPIN Victim - KAYLEE J GONCALVES		

EVIDENCE DESCRIPTION:

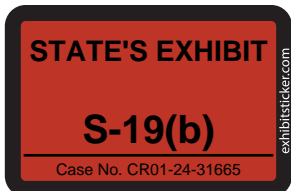
- Item 3: Submitted swab from F2 bedroom floor
- Item 4: Submitted swab and debris from F3 bedroom floor
- Item 6.1: Swab of right fingernail clippings from Ethan Chapin
- Item 7.1: Swab of left fingernail clippings from Ethan Chapin
- Item 9.1: Swab of right fingernail clippings from Xana Kernodle
- Item 10.1: Swab of left fingernail clippings from Xana Kernodle
- Item 12.1: Swab of right fingernail clippings from Madison Mogen
- Item 13.1: Swab of left fingernail clippings from Madison Mogen
- Item 15.1: Swab of right fingernail clippings from Kaylee Goncalves
- Item 16.1: Swab of left fingernail clippings from Kaylee Goncalves
- Item 20: DNA extracts from Items 3, 4, 5, 6.1, 7.1, 8, 9.1, 10.1, 11, 12.1, 13.1, 14, 15.1, 16.1, 17, 18, and 19

CONCLUSIONS AND INTERPRETATIONS:

Deoxyribonucleic Acid (DNA) Analysis, employing the Polymerase Chain Reaction (PCR), was used to generate a Short Tandem Repeat (STR) profile from Items 6.1, 7.1, 13.1, 15.1, 16.1, and a portion of Items 3, 9.1, 10.1, and 12.1.¹

FOOTNOTES

¹ Loci Examined: Amelogenin, D3S1358, D1S1656, D2S441, D10S1248, D13S317, Penta E, D16S539, D18S51, D2S1338, CSF1PO, Penta D, TH01, vWA, D21S11, D7S820, D5S818, TPOX, DYS391, D8S1179, D12S391, D19S433, FGA, and D22S1045.



The DNA profile obtained from Item 3 matches that obtained from the known reference sample of Xana Kernodle (See Item 8, Report No. 4 issued 11/20/2022). This DNA profile is at least 12.5 septillion (1.25×10^{25}) times more likely to be seen if Xana Kernodle is the source than if an unrelated individual randomly selected from the general population is the source.

The DNA profile obtained from Item 6.1 indicates a mixture of DNA. Xana Kernodle is a potential contributor to this DNA mixture. Assuming a two person mixture and that Ethan Chapin (See Item 5, Report No. 4 issued 11/20/2022) is a contributor, this DNA profile is at least 19.4 septillion (1.94×10^{25}) times more likely to be seen if it were the result of a mixture of DNA from Ethan Chapin and Xana Kernodle than if it resulted from Ethan Chapin and an unrelated individual randomly selected from the general population.

Madison Mogen (Item 11), Kaylee Goncalves (Item 14), Jack Ducoeur (Item 17), Bethany Funke (Item 18), Dylan Mortensen (Item 19) (See Items 11, 14, 17, 18, and 19, Report No. 4 issued 11/20/2022), John Showalter (Item 1), Cole Barenberg (Item 2) (See Items 1 and 2, M2022-4870, Report No. 1 issued 11/20/2022), and Jose Cruz (See Item 33, Report No. 6 issued 11/23/2022) are excluded as being contributors to this DNA mixture.

The DNA profile obtained from Item 7.1 is consistent with that obtained from the known reference sample of Ethan Chapin.

The DNA profile obtained from Item 9.1 indicates a mixture of DNA with a major profile, which is consistent with having come from Xana Kernodle. Ethan Chapin is a potential contributor to the minor component of this mixture. Assuming a two person mixture and that Xana Kernodle is a contributor, this DNA profile is at least 6,150 times more likely to be seen if it were the result of a mixture of DNA from Xana Kernodle and Ethan Chapin than if it resulted from Xana Kernodle and an unrelated individual randomly selected from the general population.

Jack Ducoeur, John Showalter, Cole Barenberg, and Jose Cruz are excluded as being contributors to this DNA mixture.

The DNA profile obtained from Item 10.1 indicates a mixture of DNA with a major profile, which is consistent with having come from Xana Kernodle. Ethan Chapin is a potential contributor to the minor component of this mixture. Assuming a two person mixture and that Xana Kernodle is a contributor, this DNA profile is at least 8,340,000 times more likely to be seen if it were the result of a mixture of DNA from Xana Kernodle and Ethan Chapin than if it resulted from Xana Kernodle and an unrelated individual randomly selected from the general population.

Jack Ducoeur, John Showalter, Cole Barenberg, and Jose Cruz are excluded as being contributors to this DNA mixture.

The DNA profile obtained from Item 12.1 is consistent with that obtained from the known reference sample of Madison Mogen.

The DNA profile obtained from Item 13.1 indicates a mixture of DNA with a major profile, which is consistent with having come from Madison Mogen. Kaylee Goncalves is a potential contributor to this mixture. Assuming a three person mixture and that Madison Mogen is a contributor, this DNA profile is at least 77,900,000 times more likely to be seen if it were the result of a mixture of DNA from Madison Mogen, Kaylee Goncalves, and an unrelated, randomly selected individual than if it resulted from Madison Mogen and two unrelated individuals randomly selected from the general population.

Based on the likelihood ratio result 0.399, it is inconclusive whether Jack Ducoeur is a potential contributor to this DNA profile.

Based on the likelihood ratio result 0.485, it is inconclusive whether Cole Barenberg is a potential contributor to this DNA profile.

Based on the likelihood ratio result 3.33, it is inconclusive whether Ethan Chapin is a potential contributor to this DNA profile.

Based on the likelihood ratio result 0.201, it is inconclusive whether Xana Kernodle is a potential contributor to this DNA profile.

Based on the likelihood ratio result 0.0233, it is inconclusive whether Bethany Funke is a potential contributor to this DNA profile.

John Showalter, Jose Cruz, and Dylan Mortensen are excluded as being contributors to this DNA mixture.

The DNA profiles obtained from Items 15.1 and 16.1 are consistent with that obtained from the known reference sample of Kaylee Goncalves.

Deoxyribonucleic Acid (DNA) extraction and quantification, employing real-time Polymerase Chain Reaction (PCR), were performed on the swab from Item 4.

No DNA was detected on Item 4. No further testing was conducted on this item.

DISPOSITION OF EVIDENCE:

Items 6.1, 7.1, 13.1, 15.1, 16.1, and the swab from Item 4 were consumed during testing; however, DNA extract remains for these items. All other items and the empty packaging for Items 4, 6.1, 7.1, 13.1, 15.1, and 16.1 have been returned to the main laboratory evidence vault for return to the submitting agency.

REMARKS:

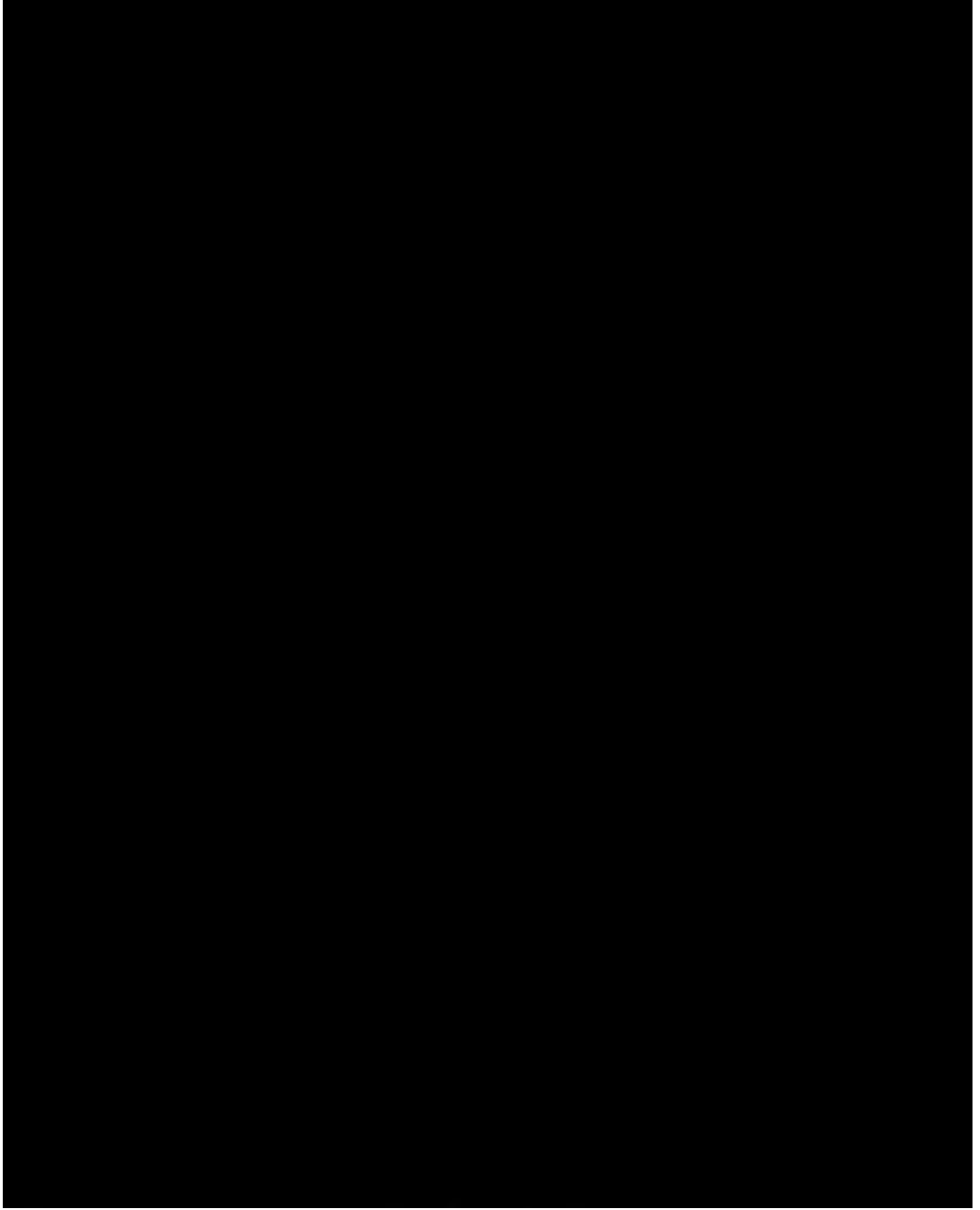
The descriptions, conclusions and interpretations stated above apply to the sample(s) as received. I declare under penalty of perjury pursuant to the law of the State of Idaho that the foregoing is true and correct.



Jade Miller / Forensic Scientist

Issue Date: **11/23/2022**

000634



000705

000792

M



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FORENSIC DNA REPORT

Case Agency(s) : MOSCOW POLICE DEPARTMENT	Agency Case No(s).: 22-M09903	Laboratory Case No.: M2022-4843 XREF: M2022-4870
Date(s) of Offense: 11/13/2022	Investigating Officer(s): Dustin Blaker	Report No.: 13
Date Evidence Accepted: 11/16/2022, 11/21/2022, 11/28/2022, 12/05/2022	Analyst: Jade Miller	
<u>Case Name(s):</u> Subject - JEREMY T REAGAN Subject - MASON S BARSTOW Subject - KHOI A NGUYEN Subject - DERRICK AGBENYA Subject - PATRICK F BUETTNER Subject - COURAGE ALORBU Subject - JAMES W DESKINS Subject - HENRY R CLARK Subject - KENNETH R ANDERSON Subject - DONALD MCDONALD Victim - MADISON M MOGEN Victim - XANA A KERNODLE Victim - ETHAN J CHAPIN Victim - KAYLEE J GONCALVES		

EVIDENCE DESCRIPTION:

- Item 1.5: Swabs of inside surface on blade portion of knife sheath
- Item 23: Submitted swab from above stairwell
- Item 24: Submitted swab from upper floor banister
- Item 29.1: Submitted swab of face mark on outside of south kitchen window
- Item 29.2: Submitted swab of hand marks on outside of south kitchen window
- Item 29.3: Submitted swab of finger mark on outside of south kitchen window
- Item 30: Submitted swab of stain on bottom of handrail
- Item 31.1: Submitted swab of stain on edge of half wall
- Item 36: DNA extracts from Items 23, 24, 29.1, 29.2, 29.3, 30, and 31.1
- Item 37.1: Submitted swab from south entry hallway wall at 1127 King Rd. Apt. 1
- Item 37.2: Submitted swab from west kitchen wall at 1127 King Rd. Apt. 1
- Item 38: Submitted swabs, agency Item 264, from scene
- Item 39: Submitted swab, agency Item 261, from scene
- Item 40.1: Swab of stain on palm of glove under pointer finger
- Item 40.2: Swab of stain on palm of glove under pinky finger
- Item 40.3: Swab of stain on ring finger of glove

Item 40.4: Swabs from inside of glove
Item 41: Reference oral swab from Henry Clark
Item 42: Reference oral swab from Kenneth Anderson
Item 43: Reference oral swab from Donald McDonald
Item 44: Reference DNA swab from Mason Barstow
Item 45: Reference oral swab from Jeremy Reagan
Item 46: Reference DNA swabs from Khoi Nguyen
Item 47: Reference oral swabs from Derrick Agbenya
Item 48: Reference DNA swabs from Patrick Buettner
Item 49: Reference oral swabs from Courage Alorbu
Item 50: Reference oral swabs from James Deskins
Item 51: DNA extracts from Items 1.5, 37.1, 37.2, 38, 39, 40.1, 40.2, 40.3, 40.4, and 41 through 50

CONCLUSIONS AND INTERPRETATIONS:

Deoxyribonucleic Acid (DNA) Analysis, employing the Polymerase Chain Reaction (PCR), was used to generate a Short Tandem Repeat (STR) profile from Items 23, 29.1, 29.3, 30, 31.1, 40.1, 40.2, and 40.3, as well as a portion of Items 1.5, 24, 37.1, 37.2, 38, 39, 40.4, and 41 through 50.¹

Henry Clark, Kenneth Anderson, Donald McDonald, Mason Barstow, Jeremy Reagan, Khoi Nguyen, Derrick Agbenya, Patrick Buettner, Courage Alorbu, James Deskins, and Connor Chesnut (See Item 6, M2022-4870, Report No. 3 issued 12/14/2022) are not the source of the unknown male (Male A) DNA profile previously obtained from Item 1.1 (See Report No. 4 issued 11/20/2022).

The DNA profile previously obtained from Item 1.4 (See Report No. 4, issued 11/20/2022) indicates a mixture of DNA with a major profile. Assuming a two person mixture, Henry Clark, Kenneth Anderson, Donald McDonald, Mason Barstow, Jeremy Reagan, Khoi Nguyen, Derrick Agbenya, Patrick Buettner, Courage Alorbu, James Deskins, and Connor Chesnut are excluded as being contributors to this DNA mixture.

The DNA profile previously obtained from Item 6.1 (See Report No. 7, issued 11/23/2022) indicates a mixture of DNA. Assuming a two person mixture, Henry Clark, Kenneth Anderson, Donald McDonald, Mason Barstow, Jeremy Reagan, Khoi Nguyen, Derrick Agbenya, Patrick Buettner, Courage Alorbu, James Deskins, and Connor Chesnut are excluded as being contributors to this DNA mixture.

The DNA profile previously obtained from Item 9.1 (See Report No. 7, issued 11/23/2022) indicates a mixture of DNA with a major profile. Assuming a two person mixture, Henry Clark, Kenneth Anderson, Donald McDonald, Mason Barstow, Jeremy Reagan, Khoi Nguyen, Derrick Agbenya, Patrick Buettner, Courage Alorbu, James Deskins, and Connor Chesnut are excluded as being contributors to this DNA mixture.

The DNA profile previously obtained from Item 10.1 (See Report No. 7, issued 11/23/2022) indicates a mixture of DNA with a major profile. Assuming a two person mixture, Henry Clark, Kenneth Anderson, Donald McDonald, Mason Barstow, Jeremy Reagan, Khoi Nguyen, Derrick Agbenya, Patrick Buettner, Courage Alorbu, James Deskins, and Connor Chesnut are excluded as being contributors to this DNA mixture.

FOOTNOTES

¹ Loci Examined: Amelogenin, D3S1358, D1S1656, D2S441, D10S1248, D13S317, Penta E, D16S539, D18S51, D2S1338, CSF1PO, Penta D, TH01, vWA, D21S11, D7S820, D5S818, TPOX, DYS391, D8S1179, D12S391, D19S433, FGA, and D22S1045.

The DNA profile previously obtained from Item 13.1 (See Report No. 7, issued 11/23/2022) indicates a mixture of DNA, assumed to be from three individuals, with a major profile.

Based on the likelihood ratio result 0.0224, it is inconclusive whether Kenneth Anderson is a potential contributor to this DNA profile.

Based on the likelihood ratio result 0.0234, it is inconclusive whether Mason Barstow is a potential contributor to this DNA profile.

Based on the likelihood ratio result 0.186, it is inconclusive whether Jeremy Reagan is a potential contributor to this DNA profile.

Based on the likelihood ratio result 0.0344, it is inconclusive whether Derrick Agbenya is a potential contributor to this DNA profile.

Based on the likelihood ratio result 0.257, it is inconclusive whether Courage Alorbu is a potential contributor to this DNA profile.

Henry Clark, Donald McDonald, Khoi Nguyen, Patrick Buettner, James Deskins, and Connor Chesnut are excluded as being contributors to this DNA mixture.

The DNA profile obtained from Item 23 indicates a mixture of DNA with a major profile, which matches that previously obtained from the known reference sample of Kaylee Goncalves (See Item 14, Report No. 4 issued 11/20/2022). Assuming a two person mixture, this DNA profile is at least 723 septillion (7.23×10^{26}) times more likely to be seen if it were the result of a mixture of DNA from Kaylee Goncalves and an unrelated, randomly selected individual than if it resulted from two unrelated individuals randomly selected from the general population.

Madison Mogen (See Item 11, Report No. 4 issued 11/20/2022) is a potential contributor to the minor component of this mixture. Assuming a two person mixture, this DNA profile is at least 114 septillion (1.14×10^{26}) times more likely to be seen if it were the result of a mixture of DNA from Madison Mogen and an unrelated, randomly selected individual than if it resulted from two unrelated individuals randomly selected from the general population.

Ethan Chapin (Item 5), Xana Kernodle (Item 8), Jack Ducoeur (Item 17), Bethany Funke (Item 18), Dylan Mortensen (Item 19) (See Report No. 4 issued 11/20/2022), John Showalter (Item 1), Cole Barenberg (Item 2) (See M2022-4870, Report No. 1 issued 11/20/2022), Jose Cruz (See Item 33, Report No. 6 issued 11/23/2022), Henry Clark, Kenneth Anderson, Donald McDonald, Mason Barstow, Jeremy Reagan, Khoi Nguyen, Derrick Agbenya, Patrick Buettner, Courage Alorbu, James Deskins, and Connor Chesnut are excluded as contributors to this DNA mixture.

The DNA profile obtained from Item 24 matches that previously obtained from the known reference sample of Madison Mogen. This DNA profile is at least 25.6 octillion (2.56×10^{28}) times more likely to be seen if Madison Mogen is the source than if an unrelated individual randomly selected from the general population is the source.

The DNA profile obtained from Item 30 indicates a mixture of DNA with a major profile, which was determined to be from an unknown male (Male B). Assuming a three person mixture, two additional unknown individuals are potential contributors to the minor profile. Due to the low level results and limited data, no conclusions can be made regarding the minor contributors. Ethan Chapin, Jack Ducoeur, John Showalter, Cole Barenberg, Jose Cruz, Henry Clark, Kenneth Anderson, Donald McDonald, Mason Barstow, Jeremy Reagan, Khoi Nguyen, Derrick Agbenya, Patrick Buettner, Courage Alorbu, James Deskins, and Connor Chesnut are not the source of the major male DNA profile from this item.

The DNA profile obtained from Item 31.1 indicates a mixture of DNA with a major profile, which matches that previously obtained from the known reference sample of Ethan Chapin. Assuming a two person mixture, this DNA profile is at least 968 octillion (9.68×10^{29}) times more likely to be seen if it were the result of a mixture of DNA from Ethan Chapin and an unrelated, randomly selected individual than if it resulted from two unrelated individuals randomly selected from the general population. Due to the low level results and limited data, no conclusions can be made regarding the minor contributor.

The DNA profiles obtained from Items 37.1 and 37.2 were determined to be from the same unknown male (Male C). Ethan Chapin, Jack Ducoeur, John Showalter, Cole Barenberg, Jose Cruz, Henry Clark, Kenneth Anderson, Donald McDonald, Mason Barstow, Jeremy Reagan, Khoi Nguyen, Derrick Agbenya, Patrick Buettner, Courage Alorbu, James Deskins, and Connor Chesnut are not the source of the DNA profiles from these items.

The DNA profiles obtained from Items 38 and 39 match that previously obtained from the known reference sample of John Showalter. This DNA profile is at least 80.4 nonillion (8.04×10^{31}) times more likely to be seen if John Showalter is the source than if an unrelated individual randomly selected from the general population is the source.

The partial DNA profile obtained from Item 40.1 was determined to be from an unknown male (Male D). Ethan Chapin, Jack Ducoeur, John Showalter, Cole Barenberg, Jose Cruz, Henry Clark, Kenneth Anderson, Donald McDonald, Mason Barstow, Jeremy Reagan, Khoi Nguyen, Derrick Agbenya, Patrick Buettner, Courage Alorbu, James Deskins, and Connor Chesnut are not the source of the DNA profile from this item.

The partial DNA profile obtained from Item 40.4 indicates a mixture of DNA with a major profile. Assuming a two person mixture, a second unknown individual is a potential contributor to the minor profile. The same unknown male (Male D) from Item 40.1 is a potential contributor to the major DNA profile. Due to the low level results and limited data, no conclusions can be made regarding the minor contributor.

The partial DNA profile obtained from Item 1.5 indicates a mixture of DNA from two individuals. Due to the low level results and limited data, no comparisons can be made.

Due to insufficient quantity or degradation, only a partial DNA profile, consisting of two alleles, was obtained from Item 40.2. Due to the low level results and limited data, no conclusions can be made.

Due to insufficient quantity or degradation, only a partial DNA profile, consisting of a single allele, was obtained from Item 29.1. Due to the low level results and limited data, no conclusions can be made.

Due to insufficient quantity or degradation, only a partial DNA profile, consisting of a single allele, was obtained from Item 40.3. Due to the low level results and limited data, no conclusions can be made.

Due to insufficient quantity or degradation, no DNA profile was obtained from Item 29.3. DNA extraction and quantification, employing real-time PCR, were performed on Item 29.2. No DNA was detected on Item 29.2. No further testing was conducted on this item.

The major unknown male (Male B) DNA profile obtained from Item 30, the unknown male (Male C) DNA profile obtained from Item 37.1, and the partial unknown male (Male D) DNA profile obtained from Item 40.1 are not eligible for entry into the Combined DNA Index System (CODIS).

Further interpretation may be performed upon submission of a known reference sample from any additional relevant individual(s).

DISPOSITION OF EVIDENCE:

Items 29.1, 29.3, 30, 40.1, 40.2, and 40.3 and their DNA extracts were consumed during testing. Items 23, 29.2, and 31.1 were consumed during testing; however, DNA extract remains for these items. All other items and the empty packaging for Items 23, 29.1, 29.2, 29.3, 30, and 31.1 have been returned to the main laboratory evidence vault for return to the submitting agency.

REMARKS:

The descriptions, conclusions and interpretations stated above apply to the sample(s) as received.

I declare under penalty of perjury pursuant to the law of the State of Idaho that the foregoing is true and correct.



Jade Miller / Forensic Scientist

Issue Date: **12/17/2022**



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FORENSIC DNA REPORT

Case Agency(s): MOSCOW POLICE DEPARTMENT	Agency Case No(s).: 22-M09903	Laboratory Case No.: M2022-4843 XREF: M2022-4870
Date(s) of Offense: 11/13/2022	Investigating Officer(s): Dustin Blaker	Report No.: 26
Date Evidence Accepted: 12/27/2022, 01/06/2023	Analyst: Jade Miller	
Case Name(s): Suspect - BRYAN KOHBERGER Victim - MADISON M MOGEN Victim - XANA A KERNODLE Victim - ETHAN J CHAPIN Victim - KAYLEE J GONCALVES		

EVIDENCE DESCRIPTION:

- Item 72: Submitted swab from north wall of stairwell
- Item 73: Submitted swab from half wall
- Item 74: Submitted swab from 2nd floor table
- Item 75: Submitted swab from 2nd floor outside of bedroom
- Item 76: Submitted swab from living room table
- Item 77: Submitted swab from 3rd floor door
- Item 78: Submitted swab of stain on floor near west bedroom
- Item 101.1: Stain on cutting from uncased pillow from 1630 NE Valley Rd.
- Item 103.1: Stain A on bottom portion of mattress protector from 1630 NE Valley Rd.
- Item 103.2: Stain B on bottom portion of mattress protector from 1630 NE Valley Rd.
- Item 103.3: Stain C on bottom portion of mattress protector from 1630 NE Valley Rd.
- Item 108: Reference oral swabs from Bryan Kohberger
- Item 110: DNA extracts from Items 72 through 78, 101.1, 103.1, 103.2, 103.3, and 108

CONCLUSIONS AND INTERPRETATIONS:

Deoxyribonucleic Acid (DNA) Analysis, employing the Polymerase Chain Reaction (PCR), was used to generate a Short Tandem Repeat (STR) profile from a portion of Items 72 through 78, 101.1, 103.1, 103.2, 103.3, and 108.¹

The DNA profile previously obtained from Item 1.1 (See Report No. 4, issued 11/20/2022) matches that obtained from the known reference sample of Bryan Kohberger. This DNA profile is at least 5.37 octillion (5.37×10^{27}) times more likely to be seen if Bryan Kohberger is the source than if an unrelated individual randomly selected from the general population is the source.

FOOTNOTES

¹ Loci Examined: Amelogenin, D3S1358, D1S1656, D2S441, D10S1248, D13S317, Penta E, D16S539, D18S51, D2S1338, CSF1PO, Penta D, TH01, vWA, D21S11, D7S820, D5S818, TPOX, DYS391, D8S1179, D12S391, D19S433, FGA, and D22S1045.

The DNA profile previously obtained from Item 1.4 (See Report No. 4, issued 11/20/2022) indicates a mixture of DNA with a major profile. Assuming a two person mixture, Bryan Kohberger is excluded as being a contributor to this DNA mixture.

The DNA profile previously obtained from Item 6.1 (See Report No. 7, issued 11/23/2022) indicates a mixture of DNA. Assuming a two person mixture, Bryan Kohberger is excluded as being a contributor to this DNA mixture.

The DNA profile previously obtained from Item 9.1 (See Report No. 7, issued 11/23/2022) indicates a mixture of DNA with a major profile. Assuming a two person mixture, Bryan Kohberger is excluded as being a contributor to this DNA mixture.

The DNA profile previously obtained from Item 10.1 (See Report No. 7, issued 11/23/2022) indicates a mixture of DNA with a major profile. Assuming a two person mixture, Bryan Kohberger is excluded as being a contributor to this DNA mixture.

The DNA profile previously obtained from Item 13.1 (See Report No. 7, issued 11/23/2022) indicates a mixture of DNA, assumed to be from three individuals, with a major profile. Based on the likelihood ratio result 0.0469, it is inconclusive whether Bryan Kohberger is a potential contributor to this DNA mixture.

The DNA profile previously obtained from Item 23 (See Report No. 13, issued 12/17/2022) indicates a mixture of DNA with a major profile. Assuming a two person mixture, Bryan Kohberger is excluded as being a contributor to this DNA mixture.

The DNA profile previously obtained from Item 30 (See Report No. 13, issued 12/17/2022) indicates a mixture of DNA, assumed to be from three individuals, with a major profile. Bryan Kohberger is not the source of the major male DNA profile from this item. Due to the low level results and limited data, no conclusions can be made regarding the minor contributors.

The DNA profiles previously obtained from Items 37.1 and 37.2 (See Report No. 13, issued 12/17/2022) were determined to be from the same unknown male. Bryan Kohberger is not the source of the DNA profiles from these items.

The partial DNA profile previously obtained from Item 40.1 (See Report No. 13, issued 12/17/2022) was determined to be from an unknown male. Bryan Kohberger is not the source of the DNA profile from this item.

The partial DNA profile previously obtained from Item 40.4 (See Report No. 13, issued 12/17/2022) indicates a mixture of DNA with a major profile. Assuming a two person mixture, Bryan Kohberger is not the source of the major male DNA profile from this item. Due to the low level results and limited data, no conclusions can be made regarding the minor contributor.

The DNA profile obtained from Item 72 indicates a mixture of DNA with a major profile, which matches that previously obtained from the known reference sample of Kaylee Goncalves (See Item 14, Report No. 4, issued 11/20/2022). Assuming a two person mixture, this DNA profile is at least 779 septillion (7.79×10^{26}) times more likely to be seen if it were the result of a mixture of DNA from Kaylee Goncalves and an unrelated, randomly selected individual than if it resulted from two unrelated individuals randomly selected from the general population.

Madison Mogen (See Item 11, Report No. 4, issued 11/20/2022) is a potential contributor to the minor component of this mixture. Assuming a two person mixture, this DNA profile is at least 6.83 septillion (6.83×10^{24}) times more likely to be seen if it were the result of a mixture of DNA from Madison Mogen and an unrelated, randomly selected individual than if it resulted from two unrelated individuals randomly selected from the general population.

Ethan Chapin (Item 5), Xana Kernodle (Item 8), Jack Ducoeur (Item 17), Bethany Funke (Item 18), Dylan Mortensen (Item 19) (See Report No. 4, issued 11/20/2022), John Showalter (Item 1), Cole Barenberg (Item 2) (See M2022-4870, Report No. 1, issued 11/20/2022), Jose Cruz (See Item 33, Report No. 6, issued 11/23/2022), Henry Clark (Item 41), Kenneth Anderson (Item 42), Donald McDonald (Item 43), Mason Barstow (Item 44), Jeremy Reagan (Item 45), Khoi Nguyen (Item 46), Derrick Agbenya (Item 47), Patrick Buettner (Item 48), Courage Alorbu (Item 49), James Deskins (Item 50) (See Report No. 13, issued 12/17/2022), Connor Chesnut (See Item 6, M2022-4870, Report No. 3, issued 12/14/2022), and Bryan Kohberger are excluded as contributors to this DNA mixture.

The DNA profile obtained from Item 73 indicates a mixture of DNA with a major profile, which matches that previously obtained from the known reference sample of Kaylee Goncalves. Assuming a two person mixture, this DNA profile is at least 525 septillion (5.25×10^{26}) times more likely to be seen if it were the result of a mixture of DNA from Kaylee Goncalves and an unrelated, randomly selected individual than if it resulted from two unrelated individuals randomly selected from the general population.

Madison Mogen is a potential contributor to the minor component of this mixture. Assuming a two person mixture, this DNA profile is at least 44.6 quadrillion (4.46×10^{16}) times more likely to be seen if it were the result of a mixture of DNA from Madison Mogen and an unrelated, randomly selected individual than if it resulted from two unrelated individuals randomly selected from the general population.

Ethan Chapin, Xana Kernodle, Jack Ducoeur, Bethany Funke, Dylan Mortensen, John Showalter, Cole Barenberg, Jose Cruz, Henry Clark, Kenneth Anderson, Donald McDonald, Mason Barstow, Jeremy Reagan, Khoi Nguyen, Derrick Agbenya, Patrick Buettner, Courage Alorbu, James Deskins, Connor Chesnut, and Bryan Kohberger are excluded as contributors to this DNA mixture.

The DNA profiles obtained from Items 74, 75, and 78 match that previously obtained from the known reference sample of Xana Kernodle. This DNA profile is at least 9.25 septillion (9.25×10^{24}) times more likely to be seen if Xana Kernodle is the source than if an unrelated individual randomly selected from the general population is the source.

The DNA profiles obtained from Items 76 and 77 match that previously obtained from the known reference sample of Kaylee Goncalves. This DNA profile is at least 1.01 octillion (1.01×10^{27}) times more likely to be seen if Kaylee Goncalves is the source than if an unrelated individual randomly selected from the general population is the source.

The DNA profiles obtained from Items 101.1, 103.1, 103.2, and 103.3 are consistent with that obtained from the known reference sample of Bryan Kohberger.

DISPOSITION OF EVIDENCE:

Item 108 was previously returned to the submitting agency. All remaining items have been returned to the main laboratory evidence vault for return to the submitting agency.

REMARKS:

The descriptions, conclusions and interpretations stated above apply to the sample(s) as received.

I declare under penalty of perjury pursuant to the law of the State of Idaho that the foregoing is true and correct.



Jade Miller / Forensic Scientist

Issue Date: **02/06/2023**



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700 South Stratford Drive, Ste 125

Meridian, ID 83642-6202

Phone: (208) 884-7170

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FORENSIC DNA REPORT

Case Agency(s) : MOSCOW POLICE DEPARTMENT	Agency Case No(s): 22-M09903	Laboratory Case No.: M2022-4843 X-REF M2022-4870
Date(s) of Offense: 11/13/2022	Investigating Officer(s): Dustin Blaker	Report No.: 31
Date Evidence Accepted: 03/03/2023	Analyst: Jade Miller	
Case Name(s): Suspect - BRYAN KOHBERGER Victim - MADISON M MOGEN Victim - XANA A KERNODLE Victim - ETHAN J CHAPIN Victim - KAYLEE J GONCALVES		

EVIDENCE DESCRIPTION:

Item 125.1: Submitted swab of stain on trash can in west bedroom on floor 2 (Marker T)

Item 125.2: Submitted swab of stain on chair in west bedroom on floor 2 (Marker U)

Item 126: Submitted swab of stain on east bedroom door on floor 3 (Marker X)

Item 127: DNA extracts from Items 125.1, 125.2, and 126

CONCLUSIONS AND INTERPRETATIONS:

Deoxyribonucleic Acid (DNA) Analysis, employing the Polymerase Chain Reaction (PCR), was used to generate a Short Tandem Repeat (STR) profile from a portion of Items 125.1, 125.2, and 126.¹

The DNA profiles obtained from Items 125.1 and 125.2 match that previously obtained from the known reference sample of Xana Kernodle (See Item 8, Report No. 4, issued 11/20/2022). This DNA profile is at least 12.1 septillion (1.21 x 10²⁵) times more likely to be seen if Xana Kernodle is the source than if an unrelated individual randomly selected from the general population is the source.

FOOTNOTES

¹ Loci Examined: Amelogenin, D3S1358, D1S1656, D2S441, D10S1248, D13S317, Penta E, D16S539, D18S51, D2S1338, CSF1PO, Penta D, TH01, vWA, D21S11, D7S820, D5S818, TPOX, DYS391, D8S1179, D12S391, D19S433, FGA, and D22S1045.

The DNA profile obtained from Item 126 indicates a mixture of DNA with a major profile, which matches that previously obtained from the known reference sample of Kaylee Goncalves (See Item 14, Report No. 4, issued 11/20/2022). Assuming a two person mixture, this DNA profile is at least 121 septillion (1.21×10^{26}) times more likely to be seen if it were the result of a mixture of DNA from Kaylee Goncalves and an unrelated, randomly selected individual than if it resulted from two unrelated individuals randomly selected from the general population.

Madison Mogen (See Item 11, Report No. 4, issued 11/20/2022) is a potential contributor to the minor component of this mixture. Assuming a two person mixture, this DNA profile is at least 4.67 septillion (4.67×10^{24}) times more likely to be seen if it were the result of a mixture of DNA from Madison Mogen and an unrelated, randomly selected individual than if it resulted from two unrelated individuals randomly selected from the general population.

Ethan Chapin (Item 5), Xana Kernodle, Jack Ducoeur (Item 17), Bethany Funke (Item 18), Dylan Mortensen (Item 19) (See Report No. 4, issued 11/20/2022), John Showalter (Item 1), Cole Barenberg (Item 2) (See M2022-4870, Report No. 1, issued 11/20/2022), Jose Cruz (See Item 33, Report No. 6, issued 11/23/2022), Henry Clark (Item 41), Kenneth Anderson (Item 42), Donald McDonald (Item 43), Mason Barstow (Item 44), Jeremy Reagan (Item 45), Khoi Nguyen (Item 46), Derrick Agbenya (Item 47), Patrick Buettner (Item 48), Courage Alorbu (Item 49), James Deskins (Item 50) (See Report No. 13, issued 12/17/2022), Connor Chesnut (See Item 6, M2022-4870, Report No. 3, issued 12/14/2022), and Bryan Kohberger (See Item 108, Report No. 26, issued 02/06/2023) are excluded as contributors to this DNA mixture.

DISPOSITION OF EVIDENCE:

All items have been returned to the main laboratory evidence vault for return to the submitting agency.

REMARKS:

The descriptions, conclusions and interpretations stated above apply to the sample(s) as received.

I declare under penalty of perjury pursuant to the law of the State of Idaho that the foregoing is true and correct.

Jade Miller

Jade Miller / Forensic Scientist

Issue Date: **04/17/2023**

Idaho State Police DNA Restitution

THIS IS NOT AN INVOICE

This is a request for restitution that may be granted by the court. If you are the subject associated with this report, this is not a bill, we are merely requesting that the court assign restitution if they deem it is appropriate.

As provided in Idaho Code 19-5506(7), the Idaho State Police requests restitution from the defendant(s), **BRYAN KOHBERGER** in the amount of **\$2,000** in association with Laboratory Case No. **M2022-4843**. This amount is based upon the number of DNA analyses performed at a cost of \$500 each, not to exceed \$2,000. The amount requested reflects a portion of the costs incurred to the laboratory during the analysis.

Item	Cost
Item 108	\$500
Item 125.1	\$500
Item 125.2	\$500
Item 126	\$500

Please present this restitution request form and a copy of the laboratory report to the court at the time of sentencing.

I declare under penalty of perjury pursuant to the law of the State of Idaho that the foregoing is true and correct.

Jade Miller

Jade Miller / Forensic Scientist

Please make checks payable to: Idaho State Police
Forensic Services
700 South Stratford
Meridian, Idaho 83642-6202

(Notice to subject of this report – restitution is paid through the court and they, in turn, will direct payment to Idaho State Police. Personal checks or money orders received by Idaho State Police will be returned.)

Thank you for your cooperation in this matter.

If you have any questions about the restitution, please contact:
Rylene Nowlin (Meridian Laboratory Manager)



IDAHO STATE POLICE FORENSIC SERVICES

700 South Stratford Drive, Ste 125

Meridian, ID 83642-6202

Phone: (208) 884-7170

Fax: (208) 884-7197

AMENDED

FORENSIC DNA REPORT

Case Agency(s) : MOSCOW POLICE DEPARTMENT	Agency Case No(s).: 22-M09903	Laboratory Case No.: M2022-4843 X-REF M2022-4870
Date(s) of Offense: 11/13/2022	Investigating Officer(s): Dustin Blaker	Report No.: 34
Date Evidence Accepted: 03/03/2023	Analyst: Jade Miller	
Case Name(s): Suspect - BRYAN KOHBERGER Victim - MADISON M MOGEN Victim - XANA A KERNODLE Victim - ETHAN J CHAPIN Victim - KAYLEE J GONCALVES		

This report amends report #31 issued on 04/17/2023. Reason for amendment: Previous notes packet missing explanation for sample re-injection.

EVIDENCE DESCRIPTION:

Item 125.1: Submitted swab of stain on trash can in west bedroom on floor 2 (Marker T)

Item 125.2: Submitted swab of stain on chair in west bedroom on floor 2 (Marker U)

Item 126: Submitted swab of stain on east bedroom door on floor 3 (Marker X)

Item 127: DNA extracts from Items 125.1, 125.2, and 126

CONCLUSIONS AND INTERPRETATIONS:

Deoxyribonucleic Acid (DNA) Analysis, employing the Polymerase Chain Reaction (PCR), was used to generate a Short Tandem Repeat (STR) profile from a portion of Items 125.1, 125.2, and 126. ¹

The DNA profiles obtained from Items 125.1 and 125.2 match that previously obtained from the known reference sample of Xana Kernodle (See Item 8, Report No. 4, issued 11/20/2022). This DNA profile is at least 12.1 septillion (1.21×10^{25}) times more likely to be seen if Xana Kernodle is the source than if an unrelated individual randomly selected from the general population is the source.

FOOTNOTES

¹ Loci Examined: Amelogenin, D3S1358, D1S1656, D2S441, D10S1248, D13S317, Penta E, D16S539, D18S51, D2S1338, CSF1PO, Penta D, TH01, vWA, D21S11, D7S820, D5S818, TPOX, DYS391, D8S1179, D12S391, D19S433, FGA, and D22S1045.

The DNA profile obtained from Item 126 indicates a mixture of DNA with a major profile, which matches that previously obtained from the known reference sample of Kaylee Goncalves (See Item 14, Report No. 4, issued 11/20/2022). Assuming a two person mixture, this DNA profile is at least 121 septillion (1.21×10^{26}) times more likely to be seen if it were the result of a mixture of DNA from Kaylee Goncalves and an unrelated, randomly selected individual than if it resulted from two unrelated individuals randomly selected from the general population.

Madison Mogen (See Item 11, Report No. 4, issued 11/20/2022) is a potential contributor to the minor component of this mixture. Assuming a two person mixture, this DNA profile is at least 4.67 septillion (4.67×10^{24}) times more likely to be seen if it were the result of a mixture of DNA from Madison Mogen and an unrelated, randomly selected individual than if it resulted from two unrelated individuals randomly selected from the general population.

Ethan Chapin (Item 5), Xana Kernodle, Jack Ducoeur (Item 17), Bethany Funke (Item 18), Dylan Mortensen (Item 19) (See Report No. 4, issued 11/20/2022), John Showalter (Item 1), Cole Barenberg (Item 2) (See M2022-4870, Report No. 1, issued 11/20/2022), Jose Cruz (See Item 33, Report No. 6, issued 11/23/2022), Henry Clark (Item 41), Kenneth Anderson (Item 42), Donald McDonald (Item 43), Mason Barstow (Item 44), Jeremy Reagan (Item 45), Khoi Nguyen (Item 46), Derrick Agbenya (Item 47), Patrick Buettner (Item 48), Courage Alorbu (Item 49), James Deskins (Item 50) (See Report No. 13, issued 12/17/2022), Connor Chesnut (See Item 6, M2022-4870, Report No. 3, issued 12/14/2022), and Bryan Kohberger (See Item 108, Report No. 26, issued 02/06/2023) are excluded as contributors to this DNA mixture.

DISPOSITION OF EVIDENCE:

All items have been returned to the main laboratory evidence vault for return to the submitting agency.

REMARKS:

The descriptions, conclusions and interpretations stated above apply to the sample(s) as received.

I declare under penalty of perjury pursuant to the law of the State of Idaho that the foregoing is true and correct.

Jade Miller

Jade Miller / Forensic Scientist

Issue Date: **06/16/2023**

Idaho State Police DNA Restitution

THIS IS NOT AN INVOICE

This is a request for restitution that may be granted by the court. If you are the subject associated with this report, this is not a bill, we are merely requesting that the court assign restitution if they deem it is appropriate.

As provided in Idaho Code 19-5506(7), the Idaho State Police requests restitution from the defendant(s), **BRYAN KOHBERGER** in the amount of **\$2,000** in association with Laboratory Case No. **M2022-4843**. This amount is based upon the number of DNA analyses performed at a cost of \$500 each, not to exceed \$2,000. The amount requested reflects a portion of the costs incurred to the laboratory during the analysis.

Item	Cost
Item 108	\$500
Item 125.1	\$500
Item 125.2	\$500
Item 126	\$500

Please present this restitution request form and a copy of the laboratory report to the court at the time of sentencing.

I declare under penalty of perjury pursuant to the law of the State of Idaho that the foregoing is true and correct.

Jade Miller

Jade Miller / Forensic Scientist

Please make checks payable to: Idaho State Police
Forensic Services
700 South Stratford
Meridian, Idaho 83642-6202

(Notice to subject of this report – restitution is paid through the court and they, in turn, will direct payment to Idaho State Police. Personal checks or money orders received by Idaho State Police will be returned.)

Thank you for your cooperation in this matter.

If you have any questions about the restitution, please contact:
Rylene Nowlin (Meridian Laboratory Manager)



IDAHO STATE POLICE FORENSIC SERVICES

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FORENSIC DNA REPORT

Case Agency(s): MOSCOW POLICE DEPARTMENT	Agency Case No(s): 22-M09903	Laboratory Case No.: M2022-4843
Date(s) of Offense: 11/13/2022	Investigating Officer(s): Dustin Blaker	Report No.: 36
Date Evidence Accepted: 06/14/2023	Analyst: Jade Miller	
Case Name(s): Suspect - BRYAN KOHBERGER Subject - DYLAN M MORTENSEN Victim - MADISON M MOGEN Victim - XANA A KERNODLE Victim - ETHAN J CHAPIN Victim - KAYLEE J GONCALVES		

EVIDENCE DESCRIPTION:

Item 132.1: Stain near top left corner of blanket from Dylan Mortensen

Item 134: DNA extract from Item 132.1

CONCLUSIONS AND INTERPRETATIONS:

Deoxyribonucleic Acid (DNA) Analysis, employing the Polymerase Chain Reaction (PCR), was used to generate a Short Tandem Repeat (STR) profile from a portion of Item 132.1.¹

The DNA profile obtained from Item 132.1 matches that obtained from the known reference sample from Dylan Mortensen (See Item 19, Report No. 4 issued 11/20/2022). This DNA profile is at least 77.4 septillion (7.74×10^{25}) times more likely to be seen if Dylan Mortensen is the source than if an unrelated individual randomly selected from the general population is the source.

DISPOSITION OF EVIDENCE:

All items have been returned to the main laboratory evidence vault for return to the submitting agency.

FOOTNOTES

¹Loci Examined: Amelogenin, D3S1358, D1S1656, D2S441, D10S1248, D13S317, Penta E, D16S539, D18S51, D2S1338, CSF1PO, Penta D, TH01, vWA, D21S11, D7S820, D5S818, TPOX, D8S1179, D12S391, D19S433, SE33, D22S1045, DYS391, FGA, DYS576, and DYS570.

REMARKS:

The descriptions, conclusions and interpretations stated above apply to the sample(s) as received.

I declare under penalty of perjury pursuant to the law of the State of Idaho that the foregoing is true and correct.

Jade Miller

Jade Miller / Forensic Scientist

Issue Date: **10/12/2023**

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