ABC Forensic Services Laboratory

DNA Casework Department

Report Date: October 10, 2017 Laboratory Number: L17-01234

EVIDENCE

Item 2 - Two (2) swabs collected from latent impression in suspected blood located on interior wall by door into bedroom

Agency: Springfield Police Department Victim: John Doe

RESULTS

A DNA profile was obtained from a cutting of Item 2 and is consistent with the known profile of John Doe (Item 9). Therefore, John Doe cannot be excluded as the source of the biological material found on Item 2. Assuming a single contributor, the probability of randomly selecting an unknown, unrelated individual with a DNA profile consistent with the DNA profile obtained from the cutting of Item 2 is listed below for the following populations: 1 in 837 trillion US Caucasians 1 in 900 trillion US African Americans 1 in 956 trillion US Southwest Hispanics Trey Myers (Item 60), Kerry Powers (Item 61), and Kate Bishop (Item 62) are excluded as the source of the biological material found on Item 2. Item 5 - Two (2) swabs collected A DNA profile consisting of a mixture of at least three individuals was obtained from a cutting of from interior bedroom door handle Item 5. At least one of the contributors is a male. Due to the complex nature of the mixed DNA and lock profile developed, the DNA profile obtained from a cutting of Item 5 is not suitable for comparison purposes. Item 8 - One (1) set of fingernail A DNA profile consisting of a mixture of at least two individuals was obtained from a cutting of scrapings collected from John Doe Item 8. At least one of the contributors is a male. The major component of this mixture is consistent with the known profile of John Doe (Item 9). Therefore, John Doe cannot be excluded as the source of the major component of the biological material found on Item 8. Assuming the major component is a single contributor, the probability of randomly selecting an unknown, unrelated individual with a DNA profile consistent with the major component of the DNA profile obtained from the cutting of Item 8 is listed below for the following populations: 1 in 837 trillion in US Caucasians 1 in 900 trillion in US African Americans 1 in 900 trillion in US Southwest Hispanics The known profile of Kate Bishop (Item 62) is consistent with being a contributor to this mixture. The DNA mixture is 10,000 times more probable if the sample originated from John Doe and Kate Bishop, than if it originated from John Doe and an unknown, unrelated individual. Trey Myers (Item 60) and Kerry Powers (Item 61) are excluded as the source of the biological material found on Item 8. Item 9 - One (1) bloodspot collected The DNA profile developed is suitable for use as a known standard. from John Doe Item 60 - Two (2) buccal swabs The DNA profile developed is suitable for use as a known standard. collected from Trey Myers Item 61 - Two (2) buccal swabs The DNA profile developed is suitable for use as a known standard. collected from Kerry Powers Item 62 - Two (2) buccal swabs The DNA profile developed is suitable for use as a known standard. collected from Kate Bishop