

**FBI Laboratory**2501 Investigation Parkway
Quantico, Virginia 22135**REPORT OF EXAMINATION**To: Milwaukee
Squad 6, GBRA
SA Gerald E. Mullen

Date: January 12, 2007

Case ID No.: 62D-MW-44363 - 51

Lab No.: 061108009 PM PV
061114006 PM PV
061227012 PM PVReference: Communications dated November 2, 2006, November 7, 2006,
and December 19, 2006

Your No.:

Title: STEVEN AVERY;
TERESA HALBACH - VICTIM (DECEASED)
DOMESTIC POLICE COOPERATION

Date specimens received: November 8, 2006, November 14, 2006, and December 27, 2006

The following items were submitted under cover of communication dated November 2, 2006,
assigned Laboratory number 061108009, and received in the DNA Analysis Unit II:

Q11 Bone fragment (1B5 E04033363)

Q12 Bone fragment (1B5 E04033363)

The following items were submitted under cover of communication dated November 7, 2006,
assigned Laboratory number 061114006, and received in the DNA Analysis Unit II:

Q13 Bone fragment (1B6, E04033388)

Q14-Q14.8 Bone fragments (1B6, E04033388)

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FROM

(MON) JAN 29 2007 15:01/ST. 14:59/No. 7501870005 P. 2
320 432 1200

JAN-25-2007 15:04

FBI GBRA

The following items were submitted under cover of communication dated December 19, 2006, assigned Laboratory number 061227012, and received in the DNA Analysis Unit II:

Q15-Q45 Thirty-one bone fragments (1B7, E04033589)

Remarks:

Due to the condition of the submitted Q11, Q12, Q13, Q14-Q14.8, and Q15-Q45 bone fragments, no mitochondrial DNA (mtDNA) examinations were conducted.

The submitted items will be returned under separate cover along with the processed DNA generated from the samples. The processed DNA can be found in a package marked PROCESSED DNA SAMPLES: SHOULD BE REFRIGERATED/FROZEN. It is recommended that these samples be stored in a refrigerator/freezer and isolated from evidence that has not been examined.

Leslie D. McCurdy, Ph.D.
DNA Analysis Unit II
(703) 632-7601

This report contains the opinions/interpretations of the examiner(s) who issued the report.

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061108009 PM PV

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TOTAL P. 03

(7)


FEDERAL BUREAU OF INVESTIGATION
QUANTICO, VA 22135

To: Milwaukee
Squad 6, GBRA
SA Gerald E. Mullen

Date: January 17, 2006

Case ID No.: 62D-MW-44363

Lab No.: 051123009 PM MR

Reference: Communication dated November 16, 2005

Your No.:

Title: STEVEN AVERY;
TERESA HALBACH - VICTIM (DECEASED)
DOMESTIC POLICE COOPERATION - HOMICIDE

Date specimens received: November 23, 2005

The items listed below were examined in the DNA Analysis Unit II:

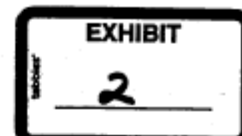
- Q1 Charred remains (1B2, E03635309)
- K1 Buccal swabs from KAREN HALBACH (1B1, #CD, E03635310)

This report contains the results of the mitochondrial DNA examinations.

1- Investigator Mark Wiegert
Calumet County Sheriff's Office
206 Court Street
Chilton, WI 53014

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Results of Examinations:

Mitochondrial DNA (mtDNA) sequences were obtained from the Q1 charred remains and the K1 buccal swab identified as coming from KAREN HALBACH, the identified mother of TERESA HALBACH. The mtDNA sequences obtained from Q1 and K1 are the same, with the exception of position 320. At this position, the presence of a cytosine (C) was observed in the Q1 charred remains. In specimen K1, evidence both a cytosine (C) and a thymine (T) was characterized at position 320.

Due to the closely related sequences obtained from specimens Q1 and K1, TERESA HALBACH cannot be excluded as the source of the Q1 charred remains.

Searching the mtDNA population database currently available to the FBI Laboratory (CODIS + Mito Popstats version 1.3, containing 5071 individuals, searching positions 16024-16365 and 73-340), the mtDNA sequence obtained from specimens Q1 and K1, including all four nucleotides, A, C, G and T, at position 320, has been observed in the following major population groups:

Database	Number of Observations	Individuals in Database	Upper Bound Frequency Estimate
African-American	0	1148	0.26%
Caucasian	0	1814	0.17%
Hispanic	0	759	0.39%

The mtDNA sequencing results are detailed below. Results are listed as differences from the published revised Cambridge Reference Sequence (rCRS).

Specimen	Q1 Remains	K1 Karen Halbach
Range	np 15998-16389	np 15998-16389
HVI	16222 T	16222 T
Range	np 49-408	np 49-408
	263 G	263 G
	309.1 C*	309.1 C*
	315.1 C	315.1 C
		320 N
HVII	*C8TC6-major C9TC6	*C8TC6-major C9TC6 C8TC6 C9TC6

No other mtDNA examinations were conducted.

Remarks:

The submitted items are retained in the FBI Laboratory. The final disposition will be addressed in a separate communication. The processed DNA will be found in a package marked PROCESSED DNA SAMPLES: SHOULD BE REFRIGERATED/FROZEN. It is recommended that these samples be stored in a refrigerator/freezer and isolated from evidence that has not been examined.

Douglas R. Hares, Ph.D.
DNA Analysis Unit II
703-632-7576