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Submitting Agency:

Sheriff Jerry A. Pagel
Attn: Matthew Joy
Calumet County Sheriff's Office
206 Court St.
Chilton, WI 53014

Date: December 5, 2005

Case No: M05-2467

Agency No.: 05-0157-955

Laboratory Analyst:

Sherry Culhane
Sherry U. Culhane
(DNA Analysis)

Case Name: Halbach, Teresa M. (V) -
Town of Gibson, Manitowoc
County, Wisconsin

I do hereby certify this document, consisting of 3 page(s), to be a true and correct report of the findings of the State Crime Laboratory on the items examined as shown by this report.

Peggy A. Lautenschlager
ATTORNEY GENERAL

Designee: *Harold Paul Versalle*
SIGNATURE

The following items of evidence were examined in the DNA Unit of this Laboratory:

- Item V - one black handled steak knife
- Item AM- stained rocks reportedly collected from a gravel mound
- Item AN- possible "tissue" reportedly collected from a gravel mound
- Item BY- numerous small pieces of apparent charred material
- Item BZ- two pieces of apparent charred material
- Item CA- three pieces of apparent charred material.

The following items of evidence were submitted to be utilized as comparison standards:

- Item AY- buccal cell standard reportedly collected from Allan K. Avery
- Item BS- buccal cell standard reportedly collected from Bryan J. Dassey
- Item BU- buccal cell standard reportedly collected from Steven Avery
- Item EF- three pap smear slides reportedly collected from Teresa Halbach.

RESULTS

Human deoxyribonucleic acid (DNA) was isolated from the apparent charred remains (item BZ), the buccal cell standards from Allan Avery (item AY), Bryan Dassey (item BS) and Steven Avery (item BU) as well as a pap smear slide reportedly from Teresa Halbach (item EF).

The DNA was amplified using the polymerase chain reaction (PCR) method and typed for fifteen short tandem repeat (STR) genetic markers as well as the gender marker Amelogenin using the Promega PowerPlex® 16 amplification kit (STR markers: D3S1358, TH01, D21S11, D18S51, and Penta E, D5S818, D13S317, D7S820, D16S539, CSF1PO, Penta D, vWA, D8S1179, TPOX and FGA).

The profile previously developed from items A6, A8, A9, A12, B1, B3, B4, B5 and C (See Laboratory Report No. M05-2467 issued November 14, 2005 by this analyst) is **consistent** with the profile developed from the buccal cell standard of Steven Avery (item BU). This profile is **not consistent** with the profiles developed from the buccal cell standards of Allan Avery (item AY) or Bryan Dassey (item BS).

Chemical analysis of reddish/brown staining present on the steak knife (item V) **did not** indicate the presence of blood.

Chemical analysis of reddish/brown stains from the rocks (item AM) and the possible "tissue" (item AN) indicated the presence of blood; however these stains were **not** human in origin.

The profile previously developed from the soda can (item A14) and the reddish/brown stain (item A1) from the cargo area of the RAV4 vehicle (See Laboratory Report No. M05-2467 issued November 14, 2005 by this analyst) is **consistent** with the profile developed from the pap smear slide reportedly collected from Teresa Halbach (item EF).

A partial profile, at seven loci, as well as the gender marker Amelogenin, was developed from the apparent charred material (item BZ). This profile is **consistent** with the profile developed from the pap smear slide reportedly collected from Teresa Halbach (item EF).

The small pieces of apparent charred material (item BY) were **not suitable** for autosomal DNA typing methods. No examinations were conducted on this item. The amount of DNA isolated from the

charred material (item CA) was insufficient for DNA/STR typing methods.

CONCLUSIONS

It is the opinion of this analyst, to a reasonable degree of scientific certainty, that Steven Avery is the source of the DNA isolated from the reddish/brown stains from items A6, A8, A9, A12, B1, B3, B4, B5 and C (See Laboratory Report No. M05-2467 issued November 14, 2005 by this analyst).

Based on the partial DNA profile developed from the pap smear slide reportedly collected from Teresa Halbach (item EF) it is the opinion of this analyst, to a reasonable degree of scientific certainty, that Teresa Halbach is the source of the DNA isolated from the swabbing of a soda can (item A14) and the reddish/brown stains (item A1) from the cargo area of the RAV4 vehicle (item A).

The partial profile developed from the charred remains of item BZ is consistent with the partial profile developed from the pap smear reportedly collected from Teresa Halbach (item EF). The probability of randomly selecting an unrelated individual with this same profile is approximately 1 person in 1 billion in the Caucasian population, 1 person in 2 billion in the African American and Southeastern Hispanic populations and 1 person in 3 billion in the Southwestern Hispanic population.

These conclusions are based on population statistics derived from a database of unrelated Caucasian, African American, Southeastern Hispanic and Southwestern Hispanic populations obtained from the Federal Bureau of Investigation (FBI).

Evidence disposition: Upon completion of all relevant analyses all items will be returned to the submitting agency.