

**POLICE DEPARTMENT
BALTIMORE, MARYLAND**

LABORATORY REPORT

Continued

April 29, 1999

Page 2

CC#: 8B-5801-99

To: Det. G. S. MacGillivray
C.I.B. Homicide

From: Daniel Van Gelder, Criminalist II
Trace Analysis Unit

RESULTS:

1. Insufficient soil for comparison was found on the Specimen B1 boots.
2. The Munsell Soil Colors for the clay+silt fractions of each soil specimen were determined as follows:

D1 : 10YR 6/3 to 10YR 5/3

P1 : 10YR 6/4 to 2.5YR 5/3

D2 : 10YR 6/4 to 2.5Y 6/3

P2 : 10YR 6/4

D3 : 10YR 4/2 to 2.5Y 5/3

B2 : 10YR 6/4.

3. The IR absorption spectra reveal that the P1 and P2 clay+silt fractions each contain much more gibbsite minerals than the D1, D2, or D3 clay+silt fractions. The IR spectra also reveal that the B2 soil clay+silt fraction contains much less kaolin minerals than the D1 or D2 clay+silt fractions, but much more than the D3 clay+silt fraction.

CONCLUSIONS:

No association has been found between the soil samples from the 1987 Honda Accord rear floor and the soil samples from the crime scene. No association has been found between the soil sample from the boots from the basement water heater room and the soil samples from the crime scene.

The evidence was returned to the Evidence Control Section under property numbers 99004540, 99010970, 99013364.

D. Van Gelder

POLICE DEPARTMENT
BALTIMORE, MARYLAND

LABORATORY REPORT

April 29, 1999

CC# 8B-5801-99

To: Det. G. S. MacGillivray
C.I.B. Homicide

Reference: Homicide
Victim: Hae Min Lee

From: Daniel Van Gelder, Criminalist II
Trace Analysis Unit

Soil Examination

SPECIMENS:

- D1 : 1 - Soil Sample, "on top of victim", "crime scene", in a vial (property no. 99004540).
D2 : 1 - Soil Sample, "from beneath victim", "crime scene", in a vial (property no. 99004540).
D3 : 1 - Soil Sample, "from lot area near street", "crime scene", in a vial (property no. 99004540).
P1 : 1 - Soil clumps, "from R. Rear Floor, Pass. Side", 1987 Honda Accord, MD Tags FHW 202, in a plastic dish (property no. 99010970).
P2 : 1 - Soil clumps, "from L. Rear Floor, near center", 1987 Honda Accord, MD Tags FHW 202, in a plastic dish (property no. 99010970).
B1 : 1 - Pair of boots, "Timberland", "from 2nd floor bedroom", in a bag (property no. 99013364).
B2 : 1 - Pair of tan suede boots, "Ramrod", "7 1/2", "from basement, water heater room", containing soil on the soles, in a bag (property no. 99013364).

EXAMINATION:

The Specimen B1 and B2 boots were examined for the presence of soil samples for comparison. The soil Specimens D1, D2, D3, P1, P2, and from B2 were dried overnight in an oven at 64 degrees C., weighed, and sieved through a series of progressively finer screens to separate the soil particles into size fractions. The color of the clay+silt fractions (the finest fractions) of each soil specimen were measured using the Munsell Soil Color Scale. The clay+silt fractions of each soil specimen were sampled, mixed with Kbr, formed into a pellet, and measured for IR absorption in the 4000 - 400 wave number range.