

# Exhibit A

**SWIFS REPORT**  
**November 1, 1996**



**SOUTHWESTERN  
INSTITUTE OF FORENSIC SCIENCES  
AT DALLAS**

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Dallas, Texas 75235-7710

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AREA CODE 214

REPLY TO:  
P.O. BOX 35728  
DALLAS, TEXAS  
75235-0728

Criminal Investigation Laboratory

November 1, 1996

Mr. Greg Davis  
Dallas Co. District Attorney Office  
133 North Industrial Blvd  
Lockbox 19  
Dallas, Texas 75207

FL# 96P1268  
RPD# 18563  
DCME# 1810-96  
Damon Routier - Complainant  
Darlie Routier - Suspect  
Homicide

Related case:  
FL# 96P1269  
DCME# 1811-96  
Devon Routier - Complainant

**EVIDENCE:**

Received from David Mayne on June 6, 1996:

- 1: Window screen
- 2: Knife

Obtained by K. Long on June 6, 1996:

- 7: Swabbings of garage floor (5801 Eagle, Rowlett, TX)
- 9: Swabbings and scrapings of kitchen sink (5801 Eagle, Rowlett, TX)

Received from J. K. Townsend-Parchman, M.D., on June 7, 1996:

- 12: Autopsy blood sample labeled, "DCME# 1810-96"
- 13: T-shirt (Damon Routier)

Received from Jim Patterson on June 8, 1996:

- 18: Comforter
- 20: Large section of carpet
- 21: Green blanket
- 24: Nightshirt (Darlie Routier)
- 25: Pants (Damon Routier)
- 26: Blue blanket

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- 27: Sock (27T<sub>1</sub>, 27T<sub>2</sub>)
- 28: Two dish towels
- 29: Washcloth
- 30: Dish towel
- 31: Section of carpet (31T<sub>1</sub>)

Received from David Mayne on September 12, 1996:

- 27: Sock (27T<sub>3</sub>-27T<sub>7</sub>)

Received from David R. Mayne on September 24, 1996:

- 31: Section of carpet (31T<sub>2</sub>, 31T<sub>3</sub>)

Received from Jim Patterson on June 11, 1996:

- 33a: Flakes in film canister labeled "utility floor"
- 33b: Flakes in film canister labeled "coffee table..."
- 33c: Flakes in film canister labeled "kitchen floor beside island"
- 33e: Flakes in film canister labeled, "sink counter..."
- 33f: Flakes in film canister labeled, "kitchen bar..."
- 33g: Flakes in film canister labeled, "garage door outside..."
- 38: Stained gauze in envelope labeled "Item #1042/N/I"
- 41: Stained gauze in coin envelope labeled, "...Item #1042/K blood from west couch..."
- 42: Flakes in coin envelope labeled, "...Item #1042/H from bloody spot in front of sink"
- 43: Flakes in coin envelope labeled, "...Item #1042/a from bloody footprint"
- 44: Stained gauze in coin envelope labeled, "...Item #1042/J blood spot..."
- 45: Stained gauze in coin envelope labeled, "...Item #1042/L N/end of w/couch..."

Received from Jim Patterson on June 13, 1996:

- 47: Window

Obtained by K. Long on June 11, 1996:

- 49: Carpet section
- 50: Carpet section
- 51: Sample from chair
- 52: Sample from couch
- 53: Sample from couch
- 54: Sample from couch

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55: Sample from switchplate  
56: Sample from wall  
57: Carpet section  
58: Sample from couch

Received from Jim Patterson on June 17, 1996:

59: Blood sample "...Routier, Darlie..." from BUMC

Obtained from Darlie Routier on June 17, 1996:

60: Blood sample

Obtained from Darin Routier on June 17, 1996:

62: Blood sample

Received from J. P. Howell on June 27, 1996:

63: Stained cloth in petri dish  
64: Stained cloth in petri dish  
65: Stained cloth in petri dish

Received from Mike Bosillo on June 28, 1996:

68: Baseball cap

Received from David Mayne on July 3, 1996:

69: Vacuum cleaner  
70: Rug

**Related case FL# 96P1269, complainant Devon Routier**

Received from J. McClain, M.D., on June 11, 1996:

2: Autopsy blood sample labeled, "DCME# 1811-96"  
3: Pillow, blanket, pillowcase and shorts

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**RESULTS:**

No human DNA was detected from DNA extraction on items 1-window screen, 47-window or 33g-"garage door outside."

DNA was extracted from the remainder of the items listed above.

**PCR RESULTS:**

No DQ $\alpha$  amplification product was obtained on items 31T<sub>1</sub>-carpet, 51-chair stain or 28-dish towels.

The following DQ $\alpha$  and Polymarker (PM) types were obtained from blood samples on:

<u>Item#/Source</u>	<u>DQ<math>\alpha</math></u>	<u>LDLR</u>	<u>GYPA</u>	<u>HBCG</u>	<u>D7S8</u>	<u>Ge</u>
2: (96P1269) Devon Routier autopsy blood	1.1.3	A	AB	AC	AB	AC
12: Damon Routier autopsy blood	2.3	A	AB	AC	AB	AC
59: Darlie Routier blood sample	1.1.2	AB	B	A	AB	AC
60: Darlie Routier blood sample	1.1.2	AB	B	A	AB	AC
62: Darin Routier blood sample	1.1.3	A	A	BC	AB	C

The following DQ $\alpha$  and Polymarker (PM) types were obtained from items:

<u>Item#/Source</u>	<u>DQ<math>\alpha</math></u>	<u>LDLR</u>	<u>GYPA</u>	<u>HBCG</u>	<u>D7S8</u>	<u>Ge</u>
27T <sub>1</sub> : Sock	1.1.3	A	AB	AC	AB	AC
29: Washcloth	1.1.2	AB	B	A	AB	AC
33b: Coffee table	1.1.2	AB	B	A	AB	AC
58: Couch	2.3	A	AB	AC	AB	AC

*Devon  
Darlie  
Darin  
Damon*

Based on the DQ $\alpha$  and PM results, Devon Routier (item 2- 96P1269) is a potential contributor of DNA detected on item 27-T<sub>1</sub> sock. The sources of items 12-Damon Routier's blood sample, 60-Darlie Routier's blood sample and 62-Darin Routier's blood sample are excluded as contributors of the DNA detected on item 27-T<sub>1</sub> sock.

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Based on the DQ $\alpha$  and PM results, Darlie Routier (items 59 and 60) is a potential contributor of DNA detected on items 29-washcloth and 33b-coffee table. The sources of items 12-Damon Routier's blood sample, 62-Darin Routier's blood sample and 2 (96P1269) - Devon Routier's blood sample are excluded as contributors of the DNA detected on items 29-washcloth and 33b-coffee table.

Based on the DQ $\alpha$  and PM results, Damon Routier is a potential contributor of DNA detected on item 58 stain from couch. The sources of items 60-Darlie Routier's blood sample, 62-Darin Routier's blood sample and 2 (96P1269) - Devon Routier's blood sample are excluded as contributors of the DNA detected on item 58-stain from couch.

The following DQ $\alpha$  types were obtained on:

<u>Item#/Source</u>	<u>DQ<math>\alpha</math></u>	
2T <sub>5</sub> : Knife <i>blonde</i>	1.1,2 (faint 3)	<i>Damon + Darlie</i>
✓ T <sub>2</sub> : Garage floor	1.1,2	<i>Darlie</i>
✓ 9T <sub>4</sub> , T <sub>7</sub> : Sink <i>blue white</i>	1.1,2 (faint 3)	<i>Darlie + Damon + Devon</i>
S ✓ 9T <sub>6</sub> : Sink. <i>Divided</i>	1.1,2	<i>Darlie</i>
13T <sub>1</sub> : Damon shirt ✓ S	2,3 (faint 1.1)	<i>Damon</i>
18T <sub>1</sub> : Comforter ✓ S	1.1,3	<i>Devon</i>
20T <sub>1</sub> and T <sub>3</sub> : Carpet <i>(behind couch)</i>	1.1,2	<i>Darlie</i>
21T <sub>1</sub> : Blanket <i>Green</i> ✓	2,3	<i>Damon</i>
24T <sub>1</sub> , T <sub>2</sub> , T <sub>3</sub> , T <sub>4</sub> : Darlie shirt ✓	1.1,2	<i>- Darlie</i>
✓ 25T <sub>3</sub> : Damon jeans <i>front</i>	1.1,2,3	<i>Damon + Darlie</i>
✓ 25T <sub>3</sub> : Damon jeans <i>back</i>	1.1,2 (faint 3)	" "
26T <sub>2</sub> : Blanket <i>Blue</i> ✓	1.1,2	<i>Darlie</i>
✓ 33a: Utility room <i>R</i>	1.1,2	"
33c: Kitchen floor <i>R</i>	1.1,2	"
✓ 33e: Sink counter <i>R</i>	1.1,2	"

✓ 33f: Kitchen bar	R		1.1,2	Darlie
✓ 41: Couch	R		1.1,2,3	Damon & Darlie
✓ 42: Front of sink	R		1.1,2	Darlie
✓ 43: Foot print	R		1.1,2	Darlie
✓ 44: Blood sample	R		2,3 (faint 1.1)	Damon
✓ 45: Couch			2,3	Damon
✓ 49: Carpet			1.1,2	Darlie
✓ 50: Carpet		Chair	1.1,2	"
✓ 52: Couch			1.1,2	"
✓ 53: Couch		No couch	1.1,2	"
✓ 54: Couch			1.1,2	"
✓ 55: Light switch			1.1,2	"
✓ 56: Wall			1.1,2	"
✓ 57: Carpet		By coffee table	1.1,2	"
63: Knife		(blonde)	1.1,2,3	Darlie & Damon
65: Knife		Darlie	1.1,2	
✓ 68T <sub>1</sub> , T <sub>2</sub> : Cap			1.1,2	Darlie
✓ 69T <sub>1</sub> , T <sub>3</sub> , T <sub>4</sub> , T <sub>5</sub> : Vacuum cleaner			1.1,2	"
✓ 70: T <sub>1</sub> , T <sub>2</sub> , T <sub>4</sub> , T <sub>5</sub> , T <sub>6</sub> : Rug			1.1,2	"
✓ (96P1269) 3T <sub>1</sub> : Pillow (Devon)			1.1,2	Darlie
✓ (96P1269) 3T <sub>2</sub> : Blanket (Devon)			1.1,3	Devon
✓ (96P1269) 3T <sub>6</sub> : Devon shorts			1.1,3	"

Faint - Intensity less than control dot

Based on the DQ $\alpha$  results, Devon Routier (item 2- 96P1269) is a potential contributor of DQ $\alpha$  type 1.1,3, Damon Routier (item 12) is a potential contributor of DQ $\alpha$  type 2, 3 and Darlie Routier (item 60) is a potential contributor of DQ $\alpha$  type 1.1,2. Additional types (alleles) detected may be due to a mixture of bloods.

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RFLP RESULTS:

No DNA banding pattern was obtained from items ~~28~~-dish towels or ~~29~~-washcloth.

DNA was extracted and DNA banding patterns were obtained from items 9, 12, 24T<sub>6</sub>, 25T<sub>3</sub>, 25T<sub>3</sub>, 26, 27, 30, 31, 38, 41, 42, 44, 59, 60, 63, 64, 65, 70, and 96P1269 (2 and 3T<sub>1</sub> pillow, 3T<sub>2</sub> pillowcase, 3T<sub>3</sub> pillowcase) using the restriction enzyme Hae III and, unless noted, at least three of the single locus probes (loci) LH1 (D5S110), MS1 (D1S7), pH30 (D4S139), V1 (D17S79) and YNH24 (D2S44).

*Hand-print*  
The DNA banding pattern obtained from items ~~9~~T<sub>8</sub>-kitchen sink, ~~30~~-dish towel, ~~31~~T<sub>2</sub>-carpet blood drop, ~~38~~-blood, ~~42~~-front of kitchen sink, 59-blood sample, ~~64~~-stained cloth, ~~63~~ + ~~65~~-stained cloth and ~~70~~-rug matches the DNA banding pattern obtained from item 60-Darlie Routier's blood and does not match the DNA banding patterns from either item 12-Damon Routier's blood or item 2 (96P1269)-Devon Routier's blood. *R. dequard* *white print*

*Devon's pillow*  
The DNA banding pattern obtained from items ~~24~~T<sub>6</sub>-Darlie Routier's shirt and ~~3T~~<sub>1</sub> (96P1269)-pillow is similar to the DNA banding pattern obtained from item 60-Darlie Routier's blood; and does not match the DNA banding patterns from either items 12-Damon Routier's blood or 2 (96P1269) -Devon Routier's blood.

The DNA banding pattern obtained from items ~~26~~T<sub>1</sub>-blue blanket, ~~31~~T<sub>1</sub>-carpet blood print and 44-blood matches the DNA banding pattern obtained from item 12-Damon Routier's blood and does not match the DNA banding patterns from either items 60-Darlie Routier's blood or item 2 (96P1269)- Devon Routier's blood.

The DNA banding pattern obtained from item ~~27~~T<sub>1</sub>-sock stain matches the DNA banding pattern obtained from both items 12-Damon Routier's blood and 2 (96P1269) Devon Routier's blood using the probes YNH24, LH1 and V1. *-larger*

The DNA banding pattern obtained from item ~~27~~T<sub>1</sub>-sock stain matches the DNA banding pattern obtained from item 2 (96P1269)-Devon Routier's blood using the probes YNH24 and MS1 and does not match the DNA banding pattern obtained from either items 12-Damon Routier's blood or 60-Darlie Routier's blood. *-small*

The DNA banding pattern obtained from items ~~28~~T<sub>1</sub> Damon Routier's pants (2 stains), and ~~41~~-from west couch matches the DNA banding patterns obtained from both items 12-Damon Routier's blood and 60-Darlie Routier's blood. *front & back*



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The DNA banding pattern obtained from item 63-stain is similar to the DNA banding patterns obtained from both items 12-Damon Routier's blood and 60-Darlie Routier's blood; however does not meet our criteria for a match.

The DNA banding pattern obtained from item 3T, (96P1269)-pillowcase <sup>Devon</sup> is similar to the DNA banding pattern obtained from item 2 (96P1269) -Devon Routier's blood and does not match the DNA banding pattern obtained from items 12-Damon Routier's blood or 60-Darlie Routier's blood.

The DNA banding pattern obtained from item 3T, (96P1269)-pillowcase is similar to the DNA banding patterns obtained from both items 60-Darlie Routier's blood and 2 (96P1269)-Devon Routier's blood; however does not meet our criteria for a match. ?

**CONCLUSION:**

The probability of selecting an individual at random having the DQ $\alpha$  and Polymarker (PM) types and the DNA banding pattern using the probes YNH24 and MS1 as obtained from items 27-T, sock and 2(96P1269) Devon Routier's autopsy blood is one in more than the world's population (5.5-6.0 billion) based on a Caucasian, Black or Hispanic population.

The frequency of additional DNA typings and/or banding patterns can be provided upon request.

*Carolyn Van Winkle*

Carolyn Van Winkle  
Forensic DNA Analyst

*Joni M. Whitmore*

Joni M. Whitmore  
Forensic DNA Analyst

CVW/JMW/arc

cc: DCME# 96P1269 (JKTP)

# Exhibit B

GeneScreen Report  
December 2, 1996

## GeneScreen




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**LABORATORY REPORT - FORENSIC IDENTITY**


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Referring Agency: Dallas County District Attorney  
 Agency Reference #: F96-39973-MJ  
 Case Victim's Name: Damon and Devon Routier  
 Case Suspect's Name: Darlie Lynn Routier  
 GeneScreen Case #: FOR1879  
 Report Date: December 2, 1996

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**SUMMARY OF RESULTS:**

DNA from numerous evidence specimens was amplified and typed using the Amplitype<sup>™</sup> D1S80 Kit. The D1S80 genotypes observed were compared to D1S80 types obtained from known blood standards to determine the possible contributors of the unknown specimens. For a complete summary of all D1S80 types obtained, see the following table.

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Specimen No. FOR1879 -	Description	<u>D1S80 Results</u>	
		D1S80 Type	Possible Contributor
4934	Damon Routier - blood	24,29	-
4935	Devon Routier - blood	25,28	-
4936	Darlie Routier - blood	24,25	-
4937	Darin Routier - blood	28,29	-
4941-#2	Carpet - blood stain	N/R	-
4941-#4	Carpet - blood stain	N/R	-
4941-#2R	Carpet - blood stain	24,25	Darlie Routier
4941-#4R	Carpet - blood stain	24,25	Darlie Routier
4942-L2	T-shirt - blood stain	24,25	Darlie Routier
4942-L3	T-shirt - blood stain	24,25	Darlie Routier
4942-L4	T-shirt - blood stain	24,25	Darlie Routier
4942-L6	T-shirt - blood stain	24,25	Darlie Routier
4942-L10	T-shirt - blood stain	24,25	Darlie Routier
4972-T8	T-shirt - blood stain	24,25	Darlie Routier
4972-T9	T-shirt - blood stain	24,25(29)	Darlie Routier (Damon)
4972-T10	T-shirt - blood stain	24,25(28)	Darlie Routier (Devon)
4972-T11	T-shirt - blood stain	24,25	Darlie Routier
4972-T12	T-shirt - blood stain	24,25	Darlie Routier
4972-T13	T-shirt - blood stain	24,25	Darlie Routier
4972-T14	T-shirt - blood stain	24,25	Darlie Routier
4972-T15	T-shirt - blood stain	25,28	Devon Routier
4972-T8R	T-shirt - blood stain	(24,25)	Darlie Routier
4972-T9R	T-shirt - blood stain	24,25(29)	Darlie Routier (Damon)
4972-T10R	T-shirt - blood stain	N/R	-
4972-T11R	T-shirt - blood stain	24,25	Darlie Routier
4972-T10R	T-shirt - blood stain	24,25	Darlie Routier
4973-T5	Pillowcase - blood stain	24,29	Damon Routier
4973-T6	Pillowcase - blood stain	24,25	Darlie Routier
4973-T7	Pillowcase - blood stain	24,25	Darlie Routier
4974-Toe	Sock	(24,25)	Darlie Routier
4974-2 - Heel	Sock	N/R	-
4974-3 - Band	Sock	N/R	-
4974-2 - Toe	Sock	N/R	-
4974-2 - Toe	Sock	N/R	-
4974-4	Sock	N/R	-

FOR1879  
Page 2D1S80 Results Con't.

Specimen No. FOR1879 -	Description	D1S80 Type	Possible Contributor
4975-R	Hair (root) - Window	18,33(24)	Sara Jones
4975-S	Hair (shaft) - Window	N/R	-
4988	Vacuum - blood stain	24,25	Darlie Routier
4989-C	Comforter - control	N/R	-
4989-T1	Comforter - blood stain	25,28	Devon Routier
4989-T2	Comforter - blood stain	25,28	Devon Routier
4989-T3	Comforter - blood stain	25,28	Devon Routier
4990-T1	Jeans - blood stain	24,25	Darlie Routier
4990-T2	Jeans - blood stain	24,25	Darlie Routier
4990-T3	Jeans - blood stain	24,25	Darlie Routier
4990-T4	Jeans - blood stain	N/R	-
4991-37	Banister - blood stain	25,28	Devon Routier
4991-39	Banister - blood stain	25,28(24,29)	Devon Routier (Damon)
4991-40	Banister - blood stain	25,28(24,29)	Devon Routier (Damon)
4992-sub	T-shirt - substrate	N/R	-
4993-sub	Jeans - substrate	N/R	-
5011-A	Reeboks - blood stain	24,25	Darlie Routier
5011-B	Reeboks - blood stain	24,25	Darlie Routier
5012-A	Beige pillow - blood stain	24,25	Darlie Routier
5012-B	Beige pillow - blood stain	24,25	Darlie Routier
5013-T1	Sock - blood stains	24,29(28)	Damon Routier
5013-T2	Sock - blood stains	25,28	Devon Routier
5013-T3	Sock - blood stains	25,28	Devon Routier
5013-T4	Sock - blood stains	24,29	Damon Routier
5013-T5	Sock - blood stains	25,28	Devon Routier
5013-T6	Sock - blood stains	N/R	-
5016 (5)	Sara Jones - saliva swab	18,33	-

EVIDENCE RECEIVED:

Accession #	Sample Description	Received as Follows
FOR1879-4934	Damon Routier - blood	Picked up by J. Floyd from Southwestern Institute of Forensic Sciences (SWIFS) on September 18, 1996
FOR1879-4935	Devon Routier - blood	
FOR1879-4936	Darlie Routier - blood	
FOR1879-4937	Darin Routier - blood	
FOR1879-4941	Carpet - blood stains	Hand delivered to J. Floyd by Charles Linch on September 24, 1996
FOR1879-4942	T-shirt - blood stains	
FOR1879-4972	T-shirt - blood stains	Hand delivered to J. Floyd by Carolyn VanWinkle on September 26, 1996
FOR1879-4973	Pillowcase - blood stains	
FOR1879-4974	Sock	
FOR1879-4975	Hair	

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**EVIDENCE RECEIVED CON'T.**

Accession #	Sample Description	Received as Follows
FOR1879-4988	Vacuum - blood stain	Picked up by J. Floyd from SWIFS
FOR1879-4989	Comforter - blood stains	on October 7, 1996
FOR1879-4990	Jeans - blood stains	
FOR1879-4991	Banister (swabbings) - blood stain	
FOR1879-4992	T-shirt - Darlie Routier	
FOR1879-4993	Jeans - Darlie Routier	
FOR1879-5011	Reeboks - blood stain	Hand delivered to J. Floyd by Charles Linch on October 15, 1996
FOR1879-5012	Beige pillow - blood stain	Hand delivered to J. Floyd by Charles Linch on October 17, 1996
FOR1879-5013	Sock - blood stains	Hand delivered to J. Floyd by Carolyn VanWinkle on October 22, 1996
FOR1879-5016	Buccal swabs - Sara Jones	Hand delivered to J. Floyd by Charles Linch on October 28, 1996

**SPECIMEN COMPARISON:**

D1S80 types obtained from numerous evidence specimens were compared to known blood standards from each member of the Routier family. Items 4941-#2 and 4941-#4 (carpet - blood stains) are consistent with Darlie Routier. Items 4942-L2 - L10 and Items 4972-T8, T11, T12, T13, and T14 (T-shirt - blood stain) are all consistent with Darlie Routier. Item 4972-T9 appears to be a mixed specimen with the primary contributor being consistent with Darlie Routier and the minor component being consistent with Damon Routier. Likewise, item 4972-T10 (T-shirt - blood stain) appears to be a mixture with the primary contributor being consistent with Darlie Routier and the minor component with Devon Routier. Subsequent attempts to reproduce findings of a mixture on item T10 gave either no results or a D1S80 type consistent only with Darlie Routier. Specimen 4972-T15 (T-shirt - blood stain) produced a D1S80 type consistent with Devon Routier.

Item 4973-T5 (Pillowcase - blood stain) gave a type consistent with Damon Routier. Items 4973-T6 and T7 (Pillowcase - blood stains) produced D1S80 types consistent with Darlie Routier.

Item 4974-Toe (Sock) yielded a very faint result which was consistent with Darlie Routier. All other specimens from the sock (4974-2 - Heel, -3 - Band, -2 - Toe, and -4) gave no results.

Item 4988 (Vacuum - blood stain) typed as a 24,25 which is consistent with Darlie Routier.

Items 4989-T1, T2, and T3 (Comforter - blood stains) and 4991-37 (banister - blood stain) produced D1S80 types consistent with Devon Routier. Specimens 4991-39 and -40 (banister - blood stain) appear to be mixed specimens with the primary contributor being consistent with Devon Routier and the minor component being consistent with Damon Routier.

Items 4990-T1, T2 and T3 (Jeans - blood stains), 5011-A and B (Reeboks - blood stains), and 5012-A and B (Beige pillow - blood stains) all yielded D1S80 results consistent with Darlie Routier.

FOR1879  
Page 4**SPECIMEN COMPARISON CON'T.**

Specimen 5013-T1 (Sock - blood stains) consists of a very strong major component with a 24,29 D1S80 type and a very weak minor component of 28. The major component is consistent with Damon Routier as the contributor. Due to the fact that a faint fragment at allele 25 might be obscured by the large amount of product present at allele 24, it is not possible to determine the potential contributor of the minor component (28). Items 5013-T2, T3, and T5 (Sock - blood stains) are all consistent with Devon Routier as the contributor. Item 5013-T4 (Sock - blood stains) types as 24,29 and therefore, is consistent with Damon Routier.

In addition, specimen 4975-R (Hair (root) - window) gave a major D1S80 type of 18,33 with a faint fragment present at the 24 allele as well. The major type is consistent with the D1S80 type obtained from Sara Jones (5016 - saliva swab).

**STATISTICAL ANALYSIS:**

The frequency of the D1S80 type of each individual tested in this case is given below:

<u>Name</u>	<u>D1S80 Type</u>	<u>Frequency</u>
Damon Routier	24,29	.0393 or 1 in 25
Devon Routier	25,28	.0058 or 1 in 172
Darlie Routier	24,25	.0348 or 1 in 29
Darin Routier	28,29	.0066 or 1 in 151
Sara Jones	18,33	.0014 or 1 in 714

The results and conclusions described in this report have been reviewed by the individuals below.

Judith I. Floyd  
Forensic Laboratory Supervisor

*Judith I. Floyd*  
*Robert C. Giles*

Robert C. Giles, Ph.D.  
Scientific Director

Sworn and subscribed before me this 2<sup>nd</sup> day of December, 19 96.

*Angela Marie Plata*



# Exhibit C

GeneScreen Report  
January 7, 1997



**GeneScreen** 2600 Stemmons Freeway, Suite 113, Dallas, Texas 75207 214-631-8152 800 DNA-TEST FAX 214-634-3322

**LABORATORY REPORT - FORENSIC IDENTITY**

Referring Agency: Dallas County District Attorney  
 Agency Reference #: F96-39873-MJ  
 Case Victim's Name: Damon and Devon Routier  
 Case Suspect's Name: Darlie Lynn Routier  
 GeneScreen Case #: FOR1879-Addendum  
 Report Date: January 7, 1997

**SUMMARY OF RESULTS:**

DNA from numerous evidence specimens was amplified and typed using the AmpliType™ D1S80 Kit. The D1S80 genotypes observed were compared to D1S80 types obtained from known blood standards to determine the possible contributors of the unknown specimens. For a complete summary of all D1S80 types obtained, see the following table.

<u>D1S80 Results</u>			
Specimen No.	Description	D1S80 Type	Possible Contributor
FOR1879 -			
4934	Damon Routier - blood	24,29	-
4935	Devon Routier - blood	25,28	-
4938	Darlie Routier - blood	24,25	-
4937	Darin Routier - blood	28,29	-
5033	Pubic hair - root	NR	-
5034	Pubic hair - shaft	NR	-
5035	Facial hair	18,28	-
5039	Kitchen - blood stain	24,25	Darlie Routier
5040	Kitchen - blood stain	24,25	Darlie Routier
5041	Wallpaper - blood stain	NR	-
5042	Wallpaper - blood stain	24,25	Darlie Routier
5043	Wallpaper - blood stain	24,25	Darlie Routier
5044	Wallpaper - blood stain	24,25	Darlie Routier
5045	Wallpaper - blood stain	24,25	Darlie Routier
5046	Wallpaper - blood stain	24,25	Darlie Routier
5047	Wallpaper - blood stain	NR	-
5048	Knife - blood stain	24,29	Damon Routier
5049	Knife - blood stain	24,25,29	Darlie, Damon Routier
5050	Knife - blood stain	24,25	Darlie Routier
5051	Knife - blood stain	24,25	Darlie Routier
5052	Hallway - blood stain	24,25	Darlie Routier
5053	Hallway - blood stain	(24,25)	Darlie Routier
5054	Hallway - blood stain	24,25	Darlie Routier
5055	Hallway - blood stain	NR	-
5056	T-shirt - blood stain	24,25	Darlie Routier
5057	T-shirt - blood stain	24,25,29	Darlie, Damon Routier
5058	T-shirt - blood stain	24,25	Darlie Routier
5059	T-shirt - blood stain	24,25(28)	Darlie Routier (Devon)
5060	T-shirt - blood stain	(25)	-
9010/D1-D14*	T-shirt - blood stain(s)	24,25	Darlie Routier

\*all 14 items yielded the same D1S80 result.

Numbers in parenthesis indicate faint typings.



**EVIDENCE RECEIVED:**

Accession #	Sample Description	Received as Follows
FOR1879-5033	Pubic Hair - root	Hand delivered to J. Floyd by Charles Linch on November 21, 1996
FOR1879-5034	Pubic Hair - shaft	
FOR1879-5035	Facial Hair	
FOR1879-5039	Blood stain from kitchen	Hand delivered to J. Floyd by Charles Linch on November 27, 1996
FOR1879-5040	Blood stain from kitchen	
FOR1879-5041	Wallpaper - blood stain	
FOR1879-5042	Wallpaper - blood stain	
FOR1879-5043	Wallpaper - blood stain	
FOR1879-5044	Wallpaper - blood stain	
FOR1879-5045	Wallpaper - blood stain	
FOR1879-5046	Wallpaper - blood stain	
FOR1879-5047	Wallpaper - blood stain	
FOR1879-5048	Knife - blood stain	
FOR1879-5049	Knife - blood stain	
FOR1879-5050	Knife - blood stain	
FOR1879-5051	Knife - blood stain	
FOR1879-5052	Blood stain from hallway	
FOR1879-5053	Blood stain from hallway	
FOR1879-5054	Blood stain from hallway	
FOR1879-5055	Blood stain from hallway	
FOR1879-5056	T-shirt - blood stain	
FOR1879-5057	T-shirt - blood stain	
FOR1879-5058	T-shirt - blood stain	
FOR1879-5059	T-shirt - blood stain	
FOR1879-5060	T-shirt - blood stain	
FOR1879-9010	T-shirt cuttings (D1 - D14)	Hand delivered to J. Floyd by Charles Linch on December 20, 1996

**SPECIMEN COMPARISON:**

D1S80 types obtained from numerous evidence specimens were compared to known blood standards from each member of the Routier family. Items 5039 and 5040 (Kitchen - blood stain), 5042-5046 (Wallpaper - blood stain), 5050 and 5051 (Knife - blood stain), 5052-5054 (Hallway - blood stain), 5056 and 5058 (T-shirt - blood stain) and 9010 (D1-D14/T-shirt - blood stains) all type as a D1S80 24,25 which is consistent with Darlie Routier.

Specimens 5049 (Knife - blood stain) and 5057 (T-shirt - blood stain) appear to be mixed specimens consistent with a mixture of DNA from Darlie and Damon Routier. Specimen 5059 (T-shirt - blood stain) consists of a major component with a 24,25 type and a fainter component with a 28 type. This mixture is consistent with DNA from both Darlie (major component) and Devon Routier (minor component).

Item 5048 (Knife - blood stain) gave a D1S80 type of 24,29 which is consistent with Damon Routier. Item 5060 (T-shirt blood stain) produced a very faint D1S80 type of 25. Other possible D1S80 fragments were too faint to call. The possible contributor of this specimen is therefore inconclusive.

Item 5035 (Facial hair) yielded a D1S80 result of 18,28 which is not consistent with any of the Routier family members tested.

**STATISTICAL ANALYSIS:**

The frequency of the D1S80 type of each individual tested in this case is given below:

Name	D1S80 Type	Frequency
Damon Routier	24,29	.0393 or 1 in 25
Devon Routier	25,28	.0058 or 1 in 172
Darlie Routier	24,26	.0348 or 1 in 29
Darin Routier	28,29	.0066 or 1 in 151

The results and conclusions described in this report have been reviewed by the individuals below.

Judith I. Floyd  
Forensic Laboratory Supervisor

*Judith I. Floyd*

Robert C. Giles, Ph.D.  
Scientific Director

*Robert C. Giles*

Sworn and subscribed before me this 27 day of January, 1997.

*Angela Marie Plata*



# Exhibit D

GeneScreen Letter  
October 20, 2004



October 20, 2004

## ORCHID CELLMARK

2600 Stemmons Freeway  
Suite 133  
Dallas, TX 75207  
214.631.8152  
800.752.2774  
214.634.3322 Fax

**John Rolater**  
Assistant District Attorney  
133 North Industrial Blvd., LB 19  
Dallas, Texas 75207

20271 Goldenrod Lane  
Germantown, MD 20876  
301.428.4980  
800.USA.LABS  
301.428.4877 Fax

**Re: State of Texas vs. Darlie Routier, GeneScreen case #FOR1879**

Dear Mr. Rolater,

1400 Donelson Pike  
Suite A15  
Air Park Center III  
Nashville, TN 37217  
615.360.5000  
888.BLOODTEST  
615.360.5003 Fax

In response to your inquiry concerning the evidence and DNA extracts analyzed by GeneScreen in 1996 for the above-mentioned case, all of the evidence has been returned as documented on the Chain of Custody. Presently there are DNA extracts still remaining in our possession for the extracted samples, some of which are dehydrated but still viable, except for the hair extracts, which were consumed.

If you have any more questions, please call.

Thanks,

Judith I. Floyd  
Manager, Forensics  
Orchid Cellmark Dallas  
214-631-8152

OCT 20 2004

# Exhibit E

Letter from Rowlett P.D.  
October 19, 2004



REECE DANIEL  
Chief of Police  
(972) 412-6216  
Fax: (972) 463-3970

October 19, 2004

John Rolater  
Asst. District Attorney  
Frank Crowley Courts Building  
133 N. Industrial Blvd., LB19  
Dallas, Texas 75207-4399

Re: State v. Darlie Lynn Routier, F96-39973-J Motion for DNA Testing

Dear Mr. Rolater:

Pursuant to your request, this letter is to confirm that the Rowlett Police Department possesses the jeans worn by Darin Routier on the night of the murders in this case (RPD item # 546 which is the same item as SWIFS item #32). We do not possess the Routier's coffee table. The coffee table was not seized as evidence in this case by the Rowlett Police Department.

Sincerely,

A handwritten signature in black ink, appearing to read "David Nabors", is written over a horizontal line.

Lt. David Nabors  
Commander  
Criminal Investigations Division  
Rowlett Police Department

OCT 22 2004

# Exhibit F

## Letter from DPS

# TEXAS DEPARTMENT OF PUBLIC SAFETY

CRIME LABORATORY SERVICE MSC 0460  
P.O. BOX 4143  
AUSTIN, TEXAS 78765-4143  
512/424-2105



THOMAS A. DAVIS, JR.  
DIRECTOR

DAVID MCEATHRON  
ASST. DIRECTOR

October 30, 2003



COMMISSION  
M. COLLEEN MCMUGH  
CHAIRMAN

ROBERT B. HOLT  
JAMES B. FRANCIS, JR.  
COMMISSIONERS

Mr. John Rolater  
Dallas County District Attorney's Office  
133 North Industrial Blvd.  
Lockbox 19  
Dallas, TX 75207-4399

Dear Mr. Rolater:

In response to questions from Ms. Tammy Ardolf of your staff, the Department of Public Safety Crime Laboratory Service does not perform mitochondrial DNA testing. Further, we have no contract with any laboratory that performs mitochondrial testing.

Our laboratories perform only the PCR variety of DNA testing, which is commonly used by forensic laboratories for analysis of nuclear DNA.

If we can be of further service, please feel free to contact us.

Yours truly,

A handwritten signature in cursive script that reads "D. Pat Johnson".

D. Pat Johnson  
Manager of Field Crime Laboratories