

SAN DIEGO POLICE FORENSIC SCIENCE SECTION



QUALITY INCIDENT REPORT

UNIT	SUBJECT	DATE	INCLUDED IN CASE	
Forensic Biology	Staff Contamination Affects	12/20/15	V	
	12/28/15	T		
Narrative: Staff cor	ntamination was identified on the swab	taken from the ha	indle of a knife in	
case 92100288. Thi	is contamination did affect the interpret	tation of the case i	esults.	
Nonconformance:	Contamination of evidence.			
Root Cause: This co	ontamination was internal to DNA and t	he DNA Technical	Manager is	
aware of the results	s and identity of the owner of the DNA	profile. The sampl	e i.d. of 88 is	
based on the old da	tabase that was discarded just as this ca	ase was being com	pleted and the	
profiles being searc	hed.			
Policy Revision	Procedure Change A	dministrative Issu	e 🔾	
and the same of th	According to the control of the cont	On C		
Actions Taken: The DNA. There is a log	Analyst Error N DNA Tech Manager was notified of the gical reason for the presence of the containing tracked for purposes of identifying	aminating profile.	The	
DNA. There is a log contamination is be	DNA Tech Manager was notified of the cical reason for the presence of the containing tracked for purposes of identifying	sample i.d. since i aminating profile.	The .	
Actions Taken: The DNA. There is a log contamination is be	DNA Tech Manager was notified of the control of the	sample i.d. since i aminating profile.	The Date:	
Actions Taken: The DNA. There is a log contamination is be	DNA Tech Manager was notified of the cical reason for the presence of the containing tracked for purposes of identifying	sample i.d. since i aminating profile.	The .	
Actions Taken: The DNA. There is a log contamination is be	DNA Tech Manager was notified of the cical reason for the presence of the containing tracked for purposes of identifying required at this time.	sample i.d. since i aminating profile. potential patterns	The Date:	
Actions Taken: The DNA. There is a log contamination is be Follow Up: Non	DNA Tech Manager was notified of the cical reason for the presence of the containing tracked for purposes of identifying	sample i.d. since i aminating profile. potential patterns	Date: 12-30-15	
Actions Taken: The DNA. There is a log contamination is be Follow Up: Non Quality Manager	DNA Tech Manager was notified of the cical reason for the presence of the containing tracked for purposes of identifying required at this time.	sample i.d. since i aminating profile. potential patterns	Date: 12-30-15	
Actions Taken: The DNA. There is a log contamination is be Follow Up: Non Quality Manager Date Completed:	DNA Tech Manager was notified of the cical reason for the presence of the containing tracked for purposes of identifying required at this time. Crime Laboratory Manager was notified of the containing recommendation of the circumstance of the containing recommendation of the circumstance of the circumstan	sample i.d. since i aminating profile. potential patterns	Date: 12-30-15	
Actions Taken: The DNA. There is a log contamination is be Follow Up: Non Quality Manager	DNA Tech Manager was notified of the cical reason for the presence of the containing tracked for purposes of identifying required at this time. Crime Laboratory No. 2-29-15 Unit Supervisor:	sample i.d. since i aminating profile. potential patterns	The Date:	

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Issuing Authority: Jennifer Shen, Laboratory Manager Quality Incident Report 09/13 Printed Copies are Uncontrolled QA-3

		RTMENT - FORENSIC BILOGY (ATABASE MATCH	UNIT
CASE # 92-10	00288	CHAR	RGE(S) 187
PROPERTY TAG # or INCIDENT #		ITEM # or BAR	CODE <u>2-1</u>
DESCRIPTION OF ITEM	Swab taken from the hand	le of a knife (Item 2)	
STAFF	SAMPLE # ASSOCIATED W/	EVIDENCE 88	
	% CONT	TRIBUTION 16%	
Interpretation of sa	ample affected by presence	of staff member? YES	NO _
ADDITIONAL COMMENT	S		
ndiciated a ratio of 1:13 consistent with the staff as to whether the absen the victim. The handle o	:16:70. The 70% contributo member. The 13% and 1% ce of the staff member wou f the knife was re-swabbed 1:99, with the victim being		m (blood), the 16% was gh for CODIS. It is inconclusive ch on the DNA types foreign to least two people was
ANALYST Krister	Beyen		
	of the item(s) in question, the ϵ	eport or Local Match Detail Report electropherogram, the first page o	
	ical Manager g Criminalist nce Manager	Sim C	Date 12/23/2015 Date 12/29/15

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San Diego Police Department Forensic Biology Section - Evidence Inventory Worksheet

Case #: 92-100288 Item #: 2 Date: 11/3/2015 Analyst: 💢

Description of Evidence

The following were tested against standards with the expected results:

Packaging

Sealed

Brown paper bag

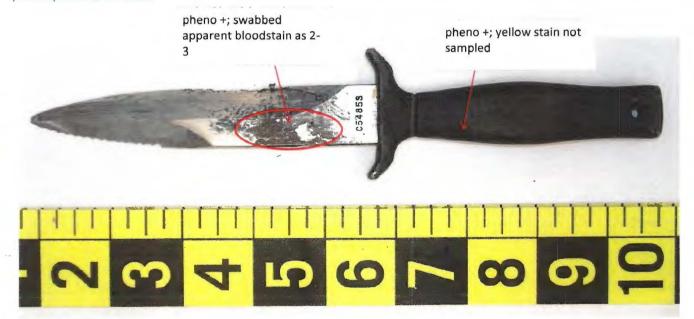
Labeling
(in part)

Item #: 2 Tag #: 592638 Knife w/red stains Inside dumpster on W. side of pkng [sic] lot of 631 E.

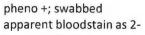
San Ysidro Blvd

Item Name:

One knife with a black handle. Blue apparent dye was observed all over the knife. Brown/yellow staining was observed on the knife blade and handle. Two stains, one on each side of the knife blade, tested positive with a presumptive test for blood and were swabbed as 2-2 and 2-3 (see photos below). A yellowish stain on the knife handle tested positive with a presumptive test for blood. The entire knife handle, avoiding yellow and brown/yellow staining was swabbed as 2-1. This swab tested negative with a presumptive test for blood.



Extracted in AB# AB-KDB. 20151123





Body Fluid Test	Amount	Designated	
Pheno -	1 swab 2-1		
Pheno +	1 swab	2-2	
Pheno +	1 swab	2-3	
Pheno +	15wo.b	2-4	
	Pheno - Pheno + Pheno +	Pheno - 1 swab Pheno + 1 swab Pheno + 1 swab	

Evidence marked directly w/ barcode & initials

Proximal container marked

[✓] Repackaged as original and sealed

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http://STRMIX.esr.cri.nz

STRmix V2.3.06 - User:

KHill

Analysis run: Case number: Sample ID:

Comments:

10 November 2015 15:56

92-100288 2-1 KB

SUMMARY OF INPUT DATA

Kit Used	SDPD GlobalFiler				
Number of Contributors	4				
Input Files	2-1 (92-100288).csv				
Known contributors under Hp					
Known contributors under Hd					

SUMMARY OF CONTRIBUTORS

Contributor		2	3	4
DNA Amounts	3288	1424	32	600
Mixture Proportions	62%	27%	1%	11%
Degradation starting at 80.0bp	6.614 rfu/bp	2.865 rfu/bp	0.173 rfu/bp	1.674 rfu/bp

RUN INFORMATION

Total iterations	6.2797223E7	Gelman-Rubin convergence diagnostic	1.25	
Inter replicate efficiency	PCR 1 - 100.00%	Allele variance	17.30	
Effective sample size	13528.88	Stutter variance	19.60	
Average (log) likelihood	27.58	Seed value	659963	
Mx prior mean	n/a	Mx prior variance	n/a	

Cy > Emilio Raminey

Case: 92-100288 Date: 10 November 2015 15:56 User: KHill

```
STRmix V2.3.06 - User: KHill
Analysis run: 2015-11-10-16-49-38
Deconvolution chosen C:\ProgramData\STRmix\\Results\92-100288-2-1-2015-11-10-15-20-49B\
Comparison of sample(s): 2-1 (92-100288).csv,
to 76 individuals on the database (C:\ProgramData\STRmix\Databases\SDPD_Globalfiler_Database.csv)
LR cutoff set at 100000
Using population database NIST GF Cauc.csv
Mutation rate used 0.0 (only applicable for familial searches)
05 A05 88.hid: 88 - 3.4302311586071014E18
CaseNumber
92-100288
SampleName
    1-Feb
Comments
variance
6.6346, 1.6553
Stuttervariance
7.09,2.4927
detectionThreshold
########
loci
       23
stutter
       0.3
degradation
degmax
      0.01
dropin
      390
dropinParameters
0.0,0.0
dropinFrequency
   0.0012
minVarFactor
       0.1
RWSD
    0.005
ESSthinning
   100000
Saturation
```

LAMBERT 005126

32000

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KB

http://STRMIX.esr.cri.nz

STRmix V2.3.06 - User:

KHill

Analysis run:

12 November 2015 07:31

Case number:
Sample ID:
Comments:

92-100288 2-1 LR ref 88

LR for database reference 88

SUMMARY OF INPUT DATA

Kit Used	SDPD GlobalFiler				
Number of Contributors	4				
Input Files	2-1 (92-100288).csv				
Known contributors under Hp	88.csv				
Known contributors under Hd					

Case: 92-100288 Date: 12 November 2015 07:31 User: KHill

PER LOCUS LIKELIHOOD RATIOS

	NIST_GF_AfAm.csv Theta 0.01b(1.0,1.0)			NIST_GF_Asian.csv Theta 0.02b(1.0,1.0)		NIST_GF_Cauc.csv Theta 0.01b(1.0,1.0)			NIST_GF_Hisp.csv Theta 0.01b(1.0,1.0)			
Locus	Pr(E Hp)	Pr(E Hd)	LR	Pr(E Hp)	Pr(E Hd)	LR	Pr(E Hp)	Pr(E Hd)	LR	Pr(E Hp)	Pr(E Hd)	LR
D3S1358	2.60E-4	1.03E-4	2.52	3.06E-4	1.39E-4	2.21	1.74E-4	4.81E-5	3.61	2.20E-4	7.64E-5	2.88
vWA	1.02E-4	7.06E-5	1.45	6.48E-6	4.98E-6	1.30	4.86E-5	3.65E-5	1.33	9.16E-5	6.70E-5	1.37
D16S539	1.04E-4	5.90E-5	1.76	6.01E-5	2.09E-5	2.88	8.21E-5	6.33E-5	1.30	1.45E-4	8.69E-5	1.67
CSF1PO	3.05E-3	3.11E-4	9.80	2.28E-3	2.20E-4	1.04E1	2.17E-3	1.81E-4	1.20E1	2.65E-3	. 2.48E-4	1.07E1
TPOX	1.08E-3	5.22E-4	2.06	2.67E-3	2.19E-3	1.22	2.30E-3	1.65E-3	1.39	2.00E-3	1.36E-3	1.47
Yindel												
D8S1179	7.09E-5	2.54E-6	2.79E1	3.39E-5	2.81E-6	1.21E1	8.40E-5	4.78E-6	1.76E1	6.79E-5	5.53E-6	1.23E1
D21S11	1.21E-6	2.96E-7	4.09	1.74E-6	4.28E-7	4.08	1.03E-6	1.62E-7	6.33	1.35E-6	2.28E-7	5.91
D18S51	6.55E-6	1.36E-6	4.80	1.54E-5	1.99E-6	7.73	9.97E-6	1.62E-6	6.16	1.15E-5	1.82E-6	6.34
DYS391												
D2S441	1.38E-6	8.28E-7	1.66	1.54E-5	5.75E-6	2.68	8.66E-6	7.61E-6	1.14	2.21E-5	2.04E-5	1.09
D19S433	3.01E-6	2.09E-8	1.44E2	2.45E-6	1.29E-8	1.90E2	9.09E-7	1.52E-8	5.98E1	6.22E-6	5.34E-8	1.16E2
TH01	3.32E-5	2.22E-5	1.49	2.37E-5	7.65E-6	3.10	1.31E-5 ·	1.06E-5	1.25	1.78E-5	1.22E-5	1.46
FGA	1.94E-5	1.36E-6	1.42E1	2.31E-5	2.04E-6	1.13E1	3.28E-5	2.95E-6	1.11E1	2.05E-5	2.29E-6	8.94
D22S1045	3.65E-5	9.90E-6	3.68	9.62E-5	4.54E-5	2.12	3.56E-4	1.77E-4	2.01	4.69E-4	8.91E-5	5.26
D5S818 .	5.80E-8	1.67E-8	3.48	1.05E-6	6.61E-7	1.58	2.41E-7	1.42E-7	1.70	3.78E-6	2.82E-6	1.34
D13S317	1.03E-4	2.27E-5	4.53	1.64E-6	3.51E-7	4.66	1.28E-4	3.06E-5	4.18	6.37E-5	8.30E-6	7.67
D7S820	1.27E-4	1.90E-5	6.70	3.12E-4	6.83E-5	4.56	1.72E-4	3.12E-5	5.52	2.76E-4	5.80E-5	4.77
SE33	4.17E-7	1.33E-9	3.13E2	3.23E-6	5.86E-8	5.50E1	7.71E-7	3.75E-9	2.05E2	6.74E-7	3.03E-9	2.22E2
D10S1248	1.17E-4	2.47E-5	4.73	2.43E-4	6.02E-5	4.03	2.93E-4	8.51E-5	3.45	2.11E-4	6.30E-5	3.36
D1S1656	6.95E-7	8.73E-9	7.96E1	5.13E-7	1.60E-8	3.21E1	1.66E-6	5.80E-8	2.87E1	1.78E-6	4.39E-8	4.06E1
D12S391	1.31E-6	2.12E-7	6.19	3.00E-7	7.26E-8	4.14	2.18E-7	3.34E-8	6.52	5.80E-7	5.52E-8	1.05E1
D2S1338	6.06E-6	2.59E-7	2.34E1	4.67E-5	6.72E-6	6.95	1.31E-5	7.42E-7	1.77E1	2.85E-5	2.57E-6	1.11E1
LR Total			2.41E18			1.04E16			1.24E16			7.14E16
99.0% 1-sided lower HPD			7.84E17			2.38E15			5.50E15			9.79E15

to

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