



U.S. Department
of Transportation
**Federal Aviation
Administration**

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FAA NTSB COUNSEL

Mike Monroney
Aeronautical Center

P.O. Box 25082
Oklahoma City, Oklahoma 73125

Friday, July 26, 2019

National Transportation Safety Board
505 South 336th Street, Suite 540
Federal Way, WA 98003

ACCIDENT # 0093 INDIVIDUAL#: 001 NAME: [REDACTED] MODE: AVIATION
DATE OF ACCIDENT 05/11/2019 DATE RECEIVED 05/16/2019 PUTREFACTION: No
N # NTSB # WPR19FA143 CAMI REF # 201900093001
LOCATION OF ACCIDENT Creswell, OR
SPECIMENS Blood (Cavity), Brain, Gastric, Heart, Kidney, Liver, Lung, Muscle, Spinal Fluid, Spleen, Vitreous

FINAL FORENSIC TOXICOLOGY FATAL ACCIDENT REPORT

CARBON MONOXIDE: The carboxyhemoglobin (COHb) saturation is determined by spectrophotometry with a 10% cut off and confirmed by chromatography.

- SPECIMENS WERE UNSUITABLE FOR ANALYSIS

CYANIDE: The presence of cyanide is screened by Conway Diffusion, when the COHb level is equal to or greater than 10% or upon special request. Cyanides are quantitated by spectrophotometry and confirmed by chromatography. The reporting cutoff for cyanide is 0.25 ug/mL. Normal blood cyanide concentrations are less than 0.15 ug/mL, while lethal concentrations are greater than 3 ug/mL.

- NOT PERFORMED

VOLATILES: The volatile concentrations are determined by headspace gas chromatography at a cut off of 10 mg/dL. Where possible, positive ethanol values are confirmed by Radiative Energy Attenuation.

- NO ETHANOL detected in Blood (Cavity)

DRUGS: Specimens are analyzed using immunoassay, chromatography, mass spectrometry, or spectrophotometry. Concentrations (ug/mL) at or above those in () can be determined for, but not limited to, the following drugs: amphetamines (0.010), opiates (0.010), marihuana (0.001), cocaine (0.020), phencyclidine (0.002), benzodiazepines (0.030), barbiturates (0.060), antidepressants (0.100), and antihistamines (0.020). Drugs and/or their metabolites, that are not impairing or abused, may be reported from the initial tests. See the CAMI Drug Information Web Site for additional information (<http://jag.cami.jccbi.gov/toxicology/>).

- 362 (ng/mL, ng/g) Amphetamine detected in Blood (Cavity) #4
- 403 (ng/mL, ng/g) Amphetamine detected in Blood (Cavity) #3
- 780 (ng/mL, ng/g) Amphetamine detected in Liver
- 416 (ng/mL, ng/g) Amphetamine detected in Lung
- 573 (ng/mL, ng/g) Amphetamine detected in Kidney
- 655 (ng/mL, ng/g) Amphetamine detected in Spleen
- 175 (ng/mL, ng/g) Amphetamine detected in Muscle
- 484 (ng/mL, ng/g) Amphetamine detected in Brain
- 289 (ng/mL, ng/g) Amphetamine detected in Heart
- 254 (ng/mL, ng/g) Amphetamine detected in Vitreous
- 267 (ng/mL, ng/g) Amphetamine detected in Spinal Fluid
- 479 (ng/mL, ng/g) Amphetamine detected in Gastric

Friday, July 26, 2019

CONTINUATION OF REF#: 201900093001 - [REDACTED]

- 4943 (ng/mL, ng/g) Methamphetamine detected in Blood (Cavity) #4
- 3020 (ng/mL, ng/g) Methamphetamine detected in Blood (Cavity) #3
- 7946 (ng/mL, ng/g) Methamphetamine detected in Liver
- 3473 (ng/mL, ng/g) Methamphetamine detected in Lung
- 5352 (ng/mL, ng/g) Methamphetamine detected in Kidney
- 6240 (ng/mL, ng/g) Methamphetamine detected in Spleen
- 1848 (ng/mL, ng/g) Methamphetamine detected in Muscle
- 4268 (ng/mL, ng/g) Methamphetamine detected in Brain
- 3072 (ng/mL, ng/g) Methamphetamine detected in Heart
- 2416 (ng/mL, ng/g) Methamphetamine detected in Vitreous
- 2277 (ng/mL, ng/g) Methamphetamine detected in Spinal Fluid
- 7730 (ng/mL, ng/g) Methamphetamine detected in Gastric


[REDACTED]

c=US, o=U.S. Government, ou=AMC, ou=AMC, cn=RUSSELL J LEWIS
2019.07.26 14:46:01 -05'00'

Russell Lewis, Ph.D., F-ABFT
Supervisor, Forensic Sciences
Bioaeronautical Sci. Research Lab
CAMI, FAA



Oregon

Kate Brown, Governor

Department of State Police
Forensic Laboratory
13309 SE 84th Ave.
Clackamas, OR 97015
State Medical Examiner
971-673-8200
FAX 971-673-8321

July 3, 2019

Lane County Medical Examiner's Office
County Medical Examiner
125 East 8th Street Rm. 400
Eugene, OR 97401

Attention: DR. DANIEL DAVIS

[REDACTED] (DOD: 05/11/19)

Lab No. 19M-001288
Agency Case 190513-439

Analytical Report

Described below is a summary of the analytical results and/or conclusions of the undersigned analyst concerning the referenced exhibit(s) submitted by your agency and received sealed on May 23, 2019 via Nichole Williams.

Exhibit 01 - A grey-stoppered chest cavity blood specimen which is labeled as [REDACTED]

Alcohol/volatiles analysis confirms:

- Ethanol 0.013 g/dL (+/- 0.001 g/dL)
- Acetone - Not Detected

This analysis was requested by Dan Davis, M.D.

Evidence will be returned at the earliest convenience.

[REDACTED]
Michael D. Jackson

Michael D. Jackson, Ph.D.

Pursuant to ORS 40.460 (25), I hereby certify that I retrieved this document directly from the computer system maintained and operated by the Oregon Department of State Police and that this document accurately reflects and is a true copy of the information contained in that computer system. In testimony whereof, I have affixed my signature.



Oregon

Kate Brown, Governor

Department of State Police
Forensic Laboratory
13309 SE 84th Ave.
Clackamas, OR 97015
State Medical Examiner
971-673-8200
FAX 971-673-8321

June 7, 2019

Lane County Medical Examiner's Office
County Medical Examiner
125 East 8th Street Rm. 400
Eugene, OR 97401

Attention: DR. DANIEL DAVIS

[REDACTED] (DOD: 05/11/19)

Lab No. 19M-001288
Agency Case 190513-439

Analytical Report

Described below is a summary of the analytical results and/or conclusions of the undersigned analyst concerning the referenced exhibit(s) submitted by your agency and received sealed on May 23, 2019 via Nichole Williams.

Exhibit 01 - A grey-stoppered chest cavity blood specimen which is labeled as [REDACTED]

Toxicological examination confirms the presence of:

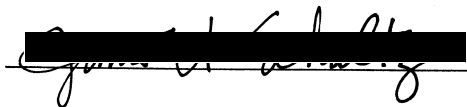
- Methamphetamine 5.3 mg/L ($\pm$ 0.5 mg/L)
- Amphetamine 0.49 mg/L ($\pm$ 0.06 mg/L)

Exhibit 2, a red-stoppered vitreous humor specimen, was not examined.
Refer to other report(s) regarding this case.

This analysis was requested by Dan Davis, M.D.

Evidence will be returned at the earliest convenience.

Pursuant to ORS 40.460 (25), I hereby certify that I retrieved this document directly from the computer system maintained and operated by the Oregon Department of State Police and that this document accurately reflects and is a true copy of the information contained in that computer system. In testimony whereof, I have affixed my signature.


[REDACTED]

Janet L. Schultz, Forensic Scientist