



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

THESE RECORDS MAY BE RELEASABLE UNDER THE FOIA REQUEST 15
DAYS AFTER SIGNATURE DATE UNLESS WE HEAR OTHERWISE FROM
FAA NTSB COUNSEL

Mike Monroney
Aeronautical Center

P.O. Box 25082
Oklahoma City, Oklahoma 73125

Thursday, September 01, 2016

National Transportation Safety Board
45065 Riverside Parkway
Ashburn, VA 20147

ACCIDENT # 0133 INDIVIDUAL#: 002 NAME: Passenger MODE: AVIATION
DATE OF ACCIDENT 04/25/2016 DATE RECEIVED 07/19/2016 PUTREFACTION: No
N # 43576 NTSB # ERA16FA169 CAMI REF # 201600133002
LOCATION OF ACCIDENT Boone, NC
SPECIMENS Blood, Serum

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.

>> NOT PERFORMED

-Notes:

Insufficient specimens 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.

>> NOT PERFORMED

DRUGS: Specimens are analyzed using immunoassay, chromatography, GC/MS, HPLC/MS, or GC/FTIR. 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/>).

>> Midazolam detected in Blood

[Redacted Signature]

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cn=RUSSELL J LEWIS
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Russell Lewis, Ph.D.
TC, FAA, Forensic Toxicology
Research Team CAMI



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

FOR OFFICIAL USE ONLY

Public availability to be determined under 5 U.S.C.552.a

Mike Monroney
Aeronautical Center

P.O. Box 25082
Oklahoma City, Oklahoma 73125

Monday, September 19, 2016

National Transportation Safety Board
45065 Riverside Parkway
Ashburn, VA 20147

ACCIDENT # 0133 INDIVIDUAL#: 001 NAME: Pilot MODE: AVIATION
DATE OF ACCIDENT 04/25/2016 DATE RECEIVED 07/19/2016 PUTREFACTION: No
N # 43576 NTSB # ERA16FA169 CAMI REF # 201600133001
LOCATION OF ACCIDENT Boone, NC
SPECIMENS Blood, Serum, Urine

FINAL FORENSIC TOXICOLOGY NON-FATAL ACCIDENT REPORT

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

>> NOT PERFORMED

-Notes:

Insufficient specimen 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 Urine

DRUGS: Specimens are analyzed using immunoassay, chromatography, GC/MS, HPLC/MS, or GC/FTIR. 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/>).

>> Bisoprolol detected in Blood
>> Ketamine detected in Blood
>> 2.049 (ug/ml, ug/g) Morphine detected in Urine
>> Morphine NOT detected in Blood
>> Norketamine detected in Blood

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cn=RUSSELL J LEWIS
2016.09.22 10:59:28 -05'00'

Monday, September 19, 2016

CONTINUATION OF REF#: 201600133001 — Worsley, II, John F.



Russell Lewis, Ph.D.
TC, FAA, Forensic Toxicology
Research Team CAMI

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cn=RUSSELL J LEWIS
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