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

Wednesday, April 19, 2017

National Transportation Safety Board 45065 Riverside Parkway

Ashburn, VA 20147

 ACCIDENT #
 0029
 INDIVIDUAL#:
 002
 NAME:

 DATE OF ACCIDENT
 02/22/2017
 DATE REC

N# 2452C

DATE RECEIVED 02/24/2017 NTSB # ERA17FA112 MODE: AVIATION PUTREFACTION: No CAMI REF # 201700029002

LOCATION OF ACCIDENT East Haven, CT

SPECIMENS Blood, Serum, Unknown, Urine

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.

>> 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/).

- >> Etomidate detected in Urine
- >> Fentanyl detected in Urine
- >> Fentanyl NOT detected in Blood
- >> Lidocaine detected in Urine

11/

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

c=US, o=U.S. Government, ou=AMC, ou=AMC, cn=RUSSELL J LEWIS 2017.04.20 13:37:10 -05'00' 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

Wednesday, April 19, 2017

National Transportation Safety Board 45065 Riverside Parkway

Ashburn, VA 20147

ACCIDENT # 0029 INDIVIDUAL#: 002 NAME: DATE OF ACCIDENT DATE RECEIVED 02/24/2017 02/22/2017 N# 2452C NTSB # ERA17FA112 LOCATION OF ACCIDENT East Haven, CT

MODE: AVIATION PUTREFACTION: No CAMI REF # 201700029002

SPECIMENS Blood, Serum, Unknown, Urine

CLINICAL REPORT

CLINICAL: Vitreous and Urine are tested for the presence of glucose with reagent strips and by enzymatic spectrophotometric analysis. Postmortem vitreous glucose levels above 125 mg/dL are considered abnormal and postmortem urine levels above 100 mg/dL are considered abnormal. Hemoglobin A1C is analyzed using a latex immunoagglutination inhibition methodology. Hemoglobin A1C blood levels above 6% are considered abnormal. Urine specimens are defined as "dilute" if the creatinine concentration is < 20 mg/dL and the specific gravity is < 1.003. Concentrations of serotonin metabolites 5-hydroxytryptophol (5-HTOL) and 5-hydroxyindole-3-acetic acid (5-HIAA) are measured by LC/MS. A 5-HTOL/5-HIAA ratio value < 15 pmol/nmol is not consistent with ethanol ingestion, while a ratio value > 15 pmol/nmol is indicative of ethanol ingestion.

>> 110 (mg/dl) Glucose detected in Urine >> 5.1 (%) Hemoglobin A1C detected in Blood

Russell Lewis, Ph.D., F-ABFT TC, FAA, Forensic Toxicology **Research Team CAMI**

c=US, o=U.S. Government, ou=AMC, ou=AMC, cn=RUSSELL J LEWIS 2017.04.20 13:36:48 -05'00'



Mike Monroney Aeronautical Center P.O. Box 25082 Oklahoma City, Oklahoma 73125

Thursday, March 30, 2017

National Transportation Safety Board 45065 Riverside Parkway

Ashburn, VA 20147

ACCIDENT # 0029 INDIVIDUAL#: 001 NAME: DATE OF ACCIDENT 02/22/2017 DATE RI

N# 2452C

DATE RECEIVED 02/24/2017 NTSB# ERA17FA112 MODE: AVIATION
PUTREFACTION: No
CAMI REF # 201700029001

LOCATION OF ACCIDENT East Haven, CT

SPECIMENS Bile, Blood (Subclav.), Brain, Gastric, Heart, Kidney, Liver, Lung, Muscle, Spinal Fluid, Spleen, Urine, 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.

>> NO CARBON MONOXIDE detected in Blood (Subclav.)

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 Vitreous

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/).

>> NO DRUGS listed above detected in Urine

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

c=US, o=U.S. Government, ou=AMC, ou=AMC, cn=RUSSELL J LEWIS 2017.04.04 11:01:06 -05'00'