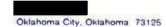




Mike Monroney Aeronautical Center



Federal Aviation
Administration

Monday, March 19, 2018

## National Transportation Safety Board

Denver, CO 80239

ACCIDENT # 0009 INDIVIDUAL#: 001 NAME: MODE: AVIATION

DATE OF ACCIDENT 01/27/2018 DATE RECEIVED 01/31/2018 PUTREFACTION: No

N # 8559U NTSB # CEN18FA088 CAMI REF # 201800009001

LOCATION OF ACCIDENT Williamsport, IN

SPECIMENS Bile, Blood, Brain, Heart, Kidney, Liver, Lung, 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 CARBOXYHEMOGLOBIN detected in Blood

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, 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/).

- · Metoprolol NOT detected in Blood
- · Metoprolol detected in Urine
- · Morphine NOT detected in Blood
- 0.408 (ug/mL, ug/g) Morphine detected in Urine
- Hydromorphone NOT detected in Blood
- 0.013 (ug/mL, ug/g) Hydromorphone detected in Urine
- · Codeine NOT detected in Blood
- 0.028 (ug/mL, ug/g) Codeine detected in Urine
- · Warfarin detected in Blood
- Warfarin detected in Urine



## **CONTINUATION OF REF#: 201800009001**





Russell Lewis, Ph.D., F-ABFT Supervisor, Forensic Sciences Bioaeronautical Sci. Research Lab CAMI, FAA c=US, o=U.S. Government, ou=AMC, ou=AMC, cn=RUSSELL J LEWIS 2018.03.29 10:39:56 -05'00'