



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

██████████
Oklahoma City, Oklahoma 73125

Tuesday, May 22, 2018

National Transportation Safety Board

██████████
Federal Way, WA 98003

ACCIDENT # 0048	INDIVIDUAL#: 001	NAME: ██████████	MODE: AVIATION
DATE OF ACCIDENT 12/29/2017	DATE RECEIVED 03/29/2018	PUTREFACTION: No	
N # 4395R	NTSB # WPR18FA063	CAMI REF # 201800048001	
LOCATION OF ACCIDENT Ogden, UT			
SPECIMENS Blood, Gastric, Liver, 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.

- 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.

- 23 (mg/dL, mg/hg) Ethanol detected in Urine
- NO ETHANOL detected in Blood

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), marijuana (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/>).

- 106.68 (ug/mL, ug/g) Acetaminophen detected in Urine
- 0.078 (ug/mL, ug/g) Morphine detected in Blood
- 30.973 (ug/mL, ug/g) Morphine detected in Urine
- 0.082 (ug/mL, ug/g) Hydrocodone detected in Blood
- 0.524 (ug/mL, ug/g) Hydrocodone detected in Urine
- Inconclusive for Hydromorphone in Blood
- 0.386 (ug/mL, ug/g) Hydromorphone detected in Urine
- 0.024 (ug/mL, ug/g) Dihydrocodeine detected in Blood
- 0.09 (ug/mL, ug/g) Dihydrocodeine detected in Urine
- 3.897 (ug/mL, ug/g) Gabapentin detected in Blood
- 2.918 (ug/mL, ug/g) Gabapentin detected in Liver

CONTINUATION OF REF#: 201800048001 — [REDACTED]

- 0.054 (ug/mL, ug/g) Venlafaxine detected in Blood
- Venlafaxine detected in Liver
- 0.122 (ug/mL, ug/g) Desmethylvenlafaxine (O-) detected in Blood
- Desmethylvenlafaxine (O-) detected in Liver
- Oxymetazoline NOT detected in Blood
- Oxymetazoline detected in Liver
- Tamsulosin detected in Blood
- Tamsulosin detected in Liver
- Terazosin detected in Blood
- Terazosin detected in Liver

c=US, o=U.S. Government, ou=AMC, ou=AMC,
cn=[REDACTED]
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[REDACTED] Ph.D., F-ABFT
Supervisor, Forensic Sciences
Bioaeronautical Sci. Research Lab
CAMI, FAA