



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

Mike Monroney  
Aeronautical Center

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

Tuesday, August 20, 2019

National Transportation Safety Board

██████████  
Denver, CO 80239

ACCIDENT # 0152    INDIVIDUAL#: 001    NAME: ██████████    MODE: AVIATION  
DATE OF ACCIDENT 07/11/2019    DATE RECEIVED 07/16/2019    PUTREFACTION: No  
N # 14968    NTSB # CEN19FA218    CAMI REF # 201900152001  
LOCATION OF ACCIDENT Hawley, MN  
SPECIMENS Bile, Blood, Brain, Gastric, Heart, Kidney, Liver, Lung, Muscle, 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 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/>).

- Salicylate detected in Urine
- 31 (ug/mL, ug/g) Acetaminophen detected in Urine

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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  
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