



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

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Wednesday, September 4, 2019

National Transportation Safety Board
4760 Oakland Street, Suite 500
Denver, CO 80239

ACCIDENT # 0163	INDIVIDUAL#: 002	NAME: [REDACTED]	MODE: AVIATION
DATE OF ACCIDENT 07/28/2019	DATE RECEIVED 08/01/2019	PUTREFACTION: No	
N # 456AG	NTSB # CEN19FA238	CAMI REF # 201900163002	
LOCATION OF ACCIDENT Gainesville, TX			
SPECIMENS Bile, Blood (Heart), 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 (Heart)

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 (Heart)

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://jaq.cami.iccbi.gov/toxicology/>).

- 1241 (ng/mL, ng/g) Ketamine detected in Blood (Heart)
- 1172 (ng/mL, ng/g) Ketamine detected in Urine
- 475 (ng/mL, ng/g) Norketamine detected in Blood (Heart)
- 583 (ng/mL, ng/g) Norketamine detected in Urine
- 4271 (ng/mL, ng/g) Midazolam detected in Blood (Heart)
- Midazolam detected in Urine
- Lorazepam detected in Blood (Heart)
- Lorazepam detected in Urine
- 26 (ng/mL, ng/g) Morphine detected in Blood (Heart)
- 1910 (ng/mL, ng/g) Morphine detected in Urine
- 180 (ng/mL, ng/g) Fentanyl detected in Blood (Heart)
- 6.5 (ng/mL, ng/g) Fentanyl detected in Urine

CONTINUATION OF REF#: 201900163002 — Norris, Francesca N.

- 2.2 (ng/mL, ng/g) Norfentanyl detected in Blood (Heart)
- 1.4 (ng/mL, ng/g) Norfentanyl detected in Urine
- Etomidate detected in Blood (Heart)
- Etomidate detected in Urine



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CAMI, FAA

c=US, o=U.S. Government, ou=AMC, ou=AMC,
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