

Tuesday, July 30, 2019

National Transportation Safety Board
45065 Riverside Parkway
Ashburn, VA 20147

ACCIDENT # 0070	INDIVIDUAL#: 001	NAME: [REDACTED]	MODE: AVIATION
DATE OF ACCIDENT 04/13/2019		DATE RECEIVED 04/17/2019	PUTREFACTION: Yes
	N # 4890L	NTSB # CEN19FA120	CAMI REF # 201900070001
LOCATION OF ACCIDENT Lake, MS			
SPECIMENS	Blood, Blood (Cavity), Gastric, Heart, Kidney, Liver, Lung, Muscle, Spleen		

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 (Cavity)

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.

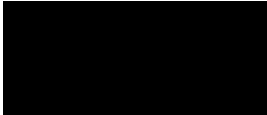
- NO ETHANOL detected in Blood (Cavity)

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/>).

- 103 (ng/mL, ng/g) Amphetamine detected in Blood (Cavity)
- 215 (ng/mL, ng/g) Amphetamine detected in Liver
- 431 (ng/mL, ng/g) Amphetamine detected in Lung
- 81 (ng/mL, ng/g) Amphetamine detected in Kidney
- 103 (ng/mL, ng/g) Amphetamine detected in Spleen
- 18 (ng/mL, ng/g) Amphetamine detected in Muscle
- 62 (ng/mL, ng/g) Amphetamine detected in Heart
- 79 (ng/mL, ng/g) Amphetamine detected in Gastric
- 827 (ng/mL, ng/g) Methamphetamine detected in Blood (Cavity)
- 1175 (ng/mL, ng/g) Methamphetamine detected in Liver
- 3230 (ng/mL, ng/g) Methamphetamine detected in Lung
- 686 (ng/mL, ng/g) Methamphetamine detected in Kidney
- 735 (ng/mL, ng/g) Methamphetamine detected in Spleen
- 190 (ng/mL, ng/g) Methamphetamine detected in Muscle
- 593 (ng/mL, ng/g) Methamphetamine detected in Heart
- 760 (ng/mL, ng/g) Methamphetamine detected in Gastric

CONTINUATION OF REF#: 201900070001 — Stanford, Jr., Walter B.

- 79 (ng/mL, ng/g) Naloxone detected in Blood (Cavity)
- 16 (ng/mL, ng/g) Naloxone detected in Liver
- 2 (ng/mL, ng/g) Naloxone detected in Lung
- 21 (ng/mL, ng/g) Naloxone detected in Kidney
- 4 (ng/mL, ng/g) Naloxone detected in Spleen
- 9 (ng/mL, ng/g) Naloxone detected in Gastric
- 1046 (ng/mL, ng/g) Buprenorphine detected in Blood (Cavity)
- 117 (ng/mL, ng/g) Buprenorphine detected in Liver
- 37 (ng/mL, ng/g) Buprenorphine detected in Lung
- 275 (ng/mL, ng/g) Buprenorphine detected in Kidney
- 62 (ng/mL, ng/g) Buprenorphine detected in Spleen
- 3 (ng/mL, ng/g) Buprenorphine detected in Muscle
- 19 (ng/mL, ng/g) Buprenorphine detected in Heart
- 209 (ng/mL, ng/g) Buprenorphine detected in Gastric
- 318 (ng/mL, ng/g) Norbuprenorphine detected in Blood (Cavity)
- 190 (ng/mL, ng/g) Norbuprenorphine detected in Liver
- 233 (ng/mL, ng/g) Norbuprenorphine detected in Lung
- 115 (ng/mL, ng/g) Norbuprenorphine detected in Kidney
- 77 (ng/mL, ng/g) Norbuprenorphine detected in Spleen
- Norbuprenorphine detected in Muscle
- 31 (ng/mL, ng/g) Norbuprenorphine detected in Heart
- 49 (ng/mL, ng/g) Norbuprenorphine detected in Gastric



Russell Lewis, Ph.D., F-ABFT
Supervisor, Forensic Sciences
Bioaeronautical Sci. Research Lab
CAMI, FAA