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 P O. Box 25082 Oklahoma City, Oklahoma 73125

Tuesday, April 9, 2019

National Transportation Safety Board 505 South 336th Street, Suite 540

Federal Way, WA 98003

ACCIDENT # 0028 INDIVIDUAL#: 001 NAME: MODE: AVIATION

DATE OF ACCIDENT 01/25/2019 DATE RECEIVED 02/13/2019 PUTREFACTION: No

N# 1332J NTSB# WPR19FA077 CAMI REF # 201900028001

LOCATION OF ACCIDENT Mt Hood, OR

SPECIMENS Blood (Cavity), Brain, Gastric, Heart, Kidney, Liver, Lung, Muscle, Spleen, 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 (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/).

- Delta-9-THC NOT detected in Blood (Cavity)
- Delta-9-THC detected in Urine
- 11-Hydroxy-Delta-9-THC NOT detected in Blood (Cavity)
- 20.3 (ng/mL, ng/g) 11-Hydroxy-Delta-9-THC detected in Urine
- 3 (ng/mL, ng/g) Carboxy-Delta-9-THC detected in Blood (Cavity)
- 86.1 (ng/mL, ng/g) Carboxy-Delta-9-THC detected in Urine
- 368 (ng/mL, ng/g) Oxycodone detected in Blood (Cavity)
- 7993 (ng/mL, ng/g) Oxycodone detected in Urine
- Oxymorphone detected in Blood (Cavity)
- 14747 (ng/mL, ng/g) Oxymorphone detected in Urine
- Mitragynine detected in Blood (Cavity)
- · Mitragynine detected in Urine



CONTINUATION OF REF#: 201900028001

- 7-Hydroxymitragynine NOT detected in Blood (Cavity)
- 7-Hydroxymitragynine detected in Urine
- Modafinil detected in Blood (Cavity)
- Modafinil detected in Urine
- Metoclopramide NOT detected in Blood (Cavity)
- Metoclopramide detected in Urine



c=US, o=U.S. Government, ou=AMC, ou=AMC, cn=RUSSELL J LEWIS 2019.04.16 15:41:24 -05'00'

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