



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

Mike Monroney
Aeronautical Center

P.O. Box 25082
Oklahoma City, Oklahoma 73125

Wednesday, February 24, 2016

National Transportation Safety Board
505 South 336th Street, Suite 540
Federal Way, WA 98003

ACCIDENT #	0274	INDIVIDUAL#:	001	NAME:	[REDACTED]	MODE:	AVIATION
DATE OF ACCIDENT	11/18/2015	DATE RECEIVED	12/18/2015	PUTREFACTION:	No		
	N # 711BE	NTSB #	WPR16FA029	CAMI REF #	201500274001		
LOCATION OF ACCIDENT	Carlsbad, CA						
SPECIMENS	Bile, Blood (Heart), Brain, Gastric, Heart, Kidney, Liver, Lung, Muscle, Spinal Fluid, 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 CARBON MONOXIDE 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 Vitreous

DRUGS: Specimens are analyzed using immunoassay, chromatography, GC/MS, HPLC/MS, or GC/FTIR. 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/>).

>> Alpha-hydroxyalprazolam NOT detected in Blood (Heart)
>> 0.044 (ug/mL, ug/g) Alpha-hydroxyalprazolam detected in Urine
>> Amlodipine detected in Liver
>> Amlodipine detected in Blood (Heart)
>> Diphenhydramine detected in Liver
>> 0.538 (ug/ml, ug/g) Diphenhydramine detected in Blood (Heart)
>> Rosuvastatin detected in Liver
>> Rosuvastatin detected in Blood (Heart)
>> Salicylate detected in Urine
>> Valsartan detected in Liver
>> Valsartan detected in Blood (Heart)

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CONTINUATION OF REF#: 201500274001 - [REDACTED]

[REDACTED]
c=US, o=U.S. Government, ou=AMC, ou=AMC,
cn=RUSSELL J LEWIS
2016.03.08 09:41:31 -06'00'

Russell Lewis, Ph.D.
TC, FAA, Forensic Toxicology
Research Team CAMI