



U.S. Department of Transportation
Federal Aviation Administration

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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P.O. Box 25082
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Tuesday, September 15, 2015

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

ACCIDENT #	0124	INDIVIDUAL#:	002	NAME:	Mitchell, Jeffrey R.	MODE:	AVIATION
DATE OF ACCIDENT	07/04/2015			DATE RECEIVED	07/07/2015	PUTREFACTION:	Yes
		N #	10497	NTSB #	CEN15FA291	CAMI REF #	201500124002
LOCATION OF ACCIDENT	Portland, TX						
SPECIMENS	Bile, Blood, Blood (Femoral), 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 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.

>> 153 (mg/dL, mg/hg) Ethanol detected in Blood (Femoral)
>> 159 (mg/dL, mg/hg) Ethanol detected in Urine
>> 160 (mg/dL, mg/hg) Ethanol detected in Vitreous
>> N-Propanol detected in Urine

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/>).

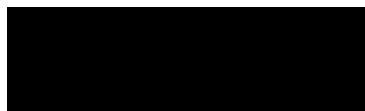
>> Anhydroecgonine Methyl Ester NOT detected in Blood (Heart)
>> Anhydroecgonine Methyl Ester detected in Urine
>> 0.133 (ug/ml, ug/g) Benzoylecgonine detected in Blood (Heart)
>> 2.091 (ug/ml, ug/g) Benzoylecgonine detected in Urine
>> Dihydrocodeine NOT detected in Blood (Femoral)
>> 0.019 (ug/mL, ug/g) Dihydrocodeine detected in Urine
>> Ecgonine Methyl Ester detected in Urine
>> Ecgonine Methyl Ester detected in Blood (Heart)
>> 0.085 (ug/ml, ug/g) Hydrocodone detected in Urine



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CONTINUATION OF REF#: 201500124002 — Mitchell, Jeffrey R.

>> 0.021 (ug/ml, ug/g) Hydrocodone detected in Blood (Femoral)
>> Hydromorphone NOT detected in Blood (Femoral)
>> 0.026 (ug/mL, ug/g) Hydromorphone detected in Urine



c=US, o=U.S. Government, ou=AMC, ou=AMC,
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Russell Lewis, Ph.D.
TC, FAA, Forensic Toxicology
Research Team CAMI