



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

Mike Monroney
Aeronautical Center

P.O. Box 25082
Oklahoma City, Oklahoma 73125

Friday, February 27, 2015

National Transportation Safety Board
45065 Riverside Parkway
Ashburn, VA 20147

ACCIDENT #	0021	INDIVIDUAL#:	001	NAME:	Geng, Gregory T.	MODE:	AVIATION
DATE OF ACCIDENT	01/22/2015	DATE RECEIVED	02/03/2015	PUTREFACTION:	Yes		
	N # 465JA	NTSB #	ERA15FA109	CAMI REF #	201500021001		
LOCATION OF ACCIDENT	Lakeland, FL						
SPECIMENS	Kidney, Liver, Lung, Muscle						

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.

>> NOT PERFORMED

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.

>> 112 (mg/dL, mg/hg) Ethanol detected in Muscle
>> 17 (mg/dL, mg/hg) Ethanol detected in Liver
>> N-Butanol detected in Muscle
>> N-Propanol detected in Muscle

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/>).

>> NO DRUGS listed above detected in Liver



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

- CONFIDENTIAL -

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Department of Pathology and Laboratory Medicine

Gainesville, FL

Phone:

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Page: 1 of 1

LAB NUMBER: R15-00239
NAME: Geng, Gregory
CASE NO: FA15-050
RECEIPT DATE: 02/04/2015

Forensic Toxicology Laboratory

SUBMITTER: Dr. Stephen J. Nelson, District 10 Medical Examiners Office (Polk), Winter Haven, FL

SPECIMENS RECEIVED:

- A. Stomach Contents
- B. Liver
- C. Kidney
- D. Muscle
- E. Lung

RECEIVED

MAY 06 2015

DISTRICT 10
MEDICAL EXAMINER

	<u>Analyte</u>	<u>Qualitative Results</u>	<u>Quantitative Results</u>
VOLATILES			
B. Liver	Ethanol	Positive	32 mg/100 g
COMPREHENSIVE DRUG SCREEN			
B. Liver	None Detected		
SPECIAL REQUESTS			
B. Liver	Carboxyhemoglobin	See Note	

Note: Specimen is unsuitable for Carboxyhemoglobin analysis by co-oximetry; Analysis by microdiffusion indicates normal percent Carboxyhemoglobin.

RESULT CERTIFICATION:

Results Certified by:

Bruce A. Goldberger, Ph.D., DABFT
Director of Toxicology & Professor

R1500239 - 01/ BG
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05/06/15 [0001,0003]