

Mike Monroney Aeronautical Center P.O. Box 25082 Oklahoma City, Oklahoma 73125

No

201400258001

MODE: AVIATION

CAMI REF #

PUTREFACTION:

Wednesday, December 10, 2014

National Transportation Safety Board 4760 Oakland Street, Suite 500

Denver, CO 80239

 ACCIDENT #
 0258
 INDIVIDUAL#:
 001
 NAME:
 GOLDSTEIN, MARK A.

 DATE OF ACCIDENT
 10/30/2014
 DATE RECEIVED
 11/05/2014

 N #
 52SZ
 NTSB #
 CEN15FA034

LOCATION OF ACCIDENT Wichita, KS

SPECIMENS Bile, 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.

>> 35 (%) 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.

>> NO CYANIDE detected in Blood (Heart)

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), 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/).

- >> Buspirone detected in Urine
- >> Buspirone detected in Blood (Heart)
- >> Citalopram detected in Urine
- >> Citalopram detected in Blood (Heart)
- >> N-Desmethylcitalopram detected in Urine
- >> N-Desmethylcitalopram detected in Blood (Heart)

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