



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

Mike Monroney
Aeronautical Center

P. O. Box 25082
Oklahoma City, Oklahoma 73125

Thursday, September 10, 2015

National Transportation Safety Board
222 West 7th Avenue, Rm 216, Box 11
Anchorage, AK 99513

ACCIDENT # 0144 **INDIVIDUAL#:** 001 **NAME:** Zagula, Michael J. **MODE:** AVIATION
DATE OF ACCIDENT 07/19/2015 **DATE RECEIVED** 07/24/2015 **PUTREFACTION:** No
 N # 734VB **NTSB #** ANC15FA050 **CAMI REF #** 201500144001
LOCATION OF ACCIDENT Trapper Creek, AK
SPECIMENS Bile, Blood, 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.

>> NOT PERFORMED

-Notes:

Insufficient specimen for analysis.

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/>).

>> 0.057 (ug/ml, ug/g) Diazepam detected in Blood
>> 0.093 (ug/ml, ug/g) Nordiazepam detected in Urine
>> 0.04 (ug/ml, ug/g) Nordiazepam detected in Blood
>> Oxazepam NOT detected in Blood
>> 0.114 (ug/ml, ug/g) Oxazepam detected in Urine
>> Temazepam detected in Urine
>> Temazepam NOT detected in Blood
>> 0.0028 (ug/ml, ug/g) Tetrahydrocannabinol (Marihuana) detected in Blood
>> 0.1487 (ug/ml, ug/g) Tetrahydrocannabinol Carboxylic Acid (Marihuana) detected in Urine

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CONTINUATION OF REF#: 201500144001 — Zagula, Michael J.

>> 0.0096 (ug/ml, ug/g) Tetrahydrocannabinol Carboxylic Acid (Marihuana) detected in Blood

Russell Lewis, Ph.D.
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Research Team CAMI