



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

Administration

Friday, October 29, 2010

**National Transportation Safety Board** 

2001 Route 46, Suite 504

Parsippany, NJ 07054

ACCIDENT # 0227

08/07/2010

INDIVIDUAL#: 001 NAME: KOKOLIS, THEODORE P.

MODE: AVIATION

DATE OF ACCIDENT

**DATE RECEIVED** 09/15/2010

PUTREFACTION: Yes

N # 28MR

NTSB # ERA10FA404

CAMI REF # 201000227001

LOCATION OF ACCIDENT

Saltsburg, PA

**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. Positive 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: Immunoassay and/or chromatography are used to screen for drugs. GC/Mass Spec, HPLC/Mass Spec, or GC/FTIR is used to confirm most positive results. Concentrations (ug/mL) at or below 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). For comprehensive information concerning all drugs detected by the laboratory, see the CAMI Drug Information Web Site http://jag.cami.jccbi.gov/toxicology/.

>> NO DRUGS listed above detected in Urine

2010.11.17 11:08:54 -06'00'

Dennis V. Canfield, Ph. D. Manager, Bioaeronautical Sci.

Research Lab CAMI



#### **NMS Labs**

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3701 Welsh Road, PO Box 433A, Willow Grove, PA 19090-0437 Phone: (215) 657-4900 Fax: (215) 657-2972 e-mail: nms@nmslabs.com

Robert A. Middleberg, PhD, DABFT, DABCC-TC, Laboratory Director

**Corrected Report** 

**Report Issued** 08/25/2010 10:00 **Last Report Issued** 08/16/2010 13:00

To: 10192

Westmoreland County Coroner's Office Attn: Kenneth A. Bacha/Ste.602 Courthouse Sq. 2 North Main St Greensburg, PA 15601 **Patient Name** 

KOKOLIS, THEODORE

Patient ID Chain

CHW10-201 11198132

Chain Age

66

Gender Workorder 66 Male

10177792

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**Positive Findings:** 

**None Detected** 

See Detailed Findings section for additional information

#### **Testing Requested:**

Analysis Code	Description		
1005B	Carbon Monoxide Profile, Blood (Forensic)		
8051B	Postmortem Toxicology - Basic, Blood		

### **Tests Not Performed:**

Part or all of the requested testing was unable to be performed. Refer to the Analysis Summary and Reporting Limits section for details.

#### **Specimens Received:**

1000

ID	Tube/Container	Volume/ Mass	Collection Date/Time	Matrix Source	Miscellaneous Information
001	Gray Top Tube	8.5 mL	08/08/2010 10:30	Cardiac Blood	
002	Gray Top Tube	8 mL	08/08/2010 10:30	Cardiac Blood	
003	Red Top Tube	1 mL	08/08/2010 10:30	Bile	
004	Red Top Tube	9 mL	08/08/2010 10:30	Urine	•

All sample volumes/weights are approximations.

Specimens received on 08/11/2010.

The undersigned certifies that this is a RED INK STAMP COPY
of the original from the
Westmoreland County Coroner's Office

DO NOT DUPLICATE



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Workorder

10177792

Chain Patient ID 11198132 CHW10-201

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**Detailed Findings:** 

Examination of the specimen(s) submitted did not reveal any positive findings of toxicological significance by procedures outlined in the accompanying Analysis Summary.

#### Sample Comments:

001

\* Patient Name modified 08/24/10. Previous value: DOE, JOHN #1

001

\* Age modified 08/24/10. Previous value: Not Given

Chain of custody documentation has been maintained for the analyses performed by NMS Labs.

Unless alternate arrangements are made by you, the remainder of the submitted specimens will be discarded six (6) weeks from the date of this report; and generated data will be discarded five (5) years from the date the analyses were performed.

Workorder 10177792 was electronically signed on 08/25/2010 09:10 by:

JAMON 13. COMMENT

Susan Crookham, Certifying Scientist

## **Analysis Summary and Reporting Limits:**

Acode 1005B - Carbon Monoxide Profile, Blood (Forensic) - Cardiac Blood

-Analysis by Microdiffusion (MD) for:

Compound

Rpt. Limit

Compound

Rpt. Limit

Carboxyhemoglobin

N/A

Testing Not Performed: Test was canceled due to [Interfering Substance].

-Analysis by Spectrophotometry (SP) for:

Compound

Rpt. Limit

Compound

Rpt. Limit

Carboxyhemoglobin

N/A

Testing Not Performed: Test was canceled due to [Interfering Substance].

Acode 8051B - Postmortem Toxicology - Basic, Blood - Cardiac Blood

-Analysis by Enzyme-Linked Immunosorbent Assay (ELISA) for:

Compound Rpt. Limit Compound Rpt. Limit **Amphetamines** 20 ng/mL Methadone 25 ng/mL **Barbiturates** 0.040 mcg/mL **Opiates** 20 ng/mL Benzodiazepines 100 ng/mL Phencyclidine 10 ng/mL Cannabinoids Propoxyphene 10 ng/mL 50 ng/mL

Cocaine / Metabolites

20 ng/mL

-Analysis by Enzyme-Linked Immunosorbent Assay (ELISA) for:

Compound

Buprenorphine

Rpt. Limit 0.50 ng/mL

Compound

Rpt. Limit

**v.7** 



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Workorder

10177792 11198132

Chain Patient ID

CHW10-201

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# **Analysis Summary and Reporting Limits:**

-Analysis by Headspace Gas Chromatography (GC) for:

Compound	Rpt. Limit	Compound	Rpt. Limit
Acetone	1.0 mg/dL	Isopropanol	1.0 mg/dL
Ethanol	10 mg/dL	Methanol	5.0 mg/dL