



July 18, 2016

Tetra Tech
3945 Lakefield Court
Suwanee, GA 30024

CLIENT PROJECT: 103X902701052.001F
CEI LAB CODE: T16-1166

Dear Customer:

Enclosed are asbestos analysis results for TEM air samples received at our laboratory on July 18, 2016. The samples were analyzed for asbestos using transmission electron microscopy (TEM) per NIOSH 7402 Method.

The current OSHA 8-hour time weighted average permissible exposure limit (PEL) for asbestos is 0.1 f/cc and the 30 minutes excursion limit is 1 f/cc. The detection limit for the NIOSH 7402 method is one confirmed asbestos fiber above 95% expected mean blank value.

Thank you for your business and we look forward to continuing good relations. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,

A handwritten signature in black ink, appearing to read "Tianbao Bai", written in a cursive style.

Tianbao Bai, Ph.D., CIH
Laboratory Director



ASBESTOS ANALYTICAL REPORT
By: Transmission Electron Microscopy

Prepared for

Tetra Tech

CLIENT PROJECT: 103X902701052.001F

CEI LAB CODE: T16-1166

TEST METHOD: Air NIOSH 7402

REPORT DATE: 07/18/16

TEL: 866-481-1412

www.ceilabs.com



ASBESTOS AIR ANALYSIS

By: TRANSMISSION ELECTRON MICROSCOPY

Client: Tetra Tech
3945 Lakefield Court
Suwanee, GA 30024

CEI Lab Code: T16-1166
Date Received: 07-18-16
Date Analyzed: 07-18-16
Date Reported: 07-18-16

Project: 103X902701052.001F

TEM AIR NIOSH 7402

Client ID Lab ID	Volume (Liters)	PCM f/cc	Asbestos Type	Asbestos Fibers	Asbestos %	Asbestos f/cc
ODH-AA-L01 -071516 T52272	4138.56	0.00095	None Detected	0	0	<0.00095
ODH-AA-L02 -071516 T52273	4072.84	0.0013	None Detected	0	0	<0.00065
ODH-AA-L03 -071516 T52274	4046.08	0.0013	None Detected	0	0	<0.0013
ODH-AA-L04 -071516 T52275	4149.20	0.00089	None Detected	0	0	<0.00089
ODH-AA-L05 -071516 T52276	4085.32	0.00072	None Detected	0	0	<0.00072
ODH-AA-L06 -071516 T52277	4194.75	0.00064	None Detected	0	0	<0.00064



LEGEND: f/cc = fibers/cubic centimeter

METHOD: NIOSH 7402

Limit of Detection: 1 confirmed asbestos fiber above 95% of expected mean blank value

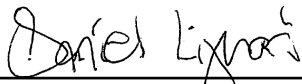
REGULATORY LIMIT: OSHA Excursion Limit (EL) is 1.0 fibers per cc based on a 30 minute sample; OSHA Permissible Exposure Limit (PEL) is 0.10 fibers per cc based on 8 hour TWA

ANALYTICAL EQUIPMENT: JEOL Electron Microscope (JEM-1200 EXII)
NORAN EDS System 7 (NSS112E)

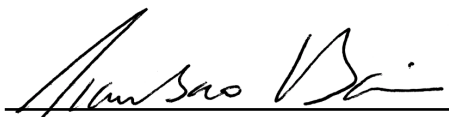
This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by CEI Labs, Inc. CEI Labs makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client.

No Field Blanks were submitted for project T16-1166.

ANALYST:


Daniel Liguori

APPROVED BY:


Tianbao Bai, Ph.D., CIH
Laboratory Director

MATERIAL ANALYTICAL SERVICES, INC.
3945 Lakefield Court, Suwanee, GA 30024
Tel: (770) 866-3200 (800) 421-8451
www.mastest.com

CHAIN OF CUSTODY FORM FOR AIR SAMPLE ANALYSIS

Client name: Tetra Tech EM, Inc.

Contact: Paul Prys

Project Name/ #: 103X902701052.001F

Address: 1955 Evergreen Blvd, Bldg 200, Suite 300

Phone: 404-849-7136

Samplers Name: Paul Prys

Duluth, GA 30096

Fax: 678-775-3138

Sampling Date: 7/15/16

SAMPLE ID	SAMPLE DESCRIPTION (e.g. Locations, Name, etc)	PUMP NUMBER	TIME			FLOW RATE			VOLUME	ANALYSIS REQUESTED/REMARKS
			START	END	TOTAL	INITIAL	FINAL	AVG		
ODH-AA-L01-071516	Location 1	980070	0804	1516	432	9.42	9.53	9.58	4138.56	Analyze samples by NIOSH Method 7402 for 24-hr TAT. Please e-mail results to the following: jessica.vickers@tetrattech.com and paul.prys@tetrattech.com.
ODH-AA-L02-071516	Location 2	980065	0730	1447	437	9.55	9.09	9.32	4072.84	
ODH-AA-L03-071516	Location 3	980077	0733	1449	436	9.50	9.06	9.28	4046.08	
ODH-AA-L04-071516	Location 4	980066	0741	1501	440	9.60	9.26	9.43	4149.20	
ODH-AA-L05-071516	Location 5	980079	0752	1508	436	9.59	9.15	9.37	4085.32	
ODH-AA-L06-071516	Location 6	980063	0817	1522	425	9.66	10.08	9.87	4194.75	
ODH-FB01-071516	Field Blank	NA	NA	NA	NA	NA	NA	NA	NA	
ODH-FB02-071516	Field Blank	NA	NA	NA	NA	NA	NA	NA	NA	

Turnaround Time: Normal (5 days): ☒ 3 Days Rush: ☐ 2 Days Rush: ☐ Next Day Rush: ☐

Comments: _____

Relinquished By:	<u>Paul Prys</u>	Date/Time:	<u>7/15/16 @ 1615</u>
Received By:	<u>AL</u>	Date/Time:	<u>7/18 @ 9:30</u>
Relinquished By:		Date/Time:	
Received By:		Date/Time:	

Delivered Direct to Lab: ☐ Shipped: ☒

Method of Shipment: FedEx

Lab Recipient: Sample Receiving

Date: 7/15/16