

**Gilsenan, Michael**

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**From:** Theodorellys, Penny  
**Sent:** Tuesday, April 15, 2003 3:36 PM  
**To:** Nace.Charles@epamail.epa.gov  
**Cc:** Gilsenan, Michael; Radhakrishnan, Krish  
**Subject:** FW: Silica Data

Let me know where we are. I am receiving messages, I need to reply to soon. Thanks.

-----Original Message-----

**From:** Andrew Gasparro [<mailto:Agasparro@JLCEnvironmental.com>] <<mailto:Agasparro@JLCEnvironmental.com>>  
**Sent:** Tuesday, April 15, 2003 3:16 PM  
**To:** Theodorellys, Penny  
**Subject:** FW: Silica Data



040305286JLC.pdf

Penny,

Sorry for the delay, here are the Silica Results.

I will be dropping off the final report later this week, I will call before we come over to see you.

Thank you for all of your help on this project.

Thank you,

Andrew L. Gasparro  
Vice President  
JLC Environmental Consultants, Inc.  
200 Park Ave. S. Suite 1001  
New York, NY 10003  
212-420-8119  
212-420-6092 Fax  
917-612-4803 Cell

**EMSL Analytical, Inc.**  
107 Haddon Ave., Westmont, NJ 08108

**EMSL**

**Order ID:040305286**

Attn: Andrew/ M.N. Khan  
JLC Environmental Consultants, Inc.  
200 Park Ave South, Suite 1001  
New York, NY 10003  
Fax: 212-420-6092  
Project: #03-2744/NYCDEP—114 Liberty ST  
Report Date: 04/14/03

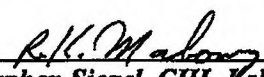
Customer ID: JLCC50  
Customer PO:  
Date Received: 04/05/03 12:23 AM  
EMSL Order: 040305286  
EMSL Project ID:  
Date Analyzed: 04/14/03

**Silica, Crystalline Analysis Performed X-Ray Diffraction (XRD)  
Modified NIOSH Method 7500, Issue 3, 1/15/98**

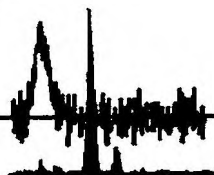
| Sample ID | Identification  | Particle ID | Volume (L) | Respirable Dust    |                                   | Airborne Silica    |                                   |          | Analytical Sensitivity (mg/m <sup>3</sup> ) |
|-----------|-----------------|-------------|------------|--------------------|-----------------------------------|--------------------|-----------------------------------|----------|---------------------------------------------|
|           |                 |             |            | Sample Weight (mg) | Sample Conc. (mg/m <sup>3</sup> ) | Silica Weight (mg) | Silica Conc. (mg/m <sup>3</sup> ) | % Silica |                                             |
| MB13687-1 | 12TH FLR SOUTH  | Quartz      | 408        | <0.002             | N/A                               | <0.0045            | <0.0110                           | N/A      | 0.0110                                      |
| MB13687-2 | 11TH FLR DINING | Quartz      | 408        | <0.002             | N/A                               | 0.0090             | 0.0221                            | N/A      | 0.0110                                      |
| MB13687-3 | 10TH FLR DINING | Quartz      | 408        | 0.601              | 1.4730                            | 0.0080             | 0.0196                            | 1.3      | 0.0110                                      |
| MB13687-4 | 9TH FLR DINING  | Quartz      | 408        | 0.014              | 0.0343                            | 0.0090             | 0.0221                            | 64.3     | 0.0110                                      |
| MB13687-5 | 8TH FLR DINING  | Quartz      | 408        | <0.002             | N/A                               | <0.0045            | <0.0110                           | N/A      | 0.0110                                      |
| MB13687-6 | 7TH FLR DINING  | Quartz      | 408        | 0.010              | 0.0245                            | <0.0045            | <0.0110                           | 45.0     | 0.0110                                      |
| MB13687-7 | 6TH FLR DINING  | Quartz      | 408        | 0.090              | 0.2206                            | <0.0045            | <0.0110                           | 5.0      | 0.0110                                      |
| MB13687-8 | 5TH FLR DINING  | Quartz      | 408        | <0.002             | N/A                               | <0.0045            | <0.0110                           | N/A      | 0.0110                                      |
| MB13687-9 | 4TH FLR KITCHEN | Quartz      | 408        | 0.115              | 0.2819                            | <0.0045            | <0.0110                           | 3.9      | 0.0110                                      |

**Disclaimer:** The laboratory can only verify the concentration of silica on the filter and not the final concentration due to data obtained by non-laboratory personnel. In the absence of a bulk dust sample, neither the specific forms of crystalline silica nor the interfering species can be fully determined. Hence, the amount for each phase, if anticipated, will be analyzed based on primary, secondary, and/or tertiary peak data with comparison to calibration curves of known standards. It should be noted that air samples are meant for only quantifying silica (or a mineral phase) which must first be identified from a bulk dust sample. "<" means less than the stated value. The lowest reportable value is equivalent to the Analytical Sensitivity that is calculated from the lowest reproducible amount of specific mineral detectable by the instrument.

Anant Samudra, Ph.D.  
Analyst

  
Stephen Siegel, CIH- Lab Manager  
Or other approved signatory

AIHA Accredited - Laboratory ID #100194  
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Report Date: 04/14/03

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Customer PO:  
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EMSL Order: 040305286  
EMSL Project ID:  
Date Analyzed: 04/14/03

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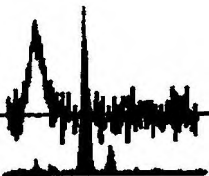
| Sample ID  | Identification            | Particle ID | Volume (L) | Respirable Dust    |                                   | Airborne Silica    |                                   |          |                                             |
|------------|---------------------------|-------------|------------|--------------------|-----------------------------------|--------------------|-----------------------------------|----------|---------------------------------------------|
|            |                           |             |            | Sample Weight (mg) | Sample Conc. (mg/m <sup>3</sup> ) | Silica Weight (mg) | Silica Conc. (mg/m <sup>3</sup> ) | % Silica | Analytical Sensitivity (mg/m <sup>3</sup> ) |
| MB13687-10 | 3RD FLR APARTMENT KITCHEN | Quartz      | 408        | 0.143              | 0.3505                            | <0.0045            | <0.0110                           | 3.1      | 0.0110                                      |

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| Sample ID   | Identification  | Particle ID | Volume (L) | Respirable Dust    |                                   | Airborne Silica    |                                   |          |                                             |
|-------------|-----------------|-------------|------------|--------------------|-----------------------------------|--------------------|-----------------------------------|----------|---------------------------------------------|
|             |                 |             |            | Sample Weight (mg) | Sample Conc. (mg/m <sup>3</sup> ) | Silica Weight (mg) | Silica Conc. (mg/m <sup>3</sup> ) | % Silica | Analytical Sensitivity (mg/m <sup>3</sup> ) |
| MB13687-3QC | 10TH FLR DINING | Quartz      | 408        | 0.601              | 1.4730                            | 0.0070             | 0.0172                            | 1.2      | 0.0110                                      |
| STANDARD    | 0.030Q          | Quartz      | N/A        | N/A                | N/A                               | 0.025              | N/A                               | N/A      | N/A                                         |
| LAB BLANK   |                 | Quartz      | 0          | N/A                | N/A                               | <0.0045            | N/A                               | N/A      | N/A                                         |

**Notes:**

1. Bulk sample not submitted with sample set.
2. Discernable field blank not submitted with sample set.
3. Results are not field blank corrected.

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Analyst

*R.R. Mahony*  
**Stephen Siegel, CIH/Lab Manager**  
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