

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



Order ID:040300857

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Fax: 212-221-7822  
Project: #35052-0000-00016/NYC LAW DEPT.--  
OFFICE EQUIP. SIM. AIR SAMPLING  
  
Report Date: 1/23/03

Customer ID: TRCE51  
Customer PO:  
Received: 1/21/03 10:49 AM  
  
EMSL Order: 040300857  
EMSL Project ID:  
  
Date Analyzed: 1/22/03

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

| Sample ID                             | Identification     | Particle ID | Vol (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> ) |
| NA011903SILOSHA1001<br>040300857-0001 | FIELD BLANK        | Quartz      | 0       | <0.002             | N/A                               | <0.0045            | N/A                               | N/A      | N/A                                         |
| NA011903SILOSHA1002<br>040300857-0002 | NAZAR AGAHAN       | Quartz      | 1198    | <0.002             | <0.002                            | <0.0045            | <0.0038                           | N/A      | 0.0038                                      |
| NA011903SILOSHA1003<br>040300857-0004 | MIKHAIL SHINDELMAN | Quartz      | 1198    | 0.019              | 0.0159                            | <0.0045            | <0.0038                           | N/A      | 0.0038                                      |
| Silica Standard                       | 0.050Q             | Quartz      | 0       | N/A                | N/A                               | 0.047              | N/A                               | N/A      | N/A                                         |

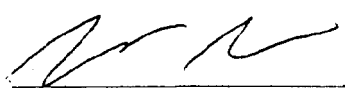
**Notes:**

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

**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

Page 1 of 1

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