



EMSL Analytical, Inc. - 107 Haddon Avenue
Westmont, NJ. 08108
(856) 858-4800

12/26/01

Attention: **U.S. EPA**
HQ Financial Services Division
1200 Pennsylvania Avenue
NW Maildrop 2734R
Washington, DC. 20460

Project: Residential
Ref. Number: 360100701

Silica Analysis Performed by Method NIOSH 7500
Crystalline Particle Analysis Performed by
X-Ray Diffraction (XRD)

Sample ID	Identification	Analyte ID	Volume (L)	Nuisance Dust		Airborne Particulate			
				Sample Weight (mg)	Sample Conc. (mg/m ³)	Analyte Weight (mg)	Analyte Conc. (mg/m ³)	% Analyte	Analytical Sensitivity (mg/m ³)
[R]RF-0-23		Quartz	1012	A	N/A	<0.004	<AS	N/A	0.0040
		Cristobalite				<0.012	<AS		0.0119
		Tridymite				N/A	N/A		N/A
		Calcite				<0.004	<AS		0.0040
		Portland/ Lime				<0.020	<AS		0.0198
		Gypsum				<0.004	<AS		0.0040
		Mica				<0.011	<AS		0.0109
		Halite				<0.006	<AS		0.0059
		Fibrous Glass				ND	<AS		0.9884
[R]RF2-0-23		Quartz	1009	0.021	0.0208	<0.004	<AS	N/A	0.0040
		Cristobalite				<0.012	<AS		0.0119
		Tridymite				N/A	N/A		N/A
		Calcite				<0.004	<AS		0.0040
		Portland/ Lime				<0.020	<AS		0.0198
		Gypsum				<0.004	<AS		0.0040
		Mica				<0.011	<AS		0.0109
		Halite				<0.006	<AS		0.0059
		Fibrous Glass				ND	<AS		0.9907
[R]TF-0-23		Quartz	1598	0.030	0.0501	<0.004	<AS	N/A	0.0025
		Cristobalite				<0.012	<AS		0.0075
		Tridymite				N/A	N/A		N/A
		Calcite				<0.004	<AS		0.0025
		Portland/ Lime				<0.020	<AS		0.0125
		Gypsum				<0.004	<AS		0.0025
		Mica				<0.011	<AS		0.0068
		Halite				<0.006	<AS		0.0038
		Fibrous Glass				ND	<AS		0.6266

John Newton
Analyst

26 December, 2001
Date of Analysis

Disclaimer: The laboratory can only verify the concentrations of analytes on the filter and not the final concentrations due to data obtained by non-laboratory personnel. In the absence of a bulk dust sample, the specific form of crystalline silica can not be determined.

Hence, alpha-quartz, the most prevalent form of crystalline silica, will be assumed. "<" = Less than the stated value

The lowest reportable value is equivalent to the Analytical Sensitivity which is calculated from the lowest reproducible concentration of silica detectable by the instrument.

AIHA Accredited - Laboratory ID #100192

CONFIDENTIAL,

CITY_21MC100_003423311

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008



EMSL Analytical, Inc. - 107 Haddon Avenue
Westmont, NJ. 08108
(856) 858-4800

12/26/01

Attention: U.S. EPA
HQ Financial Services Division
1200 Pennsylvania Avenue
NW Maildrop 2734R
Washington, DC. 20460

Project: Residential
Ref. Number: 360100701

Silica Analysis Performed by Method NIOSH 7500
Crystalline Particle Analysis Performed by
X-Ray Diffraction (XRD)

Sample ID	Identification	Analyte ID	Volume (L)	Nuisance Dust		Analyte Weight (mg)	Airborne Particulate		
				Sample Weight (mg)	Sample Conc. (mg/m ³)		Analyte Conc. (mg/m ³)	% Analyte	Analytical Sensitivity (mg/m ³)
[R]IF-0-23		Quartz	1826	0.048	0.0295	<0.004	<AS	N/A	0.0025
		Cristobalite				<0.012	<AS		0.0074
		Tridymite				N/A	N/A		N/A
		Calcite				<0.004	<AS		0.0025
		Portland/ Lime				<0.020	<AS		0.0123
		Gypsum				<0.004	<AS		0.0025
		Mica				<0.011	<AS		0.0068
		Halite				<0.006	<AS		0.0037
		Fibrous Glass				ND	<AS		0.0152
[R]RF-C-23		Quartz	991	A	N/A	<0.004	<AS	N/A	0.0040
		Cristobalite				<0.012	<AS		0.0121
		Tridymite				N/A	N/A		N/A
		Calcite				<0.004	<AS		0.0040
		Portland/ Lime				<0.020	<AS		0.0202
		Gypsum				<0.004	<AS		0.0040
		Mica				<0.011	<AS		0.0111
		Halite				<0.006	<AS		0.0061
		Fibrous Glass				1.000	1.0089		1.0089
[R]RF2-C-23		Quartz	1548	0.038	0.0233	<0.004	<AS	N/A	0.0026
		Cristobalite				<0.012	<AS		0.0076
		Tridymite				N/A	N/A		N/A
		Calcite				<0.004	<AS		0.0026
		Portland/ Lime				<0.020	<AS		0.0129
		Gypsum				<0.004	<AS		0.0026
		Mica				<0.011	<AS		0.0071
		Halite				<0.006	<AS		0.0039
		Fibrous Glass				1.000	0.6458		0.6458

John Newton
Analyst

26 December, 2001
Date of Analysis

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AIHA Accredited - Laboratory ID #100192

CONFIDENTIAL,

CITY_21MC100_003423312

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008



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12/26/01

Attention: **U.S. EPA**
HQ Financial Services Division
1200 Pennsylvania Avenue
NW Maildrop 2734R
Washington, DC. 20460

Project: Residential
Ref. Number: 360100701

Silica Analysis Performed by Method NIOSH 7500
Crystalline Particle Analysis Performed by
X-Ray Diffraction (XRD)

Sample ID	Identification	Analyte ID	Volume (L)	Nuisance Dust		Airborne Particulate			
				Sample Weight (mg)	Sample Conc. (mg/m ³)	Analyte Weight (mg)	Analyte Conc. (mg/m ³)	% Analyte	Analytical Sensitivity (mg/m ³)
[R]TF-C-23		Quartz	1578	0.084	0.0406	<0.004	-AS	N/A	0.0025
		Cristobalite				<0.012	-AS		0.0076
		Tridymite				N/A	N/A		N/A
		Calcite				<0.004	-AS		0.0025
		Portland/ Lime				<0.020	-AS		0.0127
		Gypsum				<0.004	-AS		0.0025
		Mica				<0.011	-AS		0.0070
		Halite				<0.006	-AS		0.0036
		Fibrous Glass				2.000	1.2677		0.6338
[R]IF-C-23		Quartz	1546	0.055	0.0356	<0.004	-AS	N/A	0.0026
		Cristobalite				<0.012	-AS		0.0076
		Tridymite				N/A	N/A		N/A
		Calcite				<0.004	-AS		0.0026
		Portland/ Lime				<0.020	-AS		0.0129
		Gypsum				<0.004	-AS		0.0026
		Mica				<0.011	-AS		0.0071
		Halite				<0.006	-AS		0.0039
		Fibrous Glass				ND	-AS		0.6457
[R]RF-R1-23		Quartz	978	A	N/A	<0.004	-AS	N/A	0.0041
		Cristobalite				<0.012	-AS		0.0123
		Tridymite				N/A	N/A		N/A
		Calcite				<0.004	-AS		0.0041
		Portland/ Lime				<0.020	-AS		0.0204
		Gypsum				<0.004	-AS		0.0041
		Mica				<0.011	-AS		0.0112
		Halite				<0.006	-AS		0.0061
		Fibrous Glass				ND	-AS		1.0221

John Newton
Analyst

26 December, 2001
Date of Analysis

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CONFIDENTIAL,

CITY_21MC100_003423313

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008



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12/26/01

Attention: **U.S. EPA**
HQ Financial Services Division
1200 Pennsylvania Avenue
NW Maildrop 2734R
Washington, DC. 20460

Project: Residential
Ref. Number: 360100701

Silica Analysis Performed by Method NIOSH 7500
Crystalline Particle Analysis Performed by
X-Ray Diffraction (XRD)

Sample ID	Identification	Analyte ID	Volume (L)	Nuisance Dust		Airborne Particulate			
				Sample Weight (mg)	Sample Conc. (mg/m ³)	Analyte Weight (mg)	Analyte Conc. (mg/m ³)	% Analyte	Analytical Sensitivity (mg/m ³)
[R]RF2-R1-23		Quartz	1544	0.041	0.0285	<0.004	<AS	N/A	0.0026
		Cristobalite				<0.012	<AS		0.0078
		Tridymite				N/A	N/A		N/A
		Calcite				<0.004	<AS		0.0028
		Portland/ Lime				<0.020	<AS		0.0130
		Gypsum				<0.004	<AS		0.0026
		Mica				<0.011	<AS		0.0071
		Halite				<0.006	<AS		0.0039
		Fibrous Glass				ND	<AS		0.6475
[R]TF-R1-23		Quartz	1568	0.053	0.0338	<0.004	<AS	N/A	0.0028
		Cristobalite				<0.012	<AS		0.0077
		Tridymite				N/A	N/A		N/A
		Calcite				<0.004	<AS		0.0028
		Portland/ Lime				<0.020	<AS		0.0128
		Gypsum				<0.004	<AS		0.0026
		Mica				<0.011	<AS		0.0070
		Halite				<0.006	<AS		0.0038
		Fibrous Glass				ND	<AS		0.6379
[R]F-R1-23		Quartz	1554	0.056	0.0380	<0.004	<AS	N/A	0.0028
		Cristobalite				<0.012	<AS		0.0077
		Tridymite				N/A	N/A		N/A
		Calcite				<0.004	<AS		0.0026
		Portland/ Lime				<0.020	<AS		0.0129
		Gypsum				<0.004	<AS		0.0026
		Mica				<0.011	<AS		0.0071
		Halite				<0.006	<AS		0.0039
		Fibrous Glass				ND	<AS		0.6435

Fibrous Glass Results are in fibers per cubic M

John Newton
Analyst

26 December, 2001
Date of Analysis

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AIHA Accredited - Laboratory ID #100192

CONFIDENTIAL,

CITY_21MC100_003423314

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008



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12/26/01

Attention: **U.S. EPA**
HQ Financial Services Division
1200 Pennsylvania Avenue
NW Maildrop 2734R
Washington, DC. 20460

Project: Residential
Ref. Number: 360100701

Silica Analysis Performed by Method NIOSH 7500
Crystalline Particle Analysis Performed by
X-Ray Diffraction (XRD)

Sample ID	Identification	Analyte ID	Volume (L)	Nuisance Dust		Airborne Particulate			
				Sample Weight (mg)	Sample Conc. (mg/m ³)	Analyte Weight (mg)	Analyte Conc. (mg/m ³)	% Analyte	Analytical Sensitivity (mg/m ³)
(R)RF-R2-23		Quartz	1014	A	N/A	<0.004	<AS	N/A	0.0039
		Cristobalite				<0.012	<AS		0.0118
		Tridymite				N/A	N/A		N/A
		Calcite				<0.004	<AS		0.0039
		Portland/ Lime				<0.020	<AS		0.0197
		Gypsum				<0.004	<AS		0.0039
		Mica				<0.011	<AS		0.0109
		Halite				<0.008	<AS		0.0059
		Fibrous Glass				ND	<AS		0.9864
(R)RF2-R2-23		Quartz	1584	0.033	0.0208	<0.004	<AS	N/A	0.0025
		Cristobalite				<0.012	<AS		0.0076
		Tridymite				N/A	N/A		N/A
		Calcite				<0.004	<AS		0.0025
		Portland/ Lime				<0.020	<AS		0.0126
		Gypsum				<0.004	<AS		0.0025
		Mica				<0.011	<AS		0.0069
		Halite				<0.008	<AS		0.0038
		Fibrous Glass				ND	<AS		0.6313
(R)TF-R2-23		Quartz	1592	0.062	0.0389	<0.004	<AS	N/A	0.0025
		Cristobalite				<0.012	<AS		0.0075
		Tridymite				N/A	N/A		N/A
		Calcite				<0.004	<AS		0.0025
		Portland/ Lime				<0.020	<AS		0.0126
		Gypsum				<0.004	<AS		0.0025
		Mica				<0.011	<AS		0.0069
		Halite				<0.008	<AS		0.0038
		Fibrous Glass				ND	<AS		0.6262

Fibrous Glass Results are in fibers per cubic ft

John Newton
Analyst

26 December, 2001
Date of Analysis

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Hence, alpha-quartz, the most prevalent form of crystalline silica, will be assumed.

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ALHA Accredited - Laboratory ID #100192

CONFIDENTIAL,

CITY_21MC100_003423315

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008



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Attention: **U.S. EPA**
HQ Financial Services Division
1200 Pennsylvania Avenue
NW Maildrop 2734R
Washington, DC. 20460

Project: Residential
Ref. Number: 360100701

Silica Analysis Performed by Method NIOSH 7500
Crystalline Particle Analysis Performed by
X-Ray Diffraction (XRD)

Sample ID	Identification	Analyte ID	Volume (L)	Nuisance Dust		Airborne Particulate			
				Sample Weight (mg)	Sample Conc. (mg/m ³)	Analyte Weight (mg)	Analyte Conc. (mg/m ³)	% Analyte	Analytical Sensitivity (mg/m ³)
[R]IF-R2-23		Quartz	1550	0.037	0.0239	<0.004	<AS	N/A	0.0026
		Cristobalite				<0.012	<AS		0.0077
		Tridymite				N/A	N/A		N/A
		Calcite				<0.004	<AS		0.0026
		Portland/ Lime				<0.020	<AS		0.0129
		Gypsum				<0.004	<AS		0.0026
		Mica				<0.011	<AS		0.0071
		Halite				<0.006	<AS		0.0039
		Fibrous Glass				ND	<AS		0.6450
[R]BRF-A-23		Quartz	0	A	N/A	<0.004	N/A	N/A	N/A
		Cristobalite				<0.012	N/A		N/A
		Tridymite				N/A	N/A		N/A
		Calcite				<0.004	N/A		N/A
		Portland/ Lime				<0.020	N/A		N/A
		Gypsum				<0.004	N/A		N/A
		Mica				<0.011	N/A		N/A
		Halite				<0.006	N/A		N/A
		Fibrous Glass				ND	N/A		N/A
[R]BRF2-B-23		Quartz	0	0.011	N/A	<0.004	N/A	N/A	N/A
		Cristobalite				<0.012	N/A		N/A
		Tridymite				N/A	N/A		N/A
		Calcite				<0.004	N/A		N/A
		Portland/ Lime				<0.020	N/A		N/A
		Gypsum				<0.004	N/A		N/A
		Mica				<0.011	N/A		N/A
		Halite				<0.006	N/A		N/A
		Fibrous Glass				ND	N/A		N/A

Fibrous Glass Results are in fibers per cubic M

John Newton
Analyst

26 December, 2001
Date of Analysis

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AIHA Accredited - Laboratory ID #100192

CONFIDENTIAL,

CITY_21MC100_003423316

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008



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12/26/01

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HQ Financial Services Division
1200 Pennsylvania Avenue
NW Maildrop 2734R
Washington, DC. 20460

Project: Residential
Ref. Number: 360100701

Silica Analysis Performed by Method NIOSH 7500
Crystalline Particle Analysis Performed by
X-Ray Diffraction (XRD)

Sample ID	Identification	Analyte ID	Volume (L)	Nuisance Dust		Airborne Particulate			
				Sample Weight (mg)	Sample Conc. (mg/m ³)	Analyte Weight (mg)	Analyte Conc. (mg/m ³)	% Analyte	Analytical Sensitivity (mg/m ³)
[R]BTF-A-23		Quartz	0	A	N/A	<0.004	N/A	N/A	N/A
		Cristobalite				<0.012	N/A		N/A
		Tridymite				N/A	N/A		N/A
		Calcite				<0.004	N/A		N/A
		Portland/ Lime				<0.020	N/A		N/A
		Gypsum				<0.004	N/A		N/A
		Mica				<0.011	N/A		N/A
		Halite				<0.008	N/A		N/A
		Fibrous Glass				ND	N/A		N/A
[R]BTF-B-23		Quartz	0	A	N/A	<0.004	N/A	N/A	N/A
		Cristobalite				<0.012	N/A		N/A
		Tridymite				N/A	N/A		N/A
		Calcite				<0.004	N/A		N/A
		Portland/ Lime				<0.020	N/A		N/A
		Gypsum				<0.004	N/A		N/A
		Mica				<0.011	N/A		N/A
		Halite				<0.008	N/A		N/A
		Fibrous Glass				ND	N/A		N/A
[R]BIF-A-23		Quartz	0	0.001	N/A	<0.004	N/A	N/A	N/A
		Cristobalite				<0.012	N/A		N/A
		Tridymite				N/A	N/A		N/A
		Calcite				<0.004	N/A		N/A
		Portland/ Lime				<0.020	N/A		N/A
		Gypsum				<0.004	N/A		N/A
		Mica				<0.011	N/A		N/A
		Halite				<0.008	N/A		N/A
		Fibrous Glass				ND	N/A		N/A

John Newton
Analyst

26 December, 2001
Date of Analysis

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CITY_21MC100_003423317

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Project: Residential
Ref. Number: 360100701

Silica Analysis Performed by Method NIOSH 7500
Crystalline Particle Analysis Performed by
X-Ray Diffraction (XRD)

Sample ID	Identification	Analyte ID	Volume (L)	Nuisance Dust		Airborne Particulate			
				Sample Weight (mg)	Sample Conc. (mg/m ³)	Analyte Weight (mg)	Analyte Conc. (mg/m ³)	% Analyte	Analytical Sensitivity (mg/m ³)
[R]BIF-B-23		Quartz	0	A	N/A	<0.004	N/A	N/A	N/A
		Cristobalite				<0.012	N/A		N/A
		Tridymite				N/A	N/A		N/A
		Calcite				<0.004	N/A		N/A
		Portland/ Lime				<0.020	N/A		N/A
		Gypsum				<0.004	N/A		N/A
		Mica				<0.011	N/A		N/A
		Halite				<0.006	N/A		N/A
		Fibrous Glass				ND	N/A		N/A
[R]TF-R2-X-23		Quartz	1612	0.040	0.0248	<0.004	<AS	N/A	0.0025
		Cristobalite				<0.012	<AS		0.0074
		Tridymite				N/A	N/A		N/A
		Calcite				<0.004	<AS		0.0025
		Portland/ Lime				<0.020	<AS		0.0124
		Gypsum				<0.004	<AS		0.0025
		Mica				<0.011	<AS		0.0069
		Halite				<0.008	<AS		0.0037
		Fibrous Glass				ND	<AS		0.6205

Fibrous Glass Results are in fibers per cubic M

John Newton
Analyst

26 December, 2001
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CITY_21MC100_003423318

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008



EMSL Analytical, Inc. - 107 Haddon Avenue
Westmont, NJ. 08108
(856) 858-4800

12/26/01

Attention: U.S. EPA
HQ Financial Services Division
1200 Pennsylvania Avenue
NW Maildrop 2734R
Washington, DC. 20460

Project: Residential
Ref. Number: 360100701

◆ Certificate Of Analysis ◆

Sample ID	Description	Particle ID	Concentration (%)	Analytical Sensitivity (%)
[R]VS-C-23	Common Area	Quartz	1.8	0.01
		Cristobalite	ND	0.03
		Tridymite	ND	N/A
		Calcite	0.04	0.01
		Portland/ Lime	0.05	0.05
		Gypsum	0.9	0.02
		Mica	ND	0.05
		Halite	ND	0.03
		Fibrous Glass	ND	0.1
[R]VS-R1-23	Residence 1	Quartz	ND	0.01
		Cristobalite	ND	0.03
		Tridymite	ND	N/A
		Calcite	ND	0.01
		Portland/ Lime	ND	0.05
		Gypsum	ND	0.02
		Mica	ND	0.05
		Halite	ND	0.03
		Fibrous Glass	0.5	0.1

Analysis Performed By:	Polarized Light Microscopy (PLM) Scanning Electron Microscopy (SEM) X-Ray Diffraction (XRD)
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John Newton
Analyst

26 December, 2001
Date of Analysis

TNTQ = Too Numerous To Quantify

ND = None Detected

CONFIDENTIAL,

CITY_21MC100_003423319

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Project: Residential
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Sample ID	Description	Particle ID	Concentration (%)	Analytical Sensitivity (%)
[R]VS-R2-23	Residence 2	Quartz	ND	0.01
		Cristobalite	ND	0.03
		Tridymite	ND	N/A
		Calcite	ND	0.01
		Portland/ Lime	ND	0.05
		Gypsum	1.3	0.02
		Mica	ND	0.05
		Halite	ND	0.03
		Fibrous Glass	0.5	0.1

Analysis Performed By: Polarized Light Microscopy (PLM) Scanning Electron Microscopy (SEM) X-Ray Diffraction (XRD)
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John Newton
Analyst

26 December, 2001
Date of Analysis

TNTQ = Too Numerous To Quantify

ND = None Detected

CONFIDENTIAL,

CITY_21MC100_003423320

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008