NYC 9/11 Public Portal Document

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

11/27/01

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

Project: Residential Sampling
Ref. Number: 360100629

Crystalline Particle Analysis Performed by X-Ray Diffraction (XRD), MMVF Analysis Performed by Scanning Electron Microscopy (SEM).

Sample ID	Identification	Volume (L)	Particle ID	Particle Weight (mg)	Concentration (mg/M^3)	Limit of Detection (mg)
(R)RF-0-5		1405	Quartz	—	See Silica Report	0.004
			Cristobalite	<LOD	<8.5	0.012
			Tridymite	ND	ND	N/A
			Calcite	<LOD	<2.8	0.004
			Portland/ Lime	<LOD	<14.2	0.020
			Gypsum	<LOD	<2.8	0.004
			Mica	<LOD	<7.8	0.011
			Halite	<LOD	<4.3	0.006
			Fibrous Glass	ND	ND	N/A
(R)TF-0-5		1255	Quartz	—	See Silica Report	0.004
			Cristobalite	<LOD	<9.6	0.012
			Tridymite	ND	ND	N/A
			Calcite	<LOD	<3.2	0.004
			Portland/ Lime	<LOD	<15.9	0.020
			Gypsum	<LOD	<3.2	0.004
			Mica	<LOD	<8.9	0.011
			Halite	<LOD	<4.9	0.006
			Fibrous Glass	ND	ND	N/A
(R)IF-0-5		1255	Quartz	—	See Silica Report	0.004
			Cristobalite	<LOD	<9.6	0.012
			Tridymite	ND	ND	N/A
			Calcite	<LOD	<3.2	0.004
			Portland/ Lime	<LOD	<15.9	0.020
			Gypsum	<LOD	<3.2	0.004
			Mica	<LOD	<8.9	0.011
			Halite	<LOD	<4.9	0.006
			Fibrous Glass	ND	ND	N/A
(R)RF-C-5		1440	Quartz	—	See Silica Report	0.004
			Cristobalite	<LOD	<8.3	0.012
			Tridymite	ND	ND	N/A
			Calcite	<LOD	<2.8	0.004
			Portland/ Lime	<LOD	<13.9	0.020
			Gypsum	<LOD	<2.8	0.004
			Mica	<LOD	<7.6	0.011
			Halite	<LOD	<4.2	0.006
			Fibrous Glass	ND	ND	N/A

John Newton
Analyst

21 November, 01
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Washington, DC. 20460

Project: Residential Sampling
Ref. Number: 360100629

Crystalline Particle Analysis Performed by X-Ray Diffraction (XRD), MMVF Analysis Performed by Scanning Electron Microscopy (SEM).

Sample ID	Identification	Volume (L)	Particle ID	Particle Weight (mg)	Concentration (mg/M^3)	Limit of Detection (mg)
(R)TF-C-5		1222	Quartz	—	See Silica Report	0.004
			Cristobalite	<LOD	<9.8	0.012
			Tridymite	ND	ND	N/A
			Calcite	<LOD	<3.3	0.004
			Portland/ Lime	<LOD	<16.4	0.020
			Gypsum	<LOD	<3.3	0.004
			Mica	<LOD	<8.8	0.011
			Halite	<LOD	<4.9	0.006
			Fibrous Glass	ND	ND	N/A
(R)IF-C-5		1222	Quartz	—	See Silica Report	0.004
			Cristobalite	<LOD	<9.8	0.012
			Tridymite	ND	ND	N/A
			Calcite	<LOD	4.1	0.004
			Portland/ Lime	<LOD	21.0	0.020
			Gypsum	<LOD	5.8	0.004
			Mica	<LOD	<8.8	0.011
			Halite	<LOD	4.9	0.006
			Fibrous Glass	ND	ND	N/A
(R)RF-R1-5		1435	Quartz	—	See Silica Report	0.004
			Cristobalite	<LOD	<8.3	0.012
			Tridymite	ND	ND	N/A
			Calcite	<LOD	<2.8	0.004
			Portland/ Lime	<LOD	<13.9	0.020
			Gypsum	<LOD	3.1	0.004
			Mica	<LOD	<7.6	0.011
			Halite	<LOD	<4.2	0.006
			Fibrous Glass	ND	ND	N/A
(R)TF-R1-5		1231	Quartz	—	See Silica Report	0.004
			Cristobalite	<LOD	<7.3	0.012
			Tridymite	ND	ND	N/A
			Calcite	<LOD	<2.4	0.004
			Portland/ Lime	<LOD	<12.2	0.020
			Gypsum	<LOD	6.2	0.004
			Mica	<LOD	<6.7	0.011
			Halite	<LOD	<3.6	0.006
			Fibrous Glass	ND	ND	N/A

John Newton
Analyst

21 November, 01
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107 Haddon Avenue
Westmont, NJ. 08108
(856) 858-4800

11/27/01

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

Project: Residential Sampling
Ref. Number: 360100629

Crystalline Particle Analysis Performed by X-Ray Diffraction (XRD), MMVF Analysis Performed by Scanning Electron Microscopy (SEM).

Sample ID	Identification	Volume (L)	Particle ID	Particle Weight (mg)	Concentration (mg/M^3)	Limit of Detection (mg)
(R)IF-R1-5		1231	Quartz	—	*See Silica Report*	0.004
			Cristobalite	<LOD	<9.8	0.012
			Tridymite	ND	ND	N/A
			Calcite	<LOD	<3.3	0.004
			Portland/ Lime	<LOD	<16.4	0.020
			Gypsum	<LOD	<3.3	0.004
			Mica	<LOD	<8.8	0.011
			Halite	<LOD	<4.9	0.006
			Fibrous Glass	ND	ND	N/A
(R)RF-R2-5		1505	Quartz	—	*See Silica Report*	0.004
			Cristobalite	<LOD	<8.0	0.012
			Tridymite	ND	ND	N/A
			Calcite	<LOD	<2.7	0.004
			Portland/ Lime	<LOD	<13.3	0.020
			Gypsum	<LOD	4.3	0.004
			Mica	<LOD	<7.3	0.011
			Halite	<LOD	<4.0	0.006
			Fibrous Glass	ND	ND	N/A
(R)TF-R2-5		1255	Quartz	—	*See Silica Report*	0.004
			Cristobalite	<LOD	<9.6	0.012
			Tridymite	ND	ND	N/A
			Calcite	<LOD	<3.2	0.004
			Portland/ Lime	<LOD	<15.9	0.020
			Gypsum	<LOD	<3.2	0.004
			Mica	<LOD	<8.8	0.011
			Halite	<LOD	<4.8	0.006
			Fibrous Glass	ND	ND	N/A
(R)IF-R2-5		1255	Quartz	—	*See Silica Report*	0.004
			Cristobalite	<LOD	<9.6	0.012
			Tridymite	ND	ND	N/A
			Calcite	<LOD	<3.2	0.004
			Portland/ Lime	<LOD	<15.9	0.020
			Gypsum	<LOD	<3.2	0.004
			Mica	<LOD	<8.8	0.011
			Halite	<LOD	<4.9	0.006
			Fibrous Glass	ND	ND	N/A

John Newton
Analyst

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11/27/01

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

Project: Residential Sampling
Ref. Number: 360100629

Crystalline Particle Analysis Performed by X-Ray Diffraction (XRD), MMVF Analysis Performed by Scanning Electron Microscopy (SEM).

Sample ID	Identification	Volume (L)	Particle ID	Particle Weight (mg)	Concentration (mg/M^3)	Limit of Detection (mg)
(R)BRF-A-5		0	Quartz	—	*See Silica Report*	0.004
			Cristobalite	*<LOD*	*N/A*	0.012
			Tridymite	*ND*	*N/A*	N/A
			Calcite	*<LOD*	*N/A*	0.004
			Portland/ Lime	*<LOD*	*N/A*	0.020
			Gypsum	*<LOD*	*N/A*	0.004
			Mica	*<LOD*	*N/A*	0.011
			Halite	*<LOD*	*N/A*	0.006
			Fibrous Glass	*ND*	*N/A*	N/A
(R)BRF-B-5		0	Quartz	—	*See Silica Report*	0.004
			Cristobalite	*<LOD*	*N/A*	0.012
			Tridymite	*ND*	*N/A*	N/A
			Calcite	*<LOD*	*N/A*	0.004
			Portland/ Lime	*<LOD*	*N/A*	0.020
			Gypsum	*<LOD*	*N/A*	0.004
			Mica	*<LOD*	*N/A*	0.011
			Halite	*<LOD*	*N/A*	0.006
			Fibrous Glass	*ND*	*N/A*	N/A
(R)BTF-A-5		0	Quartz	—	*See Silica Report*	0.004
			Cristobalite	*<LOD*	*N/A*	0.012
			Tridymite	*ND*	*N/A*	N/A
			Calcite	*<LOD*	*N/A*	0.004
			Portland/ Lime	*<LOD*	*N/A*	0.020
			Gypsum	*<LOD*	*N/A*	0.004
			Mica	*<LOD*	*N/A*	0.011
			Halite	*<LOD*	*N/A*	0.006
			Fibrous Glass	*ND*	*N/A*	N/A
(R)BIF-A-5		0	Quartz	—	*See Silica Report*	0.004
			Cristobalite	*<LOD*	*N/A*	0.012
			Tridymite	*ND*	*N/A*	N/A
			Calcite	*<LOD*	*N/A*	0.004
			Portland/ Lime	*<LOD*	*N/A*	0.020
			Gypsum	*<LOD*	*N/A*	0.004
			Mica	*<LOD*	*N/A*	0.011
			Halite	*<LOD*	*N/A*	0.006
			Fibrous Glass	*ND*	*N/A*	N/A

John Newton
Analyst

21 November, 01
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HQ Financial Services Division
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NW Maildrop 2734R
Washington, DC. 20460

Project: Residential Sampling
Ref. Number: 360100629

Crystalline Particle Analysis Performed by X-Ray Diffraction (XRD), MMVF Analysis Performed by Scanning Electron Microscopy (SEM).

Sample ID	Identification	Volume (L)	Particle ID	Particle Weight (mg)	Concentration (mg/M^3)	Limit of Detection (mg)
(R)BIF-B-5		0	Quartz	—	See Silica Report	0.004
			Cristobalite	<LOD	N/A	0.012
			Tridymite	ND	N/A	N/A
			Calcite	<LOD	N/A	0.004
			Portland/ Lime	<LOD	N/A	0.020
			Gypsum	<LOD	N/A	0.004
			Mica	<LOD	N/A	0.011
			Halite	<LOD	N/A	0.006
			Fibrous Glass	ND	N/A	N/A
(R)RF-0-6		1457	Quartz	—	See Silica Report	0.004
			Cristobalite	<LOD	<8.3	0.012
			Tridymite	ND	ND	N/A
			Calcite	<LOD	<2.8	0.004
			Portland/ Lime	<LOD	<13.9	0.020
			Gypsum	<LOD	<2.8	0.004
			Mica	<LOD	<7.6	0.011
			Halite	<LOD	<4.2	0.006
			Fibrous Glass	ND	ND	N/A
(R)TF-0-6		1457	Quartz	—	See Silica Report	0.004
			Cristobalite	<LOD	<8.3	0.012
			Tridymite	ND	ND	N/A
			Calcite	<LOD	<2.8	0.004
			Portland/ Lime	<LOD	<13.9	0.020
			Gypsum	<LOD	<2.8	0.004
			Mica	<LOD	<7.6	0.011
			Halite	<LOD	<4.2	0.006
			Fibrous Glass	ND	ND	N/A
(R)IF-0-6		1457	Quartz	—	See Silica Report	0.004
			Cristobalite	<LOD	<8.3	0.012
			Tridymite	ND	ND	N/A
			Calcite	<LOD	<2.8	0.004
			Portland/ Lime	<LOD	<13.9	0.020
			Gypsum	<LOD	<2.8	0.004
			Mica	<LOD	<7.6	0.011
			Halite	<LOD	<4.2	0.006
			Fibrous Glass	ND	ND	N/A

John Newton
Analyst

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11/27/01

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

Project: Residential Sampling
Ref. Number: 360100629

Crystalline Particle Analysis Performed by X-Ray Diffraction (XRD), MMVF Analysis Performed by Scanning Electron Microscopy (SEM).

Sample ID	Identification	Volume (L)	Particle ID	Particle Weight (mg)	Concentration (mg/M^3)	Limit of Detection (mg)
(R)RF-C-6		1448	Quartz	--	*See Silica Report*	0.004
			Cristobalite	*<LOD*	*<8.3*	0.012
			Tridymite	*ND*	*ND*	N/A
			Calcite	*<LOD*	*<2.8*	0.004
			Portland/ Lime	*<LOD*	*<13.9*	0.020
			Gypsum	*<LOD*	*<2.8*	0.004
			Mica	*<LOD*	*<7.6*	0.011
			Halite	*<LOD*	*<4.2*	0.006
			Fibrous Glass	*ND*	*ND*	N/A
(R)TF-C-6		1448	Quartz	--	*See Silica Report*	0.004
			Cristobalite	*<LOD*	*<8.3*	0.012
			Tridymite	*ND*	*ND*	N/A
			Calcite	*<LOD*	*<2.8*	0.004
			Portland/ Lime	*<LOD*	*<13.9*	0.020
			Gypsum	*<LOD*	*<2.8*	0.004
			Mica	*<LOD*	*<7.6*	0.011
			Halite	*<LOD*	*<4.2*	0.006
			Fibrous Glass	*ND*	*ND*	N/A
(R)IF-C-6		1448	Quartz	--	*See Silica Report*	0.004
			Cristobalite	*<LOD*	*<8.3*	0.012
			Tridymite	*ND*	*ND*	N/A
			Calcite	*<LOD*	*<2.8*	0.004
			Portland/ Lime	*<LOD*	*<13.9*	0.020
			Gypsum	*<LOD*	*<2.8*	0.004
			Mica	*<LOD*	*<7.6*	0.011
			Halite	*<LOD*	*<4.2*	0.006
			Fibrous Glass	*ND*	*ND*	N/A
(R)RF-R1-6		1445	Quartz	--	*See Silica Report*	0.004
			Cristobalite	*<LOD*	*<8.3*	0.012
			Tridymite	*ND*	*ND*	N/A
			Calcite	*<LOD*	*<2.8*	0.004
			Portland/ Lime	*<LOD*	*<13.9*	0.020
			Gypsum	*<LOD*	*<2.8*	0.004
			Mica	*<LOD*	*<7.6*	0.011
			Halite	*<LOD*	*<4.2*	0.006
			Fibrous Glass	*ND*	*ND*	N/A

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Analyst

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Crystalline Particle Analysis Performed by X-Ray Diffraction (XRD), MMVF Analysis Performed by Scanning Electron Microscopy (SEM).

Sample ID	Identification	Volume (L)	Particle ID	Particle Weight (mg)	Concentration (mg/M^3)	Limit of Detection (mg)
(R)TF-R1-6		1445	Quartz	—	*See Silica Report*	0.004
			Cristobalite	*<LOD*	*<8.3*	0.012
			Tridymite	*ND*	*ND*	N/A
			Calcite	*<LOD*	*<2.8*	0.004
			Portland/ Lime	*<LOD*	*<13.9*	0.020
			Gypsum	*<LOD*	*<2.8*	0.004
			Mica	*<LOD*	*<7.6*	0.011
			Halite	*<LOD*	*<4.2*	0.006
			Fibrous Glass	*ND*	*ND*	N/A
(R)IF-R1-6		1445	Quartz	—	*See Silica Report*	0.004
			Cristobalite	*<LOD*	*<8.3*	0.012
			Tridymite	*ND*	*ND*	N/A
			Calcite	*<LOD*	*<2.8*	0.004
			Portland/ Lime	*<LOD*	*<13.9*	0.020
			Gypsum	*<LOD*	*<2.8*	0.004
			Mica	*<LOD*	*<7.6*	0.011
			Halite	*<LOD*	*<4.2*	0.006
			Fibrous Glass	*ND*	*ND*	N/A
(R)RF-R2-6		1447	Quartz	—	*See Silica Report*	0.004
			Cristobalite	*<LOD*	*<8.3*	0.012
			Tridymite	*ND*	*ND*	N/A
			Calcite	*<LOD*	*<2.8*	0.004
			Portland/ Lime	*<LOD*	*<13.9*	0.020
			Gypsum	*<LOD*	*<2.8*	0.004
			Mica	*<LOD*	*<7.6*	0.011
			Halite	*<LOD*	*<4.2*	0.006
			Fibrous Glass	*ND*	*ND*	N/A
(R)TF-R2-6		1447	Quartz	—	*See Silica Report*	0.004
			Cristobalite	*<LOD*	*<8.3*	0.012
			Tridymite	*ND*	*ND*	N/A
			Calcite	*<LOD*	*<2.8*	0.004
			Portland/ Lime	*<LOD*	*<13.9*	0.020
			Gypsum	*<LOD*	*<2.8*	0.004
			Mica	*<LOD*	*<7.6*	0.011
			Halite	*<LOD*	*<4.2*	0.006
			Fibrous Glass	*ND*	*ND*	N/A

John Newton
Analyst

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Crystalline Particle Analysis Performed by X-Ray Diffraction (XRD), MMVF Analysis Performed by Scanning Electron Microscopy (SEM).

Sample ID	Identification	Volume (L)	Particle ID	Particle Weight (mg)	Concentration (mg/M^3)	Limit of Detection (mg)
(R)IF-R2-6		1447	Quartz	—	See Silica Report	0.004
			Cristobalite	<LOD	<8.3	0.012
			Tridymite	ND	ND	N/A
			Calcite	<LOD	<2.9	0.004
			Portland/ Lime	<LOD	<13.9	0.020
			Gypsum	<LOD	<2.8	0.004
			Mica	<LOD	<7.6	0.011
			Halite	<LOD	<4.2	0.006
			Fibrous Glass	ND	ND	N/A

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