



ATHENICA

ENVIRONMENTAL SERVICES INC.

45-09 Greenpoint Avenue
Long Island City, N.Y. 11104

TEM DEPARTMENT

Tel. (718) 784-7490
Fax (718) 784-4085

TEM AHERA COUNTSHEET

CLIENT: <u>WAPPEN & PANZER</u>	DATE: <u>8/21/02</u>
PROJECT: <u>ST. PETER CHURCH</u>	ANALYST: <u>E.S.</u>
BATCH #: <u>T02-08-109</u>	CLIENT ID #: <u>01</u>
SAMPLE ID #: <u>T02-08-109-1762</u>	VOLUME (lt): <u>1000 1440</u>
G.O. AREA (mm ²): <u>0.012422</u>	GO's TO ANALYZE: <u>5</u>
MAGNIFICATION: <u>19K</u>	ACC. VOLTAGE (KeV): <u>100</u>
INSTRUMENT: <u>JEOL 100CX II</u>	FILTER AREA (mm ²): <u>385</u>
ANALYTICAL METHODOLOGY: EPA FEDERAL REGISTER, VOL. 52, No 210, OCT. 30, 1987, #40 CFR, PART 763, APPENDIX A TO SUBPART E	

GRI D	GO ID	Str. #	Str. Classf.	L (μm)	W (μm)	Structure sketch	SAE D	EDXA	PHO TO#	ID
A	GS	NSD								
	C8	NSD								
B	FS	NSD								
	D6	NSD								
	C9	NSD								

Analytical Sensitivity (str/cm ³): <u>0.0043</u>	Eucentricity check: <u>/</u>
Concentration (str/cm ³): <u><0.0043</u>	*Grid acceptance criteria check: (A) <u>✓</u> (B) <u>✓</u>
Concentration (str/mm ²): <u><16.10</u>	**CHR. # STRUCT.: F M C B
Number of Asbestos Structures: 0.5 ≤ S < 5 μm ... <u>0</u>	**AMPH. # STRUCT.: F M C B
S ≥ 5 μm ... <u>0</u>	Specify AMPH. Type: AM. ACT. TRE.
Number of Non-asbestos Structures: ... <u>0</u>	CRO. ANTH.

*Replica covers >50%, at least 20 GO's with no overlapping or folded replica, intact GO's have >50% coverage, <50% Undissolved filter, <5% holes or opaque areas, <10% particulate coverage.

** CHR.=chrysotile, AMPH.=amphibole, AM.=amosite, ACT.=actinolite, TRE.=tremolite, CRO.=crocidolite, ANTH.=anthophyllite.



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PROJECT: <u>ST. PETER CHURCH</u>	ANALYST: <u>E. S.</u>
BATCH #: <u>T02-08-109</u>	CLIENT ID #: <u>02</u>
SAMPLE ID #: <u>T02-08-109-1763</u>	VOLUME (lt): <u>1000 1440</u>
G.O. AREA (mm ²): <u>0.012422</u>	GO's TO ANALYZE: <u>5</u>
MAGNIFICATION: <u>19K</u>	ACC. VOLTAGE (KeV): <u>100</u>
INSTRUMENT: <u>JEOL 100CX II</u>	FILTER AREA (mm ²): <u>385</u>
ANALYTICAL METHODOLOGY: EPA FEDERAL REGISTER, VOL. 52, No 210, OCT. 30, 1987, #40 CFR, PART 763, APPENDIX A TO SUBPART E	

GRI D	GO ID	Str. #	Str. Classf.	L (μm)	W (μm)	Structure sketch	SAE D	EDXA	PHO TO#	ID
B	D3	NSD								
	H8	1	M	7.8	1.5		chr	Mg, Si, Fe	1082	chr
A	E6	1	B	4.5	0.5		chr	-11-	1083	chr
		2	M	2.6	0.5		Anth	Mg, Si, Fe	1084	Anth
		3	M	7.7	2.7		Ant	-11-		Ant
	D8	NSD								
	I7	NSD								

Analytical Sensitivity (str/cm ²): <u>0.0043</u>	Eucentricity check: ☒
Concentration (str/cm ²): <u>0.0172</u>	*Grid acceptance criteria check: (A)... ☒ (B)... ☒
Concentration (str/mm ²): <u>64.40</u>	**CHR. # STRUCT.: F ☒ M ☒ O ☒ C ☒ B ☒ I
Number of Asbestos Structures: 0.5 ≤ S < 5 μm .. <u>0.2</u>	**AMPH. # STRUCT.: F ☒ M ☒ O ☒ C ☒ B ☒ O
S ≥ 5 μm <u>0.3</u>	Specify AMPH. Type: AM. ACT. TRE.
Number of Non-asbestos Structures: <u>0</u>	CRO. ANTH. <u>0.2</u>

*Replica covers >50%, at least 20 GO's with no overlapping or folded replica, intact GO's have >50% coverage, <50% Undissolved filter, <5% holes or opaque areas, <10% particulate coverage.

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CLIENT: <u>WAPPEN & PANZER</u>	DATE: <u>8/21/02</u>
PROJECT: <u>ST. PETER CHURCH</u>	ANALYST: <u>E.S.</u>
BATCH #: <u>T02-08-109</u>	CLIENT ID #: <u>03</u>
SAMPLE ID #: <u>T02-08-109-1764</u>	VOLUME (lt): <u>1000 1440</u>
G.O. AREA (mm ²): <u>0.012422</u>	GO's TO ANALYZE: <u>5</u>
MAGNIFICATION: <u>19K</u>	ACC. VOLTAGE (KeV): <u>100</u>
INSTRUMENT: <u>JEOL 100CX II</u>	FILTER AREA (mm ²): <u>385</u>
ANALYTICAL METHODOLOGY: EPA FEDERAL REGISTER, VOL. 52, No 210, OCT. 30, 1987, #40 CFR, PART 763, APPENDIX A TO SUBPART E	

GRI D	GO ID	Str. #	Str. Classf.	L (μm)	W (μm)	Structure sketch	SAE D	EDXA	PHO TO#	ID
A	D7	NSD								
	H6	NSD								
B	E6	NSD								
	C4	NSD								
	H8	NSD								

Analytical Sensitivity (str/cm ²): <u>0.0043</u>	Eucentricity check: <u>✓</u>
Concentration (str/cm ²): <u><0.0043</u>	*Grid acceptance criteria check: (A)...✓(B)...✓
Concentration (str/mm ²): <u><16.10</u>	**CHR. # STRUCT.: F M C B
Number of Asbestos Structures: 0.5 ≤ S < 5 μm ... <u>0</u>	**AMPH. # STRUCT.: F M C B
S ≥ 5 μm <u>0</u>	Specify AMPH. Type: AM. ACT. TRE.
Number of Non-asbestos Structures: <u>3</u>	CRO. ANTH.

*Replica covers >50%, at least 20 GO's with no overlapping or folded replica, intact GO's have >50% coverage, <50% Undissolved filter, <5% holes or opaque areas, <10% particulate coverage.

**CHR.=chrysotile, AMPH.=amphibole, AM.=amosite, ACT.=actinolite, TRE.=tremolite, CRO.=crocidolite, ANTH.=anthophyllite.



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CLIENT: WAPPEN & PANZER	DATE: 8/21/02
PROJECT: ST. PETER CHURCH	ANALYST: E.S.
BATCH #: T02-08-109	CLIENT ID #: 04
SAMPLE ID #: T02-08-109-1765	VOLUME (lit): 1000 1440
G.O. AREA (mm ²): 0.012422	GO's TO ANALYZE: 5
MAGNIFICATION: 19K	ACC. VOLTAGE (KeV): 100
INSTRUMENT: JEOL 100CX II	FILTER AREA (mm ²): 385
ANALYTICAL METHODOLOGY: EPA FEDERAL REGISTER, VOL. 52, No 210, OCT. 30, 1987, #40 CFR, PART 763, APPENDIX A TO SUBPART E	

[illegible]

Analytical Sensitivity (str/cm ³):	0.0043	Eucentricity check :	
Concentration (str/cm ³) :	<0.0043	*Grid acceptance criteria check :	(A) ☒ (B) ☐
Concentration (str/mm ²):	46.10	**CHR. # STRUCT.:	F M C B
Number of Asbestos Structures :	0.5 ≤ S < 5 μm .. 0.	**AMPH. # STRUCT.:	F M C B
	S ≥ 5 μm 0.	Specify AMPH. Type :	AM. ACT. TRE.
Number of Non-asbestos Structures:	 0.	CRO. ANTH.	

* Replica covers >50%, at least 20 GO's with no overlapping or folded replica, intact GO's have >50% coverage, <50% Undissolved filter, <5% holes or opaque areas, <10% particulate coverage.

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CLIENT: <u>WAPPEN & PANZER</u>	DATE: <u>8/21/02</u>
PROJECT: <u>ST. PETER CHURCH</u>	ANALYST: <u>E.S.</u>
BATCH #: <u>T02-08-109</u>	CLIENT ID #: <u>05</u>
SAMPLE ID #: <u>T02-08-109-1766</u>	VOLUME (lt): <u>1000 1440</u>
G.O. AREA (mm ²): <u>0.012422</u>	GO's TO ANALYZE: <u>15</u>
MAGNIFICATION: <u>19K</u>	ACC. VOLTAGE (KeV): <u>100</u>
INSTRUMENT: <u>JEOL 100CX II</u>	FILTER AREA (mm ²): <u>385</u>
ANALYTICAL METHODOLOGY: EPA FEDERAL REGISTER, VOL. 52, No 210, OCT. 30, 1987, #40 CFR, PART 763, APPENDIX A TO SUBPART E	

GRI D	GO ID	Str. #	Str. Classf.	L (μm)	W (μm)	Structure sketch	SAE D	EDXA	PHO TO#	ID
A	D4	1	M	10.0	3.0		Auth	Hg, Si, Fe		Auth
	H2	1	M	8.0	2.8		Auth	-/-		Auth
	E8	NSD								
B	B2	NSD								
	H6	1	M	>5.0			chr	Mg, Si, Fe		chr

Analytical Sensitivity (str/cm ²): <u>0.0043</u>	Eucentricity check:
Concentration (str/cm ²): <u>0.0129</u>	*Grid acceptance criteria check: (A) ☒ (B) ☒
Concentration (str/mm ²): <u>48.30</u>	**CHR. # STRUCT.: F ☐ M ☐ C ☐ B ☐
Number of Asbestos Structures: 0.5 ≤ S < 5 μm: <u>01</u>	**AMPH. # STRUCT.: F ☐ M ☐ C ☐ B ☐
S ≥ 5 μm: <u>02</u>	Specify AMPH. Type: AM. ACT. TRE.
Number of Non-asbestos Structures: <u>0</u>	CRO. ANTH. <u>02</u>

*Replica covers >50%, at least 20 GO's with no overlapping or folded replica, intact GO's have >50% coverage, <50% Undissolved filter, <5% holes or opaque areas, <10% particulate coverage.

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CLIENT: <u>WAPPEN & PANZER</u>	DATE: <u>8/21/02</u>
PROJECT: <u>ST. PETER CHURCH</u>	ANALYST: <u>E.S.</u>
BATCH #: <u>T02-08-109</u>	CLIENT ID #: <u>09</u>
SAMPLE ID #: <u>T02-08-109-1767</u>	VOLUME (lt): <u>1680</u>
G.O. AREA (mm ²): <u>0.012422</u>	GO's TO ANALYZE: <u>4</u>
MAGNIFICATION: <u>19K</u>	ACC. VOLTAGE (KeV): <u>100</u>
INSTRUMENT: <u>JEOL 100CX II</u>	FILTER AREA (mm ²): <u>385</u>
ANALYTICAL METHODOLOGY: EPA FEDERAL REGISTER, VOL. 52, No 210, OCT. 30, 1987, #40 CFR, PART 763, APPENDIX A TO SUBPART E	

GRI D	GO ID	Str. #	Str. Classf.	L (μm)	W (μm)	Structure sketch	SAE D	EDXA	PHO TO#	ID
B	H4	USD								
	E6	USD								
A	G3	USD								
	D6	USD								

Analytical Sensitivity (str/cm ²): <u>0.0046</u>	Eucentricity check:
Concentration (str/cm ²): <u><0.0046</u>	*Grid acceptance criteria check: (A)...✓ (B)...✓
Concentration (str/mm ²): <u><20.13</u>	**CHR. # STRUCT.: F M C B
Number of Asbestos Structures: 0.5 ≤ S < 5 μm ... <u>0..</u>	**AMPH. # STRUCT.: F M C B
S ≥ 5 μm <u>0..</u>	Specify AMPH. Type: AM. ACT. TRE.
Number of Non-asbestos Structures: <u>0..</u>	CRO. ANTH.

*Replica covers >50%, at least 20 GO's with no overlapping or folded replica, intact GO's have >50% coverage, <50% Undissolved filter, <5% holes or opaque areas, <10% particulate coverage.

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CLIENT: WARREN & PANZER	DATE: 8/21/02
PROJECT: ST. PETER CHURCH	ANALYST: E.S.
BATCH #: T02-08-109	CLIENT ID #: 10
SAMPLE ID #: T02-08-109-1768	VOLUME (lt): 1680
G.O. AREA (mm ²): 0.012422	GO's TO ANALYZE: 4
MAGNIFICATION: 19K	ACC. VOLTAGE (KeV): 100
INSTRUMENT: JEOL 100CX II	FILTER AREA (mm ²): 385
ANALYTICAL METHODOLOGY: EPA FEDERAL REGISTER, VOL. 52, No 210, OCT. 30, 1987, #40 CFR, PART 763, APPENDIX A TO SUBPART E	

[illegible]

Analytical Sensitivity (str/cm ²):	0.0046	Eucentricity check:	
Concentration (str/cm ²):	40.0046	*Grid acceptance criteria check:	(A) ✓ (B) ...
Concentration (str/mm ²):	420.13	**CHR. # STRUCT.:	F M C B
Number of Asbestos Structures:	0.5 ≤ S < 5 μm ... 0.	**AMPH. # STRUCT.:	F M C B
	S ≥ 5 μm 0.	Specify AMPH. Type:	AM. ACT. TRE.
Number of Non-asbestos Structures:	 0.	CRO. ANTH.	

*Replica covers >50%, at least 20 GO's with no overlapping or folded replica, intact GO's have >50% coverage, <50% Undissolved filter, <5% holes or opaque areas, <10% particulate coverage.

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CLIENT: WAPPEN & PANZER	DATE: 8/21/02
PROJECT: ST. PETER CHURCH	ANALYST: E.S.
BATCH #: T02-08-109	CLIENT ID #: 11
SAMPLE ID #: T02-08-109-1769	VOLUME (lit): 1680
G.O. AREA (mm ²): 0.012422	GO's TO ANALYZE: 4
MAGNIFICATION: 19K	ACC. VOLTAGE (KeV): 100
INSTRUMENT: JEOL 100CX II	FILTER AREA (mm ²): 385
ANALYTICAL METHODOLOGY: EPA FEDERAL REGISTER, VOL. 52, No 210, OCT. 30, 1987, #40 CFR, PART 763, APPENDIX A TO SUBPART E	

[illegible]

Analytical Sensitivity (str/cm ²):	0.0046	Eucentricity check:	
Concentration (str/cm ²):	40.0046	*Grid acceptance criteria check:	(A)...✓ (B)...✓
Concentration (str/mm ²):	220.13	**CHR. # STRUCT.:	F M C B
Number of Asbestos Structures:	0.5 ≤ S < 5 μm : 0..	**AMPH. # STRUCT.:	F M C B
	S ≥ 5 μm : 0.	Specify AMPH. Type:	AM. ACT. TRE.
Number of Non-asbestos Structures:	6	CRO. ANTH.	

* Replica covers >50%, at least 20 GO's with no overlapping or folded replica, intact GO's have >50% coverage, <50% Undissolved filter, <5% holes or opaque areas, <10% particulate coverage.

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CLIENT: <u>WAPPEN # PANZER</u>	DATE: <u>8/21/02</u>
PROJECT: <u>ST-PETER CHURCH</u>	ANALYST: <u>E.S.</u>
BATCH #: <u>T02-08-109</u>	CLIENT ID #: <u>12</u>
SAMPLE ID #: <u>T02-08-109-1770</u>	VOLUME (lt): <u>1680</u>
G.O. AREA (mm ²): <u>0.012422</u>	GO's TO ANALYZE: <u>4</u>
MAGNIFICATION: <u>19K</u>	ACC. VOLTAGE (KeV): <u>100</u>
INSTRUMENT: <u>JEOL 100CX II</u>	FILTER AREA (mm ²): <u>385</u>
ANALYTICAL METHODOLOGY: EPA FEDERAL REGISTER, VOL. 52, No 210, OCT. 30, 1987, #40 CFR, PART 763, APPENDIX A TO SUBPART E	

GRI D	GO ID	Str. #	Str. Classf.	L (μm)	W (μm)	Structure sketch	SAE D	EDXA	PHO TO#	ID
<u>A</u>	<u>H9</u>	<u>NSD</u>								
	<u>C6</u>	<u>NSD</u>								
<u>B</u>	<u>F7</u>	<u>NSD</u>								
	<u>C5</u>	<u>NSD</u>								

Analytical Sensitivity (str/cm ³): <u>0.0046</u>	Eucentricity check:
Concentration (str/cm ³): <u><0.0046</u>	*Grid acceptance criteria check: (A) <u>✓</u> (B) <u>✓</u>
Concentration (str/mm ²): <u><20.13</u>	**CHR. # STRUCT.: F M C B
Number of Asbestos Structures: 0.5 ≤ S < 5 μm <u>0</u>	**AMPH. # STRUCT.: F M C B
S ≥ 5 μm <u>0</u>	Specify AMPH. Type: AM. ACT. TRE.
Number of Non-asbestos Structures: <u>0</u>	CRO. ANTH.

*Replica covers >50%, at least 20 GO's with no overlapping or folded replica, intact GO's have >50% coverage, <50% Undissolved filter, <5% holes or opaque areas, <10% particulate coverage.

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CLIENT: <u>WAPPEN & PANZER</u>	DATE: <u>8/21/02</u>
PROJECT: <u>ST. PETER CHURCH</u>	ANALYST: <u>E.S.</u>
BATCH #: <u>T02-08-109</u>	CLIENT ID #: <u>13</u>
SAMPLE ID #: <u>T02-08-109-1771</u>	VOLUME (10): <u>1680</u>
G.O. AREA (mm ²): <u>0.012422</u>	GO's TO ANALYZE: <u>4</u>
MAGNIFICATION: <u>19K</u>	ACC. VOLTAGE (KeV): <u>100</u>
INSTRUMENT: <u>JEOL 100CX II</u>	FILTER AREA (mm ²): <u>385</u>
ANALYTICAL METHODOLOGY: EPA FEDERAL REGISTER, VOL. 52, No 210, OCT. 30, 1987, #40 CFR, PART 763, APPENDIX A TO SUBPART E	

GRI D	GO ID	Str. #	Str. Classf.	L (μm)	W (μm)	Structure sketch	SAE D	EDXA	PHO TO#	ID
B	C5	MSD								
	G3	MSD								
A	C2	MSD								
	FS	MSD								

Analytical Sensitivity (str/cm ²): <u>0.0046</u>	Eucentricity check:
Concentration (str/cm ²): <u><0.0046</u>	*Grid acceptance criteria check: (A) ☒ (B) ☒
Concentration (str/mm ²): <u><20.13</u>	**CHR. # STRUCT.: F M C B
Number of Asbestos Structures: 0.5 ≤ S < 5 μm <u>0</u>	**AMPH. # STRUCT.: F M C B
S ≥ 5 μm <u>0</u>	Specify AMPH. Type: AM. ACT. TRE.
Number of Non-asbestos Structures: <u>0</u>	CRO. ANTH.

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