NYC 9/11 Public Portal Document

ATHENICA
ENVIRONMENTAL SERVICES INC.

46-09 Greenpoint Avenue
Long Island City, N.Y. 11104

Tel. (718) 784-7490
Fax (718) 784-4086

## TEM DEPARTMENT

## TEM AHERA COUNTSHEET

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|---|---|
| CLIENT : WARREN & PANZER | DATE : 11/11/02 |
| PROJECT : NYCDEP/17 BATTERY PL | ANALYST : END |
| BATCH # : T02-11-056 | CLIENT ID # : 01 |
| SAMPLE ID # : T02-11-056-3985 | VOLUME (lt) : 1640 |
| G.O. AREA ($mm^2$) : 0.013433 | 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 | |

| GRID | GO ID | Str. # | Str. Classf. | L (µm) | W (µm) | Structure sketch | SAED | EDXA | PHOTO# | ID |
|---|---|---|---|---|---|---|---|---|---|---|
| A | G9 | NSD | | | | | | | | |
| | C2 | NSD | | | | | | | | |
| B | F2 | NSD | | | | | | | | |
| | D8 | NSD | | | | | | | | |
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| Analytical Sensitivity (str/$cm^3$): 0.0044 | Eucentricity check : ✓ |
| Concentration (str/$cm^3$) : <0.0044 | *Grid acceptance criteria check : (A)..✓.. (B)..✓.. |
| Concentration (str/$mm^2$) : <18.61 | **CHR. # STRUCT. : F M C B |
| Number of Asbestos Structures : 0.5≤S<5µm ..0.. | **AMPH. # STRUCT.:F M C B |
| S≥5µm ....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.

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

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## TEM AHERA COUNTSHEET

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| CLIENT : WARREN & PANZER | DATE : 11/11/02 |
| PROJECT : NYCDEP/17 BATTERY PL | ANALYST : END |
| BATCH # : T02-11-056 | CLIENT ID # : 02 |
| SAMPLE ID # : T02-11-056-3986 | VOLUME (lt) : 1640 |
| G.O. AREA ($mm^2$) : 0.013433 | 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 | |

| GRID | GO ID | Str. # | Str. Classf. | L (µm) | W (µm) | Structure sketch | SAED | EDXA | PHOTO# | ID |
|---|---|---|---|---|---|---|---|---|---|---|
| B | 1B | N>2 | | | | | | | | |
| | B7 | N>2 | | | | | | | | |
| A | G3 | N>2 | | | | | | | | |
| | F7 | N>2 | | | | | | | | |
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|---|---|
| Analytical Sensitivity (str/$cm^3$): 0.0044 | Eucentricity check : ✓ |
| Concentration (str/$cm^3$) : <0.0044 | *Grid acceptance criteria check : (A)..✓. (B)..✓ |
| Concentration (str/$mm^2$) : <18.61 | **CHR. # STRUCT. : F M C B |
| Number of Asbestos Structures : 0.5≤S<5µm ....0.... | **AMPH. # STRUCT.:F M C B |
| S≥5µm ....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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## TEM DEPARTMENT

## TEM AHERA COUNTSHEET

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|---|---|
| CLIENT : WARREN & PANZER | DATE : 11/11/02 |
| PROJECT : NYCDEP/17 BATTERY PL | ANALYST : END |
| BATCH # : T02-11-056 | CLIENT ID # : 03 |
| SAMPLE ID # : T02-11-056-3987 | VOLUME (lt) : 1640 |
| G.O. AREA ($mm^2$) : 0.013433 | 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 | |

| GRID | GO ID | Str. # | Str. Classf. | L (µm) | W (µm) | Structure sketch | SAED | EDXA | PHOTO# | ID |
|---|---|---|---|---|---|---|---|---|---|---|
| A | 47 | NOD | | | | | | | | |
| | D6 | NOD | | | | | | | | |
| B | B2 | NOD | | | | | | | | |
| | I4 | NOD | | | | | | | | |
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| Analytical Sensitivity (str/$cm^3$): 0.0044 | Eucentricity check : ✓ |
| Concentration (str/$cm^3$) : <0.0044 | *Grid acceptance criteria check : (A)..✓.. (B)..✓.. |
| Concentration (str/$mm^2$) : <18.61 | **CHR. # STRUCT. : F M C B |
| Number of Asbestos Structures : 0.5≤S<5µm ...0. | **AMPH. # STRUCT.: F M C B |
| S≥5µm .....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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TEM DEPARTMENT

Tel. (718) 784-7490
Fax (718) 784-4066

# TEM AHERA COUNTSHEET

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|---|---|
| CLIENT : WARREN & PANZER | DATE : 11/11/02 |
| PROJECT : NYCDEP/17 BATTERY PL | ANALYST : END |
| BATCH # : T02-11-056 | CLIENT ID # : 04 |
| SAMPLE ID # : T02-11-056-3988 | VOLUME (lt) : 1640 |
| G.O. AREA (mm$^2$) : 0.013433 | 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 | |

| GRID | GO ID | Str. # | Str. Classf. | L (µm) | W (µm) | Structure sketch | SAED | EDXA | PHOTO# | ID |
|---|---|---|---|---|---|---|---|---|---|---|
| B | H9 | NSD | | | | | | | | |
| | C7 | NSD | | | | | | | | |
| A | C4 | NSD | | | | | | | | |
| | G3 | NSD | | | | | | | | |
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|---|---|
| Analytical Sensitivity (str/cm$^3$): 0.0044 | Eucentricity check : ✓ |
| Concentration (str/cm$^3$) : <0.0044 | *Grid acceptance criteria check : (A)..✓... (B)..✓... |
| Concentration (str/mm$^2$) : <1861 | **CHR. # STRUCT. : F M C B |
| Number of Asbestos Structures : 0.5≤S<5µm ..0.. | **AMPH. # STRUCT.: F M C B |
| S≥5µm .....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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## TEM DEPARTMENT

## TEM AHERA COUNTSHEET

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|---|---|
| CLIENT : WARREN & PANZER | DATE : 11/11/02 |
| PROJECT : NYCDEP/17 BATTERY PL | ANALYST : END |
| BATCH # : T02-11-056 | CLIENT ID # : 05 |
| SAMPLE ID # : T02-11-056-3989 | VOLUME (lt) : 1640 |
| G.O. AREA ($mm^2$) : 0.013433 | 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 | |

| GRID | GO ID | Str. # | Str. Classf. | L (µm) | W (µm) | Structure sketch | SAED | EDXA | PHOTO# | ID |
|---|---|---|---|---|---|---|---|---|---|---|
| A | H3 | NAD | | | | | | | | |
| | B2 | NAD | | | | | | | | |
| B | D3 | NAD | | | | | | | | |
| | E10 | NAD | | | | | | | | |
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|---|---|
| Analytical Sensitivity (str/$cm^3$): 0.0044 | Eucentricity check : ✓ |
| Concentration (str/$cm^3$) : <0.0044 | *Grid acceptance criteria check : (A) ✓ (B) ✓ |
| Concentration (str/$mm^2$) : <1861 | **CHR. # STRUCT. : F M C B |
| Number of Asbestos Structures : 0.5≤S<5µm ...0. | **AMPH. # STRUCT.: F M C B |
| S≥5µm .....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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