

# Solar Environmental Services, Inc.

7401 Meadow Street  
Anchorage, AK 99507  
Web site: <http://www.alaska.net/~sesenvir/>

Phone: (907) 349-7705  
Fax: (907) 349-7944  
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## FACSIMILE TRANSMITTAL SHEET

**To:** Trig -UAA

**From:** Grace Torrijos

**Company:** Solar Environmental Services, Inc.

**Fax #:** 786-1370

**Office Telephone #:** (907) 349-7705

**Date/Time:** 4/5/2006 3:52:49 PM

**Fax #:** (907) 349-7944

**Subject:** Testing Results-Gordon Hartlieb Laboratory

**Number of Pages:** 2

**Note:** Thank you

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## CERTIFICATE OF ANALYSIS

**CLIENT:** University of Alaska Anchorage  
**ATTN:** Trig Trigiano  
3890 University Lake Dr  
Anchorage, AK 99508

**CLIENT ORDER #:** 196061  
**PROJECT NAME:** Gordon Hartlieb Bldg Laboratory  
**PROJECT #:** Gordon Hartlieb Bldg Laboratory  
**REPORT #:** B2006-40  
**REPORT DATE:** March 30, 2006  
**COLLECTED BY:** Joe Torrijos  
**DATE SAMPLED:** March 27, 2006  
**DATE RECEIVED:** March 27, 2006  
**DATE ANALYZED:** March 30, 2006  
**ANALYZED BY:** Joshua T.

**PAGE:** 1 of 1

### BULK ASBESTOS ANALYSIS REPORT POLARIZED LIGHT MICROSCOPY (PLM) EPA METHOD 600R93116

| LAB. #      | CLIENT#       | DESCRIPTION/<br>LOCATION/<br>COLOR  | % ASBESTOS<br>PRESENT  | % OTHER FIBROUS<br>MATERIALS     | %NONFIBROUS<br>MATERIALS |
|-------------|---------------|---|--|----------------------------------|--------------------------|
| 2006531B088 | Tile & Mastic | Tile/Mastic<br>(Off-white/Black)<br>UAA Gordon<br>Hartlieb Bldg-<br>Laboratory Area<br>South Side<br>Approx. 256 sq. feet | <b>Tile:</b><br>1-5% Chrysotile<br><b>Mastic:</b><br>5-8% Chrysotile | 1-5% Cellulose<br>1-5% Cellulose | 90-98%<br>87-94%         |

End of Report

All quantitations are based on visual estimation unless point counting method, per NESHAP 40 CFR Part 61, is requested by client. Test report relates only to the items tested and must not be used by client to claim product endorsement by NVLAP or any Agency of the U.S. Government. Test report must not be reproduced except in full without the approval of SES and subject to SES general terms and conditions. Small asbestos fibers may be missed by PLM Method due to resolution limitations of the optical microscope. Therefore, None Detected and <1% PLM results cannot be guaranteed. Transmission Electron Microscopy (TEM) is recommended for confirmation.

REVIEWED AND APPROVED BY: \_\_\_\_\_  
Gracita O. Torrijos, Chemist – I.H.

Date: \_\_\_\_\_

FORM# SES 1008 REVISED 6/17/98

**AIHA – AAR – PAT Certified**



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## FACSIMILE TRANSMITTAL SHEET

|               |                      |                                     |         |
|---------------|----------------------|-------------------------------------|---------|
| TO:           | Trig Trigiama        | FROM:                               | Ryan    |
| COMPANY:      | UAA                  | DATE:                               | 5/12/06 |
| FAX NUMBER:   | 786-1370             | TOTAL NO. OF PAGES INCLUDING COVER: | 4       |
| PHONE NUMBER: | 786-7753             | SENDER'S REFERENCE NUMBER:          |         |
| RE:           | Results for 108B/UAA | YOUR REFERENCE NUMBER:              |         |

URGENT  
 FOR REVIEW  
 PLEASE COMMENT  
 PLEASE REPLY  
 PLEASE RECYCLE

### NOTES/COMMENTS:

This fax contains the results for UAA/RM 108B,  
(UAA/RM 108B ID# UAA-E1 to UAA-E2, 040607600 - UAA/RM  
108B ID# E-1 to E-2; Hartlieb Bldg Room 108B ID#  
UAA-E1 to UAA-FB2). Thank you.

*This communication is intended only for the individual or entity to whom it is directed. It may contain information that is privileged, confidential, or otherwise exempt from disclosure under applicable law. Dissemination, distribution, or copying of this communication by anyone other than the intended recipient, or a duly designated employee or agent of such recipient, is prohibited. If you have received this communication in error, please notify us immediately by telephone at (907) 349-7705, or via e-mail, and delete this message and all attachments thereto. Thank you.*

AIHA-AAR -PAT Certified



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

Phone: (856) 858-4800 Fax: (856) 858-4960 Email: westmontlab@EMSL.com

Attn: **Joe Torrijos**  
**Solar Environmental Services, Inc.**  
 7401 Meadow Street  
 Anchorage, AK 99507

Customer ID: SOLA50  
 Customer PO: 1733-42108  
 Received: 04/24/08 9:35 AM  
 EMSL Order: 040607600

Fax: (907) 349-7944 Phone: (907) 349-7705  
 Project: UAA/RM 108B

EMSL Proj:  
 Analysis Date: 4/25/2006  
 Report Date: 4/25/2006

**Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)**

| Sample                   | Volume (Liters) | Area Analyzed (mm <sup>2</sup> ) | Non Ash | Asbestos Type(s) | # Structures |      | Analytical Sensitivity (f/cc) | Asbestos Concentration |        | Notes   |
|--------------------------|-----------------|----------------------------------|---------|------------------|--------------|------|-------------------------------|------------------------|--------|---|
|                          |                 |                                  |         |                  | ≥ 0.5µ < 5µ  | ≥ 5µ |                               | (f/mm <sup>3</sup> )   | (f/cc) |   |
| UAA-E1<br>040607600-0001 | 1200.00         |                                  |         | Overloaded       |              |      |                               |                        |        | Both filters are overloaded with particulates, unsuitable for AHERA analysis. |
| UAA-E2<br>040607600-0002 | 1200.00         |                                  |         | Overloaded       |              |      |                               |                        |        |   |

Analyst(s)

Anant Samudra (2)

Stephen Siegel, CIH  
 or other approved signatory

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm<sup>3</sup>. This report may not be reproduced, except in full, without written approval by EMSL. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report refers only to the analyses reported above. Quality control data (including 95% confidence limits and laboratory and analyst accuracy and precision) is available upon request. As per 40 CFR 763, the initial screening test may not be applied to samples with collected volumes of <1200 liters. The test results contained within this report meet the requirements of NELAP unless otherwise noted.  
 Accredited for NVLAP PLM/TEM #101048-0, NY State ELAP #10872

TEMAHERA-1

**THIS IS THE LAST PAGE OF THE REPORT.**

1



**EMSL Analytical, Inc.**  
 107 Madison Ave., Westport, NJ 08086  
 Phone: (907) 349-4930 Fax: (907) 349-4838 Email: [eslab@emsl.com](mailto:eslab@emsl.com)

**Atn: Joe Torrijos**  
**Solar Environmental Services, Inc.**  
**7401 Meadow Street**  
**Anchorage, AK 99507**

Fax: (907) 349-7944 Phone: (907) 349-7705  
 Project: 040607600 -UAA/RM 108B

Customer ID: SOLA50  
 Customer PO: 1733-42106  
 Received: 04/25/06 3:00 PM  
 EMSL Order: 040607748  
 EMSL Proj:  
 Analysis Date: 4/26/2006  
 Report Date: 4/26/2006

**Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)**

| Sample                | Volume (Liters) | Area Analyzed      |         | Asbestos Type(s) | # Structures |      | Analytical Sensitivity (S/cc) | Asbestos Concentration |         | Notes |
|-----------------------|-----------------|--------------------|---------|------------------|--------------|------|-------------------------------|------------------------|---------|-------|
|                       |                 | (mm <sup>2</sup> ) | Non Asb |                  | ≥ 0.5μ < 5μ  | ≥ 5μ |                               | (S/mm <sup>2</sup> )   | (S/cc)  |       |
| E-1<br>040607748-0001 | 1200.00         | 0.0005             | 0       | None Detected    |              |      | 0.6600                        | <2100.00               | <0.6600 |       |
| E-2<br>040607748-0002 | 1200.00         | 0.0010             | 0       | None Detected    |              |      | 0.3300                        | <1000.00               | <0.3300 |       |

TEM AHERA Modified for Indirect Prep and Analysis

Analyst(s)  
 Anant Samudra (2)

*Stephen Siegel*  
 Stephen Siegel, CIH  
 or other approved signatory

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 Accredited for: NVLAP: PLM-TEM #101048-0, NY State ELAP #10872



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## ASBESTOS MONITORING REPORT AIHA-AAR ASBESTOS ANALYSTS REGISTERED APPROVED LABORATORY PHASE CONTRAST MICROSCOPY NIOSH 7400 METHOD

MAY 12 06 11:22a

Solar Environmental SVS

907-349-7944

P. 4

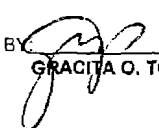
CLIENT: UAA  
 ATTN : TRIG TRIGIANO  
 3890 UNIVERSITY LAKE DR.  
 ANCHORAGE, AK 99508  
 PROJECT: Hartlieb Bldg Room 108 B

CLIENT ORDER # : 196016  
 PROJECT NUMBER: Hartlieb Bldg Room 100 B  
 REPORT NUMBER : A2006-29  
 REPORT DATE : APRIL 14, 2006  
 COLLECTED BY : JOE TORRIJOS

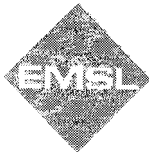
| LAB ID#       | CLIENT'S ID # | LOCATION          | DATE SAMPLED | VOLUME (LITERS) | FILTER DENSITY (f/mm2) | LIMIT OF DETECTION (LOD) f/cc | RESULTS (f/cc) | 95% UPPER CONFIDENCE LEVEL | TIME WEIGHTED AVERAGE |
|---------------|---------------|-------------------|--------------|-----------------|------------------------|-------------------------------|----------------|----------------------------|-----------------------|
| 2006531AO 184 | UAA-E1        | EAST OF 108B      | 10-Apr-06    | 1200.00         | 0.00                   | 0.003                         | *              | 0.003                      |                       |
| 2006531AO 185 | UAA-E2        | NORTHWEST OF 108B | 10-Apr-06    | 1200.00         | 0.00                   | 0.003                         | *              | 0.003                      |                       |
| 2006531AO 186 | UAA-E3        | WEST OF 108B      | 10-Apr-06    | 1200.00         | 0.00                   | 0.003                         | *              | 0.003                      |                       |
| 2006531AO 187 | UAA-E4        | MIDDLE OF 108B    | 10-Apr-06    | 1200.00         | 0.00                   | 0.003                         | *              | 0.003                      |                       |
| 2006531AO 188 | UAA-E5        | SOUTHWEST OF 108B | 10-Apr-06    | 1200.00         | 0.00                   | 0.003                         | *              | 0.003                      |                       |
| 2006531AO 189 | UAA-FB1       | FIELD BLANK       | 10-Apr-06    | 0.00            | 1.27                   | N/A                           | N/A            | N/A                        |                       |
| 2006531AO 190 | UAA-FB2       | FIELD BLANK       | 10-Apr-06    | 0.00            | 0.00                   | N/A                           | N/A            | N/A                        |                       |

REMARKS: \* SAMPLES UAA-E1 TO UAA-E5 WERE OVERLOADED  
 ANALYZED BY: JOE TORRIJOS

DATE ANALYZED: 04/14/06

APPROVED BY:   
 GRACITA O. TORRIJOS, CHEMIST-I.H.

DATE: 4/27/06 PAGE 1 OF 1



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Attn: **Joe Torrijos**  
**Solar Environmental Services, Inc.**  
**7401 Meadow Street**  
**Anchorage, AK 99507**

Fax: (907) 349-7944 Phone: (907) 349-7705  
Project: **040607600 -JAA/RM 108B**

Customer ID: SOLA50  
Customer PO: 1733-42106  
Received: 04/25/06 3:00 PM  
EMSL Order: 040607748  
EMSL Proj:  
Analysis Date: 4/26/2006  
Report Date: 4/26/2006

**Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)**

| Sample                | Volume (Liters) | Area                        |         | Asbestos Type(s) | # Structures |      | Analytical Sensitivity (S/cc) | Asbestos Concentration |         | Notes |
|-----------------------|-----------------|-----------------------------|---------|------------------|--------------|------|-------------------------------|------------------------|---------|-------|
|                       |                 | Analyzed (mm <sup>2</sup> ) | Non Asb |                  | ≥ 0.5μ < 5μ  | ≥ 5μ |                               | (S/mm <sup>2</sup> )   | (S/cc)  |       |
| E-1<br>040607748-0001 | 1200.00         | 0.0005                      | 0       | None Detected    |              |      | 0.6600                        | <2100.00               | <0.6600 |       |
| E-2<br>040607748-0002 | 1200.00         | 0.0010                      | 0       | None Detected    |              |      | 0.3300                        | <1000.00               | <0.3300 |       |

TEM AHERA Modified for Indirect Prep and Analysis

Analyst(s)

Anant Samudra (2)

Stephen Siegel, CIH  
or other approved signatory

Disclaimers: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm<sup>2</sup>. This report may not be reproduced, except in full, without written approval by EMSL. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysts' accuracy and precision) is available upon request. As per 40 CFR 763, the initial screening test may not be applied to samples with collected volumes of <1200 liters. The test results contained within this report meet the requirements of NELAC unless otherwise noted.

Accredited for NVLAP PLM/TEM #101048-0, NY State ELAP #10872



EMSL Analytical, Inc.

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Attn: Joe Torrijos
Solar Environmental Services, Inc.
7401 Meadow Street
Anchorage, AK 99507

Customer ID: SOLA50
Customer PO: 1733-42106
Received: 04/24/06 9:35 AM
EMSL Order: 040607600

Fax: (907) 349-7944 Phone: (907) 349-7705
Project: UAA/RM 108B

EMSL Proj:
Analysis Date: 4/25/2006
Report Date: 4/25/2006

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Table with columns: Sample, Volume (Liters), Area Analyzed (mm²), Non Asb, Asbestos Type(s), # Structures (≥ 0.5µ < 5µ, ≥ 5µ), Analytical Sensitivity (S/cc), Asbestos Concentration (S/mm², S/cc), Notes. Rows include UAA-E1 and UAA-E2, both marked as 'Overloaded'.

Analyst(s)

Anant Samudra (2)

Handwritten signature of Stephen Siegel

Stephen Siegel, CIH
or other approved signatory

Disclaimers: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by EMSL. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysts' accuracy and precision) is available upon request. As per 40 CFR 763, the initial screening test may not be applied to samples with collected volumes of <1200 liters. The test results contained within this report meet the requirements of NELAC unless otherwise noted.

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## ASBESTOS MONITORING REPORT AIHA-AAR ASBESTOS ANALYSTS REGISTERED APPROVED LABORATORY PHASE CONTRAST MICROSCOPY NIOSH 7400 METHOD

CLIENT: UAA  
 ATTN : TRIG TRIGIANO  
 3890 UNIVERSITY LAKE DR.  
 ANCHORAGE, AK 99508  
 PROJECT: Hartlieb Bldg Room 108 B

CLIENT ORDER # : 196016  
 PROJECT NUMBER: Hartlieb Bldg Room 100 B  
 REPORT NUMBER : A2006-29  
 REPORT DATE : APRIL 14, 2006  
 COLLECTED BY : JOE TORRIJOS

| LAB ID#       | CLIENT'S ID # | LOCATION          | DATE SAMPLED | VOLUME (LITERS) | FILTER DENSITY (f/mm2) | LIMIT OF DETECTION (LOD ) f/cc | RESULTS (f/cc) | 95% UPPER CONFIDENCE LEVEL | TIME WEIGHTED AVERAGE |
|---------------|---------------|-------------------|--------------|-----------------|------------------------|--------------------------------|----------------|----------------------------|-----------------------|
| 2006531AO 184 | UAA-E1        | EAST OF 108B      | 10-Apr-06    | 1200.00         | 0.00                   | 0.003                          | *              | 0.003                      |                       |
| 2006531AO 185 | UAA-E2        | NORTHWEST OF 108B | 10-Apr-06    | 1200.00         | 0.00                   | 0.003                          | *              | 0.003                      |                       |
| 2006531AO 186 | UAA-E3        | WEST OF 108B      | 10-Apr-06    | 1200.00         | 0.00                   | 0.003                          | *              | 0.003                      |                       |
| 2006531AO 187 | UAA-E4        | MIDDLE OF 108B    | 10-Apr-06    | 1200.00         | 0.00                   | 0.003                          | *              | 0.003                      |                       |
| 2006531AO 188 | UAA-E5        | SOUTHWEST OF 108B | 10-Apr-06    | 1200.00         | 0.00                   | 0.003                          | *              | 0.003                      |                       |
| 2006531AO 189 | UAA-FB1       | FIELD BLANK       | 10-Apr-06    | 0.00            | 1.27                   | N/A                            | N/A            | N/A                        |                       |
| 2006531AO 190 | UAA-FB2       | FIELD BLANK       | 10-Apr-06    | 0.00            | 0.00                   | N/A                            | N/A            | N/A                        |                       |

REMARKS: \* SAMPLES UAA-E1 TO UAA-E5 WERE OVERLOADED  
 ANALYZED BY: JOE TORRIJOS

DATE ANALYZED: 04/14/06

APPROVED BY:

GRACITA O. TORRIJOS, CHEMIST-I.H.

DATE: 4/27/06 PAGE 1 OF 1

