**ASBESTOS AND LEAD BASE PAINT ABATEMENT**
**CLOSE OUT REPORT**
**OLIVER RUBBER COMPANY**
**1200 65TH STREET**
**EMERYVILLE, CA**
**94698**

ST1D1330

PREPARED BY:
**CST ENVIRONMENTAL, INC.**
**15003 WICKS BUSINESS PARK**
**SAN LEANDRO, CA 94577**
**EDWARD FRANK**
**BUSINESS DEVELOPMENT**

signature?

**SEPTEMBER 4, 1998**

CST Environmental, Inc is a fully licenced and insured asbestos and lead abatement company, all work was done in accordance with all local, State and Federal regulations regarding the removal and disposal of asbestos and lead.

The Oliver Rubber Company contracted with CST to remove asbestos containing materials (ACM) and loose / flaking lead base paint (LBP) from its decommissioned and vacant plant located at 1200 65th Street, Emeryville, CA. The site is a former rubber manufacturing plant which is now in the process of being sold. This abatement work was done to satisfy environmental due diligence requirements and to facilitate site case closure by the Alameda County Health Care Services Agency.

The ACM and LBP throughout the building was identified in 2 surveys completed on July 2 and July 21, 1998 by RGA Environmental, Inc. Of Emeryville, CA.

CST mobilized to begin work on August 10, 1998. ACM and LBP were removed in 5 containment phases. IHI Environmental, of Emeryville, CA, performed clearance air monitoring within each phase as ACM abatement was completed.

***All ACM abatement phases obtained satisfactory air clearances and all loose & flaking LBP was removed from the site.***

The following materials were removed between August 10 and September 1, 1998:
Approximately 1,835 SF Transite panels
Approximately 4,985 SF Vinyl Asbestos Tile (VAT) / Mastic.
Approximately 47 lf Thermal System Insulation (TSI).
Approximately 10 lf transite pipe.
Approximately 15,600 SF Sheetrock / joint compound.
Loose & peeling LBP throughout interior & exterior of building

The 5 phases are as follows:

Phase I- <u>First & Second floor office areas;</u>
August 10, 1998 CST mobilized on site, began setup of containment of the upstairs / downstairs office areas.
August 11, Construction of the containment was completed, abatement of sheet rock and flooring began.
August 14, Abatement of Phase I was completed. IHI (the Owners asbestos consultant) inspected the area visually and passed the area for encapsulation. CST thoroughly encapsulated the area. IHI took air clearance samples, results came back on August 17 satisfactory for reoccupation.
August 17, Containment of Phase I area was broken down.

Phase II- <u>R & D lab and attached office area;</u>
August 12, Began setting up containment in Phase II area.
August 14, Containment construction was completed in Phase II area.
August 17, Abatement began of sheetrock and flooring.

August 19, CST completed abatement of the Phase II area. IHI performed air clearance samples which returned unsatisfactory (Note that the type of air clearance samples being taken test for any dust, not necessarily asbestos). CST recleaned the area for a second air clearance.
Mini-containments were also setup in the upstairs phone room, supervisors office and first floor vending room and removal was completed on August 20.
August 20, second air clearance samples from IHI were returned as satisfactory.
August 21, Containment of Phase II containment was broken down.

Phase III- Second floor shower area:
August 18, Phase III containment area was completed and abatement began.
August 19, Abatement of area completed.
August 20, IHI visually inspected and passed the area, the area was then thoroughly encapsulated. IHI took air clearance tests for the area.
August 21, air clearance test results were returned satisfactory and containment was broken down.

Phase IV- Transite panels, Lead based paint (LBP), lobby and remaining first floor offices:
August 20, Removal of transite panels (which does not require containment) began. This phase also included the front lobby and the two remaining first floor offices, containment was completed and abatement started on this area.
LBP paint removal started (Note that removal of loose & peeling lead base paints does not require containment or clearances).
August 21, abatement of office areas completed, IHI conducted and passed a visual inspection, the area was then thoroughly encapsulated. IHI took air clearance samples, the results returned unsatisfactory.
August 24, Office area was recleaned and encapsulated, IHI conducted air clearance samples, results returned satisfactory on August 25, and the area containment was broken down.
August 31, Transite panel removal was completed.
September 1, LBP removal was completed.

Phase V- First floor offices / previously undiscovered & concealed VAT:
August 26, Construction of containment for this area and began abatement.
August 28, Abatement completed, IHI conducted and passed visual inspection of the area, the area was then thoroughly encapsulated. IHI began air clearance sampling.
August 31, Clearance samples returned satisfactory, and containment was broken down.

All abatement work was completed satisfactorily on September 1, 1998. Attached are clearance air monitoring lab results as well as personal air monitoring data.

A



# MICRO ANALYTICAL LABORATORIES, INC.
## PHASE CONTRAST MICROSCOPY

1098
IHI Environmental
1260 45th Street, Suite L
Emeryville, CA 94608

**PROJECT:**
**OLIVER RUBBER COMPANY**
**1200 - 65TH AVENUE**
**EMERYVILLE, CA**
**PHASE I CLEARANCE**
**PROJECT NO. 98B-2120-CM**

Date Sampled 8/14/98
Date Received 8/15/98
Total Samples 6
Micro Log In 59223

| Sample ID | Field Data | Lab Data | Fibers / cc | Limits |
|---|---|---|---|---|
| Client: 2120-8/14-01CL<br>Micro: 59223-01 8/14/98<br>FLOOR 1, S. END OF WORK AREA NEAR STAIRWELL | Time 147<br>Rate 10.00<br>Liters 1479 | Fibers 2<br>Fields 100<br>F/mm² < 7.0 | < 0.002 | LCL 0.000 UCL 0.004<br>LOD 0.002 LOQ 0.026<br>CV 0.53 |
| Client: 2120-8/14-02CL<br>Micro: 59223-02 RB 8/14/98<br>FLOOR 1, IN FRONT OF ELECTRICAL PANEL | Time 147<br>Rate 10.00<br>Liters 1470 | Fibers 1.5<br>Fields 100<br>F/mm² < 7.0 | < 0.002 | LCL 0.000 UCL 0.004<br>LOD 0.002 LOQ 0.026<br>CV 0.53 |
| Client: 2120-8/14-03CL<br>Micro: 59223-03 8/14/98<br>FLOOR 1, CENTER OF OFFICE AREA (E AREA) | Time 141<br>Rate 10.00<br>Liters 1415 | Fibers 0<br>Fields 100<br>F/mm² < 7.0 | < 0.002 | LCL 0.000 UCL 0.004<br>LOD 0.002 LOQ 0.027<br>CV 0.53 |
| Client: 2120-8/14-04CL<br>Micro: 59223-04 8/14/98<br>FLOOR 1, NEAR STAIRWELL (ABOVE LOBBY) | Time 139<br>Rate 10.00<br>Liters 1390 | Fibers 0<br>Fields 100<br>F/mm² < 7.0 | < 0.002 | LCL 0.000 UCL 0.004<br>LOD 0.002 LOQ 0.026<br>CV 0.53 |
| Client: 2120-8/14-05CL<br>Micro: 59223-05 8/14/98<br>FLOOR 1, W AREA OFFICE | Time 140<br>Rate 10.00<br>Liters 1408 | Fibers 2<br>Fields 100<br>F/mm² < 7.0 | < 0.002 | LCL 0.000 UCL 0.004<br>LOD 0.002 LOQ 0.027<br>CV 0.53 |

Technical Supervisor: _____ 8/15/98 Analyst: RB
Frank Reviola, M.S.

Laboratory AIHA Accreditation / PAT ID No.11150. Samples are analyzed using the NIOSH 7400 Method (NIOSH Manual of Analytical Methods, 4th Ed., Issue 2 of Rev. 3, 8/15/1994). The "A" Rules are used, unless otherwise noted. The limit of detection (LOD) is 7 fibers/mm². Limits of quantification for optimal precision and accuracy are 100 (LOQ) and 1300 fibers/mm². The 95% UCL and LCL (Upper and Lower Confidence Limits of the Two-sided 95% Confidence Interval) represent the highest and lowest expected concentrations (in fibers/cc) for a given fiber count, based on the reported concentration. Coefficients of variation (CV) for various fiber loadings are reported. Limits for compliance testing may be calculated by the client, using the CV and an appropriate regulatory standard, e.g. UCL = (Concentration + [1.645 x CV x Standard]). Concentrations are field blank-corrected. Time is in minutes, flow rate is in liters per minute. 8 Hour TWA: calculated time weighted average concentration (in fibers/cc) based on 8 hours. Note: the 8 hour TWA may not be statistically accurate for actual total times less than 8 hours; zero concentration is assumed for remaining time if no information is given. Micro Analytical Laboratories, Inc. assumes no responsibility for clients' interpretation of any requested TWA data or calculations in this report. This report must not be reproduced except in full, with the approval of Micro Analytical Laboratories. This report pertains only to the listed samples, as submitted to and analyzed by Micro Analytical Laboratories, Inc. Air volumes are reported as given by the client. The lab's verifiability of results is limited to fibers per mm². N/A = not applicable.

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# MICRO ANALYTICAL LABORATORIES, INC.
## PHASE CONTRAST MICROSCOPY

1098
IHI Environmental
1260 45th Street, Suite L
Emeryville, CA 94608

PROJECT:
OLIVER RUBBER COMPANY
2500 65TH STREET
EMERYVILLE, CALIFORNIA
PROJECT NO. 988-2120
Warehouse area

Date Sampled 8/19/98
Date Received 8/19/98
Total Samples 7
Micro Log In 59405

| Sample ID | Field Data | Lab Data | Fibers / cc | Limits |
|---|---|---|---|---|
| Client: 2120-616-01C<br>Micro: 59401-01 8/19/98<br>INSIDE CONTAINMENT, SOUTHWEST QUADRANT CLEARANCE AIR SAMPLE | Time<br>Rate<br>Liters 1400 | Fibers 116<br>Fields 34<br>F/mm² 434.6 | 0.112 | LCL 0.079 UCL 0.162<br>LOD 0.008 LOQ 0.026<br>CV 0.18 |
| Client: 2120-616-02C<br>Micro: 59402-02 8/19/98<br>INSIDE CONTAINMENT, SOUTHWEST QUADRANT CLEARANCE AIR SAMPLE | Time<br>Rate<br>Liters 1400 | Fibers 101.5<br>Fields 37<br>F/mm² 349.5 | 0.090 | LCL 0.066 UCL 0.132<br>LOD 0.002 LOQ 0.024<br>CV 0.18 |
| Client: 2120-616-03C<br>Micro: 59403-03 8/19/98<br>INSIDE CONTAINMENT, SOUTHEAST QUADRANT CLEARANCE AIR SAMPLE | Time<br>Rate<br>Liters 1400 | Fibers 101<br>Fields 40<br>F/mm² 321.7 | 0.084 | LCL 0.054 UCL 0.113<br>LOD 0.002 LOQ 0.028<br>CV 0.18 |
| Client: 2120-616-04C<br>Micro: 59404-04 WI 8/19/98<br>INSIDE CONTAINMENT, EAST SIDE CLEARANCE AIR SAMPLE | Time<br>Rate<br>Liters 1400 | Fibers 162<br>Fields 40<br>F/mm² 524.8 | 0.084 | LCL 0.064 UCL 0.114<br>LOD 0.008 LOQ 0.029<br>CV 0.18 |
| Client: 2120-616-05C<br>Micro: 59405-05 8/19/98<br>INSIDE CONTAINMENT, NORTH SIDE CLEARANCE AIR SAMPLE | Time<br>Rate<br>Liters 1450 | Fibers 122<br>Fields 36<br>F/mm² 371.2 | 0.086 | LCL 0.062 UCL 0.130<br>LOD 0.008 LOQ 0.026<br>CV 0.18 |

Technical Supervisor: Mark Oliver 8/19/98 Analyst: TG
Fpr Frank Flavia, M.S.

Laboratory AIHA Accreditation / PAT ID No.11780. Samples are analyzed using the NIOSH 7400 Method (NIOSH Manual of Analytical Methods, 4th Ed., Issue 2 of Rev. 3, 8/15/1994). The "A" Rules are used, unless otherwise noted. The limit of detection (LOD) is 7 fibers/mm². Limits of quantification for optimal precision and accuracy are 190 (LOQ) and 1300 fibers/mm². The 95% UCL and LCL (Upper and Lower Confidence Limits of the Two-sided 95% Confidence Interval) represent the highest and lowest expected concentrations (in fibers/cc) for a given fiber count, based on the reported concentration. Coefficients of variation (CV) for various fiber loadings are reported. Limits for compliance testing may be calculated by the client, using the CV and an appropriate regulatory standard, e.g. UCL = (Concentration ± [1.645 x CV x standard]). Concentrations are field blank-corrected. Time is in minutes, flow rate is in liters per minute. 8 Hour TWA: calculated time weighted average concentration (in fibers/cc) based on 8 hours. Note: the 8 hour TWA may not be statistically accurate for actual total times less than 8 hours; zero concentration is assumed for remaining time if no information is given. Micro Analytical Laboratories, Inc. assumes no responsibility for clients' interpretation of any requested TWA data or calculations in this report. This report must not be reproduced except in full, with the approval of Micro Analytical Laboratories. This report pertains only to the listed samples, as submitted to and analyzed by Micro Analytical Laboratories, Inc. Air volumes are reported as given by the client. The lab's verifiability of results is limited to fibers per mm². N/A = not applicable.

C



# MICRO ANALYTICAL LABORATORIES, INC.
## PHASE CONTRAST MICROSCOPY

1098
IHI Environmental
1260 45th Street, Suite L
Emeryville, CA 94608

PROJECT:
OLIVER RUBBER COMPANY
2500 65TH STREET
EMERYVILLE, CA
WAREHOUSE AREA
PROJECT NO. 98B-2120

Date Sampled 8/20/98
Date Received 8/20/98
Total Samples 7
Micro Log In 59437

| Sample ID | Field Data | Lab Data | Fibers / cc | Limits |
|---|---|---|---|---|
| Client: 2120-820-01C<br>Micro: 59437-01 8/20/98<br>INSIDE CONTAINMENT<br>SOUTHWEST QUADRANT | Time 134<br>Rate 10.0<br>Liters 1340 | Fibers 13.5<br>Fields 100<br>F/mm² 17.2 | 0.005 | LCL 0.000 UCL 0.010<br>LOD 0.002 LOQ 0.029<br>CV 0.53 |
| Client: 2120-820-02C<br>Micro: 59437-02 8/20/98<br>INSIDE CONTAINMENT<br>SOUTHWEST QUADRANT | Time 134<br>Rate 10.0<br>Liters 1340 | Fibers 15.5<br>Fields 100<br>F/mm² 19.7 | 0.006 | LCL 0.000 UCL 0.012<br>LOD 0.002 LOQ 0.029<br>CV 0.53 |
| Client: 2120-820-03C<br>Micro: 59437-03 8/20/98<br>INSIDE CONTAINMENT<br>SOUTHEAST CORNER | Time 135<br>Rate 10.0<br>Liters 1350 | Fibers 17.5<br>Fields 100<br>F/mm² 22.3 | 0.006 | LCL 0.000 UCL 0.013<br>LOD 0.002 LOQ 0.029<br>CV 0.53 |
| Client: 2120-820-04C<br>Micro: 59437-04 HD 8/20/98<br>INSIDE CONTAINMENT<br>BABY SIDE | Time 134<br>Rate 10.0<br>Liters 1340 | Fibers 18.5<br>Fields 100<br>F/mm² 23.6 | 0.007 | LCL 0.002 UCL 0.011<br>LOD 0.002 LOQ 0.029<br>CV 0.35 |
| Client: 2120-820-05C<br>Micro: 59437-05 8/20/98<br>INSIDE CONTAINMENT<br>NORTH SIDE | Time 134<br>Rate 10.0<br>Liters 1340 | Fibers 23<br>Fields 100<br>F/mm² 29.3 | 0.008 | LCL 0.003 UCL 0.014<br>LOD 0.002 LOQ 0.029<br>CV 0.35 |

Technical Supervisor: Mark Oliveros 8/20/98 Analyst: HD
For Frank Rayola, M.S.

Laboratory AIHA Accreditation / PAT ID No.11150. Samples are analyzed using the NIOSH 7400 Method (NIOSH Manual of Analytical Methods, 4th Ed., Issue 2 of Rev. 3, 8/15/1994). The 'A' Rules are used, unless otherwise noted. The limit of detection (LOD) is 7 fibers/mm². Limits of quantification for optimal precision and accuracy are 100 (LOQ) and 1300 fibers/mm². The 95% UCL and LCL (Upper and Lower Confidence Limits of the Two-sided 95% Confidence Interval) represent the highest and lowest expected concentrations (in fibers/cc) for a given fiber count, based on the reported concentration. Coefficients of variation (CV) for various fiber loadings are reported. Limits for compliance testing may be calculated by the client, using the CV and an appropriate regulatory standard, e.g. UCL = (Concentration + [1.645 x CV x Standard]). Concentrations are field blank-corrected. Time is in minutes, flow rate is in liters per minute. 8 Hour TWA: calculated time weighted average concentration (in fibers/cc) based on 8 hours. Note: the 8 hour TWA may not be statistically accurate for actual total times less than 8 hours; zero concentration is assumed for remaining time if no information is given. Micro Analytical Laboratories, Inc. assumes no responsibility for clients' interpretation of any requested TWA data or calculations in this report. This report must not be reproduced except in full, with the approval of Micro Analytical Laboratories. This report pertains only to the listed samples, as submitted to and analyzed by Micro Analytical Laboratories, Inc. Air volumes are reported as given by the client. The lab's variability of results is limited to fibers per mm². N/A = not applicable.

D



# MICRO ANALYTICAL LABORATORIES, INC.
## PHASE CONTRAST MICROSCOPY

1098
IHI Environmental
1260 45th Street, Suite L
Emeryville, CA 94608

PROJECT:
OLIVER RUBBER COMPANY
2500 65TH STREET
EMERYVILLE, CA
2ND FLOOR, EAST SIDE
PHASE 3
PROJECT NO. 989-2120

Date Sampled 8/20/98
Date Received 8/20/98
Total Samples 3
Micro Log In 58451

| Sample ID | Field Data | Lab Data | Fibers / cc | Limits |
|---|---|---|---|---|
| Client: 2120-320-05C<br>Micro: 58451-01 MD 8/20/98<br>INSIDE CONTAINMENT, NORTH END OF SPACE CLEARANCE AIR SAMPLE | Time 120<br>Rate 10.0<br>Liters 1200 | Fibers 17<br>Fields 100<br>F/mm² 91.7 | 0.007 | LCL 0.002 UCL 0.011<br>LOD 0.002 LOQ 0.030<br>CV 0.33 |
| Client: 2120-320-05C<br>Micro: 58451-02 8/20/98<br>INSIDE CONTAINMENT, CENTER OF SPACE CLEARANCE AIR SAMPLE | Time 188<br>Rate 10.0<br>Liters 1280 | Fibers 15<br>Fields 100<br>F/mm² 80.4 | 0.006 | LCL 0.000 UCL 0.013<br>LOD 0.002 LOQ 0.030<br>CV 0.53 |
| Client: 2120-320-10C<br>Micro: 58451-03 8/20/98<br>INSIDE CONTAINMENT, SOUTH END OF SPACE CLEARANCE AIR SAMPLE | Time 126<br>Rate 10.0<br>Liters 1260 | Fibers 7.5<br>Fields 100<br>F/mm² 0.0 | 0.003 | LCL 0.000 UCL 0.006<br>LOD 0.002 LOQ 0.030<br>CV 0.65 |

Technical Supervisor: Mark Olinger 8/20/98 Analyst: HD
For Frank Reviola, M.D.

Laboratory AIHA Accreditation / PAT ID No.11130. Samples are analyzed using the NIOSH 7400 Method (NIOSH Manual of Analytical Methods, 4th Ed., Issue 2 of Rev. 3, 8/15/1994). The 'A' Rules are used, unless otherwise noted. The limit of detection (LOD) is 7 fibers/mm². Limits of quantification for optimal precision and accuracy are 100 (LOQ) and 1300 fibers/mm². The 95% UCL and LCL (Upper and Lower Confidence Limits of the Two-sided 95% Confidence Interval) represent the highest and lowest expected concentrations (in fibers/cc) for a given fiber count, based on the reported concentration. Coefficients of variation (CV) for various fiber loadings are reported. Limits for compliance testing may be calculated by the client, using the CV and an appropriate regulatory standard, e.g. UCL = (Concentration + (1.645 x CV x Standard)). Concentrations are field blank-corrected. Time is in minutes, flow rate is in liters per minute. 8 Hour TWA: calculated time weighted average concentration (in fibers/cc) based on 8 hours. Note: the 8 hour TWA may not be statistically accurate for actual total times less than 8 hours; zero concentration is assumed for remaining time if no information is given. Micro Analytical Laboratories, Inc. assumes no responsibility for clients' interpretation of any requested TWA data or calculations in this report. This report must not be reproduced except in full, with the approval of Micro Analytical Laboratories. This report pertains only to the listed samples, as submitted to and analyzed by Micro Analytical Laboratories, Inc. Air volumes are reported as given by the client. The lab's verifiability of results is limited to fibers per mm². N/A = Not applicable.

E



# MICRO ANALYTICAL LABORATORIES, INC.
## PHASE CONTRAST MICROSCOPY

1098
IHI Environmental
1260 45th Street, Suite L
Emeryville, CA 94608

PROJECT:
OLIVER RUBBER
2500 65TH STREERT
EMERYVILLE, CA
FRONT HALLWAY, PHASE IV

Date Sampled 8/21/98
Date Received 8/21/98
Total Samples 4
Micro Log In 59507

| Sample ID | Field Data | Lab Data | Fibers / cc | Limits |
|---|---|---|---|---|
| Client: 2120-0821-01C<br>Micro: 59507-01 8/21/98<br>NORTHWEST ROOM | Time<br>Rate<br>Liters 1239 | Fibers 111<br>Fields 56<br>F/mm² 243.8 | 0.075 | LCL 0.049 UCL 0.109<br>LOD 0.002 LOQ 0.031<br>CV 0.18 |
| Client: 2120-0821-02C<br>Micro: 59507-02 8/21/98<br>SOUTHEAST ROOM | Time<br>Rate<br>Liters 1238 | Fibers 100<br>Fields 48<br>F/mm² 255.4 | 0.083 | LCL 0.059 UCL 0.112<br>LOD 0.002 LOQ 0.031<br>CV 0.18 |
| Client: 2120-0821-03BL<br>Micro: 59507-03 YG 8/21/98<br>BLANK | Time<br>Rate<br>Liters | Fibers 0<br>Fields 100<br>F/mm² 0.0 | | LCL UCL<br>LOD LOQ<br>CV 0.53 |
| Client: 2120-0821-04BL<br>Micro: 59507-04 8/21/98<br>BLANK | Time<br>Rate<br>Liters | Fibers 0<br>Fields 100<br>F/mm² 0.0 | | LCL UCL<br>LOD LOQ<br>CV 0.53 |

Technical Supervisor: _____ 8/21/98 Analyst: YG
Frank Revoir, M.S.

Laboratory AIHA Accreditation / PAT ID No.11150. Samples are analyzed using the NIOSH 7400 Method (NIOSH Manual of Analytical Methods, 4th Ed., Issue 2 of Rev. 3, 8/15/1994). The 'A' Rules are used, unless otherwise noted. The limit of detection (LOD) is 7 fibers/mm². Limits of quantification for optimal precision and accuracy are 100 (LOQ) and 1300 fibers/mm². The 95% UCL and LCL (Upper and Lower Confidence Limits of the Two-sided 95% Confidence Interval) represent the highest and lowest expected concentrations (in fibers/cc) for a given fiber count, based on the reported concentration. Coefficients of variation (CV) for various fiber loadings are reported. Limits for compliance testing may be calculated by the client, using the CV and an appropriate regulatory standard, e.g. UCL = (Concentration + [1.645 x CV x Standard]). Concentrations are field blank-corrected. Time is in minutes, flow rate is in liters per minute. 8 Hour TWA: calculated time weighted average concentration (in fibers/cc) based on 8 hours. Note: the 8 hour TWA may not be statistically accurate for actual total times less than 8 hours: zero concentration is assumed for remaining time if no information is given. Micro Analytical Laboratories, Inc. assumes no responsibility for clients' interpretation of any requested TWA data or calculations in this report. This report must not be reproduced except in full, with the approval of Micro Analytical Laboratories. This report pertains only to the listed samples, as submitted to and analyzed by Micro Analytical Laboratories, Inc. Air volumes are reported as given by the client. The lab's verifiability of results is limited to fibers per mm². n/A = not applicable.

F



# MICRO ANALYTICAL LABORATORIES, INC.
## PHASE CONTRAST MICROSCOPY

1098
IHI Environmental
1260 45th Street, Suite L
Emeryville, CA 94608

PROJECT:
OLIVER RUBBER
2500 65TH STREET
EMERYVILLE, CA
FRONT HALLWAY, PHASE IV
PROJECT NO. 988-2120

Date Sampled 8/24/98
Date Received 8/24/98
Total Samples 4
Micro Log In 59563

| Sample ID | Field Data | Lab Data | Fibers / cc | Limits |
|---|---|---|---|---|
| Client: 2120-824-01C<br>Micro: 59563-01 8/24/98<br>NORTHWEST ROOM<br>CLEARANCE AIR SAMPLE | Time<br>Rate<br>Liters 1400 | Fibers 100<br>Fields 83<br>F/mm² 553.9 | 0.152 | LCL 0.038 UCL 0.208<br>LOD 0.002 LOQ 0.026<br>CV 0.15 |
| Client: 2120-824-02C<br>Micro: 59563-02 8/24/98<br>SOUTHEAST ROOM<br>CLEARANCE AIR SAMPLE | Time<br>Rate<br>Liters 1400 | Fibers 105.5<br>Fields 22<br>F/mm² 610.9 | 0.168 | LCL 0.109 UCL 0.227<br>LOD 0.002 LOQ 0.026<br>CV 0.15 |
| Client: 2120-824-03BL<br>Micro: 59563-03 8/24/98<br>BLANK | Time<br>Rate<br>Liters | Fibers 0<br>Fields 100<br>F/mm² 0.0 | | LCL UCL<br>LOD LOQ<br>CV 0.53 |
| Client: 2120-824-04BL<br>Micro: 59563-04 8/24/98<br>BLANK | Time<br>Rate<br>Liters | Fibers 0<br>Fields 100<br>F/mm² 0.0 | | LCL UCL<br>LOD LOQ<br>CV 0.53 |

Technical Supervisor: Mark Olivas for Frank Revolo, M.S. 8/24/98 Analyst: YG

Laboratory AIHA Accreditation / PAT ID No.11150. Samples are analyzed using the NIOSH 7400 Method (NIOSH Manual of Analytical Methods, 4th Ed., Issue 2 of Rev. 3, 8/15/1994). The "A" Rules are used, unless otherwise noted. The limit of detection (LOD) is 7 fibers/mm². Limits of quantification for optimal precision and accuracy are 100 (LOQ) and 1300 fibers/mm². The 95% UCL and LCL (Upper and Lower Confidence Limits of the Two-sided 95% Confidence Interval) represent the highest and lowest expected concentrations (in fibers/cc) for a given fiber count, based on the reported concentration. Coefficients of variation (CV) for various fiber loadings are reported. Limits for compliance testing may be calculated by the client, using the CV and an appropriate regulatory standard, e.g. UCL ≤ [Concentration ÷ (1.645 x CV + Standard)]. Concentrations are field blank-corrected. Time is in minutes, flow rate is in liters per minute. 8 Hour TWA: calculated time weighted average concentration (in fibers/cc) based on 8 hours. Note: the 8 hour TWA may not be statistically accurate for actual total times less than 8 hours; zero concentration is assumed for remaining time if no information is given. Micro Analytical Laboratories, Inc. assumes no responsibility for clients' interpretation of any requested TWA data or calculations in this report. This report must not be reproduced except in full, with the approval of Micro Analytical Laboratories. This report pertains only to the listed samples, as submitted to and analyzed by Micro Analytical Laboratories, Inc. Air volumes are reported as given by the client. The lab's variability of results is limited to fibers per mm². N/A = not applicable.

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# MICRO ANALYTICAL LABORATORIES, INC.

## TEM AIRBORNE ASBESTOS ANALYSIS

1098
IHI Environmental
1260 45th Street, Suite L
Emeryville, CA 94608

PROJECT:
OLIVER RUBBER
2500 65TH STREET
EMERYVILLE, CA
FRONT HALLWAY, PHASE IV
PROJECT NO. 98B-2120

| | |
|---|---|
| Date Sampled | 8/24/98 |
| Date Received | 8/24/98 |
| Total Samples | 1 |
| Micro Log In | 59580 |

### SAMPLE INFORMATION

CLIENT ID

2120-024-02C

MICRO ID 59580-01

Time
LPM
Liters 1400.0

DESCRIPTION
SOUTHEAST ROOM
CLEARANCE AIR SAMPLE
(RE-ANALYSIS OF PCM
#59563-02)

### ASBESTOS STRUCTURE COUNT

| ASBESTOS TYPE | |
|---|---|
| CHRYSOTILE | 1 |
| GRUNERITE (AMOSITE) | 0 |
| RIEBECKITE (CROCIDOLITE) | 0 |
| TREMOLITE | 0 |
| ACTINOLITE | 0 |
| ANTHOPHYLLITE | 0 |
| TOTAL ASBESTOS | 1 |

### CALCULATED ASBESTOS STRUCTURE CONCENTRATION

| PER mm² | PER cc |
|---|---|
| 17.4 | 0.005 |

ASBESTOS STRUCTURES SUBDIVIDED BY LENGTH

| Length | No. | S/mm² | S/cc |
|---|---|---|---|
| 0.5 - 5 µm | 1 | 17.4 | 0.005 |
| ≥ 5 µm | 0 | < 17.4 | < 0.005 |

### COMMENTS

ASBESTOS IDENTIFIED AS CHRYSOTILE

The reported asbestos concentration should be regarded as a minimum value, due to heavy particulate loading.
Gypsum is present in the sample; >500 particulates (estimated total) were observed.

| OPERATING PARAMETERS | | |
|---|---|---|
| Magnification | 15,000X ± 5% | |
| Grid Squares | 5 | |
| Grid Square Area | 0.0115 | mm² |
| Scan Area | 0.0575 | mm² |

| FILTER DATA | | |
|---|---|---|
| Type | MCE | |
| Diameter | 25 | mm |
| Collection Area | 385 | mm² |

ANALYTICAL SENSITIVITY

Structures per cc
0.005

ADDITIONAL DATA

SAED Photo No. / Identification

NON-ASBESTOS STRUCTURES

| Gypsum | Other |
|---|---|
| 0 | 0 |

Technical Supervisor: _____ 8/24/98 Analyst: OD

Frank Reviola, M.S.

Micro Analytical Laboratories, Inc. is accredited for airborne asbestos analysis by NIST under the NVLAP program (Lab Code #101872). NVLAP accreditation is limited to laboratory analyses. Analyses follow the analytical procedures of the U.S. EPA's "Interim Transmission Electron Microscopy Method" (1987), 40 CFR Part 763, Appendix A to Subpart E. Non-asbestos counts are approximate; specific characterization of non-asbestos particles is not applicable to this analysis. This report must not be used to claim product endorsement by NIST or any other U.S. Government agency. This report must not be reproduced except in full, with the approval of Micro Analytical Laboratories, Inc. This report pertains only to listed samples, as submitted to and analyzed by Micro Analytical Laboratories, Inc. Air volume data are reported as given by the client. N/A = not applicable.

M



# MICRO ANALYTICAL LABORATORIES, INC.
## TEM AIRBORNE ASBESTOS ANALYSIS

1098
IHI Environmental
1260 45th Street, Suite L
Emeryville, CA 94608

PROJECT:
OLIVER RUBBER
2500 65TH STREET
EMERYVILLE, CA
FRONT HALLWAY, PHASE IV
PROJECT NO. 988-2120

Date Sampled 8/24/98
Date Received 8/24/98
Total Samples 1
Micro Log In 69586

| SAMPLE INFORMATION | ASBESTOS STRUCTURE COUNT | CALCULATED ASBESTOS STRUCTURE CONCENTRATION |
|---|---|---|
| CLIENT ID: 2150-834-81C | ASBESTOS TYPE | PER mm² / PER cc |
| MICRO ID 69586-01 | CHRYSOTILE: 0 | < 17.4 / < 0.005 |
| Time | GRUNERITE (AMOSITE): 0 | |
| LPM | RIEBECKITE (CROCIDOLITE): 0 | |
| Liters 1400.0 | TREMOLITE: 0 | |
| DESCRIPTION: NORTHWEST ROOM. CLEARANCE AIR SAMPLE REANALYSIS OF PCM 69585-01 | ACTINOLITE: 0 | |
| | ANTHOPHYLLITE: 0 | |
| | TOTAL ASBESTOS: 0 | |

ASBESTOS STRUCTURES SUBDIVIDED BY LENGTH

| Length | No. | Str./mm² | Str./cc |
|---|---|---|---|
| 0.5 - 5 µm | 0 | < 17.4 | < 0.005 |
| ≥ 5 µm | 0 | < 17.4 | < 0.005 |

COMMENTS
NO ASBESTOS DETECTED
The particulate loading is heavy.
Gypsum is present in the sample; >100 particulates (estimated total) were observed.

| OPERATING PARAMETERS | | FILTER DATA | | ANALYTICAL SENSITIVITY | ADDITIONAL DATA |
|---|---|---|---|---|---|
| Magnification | 15,000X ± 5% | Type | MCE | Structures per cc | SAED Photo No. / Identification |
| Grid Squares | 8 | Diameter | 25 mm | 0.005 | |
| G/I Square Area | 0.0116 mm² | Collection Area | 385 mm² | | NON-ASBESTOS STRUCTURES: Gypsum 0, Other 0 |
| Scan Area | 0.0576 mm² | | | | |

Technical Supervisor: Frank Saviola, M.S. 8/28/98 Analyst: AL

Laboratory analyses follow the analytical procedures of the U.S. EPA's "Interim Transmission Electron Microscopy Method" (1987), 40 CFR Part 763, Appendix A to Subpart E. Analysis may be terminated after scanning an area corresponding to an analytical sensitivity of 0.005 str./cc, or a maximum of 10 grid squares. Sampling parameters may differ from the AHERA method. Non-asbestos counts are approximate; specific characterization of non-asbestos particles is not applicable to this analysis. This report must not be reproduced except in full, with the approval of Micro Analytical Laboratories, Inc. This report pertains only to the listed samples, as submitted to and analyzed by Micro Analytical Laboratories, Inc. Air volumes are reported as given by the client. N/A = not available.

I



# MICRO ANALYTICAL LABORATORIES, INC.
## PHASE CONTRAST MICROSCOPY

1098
IHI Environmental
1260 45th Street, Suite L
Emeryville, CA 94608

**PROJECT:**
**OLIVER RUBBER**
**2500 65TH STREET**
**EMERYVILLE, CALIFORNIA**
**MARY'S OFFICE, DAVID'S OFFICE AND FOYER AREAS**

Date Sampled 8/28/98
Date Received 8/28/98
Total Samples 5
Micro Log In 59743

| Sample ID | Field Data | Lab Data | Fibers / cc | Limits |
|---|---|---|---|---|
| Client: 2120-8/28-01C<br>Micro: 59743-01 8/28/98<br>DAVID'S OFFICE | Time 120<br>Rate 10.0<br>Liters 1200 | Fibers 4.5<br>Fields 100<br>F/mm² < 7.0 | < 0.002 | LCL 0.000 UCL 0.005<br>LOD 0.002 LOQ 0.032<br>CV 0.53 |
| Client: 2120-8/28-02C<br>Micro: 59743-02 8/28/98<br>FOYER BETWEEN DAVID'S AND MARY'S OFFICE | Time 120<br>Rate 10.0<br>Liters 1200 | Fibers 6<br>Fields 100<br>F/mm² < 7.0 | < 0.002 | LCL 0.000 UCL 0.005<br>LOD 0.002 LOQ 0.032<br>CV 0.53 |
| Client: 2120-8/28-03C<br>Micro: 59743-03 HD 8/28/98<br>MARY'S OFFICE | Time 120<br>Rate 10.0<br>Liters 1200 | Fibers 10.5<br>Fields 100<br>F/mm² 13.4 | 0.004 | LCL 0.000 UCL 0.009<br>LOD 0.002 LOQ 0.032<br>CV 0.53 |
| Client: 2120-8/28-04BL<br>Micro: 59743-04 8/28/98<br>BLANK | Time<br>Rate<br>Liters | Fibers 0<br>Fields 100<br>F/mm² 0.0 | | LCL UCL<br>LOD LOQ<br>CV 0.53 |
| Client: 2120-8/28-05BL<br>Micro: 59743-05 8/28/98<br>BLANK | Time<br>Rate<br>Liters | Fibers 0<br>Fields 100<br>F/mm² 0.0 | | LCL UCL<br>LOD LOQ<br>CV 0.53 |

Technical Supervisor: _____ 8/28/98 Analyst: KD
Frank Patola, M.S.

Laboratory AIHA Accreditation / PAT ID No.11150. Samples are analyzed using the NIOSH 7400 Method (NIOSH Manual of Analytical Methods, 4th Ed., Issue 2 of Rev. 3, 8/15/1994). The "A" Rules are used, unless otherwise noted. The limit of detection (LOD) is 7 fibers/mm². Limits of quantification for optimal precision and accuracy are 100 (LOQ) and 1300 fibers/mm². The 95% UCL and LCL (Upper and Lower Confidence Limits of the Two-sided 95% Confidence Interval) represent the highest and lowest expected concentrations (in fibers/cc) for a given fiber count, based on the reported concentration. Coefficients of variation (CV) for various fiber loadings are reported. Limits for compliance testing may be calculated by the client, using the CV and an appropriate regulatory standard, e.g. UCL = (Concentration ÷ [1.645 x CV x Standard]). Concentrations are field blank-corrected. Time is in minutes, flow rate is in liters per minute. 8 Hour TWA: calculated time weighted average concentration (in fibers/cc) based on 8 hours. Note: the 8 hour TWA may not be statistically accurate for actual total times less than 8 hours; zero concentration is assumed for remaining time if no information is given. Micro Analytical Laboratories, Inc. assumes no responsibility for clients' interpretation of any requested TWA data or calculations in this report. This report must not be reproduced except in full, with the approval of Micro Analytical Laboratories. This report pertains only to the listed samples, as submitted to and analyzed by Micro Analytical Laboratories, Inc. Air volumes are reported as given by the client. The lab's verifiability of results is limited to fibers per mm². N/A = not applicable.

# ENVIRONMENTAL MANAGEMENT CONSULTANTS

## AIRBORNE FIBER CONCENTRATION ANALYSIS

Project Name: OLIVER RUBBER / SF99-046A — Purchase Order #: A1962

Reported To: CST ENVIRONMENTAL — Sampled By: Client

EMC Laboratory Number: 50544 — Report Asbestos Analysis: PERSONAL — Niosh Analytical Method: 7400 REV. #3 5/89

Received On: 08/18/98 — Reported On: 08/20/98 — Microscope Field Area: 0.00785mm — Filter Type: 25mm — MCE: X

| Sample Number | Date Sampled | Name/Location | Uncountable Reject | Time Start | Time End | Total | Flowrate Begin | Flowrate End | Flowrate Avg | Total Volume | Fibers | Fields | Avg Fiber Count | Avg Blank Count | Detect Limit | Fibers Per CC | Fiber Density |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 08/01/98 | GILBERTO SOTO | | 09:00 | 11:00 | 120 | 2.0 | 1.8 | 1.9 | 228 | 16 | 100 | .16 | | .0118 | .0344 | 20.4 |
| 02 | 08/11/98 | GILBERTO SOTO | | 12:00 | 12:30 | 30 | 2.0 | 2.0 | 2.0 | 60 | 27 | 100 | .27 | | .0450 | .2207 | 34.4 |
| 03 | 08/11/98 | GILBERTO SOTO | | 13:00 | 15:00 | 120 | 2.0 | 1.9 | 1.95 | 234 | 38.5 | 100 | .385 | | .0115 | .0807 | 49.0 |
| 04 | 08/12/98 | SILVANO LOPEZ | | 07:30 | 11:00 | 210 | 2.0 | 1.8 | 1.9 | 399 | 65.5 | 100 | .655 | | .0060 | .0805 | 83.4 |
| 05 | 08/12/98 | SILVANO LOPEZ | | 12:00 | 12:30 | 30 | 2.0 | 2.0 | 2 | 60 | 23.5 | 100 | .235 | | .0450 | .1921 | 29.9 |
| 06 | 08/12/98 | FRANCISCO CISNEROS | | 08:00 | 11:00 | 180 | 2.0 | 1.8 | 1.9 | 342 | 2 | 100 | 02 | | 0079 | < 0079 | 2.5 |
| 07 | 08/12/98 | FRANCISCO CISNEROS | | 12:15 | 12:45 | 30 | 2.0 | 2.0 | 2 | 60 | 16.5 | 100 | .165 | | .0450 | .1349 | 21.0 |
| 08 | 08/12/98 | FRANCISCO CISNEROS | | 13:00 | 15:00 | 120 | 2.0 | 1.9 | 1.95 | 234 | 27 | 100 | .27 | | .0115 | .0566 | 34.4 |

AIRBOURNE FIBER CONCENTRATION IN FIBERS PER CUBIC CENTIMETER IS TO BE CONSIDERED ACCURATE ONLY IF SAMPLED BY EMPLOYEES OF ENVIRONMENTAL MANAGEMENT CONSULTANTS, INC. ENVIRONMENTAL MANAGEMENT CONSULTANTS, INC. HAS NO QUALITY CONTROL OVER THE ACCURACY OF FLOWRATE INFORMATION SUBMITTED BY CLIENT

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Analyst: Cynthia M. Smith

Signatory: Kurt Kettler

7342 EAST THOMAS ROAD SCOTTSDALE, ARIZONA 85251-7216 (602) 990-2069 FAX: (602) 990-8468

# ENVIRONMENTAL MANAGEMENT CONSULTANTS

## AIRBORNE FIBER CONCENTRATION ANALYSIS

Project Name: OLIVER RUBBER / SF99-046A
Reported To: CST ENVIRONMENTAL
EMC Laboratory Number: 50621
Received On: 08/20/98 Reported On: 08/24/98
Report Asbestos Analysis: PERSONAL
Microscope Field Area: 0.00785mm
Purchase Order #: A1971
Sampled By: Client
Niosh Analytical Method: 7400 REV. #3 5/89
Filter Type: 25mm MCE: X

| Sample Number | Date Sampled | Name/Location | Reject | Un countable | Start | Time End | Total | Begin | Flowrate End | Avg | Total Volume | Fibers | Fields | Avg Fiber Count | Avg Blank Count | Detect Limit | Fibers Per CC | Fiber Density |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 09 | 08/13/98 | ANTONIO RAMIREZ | | | 06:00 | 11:00 | 300 | 2.0 | 1.8 | 1.9 | 570 | 44 | 100 | .44 | | .0047 | .0379 | 56.1 |
| 10 | 08/13/98 | ANTONIO RAMIREZ | | | 12:00 | 12:30 | 30 | 2.0 | 2.0 | 2 | 60 | 18.5 | 100 | .185 | | .0450 | .1512 | 23.6 |
| 11 | 08/13/98 | ANTONIO RAMIREZ | | | 13:00 | 17:30 | 270 | 2.0 | 1.8 | 1.9 | 513 | 40 | 100 | .4 | | .0053 | .0362 | 51.0 |
| 12 | 08/13/98 | JOSE CENTENO | | | 12:10 | 12:40 | 30 | 2.0 | 2.0 | 2 | 60 | 19.5 | 100 | .195 | | .0450 | .1594 | 24.6 |
| 13 | 08/13/98 | JOSE CENTENO | | | 12:50 | 17:20 | 270 | 2.0 | 1.8 | 1.9 | 513 | 55 | 100 | .55 | | .0053 | .0526 | 70.1 |

AIRBOURNE FIBER CONCENTRATION IN FIBERS PER CUBIC CENTIMETER IS TO BE CONSIDERED ACCURATE ONLY IF SAMPLED BY EMPLOYEES OF ENVIRONMENTAL MANAGEMENT CONSULTANTS, INC. ENVIRONMENTAL MANAGEMENT CONSULTANTS, INC. HAS NO QUALITY CONTROL OVER THE ACCURACY OF FLOW RATE INFORMATION SUBMITTED BY CLIENT

THE REPORT APPLIES TO THE STANDARDS OR PROCEDURES IDENTIFIED AND TO THE SAMPLES(S) TESTED. THE TEST RESULTS ARE NOT NECESSARILY INDICATIVE OR REPRESENTATIVE OF THE QUALITIES OF THE LOT FROM WHICH THE SAMPLE WAS TAKEN OR OF APPARENTLY IDENTICAL OR SIMILAR PRODUCTS, NOR DO THEY REPRESENT AN ONGOING QUALITY ASSURANCE PROGRAM UNLESS SO NOTED. THESE REPORTS ARE FOR THE EXCLUSIVE USE OF THE ADDRESSED CLIENT AND ARE RENDERED UPON THE CONDITION THAT THEY WILL NOT BE REPRODUCED WHOLLY OR IN PART FOR ADVERTISING OR OTHER PURPOSES OVER OUR SIGNATURE OR IN CONNECTION WITH OUR NAME WITHOUT SPECIAL WRITTEN PERMISSION. SAMPLES NOT DESTROYED IN TESTING ARE RETAINED A MAXIMUM OF NINETY DAYS AT CLIENT'S REQUEST.

Analyst: Cynthia M. Smith

Signatory: Kurt Kettler

7342 EAST THOMAS ROAD SCOTTSDALE, ARIZONA 85251-7216 (602) 990-2069 FAX: (602) 990-8468

# ENVIRONMENTAL MANAGEMENT CONSULTANTS

## AIRBORNE FIBER CONCENTRATION ANALYSIS

Project Name: OLIVER RUBBER / SF99-046A
Reported To: CST ENVIRONMENTAL
EMC Laboratory Number: 50688
Received On: 08/24/98 Reported On: 08/25/98
Report Asbestos Analysis: PERSONAL
Microscope Field Area: 0.00785mm
Purchase Order #: A1978
Sampled By: Client
Niosh Analytical Method: 7400 REV. #3 5/89
Filter Type: 25mm MCE: X

| Sample Number | Date Sampled | Name/Location | Reject | Un countable | Start | Time End | Total | Begin | Flowrate End | Avg | Total Volume | Fibers | Fields | Avg Fiber Count | Avg Blank Count | Detect Limit | Fibers Per CC | Fiber Densit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 27 | 08/20/98 | ALFONSO GOMEZ | | | 12:00 | 12:30 | 30 | 2.0 | 2.0 | 2 | 60 | 1 | 100 | .01 | | .0450 | <.0450 | 1 |
| 28 | 08/20/98 | ALFONSO GOMEZ | | | 12:45 | 15:15 | 150 | 2.0 | 1.8 | 1.9 | 285 | 7.5 | 100 | .075 | | .0095 | .0129 | 9 |



Analyst: Ken Scheske

Signatory: Kurt Kettler

7342 EAST THOMAS ROAD SCOTTSDALE, ARIZONA 85251-7216 (602) 990-2069 FAX: (602) 990-8468

# ENVIRONMENTAL MANAGEMENT CONSULTANTS

## AIRBORNE FIBER CONCENTRATION ANALYSIS

Project Name: OLIVER RUBBER / SF98-046A
Purchase Order #: A1978
Reported To: CST ENVIRONMENTAL
Sampled By: Client
EMC Laboratory Number: 50688
Report Asbestos Analysis: PERSONAL
Niosh Analytical Method: 7400 REV. #3 5/89
Received On: 08/24/98
Reported On: 08/25/98
Microscope Field Area: 0.00785mm
Filter Type: 25mm
MCE: X

| Sample Number | Date Sampled | Name/Location | Reject | Un countable | Start | Time End | Total | Begin | Flowrate End | Avg | Total Volume | Fibers | Fields | Avg Fiber Count | Avg Blank Count | Detect Limit | Fibers Per CC | Fiber Density |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 08/17/98 | ALFONSO GOMEZ | | | 07:00 | 11:00 | 240 | 2.0 | 1.8 | 1.9 | 456 | 2.5 | 100 | .025 | | .0059 | <.0059 | 3. |
| 15 | 08/17/98 | ALFONSO GOMEZ | | | 12:00 | 12:30 | 30 | 2.0 | 2.0 | 2 | 60 | 1 | 100 | .01 | | .0450 | <.0450 | 1. |
| 16 | 08/17/98 | ALFONSO GOMEZ | | | 12:45 | 15:15 | 150 | 2.0 | 1.9 | 1.95 | 292.5 | 13.5 | 100 | .135 | | .0092 | .0226 | 17 |
| 17 | 08/18/98 | RICARDO MARTINEZ | | | 07:15 | 10:15 | 180 | 2.0 | 1.8 | 1.9 | 342 | 3 | 100 | .03 | | .0079 | <.0079 | |
| 18 | 08/24/98 | RICARDO MARTINEZ | | | 10:20 | 10:50 | 30 | 2.0 | 2.0 | 2 | 60 | 1.5 | 100 | .015 | | .0450 | <.0450 | 1. |
| 19 | 08/24/98 | JUAN PEREZ | | | 12:00 | 12:30 | 30 | 2.0 | 2.0 | 2 | 60 | 1 | 100 | .01 | | .0450 | <.0450 | 1. |
| 20 | 08/24/98 | JUAN PEREZ | | | 12:45 | 15:15 | 150 | 2.0 | 1.9 | 1.95 | 292.5 | 4.5 | 100 | .045 | | .0092 | <.0092 | 5. |
| 21 | 08/19/98 | FRANCISCO CISNEROS | | | 00:75 | 10:15 | 540 | 2.0 | 1.8 | 1.9 | 1026 | 16.5 | 100 | .165 | | .0026 | .0079 | 21. |
| 22 | 08/19/98 | FRANCISCO CISNEROS | | | 10:30 | 11:00 | 30 | 2.0 | 2.0 | 2 | 60 | 2.5 | 100 | .025 | | .0450 | <.0450 | 3. |
| 23 | 08/19/98 | FRANCISCO CISNEROS | | | 12:00 | 15:00 | 180 | 2.0 | 1.8 | 1.9 | 342 | 1 | 100 | 01 | | .0079 | <.0079 | 1. |
| 24 | 08/20/98 | JOSE CENTENO FILTER OCCLUDED | X | X | 07:15 | 10:15 | 180 | 2.0 | 1.8 | 1.9 | 342 | | 100 | | | .0079 | | |
| 25 | 08/20/98 | JOSE CENTENO | | | 10:30 | 11:00 | 30 | 2.0 | 2.0 | 2 | 60 | 2.5 | 100 | .026 | | .0450 | <.0450 | 3 |
| 26 | 08/20/98 | ALFONSO GOMEZ | | | 08:00 | 11:00 | 180 | 2.0 | 1.8 | 1.9 | 342 | 5.5 | 100 | .055 | | 0079 | 0079 | 7. |



Analyst: Ken Scheske

Signatory: Kurt Keltler

7342 EAST THOMAS ROAD SCOTTSDALE, ARIZONA 85251-7216 (602) 990-2069 FAX: (602) 990-8468