

C/P 130

# Lead Paint Survey Report Oliver Rubber Company 1200 65<sup>th</sup> Street Emeryville, California

Prepared for:

Mr. David Kuhre
Oliver Rubber Company
1200 65th Street
Emeryville, CA 94608

Prepared by: RGA Environmental, Inc. 4701 Doyle Street, Suite 14 Emeryville, CA 94608

July 21, 1998

Report Prepared By:

Chaz

Eddie Chan

DHS Lead Inspector/Assessor (I-2448)



4701 Doyle Street Suite 14 Emeryville, CA 94608

510 547 7771 FAX 547 1983

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#### 1. EXECUTIVE SUMMARY

The following report describes the lead paint survey conducted at the Oliver Rubber Company located at 1200 65<sup>th</sup> Street in Emeryville, California. Eddie Chan, a Department of Health Services (DHS) Certified lead Inspector, conducted the survey. RGA Environmental Inc. (RGA) was retained by the Oliver Rubber Company to conduct the survey. The survey scope of work includes the following:

- Collect representative paint chip samples from surfaces throughout the building. Samples to be analyzed by Flame Atomic Absorption (FAA) for total lead reported in parts per million (ppm).
- Submit a final written Survey Report to Client including a project summary, sampling notes, analytical results, and recommendations.

#### **Lead Paint Results**

Lead-containing paints were detected throughout the building interior surfaces and on exterior walls of the subject property. Fourteen (14) paint chip samples collected from the building interior surfaces and roof areas were sent to R.J. Lee Group Laboratory for lead analysis. Four (4) paint chip samples collected from the building exterior walls were sent to Micro Analytical Laboratory for lead analysis. Refer to Table A in Section 4 for details.

#### 2. BUILDING DESCRIPTION

The subject property is a decommissioned tire manufacturing facility. Offices are located at the southern end of the building opening to 65<sup>th</sup> Street. A second level or mezzanine level wraps around to the east wall of the facility. The remainder of the building is open with the exception of a few dividing walls. The building interior architectural components were painted with several colors of paints. The substrates of the painted interior components includes gypsum, wood, steel column, sheet metal and brick. The exterior walls are concrete, sheet metal and stucco.

# 3. VISUAL INSPECTION, SAMPLING PROCEDURES, AND LABORATORY PROCEDURES

### 3.1 Visual Inspection - Lead

The lead paint survey was conducted by a California DHS Certified Lead Inspector/Assessor. The inspector initially performed a visual inspection of painted surfaces throughout the building.

### 3.2 Sampling Procedures - Lead

Paint chip samples were obtained with the aid of a hand scraper and placed into individual sampling containers. Sampling tools were wiped with a damp cloth following the collection of each sample in order to prevent cross-contamination. Each sample was given a unique sample number, and recorded on field notes as well as on bulk chain-of-custody forms as shown in Appendix 1. The samples were transported under chain-of-custody procedures to a certified laboratory.

### 3.3 Laboratory Procedures - Lead

Paint chip samples were sent to RJ Lee located in San Leandro, California and MAL located in Emeryville, California. Both laboratories are currently accredited under the Environmental Lead Laboratory Accreditation Program (ELLAP). Copies of certifications are included in Appendix 2.

All paint samples were analyzed for lead content using Flame Atomic Absorption spectroscopy in accordance with EPA Method 7420 - "Standard Operating Procedures for Lead in Paint by Hotplate".

#### 4. LEAD PAINT RESULTS

RGA collected eighteen (18) paint chip samples from the subject property. Fourteen (14) were determined to contain lead. Laboratory sample reports are in Appendix 1. Table A below summarizes the results.

Table A - Summary of Lead in Paint Sample Results

Sample ID	Paint Description and Sample Locations	Lead Content Parts per million (ppm)
48237	First Floor - Beige paint (tan paint underneath) in front office – upper walls	<200
71592	First Floor - Gray paint in front office - lower walls	<130
48297	First Floor - Bright blue paint in R&D area – lower walls	2,220
48292	First Floor - Light gray paint in western area of R&D - walls	27,700
48318	First Floor - Off white paint in R&D area – upper walls and ceilings	1,520

<sup>&</sup>lt; below detection limit

Table A - Summary of Lead in Paint Sample Results

Sample ID	Paint Description and Sample Locations	Lead Content Parts per million (ppm)
	First Floor -	
48308	Gray paint (beige paint underneath) in northwest area-lower walls	1,700
	First Floor -	
71903	Beige paint in northern area – upper walls and ceilings	3,720
	First Floor -	
48300	Yellow paint on steel column at northern area	7,060
	First Floor -	
48295	Red paint on steel column at northern area	11,400
	Second Floor -	" Marine or Antibodis"
48267	Beige paint on 2 <sup>nd</sup> floor, north area – upper walls and ceilings	1,020
	Second Floor -	
48298	Green paint on 2 <sup>nd</sup> floor, northeast area – walls	<70
	Roof -	
48266	Gray paint on upper window trims – exterior windows on roof	87,000
	Roof -	
48272	Yellow paint on exterior window frames - exterior windows on roof	125,000
	Second Floor -	
48271	White paint on 2 <sup>nd</sup> floor restroom – ceilings and walls	1,720
	Building Exterior -	
48238	Exterior light gray paint on concrete substrate	949
	Building Exterior -	
48259	Exterior light gray paint on stucco substrate	<44
	Building Exterior -	
72245	Exterior dark gray paint on concrete substrate	841
···	Building Exterior -	
68582	Exterior light gray paint on metal siding	9,757

<sup>&</sup>lt; below detection limit

#### 5. REGULATIONS ON LEAD-BASED PAINT

There are presently no federal, state or local regulations limiting the concentration of lead in public sector buildings, however several regulations established for the private sector as well as for government subsidized housing are used industry-wide as guidelines for assessing exposure to lead. The following are the regulations regarding lead-based paint:

### 1. Occupational Safety and Health Administration (OSHA)

- Federal OSHA and Cal/OSHA regulates worker exposure during construction activities that impact lead-based paint. Federal OSHA enforces the Lead Exposure in Construction; Interim Final Rule found in 29 CFR Part 1926.62. The scope covered construction work where employee may be exposed to lead above the action level of 30 ug/m³ includes demolition, removal, painting, renovation, cleanup, maintenance, etc.
- The OSHA 29 CFR Part 1926.62 specified method of compliance includes respiratory protection, protective clothing and equipment, housekeeping, hygiene facilities, medical surveillance, training etc for all workers exposed to LBP.

### 2. Environmental Protection Agency

- Responsible for waste management, training, accreditation, technical assistant, and research.
- Lead-based paint waste and/or debris generated during abatement, renovation or demolition is required to be waste stream categorized prior to disposal. Disposal of all lead-based paints is regulated at concentrations at or exceeding 1,000 ppm as stated in 40 Code of Federal Regulations (CFR) Part 263 Land Disposal Regulations and Title 22, Division 4 Environmental Health of the California Administrative Code. This level is often improperly used as a threshold to determine which peeling and stratified paints must be abated prior to building demolition or renovation, however lead related construction work at any lead concentration is regulated under the Occupational Safety and Health statutes.
- EPA Title X requires that the EPA and/or individual states develop training/certification regulations for individuals engaged in lead-based paint activities and requires the EPA to issue guidelines and evaluate renovation and remodeling activities involving lead paint.

### 3. Department of Housing and Urban Development (HUD)

 Developed new guidelines "Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing". HUD requires abatement of paints containing lead in concentrations exceeding 5,000 ppm.

- HUD has also established dust clearance wipe samples as follow:
  - I. Floor 100 ug/ft<sup>2</sup>
  - 2. Window sills 500 ug/ft<sup>2</sup>
  - 3. Window wells, exterior sills & porches 800 ug/ft²

# 4. California Department of Health Services (DHS)

The California Department of Health Services (DHS) and Childhood Lead Poisoning Prevention Branch (CLPPB) has promulgated emergency regulations which govern the evaluation and abatement of lead-based paint and lead hazards in California.

DHS had developed an accreditation program for inspectors, assessors, and abatement workers and work practices in lead-related construction. Specific training courses based on the HUD Guidelines are required for each of the Interim Certifications. These regulations are found in Title 17, California Code of Regulations, Division 1, Chapter 8 Accreditation, Certification and Work Practices in Lead-Related Construction (effective 3/30/98).

### 6. DISCUSSION & RECOMMENDATIONS

# 6.1 Lead-Containing Paint

All of the sampled paint tested positive for lead content and is either damaged or peeling from the substrate. However, intact paint may separate from the substrate during renovation activities. If paint is separated from the substrate, the paint debris should be evaluated independently to determine its proper disposal. The paint debris should be classified as hazardous waste if lead waste concentrations exceed either the total lead concentration or soluble lead concentration regulatory limits.

Total lead concentration is determined by Total Threshold Limit Concentration (TTLC). Leachable lead is determine by the Soluble Threshold Limit Concentration (STLC) (California required test) and/or Toxicity Characteristic Leaching Procedure (TCLP) (Federal EPA required test).

Regulatory limits characterize a lead waste as a hazardous waste if lead concentration exceed 1000 ppm by TTLC or 5 milligram per liter by STLC or TCLP.

If the subject property is scheduled to be renovated, RGA recommends the following actions prior to the start of any renovation work:

- Develop an abatement specification. The purpose of an abatement specification is to clearly define the scope of work for more competitive and accurate bidding as well as to reduce the number of costly delays and change order requests during the project.
- Abate all peeling, stratified or blistered paint prior to renovation work.
- Require abatement contractor to provide workers that are trained by the California Department of Health Services for abatement of lead-based paint.
- Use only trained workers to demolish building components containing leadbased paint.
- Ensure that worker exposure, environmental monitoring, work practices, and engineering controls are implemented as required by state and federal regulations.

#### 7. LIMITATIONS

RGA Environmental Inc. (RGA) warrants that the findings contained herein have been prepared in general accordance with accepted professional practices as applied by similar professionals in the community at the time of its preparation. Changes in the state of the art or in applicable regulations cannot be anticipated and have not been addressed in this report.

The field and laboratory results reported herein are considered sufficient in detail and scope to determine the presence of lead-containing paint identified in the scope of work. Test results are valid only for the material tested.

Also, note that this is a survey report and not an abatement specification. This document is not appropriate for competitive bidding or for use as a lead abatement specification.

Appendix 1
Laboratory Sample Reports and Chain-of-Custody Forms



<u>ENVIRONMENTA</u>	L INC
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4701 DOYLE ST., STE, 14

# CHAIN OF CUSTODY-BULK SAMPLES

DATE: 7/2/98
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	71592	Gray Paint	in front ordice	- lower walls		15	
3.	48297			Darea - lower	walls		ALLIN TERRETORNE MARINATERIA M
4.	48292	Light gray	paint in western	area d RED -	walls	)	9015228
	48318	Off white	paint in RSD	area - Jupper wal	ls & ceillus.		
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ENVIRONMENTAL INC.

CHAIN OF CUSTODY-BULK SAMPLES

DATE: 7/2/92	
PAGE 3 of 3	

4701 DOYLE ST., STE. 14
EMERYVILLE, CA 94608
Tel: (510) 547-7771
EAY: (510) 547 1092

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# RJ Lee Group Inc.

350 Hochberg Road Monroeville, PA 15146 Phone (724) 325-1776 Fax (724) 733-1799

#### LABORATORY REPORT

Table Number: 1

RGA Environmental Inc. 4701 Doyle Street, Suite 14

Emeryville CA 94608

ATTN: Eddie Chan

Phone: (510) 547-7771 Fax: (510) 547-1983

Analysis: Analysis of Lead by FLAA(Pb)--SW846 7420

RJ Lee Group Job No.: ACC807016
Samples Received: 06-Jul-98

Report Date: 06-Jul-98
Client Project: Oliver Rubber

Purchase Order No.: ORC 4018

Sample l	dentification:	Pb		
Client ID	RJLee Group	Weight Percent	Parts Per Million	
48237	0015228	<0.02	<200	
71592	0015229	< 0.013	<130	
48297	0015230	0.222	2220	
48292	0015231	2.77	27700	
48318	0015232	0.152	1520	
48308	0015233	0.170	1700	

These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period or ninety (90) days before discarding. A shipping and handling fee will be assessed for the return of any samples.

Alan M. Levine, Manager

John E. Noll, Senior Chemist

Kimberly S. DiNatale, Scientist

Brandon J. Miller, Assistant Scientist

7/6/58

Authorized Signature

Philip A. Grindle, Assistant Scientist

Please direct inquires to Barbara A. Smith in Client Services.

Monroeville, PA - San Leandro, CA - Washington, DC - Houston, TX

Page 1 of 3

AIHA ELLAP #8204 CA ELAP #1970 Monroeville AIHA Accreditation #460 PA DEP #2-396

# RJ Lee Group Inc.

350 Hochberg Road Monroeville, PA 15146 Phone (724) 325-1776 Fax (724) 733-1799

#### LABORATORY REPORT

Table Number: 1

RGA Environmental Inc. 4701 Doyle Street, Suite 14

Emeryville CA 94608 ATTN: Eddie Chan

Phone: (510) 547-7771

Fax: (510) 547-1983

Analysis: Analysis of Lead by FLAA(Pb)--SW846 7420

RJ Lee Group Job No.: ACC807016 Samples Received: Report Date: Oliver Rubber

Client Project: Purchase Order No.:

06-Jul-98

06-Jul-98

**ORC 4018** 

Sample Identification:		Pt	Pb	
Client ID	RJLee Group	Weight Percent	Parts Per Million	
71903	0015234	0.372	3720	
48300	0015235	0.706	7060	
48295	0015236	1.14	(11400)	
48267	0015237	0.102	1020	
48298	0015238	<0.007	<70	
48266	0015239	8.70	87000	
			The second secon	

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Monroeville, PA - San Leandro, CA - Washington, DC - Houston, TX

Page 2 of 3

Authorized Signature

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Emeryville CA 94608 ATTN: Eddie Chan

Phone: (510) 547-7771 (510) 547-1983 Fax:

Analysis: Analysis of Lead by FLAA(Pb)--SW846 7420

RJ Lee Group Job No.: Samples Received:

Report Date: Client Project: Purchase Order No.: ACC807016

06-Jul-98 06-Jul-98

Oliver Rubber

**ORC 4018** 

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Brandon J. Miller, Assistant Scientist

John E. Noll, Senior Chemist

Philip A. Grindle, Assistant Scientist

Please direct inquires to Barbara A. Smith in Client Services.

Monroeville, PA - San Leandro, CA - Washington, DC - Houston, TX

Authorized Signature Philips a Livrolli
Date \$16198

AIHA ELLAP #8204 CA ELAP #1970 Monroeville AIHA Accreditation #460 PA DEP #2-396

Page 3 of 3



ENVIRONMENTAL INC.

4701 Doyle St., Ste. 14

EMERYVILLE, CA 94608 TEL: (510) 547-7771

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Received By:

# CHAIN OF CUSTODY-BULK SAMPLES

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# MICRO ANALYTICAL LABORATORIES, INC. FLAME AA - LEAD IN PAINT - EPA SOP (1991)

1023 RGA Environmental, Inc. 4701 Doyle Street, Suite 14 Emeryville, CA 94608-2947

PROJECT:

**OLIVER RUBBER COMPANY** PROJECT NO. ORC 4018

Micro Log In 57804

Total Samples 4

Date Sampled 7/13/98

Date Received 7/14/98

Date Reported 7/14/98

Lead Cond	Detection Limit		
Weight Percent	mg/kg (ppm)	(mg/kg)	
	1		
0.09%	949	44	
< 0.01%	< 0.01%		
		Ì	
0.08%	841	44	
0.98%	9,757	90	
	Weight Percent  0.09%	Weight Percent mg/kg (ppm)  0.09% 949  < 0.01% < 44  0.08% 841	

Technical	Supervisor:	7. King	Le 1/14/98	<del></del>	Analyst:	TT	
		Farid (far	nezantadeh, M.S.		,		

AIHA ELLAP Accredited Laboratory, ID #11150. Samples are analyzed by Flame Atomic Absorption Spectrometry. In accordance with EPA's "Standard Operating Procedures for Lead in Paint by Hotplate- or Microwave-based Acld digestions and Atomic Absorption or Inductively Coupled Plasma Emission Spectrometry\* (1991), EPA/600/8-91/213, NTIS Document No. PB92-114172. Samples are prepared by hotplate digestion with nitric acid and hydrogen peroxide, and analyzed by Flame AA. This report must not be reproduced except in full, with the approval of Micro Analytical Laboratories, Inc., and pertains only to the samples analyzed. Unit explanations: mg = milligrams; kg = kilograms; ppm = parts per million. N/A = Not Applicable.

Appendix 2
Laboratory Certifications



# THE AMERICAN INDUSTRIAL HYGIENE ASSOCIATION is proud to acknowledge that

### Micro Analytical Laboratories, Inc. Emeryville, CA Laboratory ID# 11150

has fulfilled the requirements for the Environmental Lead Laboratory Accreditation Program and has earned distinguished recognition as an

### AIHA ELLAP ACCREDITED LABORATORY

12/01/1996 - 12/01/1999

In the following matrices: Paint Soil Dust Air

This program is recognized by the EPA as meeting the requirements of the National Lead Luboratory Accreditation Program established under Title X of the Residential Lead-Based Paint Hazard Reduction Act of 1992 and includes paint, soil and dust wipe analysis. Air analysis is not included as part of the NLLAP.

D. Jeff Burlon, CHI, PE, CSP

President, American Industrial Hygiene Association

Enie L. Botwik

Eric L. Botnick, Chair, Environmental Lead Laboratory Accreditation Committee Marka. Eiskan

Mark Puskar, Ph.D., Chair, Analytical Accreditation Board



# R.J. LEE GROUP Monroeville, PA Laboratory ID# 8204

has fulfilled the requirements for the Environmental Lead Laboratory Accreditation Program and has earned distinguished recognition as an

# AIHA ELLAP ACCREDITED LABORATORY

December 5, 1995 through December 5, 1998

In the following matrices: PAINT SOIL DUST

This program is recognized by the EPA as meeting the requirements of the National Lead Laboratory Accreditation Program established under Title X of the Residential Lead-Based Paint Hazard Reduction Act of 1992.

Vernon E. Rose, DrPH, CIH

President, American Industrial Hygiene Association

Christine A. Kearney

Chair, Environmental Lead Laboratory

Christine A. Kearney

Accreditation Committee

Appendix 3
Inspector Certifications

"Eddie" Yew C. Chan

Inspector/Assessor I-2448 (Exp: 4/5/99) State of California Department of Health Services Lead-Related Construction Interim Certificate



# STATEMENT OF COMPLETION

This is to certify that

# EDDIE YEW C. CHAN

A1161166

has successfully completed the 7-hour

# Lead-Related Construction General Continuing Education

Passing an examination with a score of seventy percent or higher.

This course is in compliance with the California Department of Public Health,

Title 17, California Code of Regulations, Division 1, Chapter 8, Sections 35001 et seq.

(DHS Accreditation No. HSA-012-CE)

Course Date: December 11, 1997 DHS Form Number: 0-0015500 Certificate Number: 98-NC-061-01 Valid Until: December 11, 1998

Stephen C. Davis MPH, CIH, CSP, CAC Training Director