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**LIMITED ASBESTOS SURVEY
111 PINE STREET
SAN FRANCISCO, CALIFORNIA**

Prepared for:

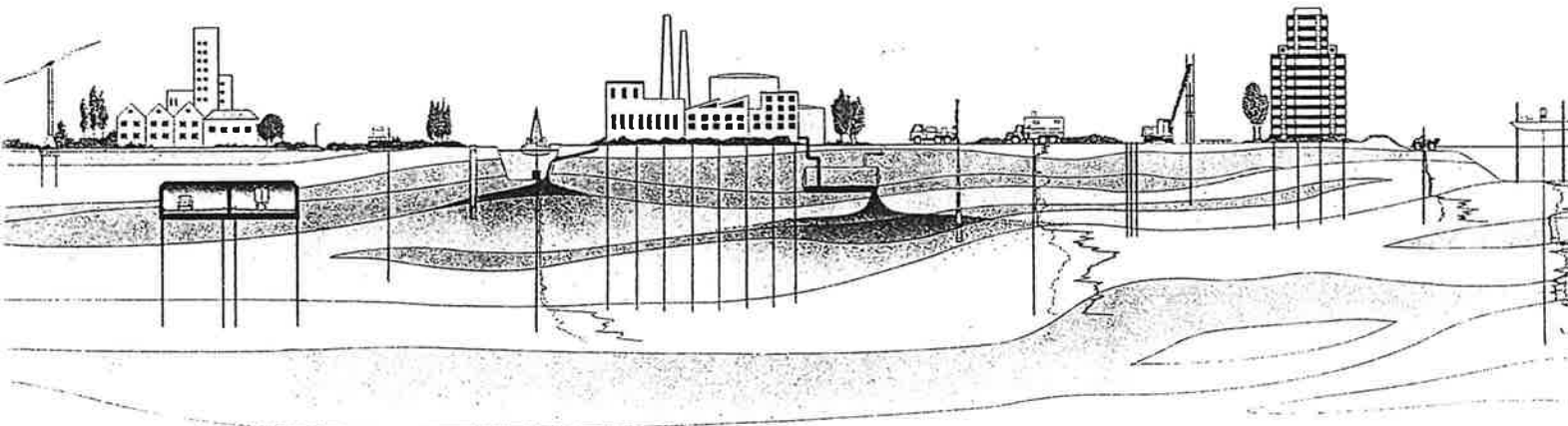
**ERVIN, COHEN, & JESSUP
BEVERLY HILLS, CALIFORNIA**

DECEMBER 1994

Prepared by:

**FUGRO WEST, INC.
44 MONTGOMERY, SUITE 1010
SAN FRANCISCO, CA 94104**

FUGRO PROJECT NO. 9437-7660-A





FUGRO WEST, INC.

December 13, 1994
Project No. 9437-7660-A

44 Montgomery Street, Suite 1010
San Francisco, CA 94104
Tel: (415) 296-1041
Fax: (415) 296-0944

Ervin, Cohen & Jessup
9401 Wilshire Boulevard
Beverly Hills, California 90212-2974

Attention: Mr. Roger J. Holt

**LIMITED ASBESTOS SURVEY
111 PINE STREET
SAN FRANCISCO, CA.**

Fugro West, Inc. (Fugro) is pleased to present the results of our limited asbestos survey at the 111 Pine Street Building in San Francisco, California. This assessment was authorized on November 9, 1994, and performed in general accordance with the scope of services outlined in our Proposal No. 9437-7660, dated November 8, 1994.

This study included a review of available existing documents, visual observations, collection of bulk samples of suspect asbestos-containing materials, and laboratory analysis. An assessment was made, conclusions stated, and recommendations outlined.

We appreciate the opportunity to provide environmental services to Ervin, Cohen & Jessup. If you have any questions concerning this report, or if we can assist you in any other matter, please contact us at (415) 296-1041.

Sincerely,

FUGRO WEST, INC.

Joseph Colton III
Field Coordinator
Cal/OSHA Certified Asbestos Consultant #92-0651

Stephen J. Boudreau
Regional Branch Manager
Senior Environmental Engineer

SJB:dlb



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EXECUTIVE SUMMARY

On November 14, 1994 Fugro West, Inc. (Fugro) performed a limited asbestos survey (LAS) of the 111 Pine Street Building located in San Francisco, California.

The scope of work included:

- (a) Review of previous survey reports or construction drawings to determine the presence of asbestos-containing material (ACM) in the building, if made available.
- (b) Visual observations of interior and exterior areas of the facility.
- (c) The collection of bulk samples from suspect ACM.
- (d) Laboratory analysis of collected samples.
- (e) Preparation of a written Report of Findings

This project was performed in general accordance with Fugro's written proposal, dated November 8, 1994 and was authorized by Mr. Roger Holt's written acceptance dated November 9, 1994.

The sampling strategy employed in Fugro's scope of work was limited in nature and was not intended to comply with the sampling protocol established under the Asbestos Hazard Emergency Response Act (AHERA) guidelines promulgated under 40 CFR 763.86. Representative samples of suspect materials were collected using random sampling techniques and assigned identification numbers. Destructive sampling activities (i.e., opening permanent walls or ceilings) were not performed for this survey. Analysis of collected bulk samples was performed by Polarized-Light Microscopy (PLM). Determination of asbestos percentages by point counting was not included in Fugro's scope of services.

The United States Environmental Protection Agency (US/EPA) defines ACM as any material containing more than one percent asbestos. State of California OSHA regulations define ACM as materials containing more than one-tenth of one percent asbestos. In making a determination whether a material sampled is positive for asbestos, the more stringent California state regulations are used.

Materials found to contain asbestos minerals include gypsum wallboard with joint compound and residual mastic.

PROJECT INFORMATION

Fugro scope of services on this project includes a limited survey for ACM. The work was performed in general accordance with our proposal number 9437-7660 dated November 8, 1994 and was authorized by Mr. Roger Holt's written acceptance dated November 9, 1994.



Fugro limited survey was performed by Mr. Joseph Colton, a CAL/OSHA Certified Asbestos Consultant, on November 11, 1994. Mr. Colton was provided access to interior areas of the facility by the property manager, Mr. Scott Pozzi, who was on site at the time of Fugro's work.

The Subject Property consists of an 18-story office building with approximately 42 lease spaces. In addition, there is a basement consisting of engineering facilities and leasable space. The building reportedly was constructed in 1965 using poured-in-place concrete columns on concrete piles, with stone and glass window exterior finishes. The tenants of the office building consist of law offices, sales departments of various companies, public and private banking offices, and other offices.

PROCEDURES

The purpose of Fugro's limited asbestos survey was to identify and collect samples from a limited number of building materials to determine the presence of asbestos. The following tasks were performed as part of Fugro's scope of work.

Document/Notification Review

A limited asbestos sampling and analysis report prepared by Mehler & Haring Associates Inc. dated October 31, 1990 was reviewed by Fugro prior to performing the field portion of our work. This report indicated that the insulation on the chillers contained asbestos. The subject insulation has since then been removed. No other documents concerning asbestos surveys, abatement, or operations and maintenance plan (O & M Plan), or as-built construction plans were available for Fugro's review.

At the time of Fugro's LAS known ACM (boiler insulation) had been removed. Therefore, no notification concerning the presence of ACM of the Subject Property has been made to tenants, maintenance personal or contractors.

Visual Observation

A visual survey was performed to determine whether major classes of accessible suspect ACM were present. Suspect ACM are defined as those classes of materials which have, in the past, been known to contain asbestos. Materials observed by Fugro are classified as structural, mechanical, roofing and finish materials.

Structural

The structural system of the building consists of concrete slab with poured in place concrete columns and decks between floors. Suspect insulating or fireproofing materials associated with the facility's structural system were observed by Fugro only on a portion of the 18th floor ceiling and a small section of the basement storage area. It appears that this material was used more for an acoustical purpose than for fire-proofing.

Mechanical

Heating and cooling to the facility is provided by gas fired hot water boilers, two (2) chillers located in the basement and HVAC units. Conditioned air is distributed through hard metal and flexible ductwork. The hard metal ductwork, which was located on the 19th floor of the facility, was observed to be insulated. Inaccessible insulating materials may exist inside the hard metal ductwork. The flexible ductwork which was located within the building above suspended ceiling was observed to be insulated with fiberglass which is not considered a suspect ACM. Duct wrap was observed on the HVAC hard metal ductwork. Caulking materials were identified on fiberglass batting insulation on the 19th floor mechanical areas. Expansion joints observed on HVAC ductwork were not sampled to protect the integrity of the system, although they are considered a suspect ACM.

Roofing

The roof of the building is comprised of multiple layers of roof felts covered with a mineralized cap sheet. Other roof penetrations are covered with a black roof cement. The perimeter flashing of the roof is comprised of multiple layers of roof felts. According to Tom Price, chief building engineer for the Trammell Crow Company, the original roof was replaced in 1988.

Finishes

The buildings interior walls are comprised of gypsum wall board with taped and mudded joints. Paint has been applied to most of these walls. Cove base mastic was observed around the base of most of these walls. Various 12" x 12" floor tiles were observed on the 19th floor engineering office, in multiple kitchen areas of tenants and in the basement floor of the building. Several types of acoustical 2' x 2' ceiling panels were observed throughout the suspended ceilings in the building. Additionally, a small piece of vinyl sheet flooring adhered with mastic to a wall in a basement storage room was observed.

Sample Collection

Fugro identified homogenous areas of materials which were suspected of containing asbestos. A homogenous area, for bulk sampling purposes, is one that seems by texture, color and wear to be uniform and applied during the same general time period.

Based on Fugro's survey observations, a total of 15 samples were collected from 14 different homogenous areas. Fugro collected samples of spray-applied fireproofing, 2' x 2' ceiling panels, 1' x 1' ceiling tile, rolled roofing material, residual mastic, floor tile and mastic, cove base mastic, duct wrap, caulking on fiberglass batting, roofing cement, gypsum wallboard with taped and mudded joints and vinyl sheet flooring.

Representative samples were collected from locations determined in a random manner, but adjusted to minimize visible area disturbance. No destructive sampling activities were performed to access concealed or inaccessible areas. Sampled areas were repaired using caulking, tape, or mastics, as applicable, although it was not Fugro's intent to return sampled surfaces to their pre-sampled condition.



The sampling strategy employed in Fugro's limited survey was not intended to comply with the sampling protocol established under the Asbestos Hazard Emergency Response Act (AHERA) guidelines promulgated under 40 CFR 763.86. AHERA sampling guidelines typically require a minimum of three samples to be collected from each homogenous area of suspect ACM identified in a building. The limitations of Fugro's scope of work did not allow for AHERA-style sampling of selected materials.

Sample Analysis

Samples were delivered with chain-of-custody documentation to Forensic Analytical in Hayward, California for asbestos content analysis. The bulk samples were analyzed using the stereo Polarized Light Microscopy (PLM) method described in Title 40 of the Code of Federal Regulations, Chapter 1, Part 763, Subpart F, Appendix A. Forensic Analytical is an active participant in the National Voluntary Laboratory Accreditation Program (NVLAP #1459) and is certified for bulk asbestos analysis by the California Department of Health Services (Certificate #1202).

The percentage quantification of bulk sample constituents was determined by visual estimation. Non-homogenous constituents of layered samples were analyzed by layer. Laboratory results are reported based on the percentage of asbestiform minerals identified within each sample layer. Determination of asbestos percentages by point counting was not included in Fugro's scope of services.

The U. S. Environmental Protection Agency (US/EPA) defines ACM as any material containing more than one percent asbestos. State of California OSHA regulations define ACM as materials containing more than one-tenth of one percent asbestos. In making a determination whether a material sampled is positive for asbestos, the more stringent California state regulations are used. It should be noted that although the US/EPA considers one positive sample sufficient to identify the presence of asbestos in a particular material, a minimum of three samples are necessary by US/EPA guidelines to confirm a negative, or non-asbestos sample result.

Roofing materials and other resinously bound materials, when analyzed by the US/EPA method, may yield false negative results because of limitations in separating closely bound fibers and in detecting fibers of small length and diameter. When a definitive result is required, Fugro recommends utilizing alternative methods of identification, including Transmission Electron Microscopy (TEM).

FINDINGS

From laboratory analyses, three of the fifteen samples collected were found to contain varying percentages of asbestiform minerals. They are discussed by building system classification below.



Finishes

Fugro collected a total of eight samples from eight different homogeneous areas identified as finishes within the facility. The samples of gypsum wallboard with taped and mudded joints were found to contain trace amounts of Chrysotile asbestos in the joint compound. These were samples (11-DJC-1-A and 14-DJC-1-A). These two samples were reanalyzed to determine asbestos percentages by point counting. Results of the reanalyzed samples indicated that each sample contained at least one percent Chrysotile asbestos.

According to Mr. Tom Price, chief building engineer for the Trammell Crow Company, the first two samples were collected of unpainted wallboard with exposed joint compound in unrenovated storage areas on the 19th and basement floors. Therefore, Fugro then collected three additional bulk samples of painted, gypsum wallboard with taped and mudded joints in renovated tenant areas. These additional samples were determined to not contain asbestiform materials. Approximately 3,000 square feet of unpainted, gypsum wallboard with taped and mudded joints exist in the 19th and basement storage areas. The ACM wallboard with taped and mudded joints is considered to be non-friable and in good condition.

Residual mastic sample (5-RM-1-A) was found to have 5-10% Chrysotile asbestos. Asbestiform minerals were not found in the remaining samples of finishes that were collected and analyzed. The residual mastic found was approximately five square feet on the 19th floor where mechanical equipment for the building was previously staged. The area was abated of floor tile and mastic except for under the mechanical equipment, which has now been removed. This material is non-friable and in good condition.

A tabular summary of the suspect ACM sampled, sample locations and analytical results is presented in Appendix A. The Laboratory Analysis Report is presented in Appendix B.

CONCLUSION AND RECOMMENDATIONS

Based on the non-friable nature of the ACM, its good condition, and location within low access areas, Fugro considers these ACMs to present a low potential for exposure to asbestos.

At present, a commercial building owner is not required by law to remove ACM based solely on the fact that they are present. Current US/EPA National Emissions Standards for Hazardous Air Pollutants (NESHAP) regulations require that most ACM be removed by a properly trained and equipped asbestos abatement contractor, prior to renovations which would otherwise disturb them. We recommend that, if renovation or maintenance work is planned which may disturb the identified ACM, they should be removed and properly disposed by a qualified contractor prior to disturbance.

Proposition 65 requires the posting of notifications when a facility is known to contain toxic substances found on the governor's list. Until such time that all ACM is removed from the building, Fugro recommends that building tenants and maintenance personnel be notified in writing of the ACM identified and the need to refrain from any activities which would disturb these materials.

OPINION OF COST

Based on Fugro's experience with projects of similar scope, magnitude and within this region, it is our opinion that the estimated cost to remove the ACM identified would be approximately \$20,000. If the subject ACM is to remain in place, the creation of an O & M plan would cost approximately \$2000. This opinion of cost does not include associated consulting or State of California, State Board of Equalization fees.

REGULATORY CONSIDERATIONS

Applicable regulations which require asbestos removal prior to renovation or demolition include: US/EPA's NESHAP regulations (40 CFR Part 61); Title 8 of the California Code of Regulations; and Rules and Regulations of various local Air Quality Management Districts; such as the Bay Area Air Quality Management District (BAAQMD).

Other regulations apply to construction activities and notification requirements for projects involving ACM at both Federal and state levels, including, but not limited to: OSHA regulations 29 CFR 1910 and 1926; the California Health and Safety Code; California Assembly Bills 3713 and 1564, Senate Bill 198, and Proposition 65.

APPENDIX A
BULK SAMPLE SUMMARY TABLE

APPENDIX A BULK SAMPLE SUMMARY TABLE

SAMPLE IDENTIFICATION		SAMPLE LOCATION	MATERIAL SAMPLED	ASBESTOS ANALYSIS RESULTS
H.A. NUMBER	SAMPLE NO.			
1-SAF-1-A	1	18th floor above ceiling in hallway in SW area	Spray-applied firproofing	None detected
2-ACP-1-A	1	18th floor hallway ceiling in SW area	2' x 2' acoustical ceiling panel, white	None detected
3-ACP-1-A	1	19th floor storage area in SW area	1' x 1' acoustical ceiling panel, white	None detected
4-RRM-1-A	1	19th floor storage area in SW area	Rolled roofing material	None detected
5-RM-1-A	1	19th floor adjacent to elevator lobby area	Residual mastic	5-10% Chrysotile
6-FT-1-A	1	19th floor adjacent to elevator lobby area	tan 12" x 12" floor tile	None detected
7-CBM-17-A	1	19th fl. adjacent to elevator area	Brown cove Base mastic	None detected
8-DW-1-A	1	19th floor mechanical room in the SW area	White duct wrap	None detected
9-CC-1-A	1	19th floor mechanical room in the SW area	White Caulking on fiberglass batting	None detected
10-RC-1-A	1	Roof by the NE corner of the cooling tower	Roofing cement	None detected



APPENDIX A BULK SAMPLE SUMMARY TABLE

SAMPLE IDENTIFICATION		SAMPLE LOCATION	MATERIAL SAMPLED	ASBESTOS ANALYSIS RESULTS
H.A. NUMBER	SAMPLE NO.			
11-DJC-1-A	1	19th floor SE storage room	Unpainted gypsum wallboard with joint compound	Trace Chrysotile
12-SAT-1-A	1	Basement west/central office behind elevators	Spray-applied fireproofing	None detected
12-SAT-2-A	2	Basement west/central office behind elevators	Spray-applied fireproofing	None detected
13-VSF-1-A	1	Basement storage room wall in north/central area	Vinyl sheet flooring with mastic	None detected
14-DJC-1-A	1	Basement storage room in SW area	Unpainted gypsum wallboard with joint compound	Trace Chrysotile

APPENDIX B

LABORATORY ANALYSIS REPORT



Point Count Report

Fugro West, Inc.
44 Montgomery St., Suite 1010
San Francisco CA 94104

Client Number: 1608
Report Number: 224667
Date Received: 11/14/94
Date Reported: 11/17/94

Sample Number: 11-DJC-1-A
Job ID: 9437-7660-A

Lab Number: 19492179

COMMENTS ON ANALYTICAL METHOD:

The NESHAP Final Rule does not define the preparation method for multilayered samples. In order to determine the composite quantity of asbestos, the volume percent of each layer is determined, the asbestos containing layers are analyzed by point counting, and the composite quantity of asbestos is calculated. The NESHAP Final Rule can not be applied to matrices that dissolve in refractive index liquid. This includes tar, mastic or adhesive typically found on the back of floor tiles. According to the NESHAP Final Rule, point count data is only necessary when the visual estimate of asbestos is below 10%.

RESULT:

Point Count Data:

Number of Asbestos Points Counted:	5
Number of Non-empty Points Counted:	400
Percent Asbestos:	1.25 %
Asbestos Type Detected:	Chrysotile

Analytical method: NESHAP Final Rule, 40 CFR, Part 61

Laboratory Supervisor _____


Patrick Little



Forensic Analytical

Point Count Report

Fugro West, Inc.
44 Montgomery St., Suite 1010
San Francisco CA 94104

Client Number: 1608
Report Number: 224667
Date Received: 11/14/94
Date Reported: 11/17/94

Sample Number: 14-DJC-1-A
Job ID: 9437-7660-A

Lab Number: 19492183

COMMENTS ON ANALYTICAL METHOD:

The NESHAP Final Rule does not define the preparation method for multilayered samples. In order to determine the composite quantity of asbestos, the volume percent of each layer is determined, the asbestos containing layers are analyzed by point counting, and the composite quantity of asbestos is calculated. The NESHAP Final Rule can not be applied to matrices that dissolve in refractive index liquid. This includes tar, mastic or adhesive typically found on the back of floor tiles. According to the NESHAP Final Rule, point count data is only necessary when the visual estimate of asbestos is below 10%.

RESULT:

Point Count Data:

Number of Asbestos Points Counted:	4
Number of Non-empty Points Counted:	400
Percent Asbestos:	1 %
Asbestos Type Detected:	Chrysotile

Analytical method: NESHAP Final Rule, 40 CFR, Part 61

Laboratory Supervisor


Patrick Little



Forensic Analytical
Analytical Report

San Francisco • 3777 Depot Road, Suite 409, Hayward, CA 94545 • Phone 510/887-8828 • Fax 510/887-4218
Los Angeles • 19443 Laurel Park Road, Suite 101, Rancho Dominguez, CA, 90220 • Phone 310/763-2374 • Fax 310/763-8684

Bulk Asbestos Analysis Summary
40 CFR 763, Subpart F, Appendix A (AHERA)


Client:
Fugro West, Inc.

44 Montgomery Street, Suite 1010
San Francisco, CA 94104

Client ID: 1608
Report Number: 225001
Date Received: 11/18/94

P.O. Num:
Job ID: 94377660A
Site: 111 Pine Street, San Francisco, CA

Sample Number Location/Description	Date Col.	Lab Num.	Asbestos Present (Breakdown by type)
15-DJC-1-A Not indicated.	11/18/94	19493979	Non-Det. %
16-DJC-1-A Not indicated.	11/18/94	19493980	Non-Det. %
17-DJC-1-A Not indicated.	11/18/94	19493981	Non-Det. %


Patrick E. Little, Optical Laboratory Supervisor, Hayward Laboratory

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Bulk Material Analysis

Method: 40 CFR 763, Subpart F, Appendix A (AHERA)

Client:
Fugro West, Inc.

44 Montgomery Street, Suite 1010
San Francisco, CA 94104

Client Number: 1608
Report Number: 225001
Date Received: 11/18/94

Lab Number: 19493979
Sample Number: 15-DJC-1-A
P.O. Num:
Job ID: 94377660A
Site: 111 Pine Street, San Francisco, CA

Date Collected: 11/18/94

Location: Not indicated.

Gross Description: White drywall with fibrous backing and joint compound.

Comments:

Microscopic Description

TOTAL ASBESTOS PRESENT:

Chrysotile
Amosite

Non-Det. %
Non-Det. %
%
%

Non-Det. %

TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:

Cellulose
Fibrous Glass

50-55 %
Non-Det. %
%
%

50-55 %

TOTAL NON-ASBESTOS NONFIBROUS MATERIAL PRESENT:

45-50 %



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Bulk Material Analysis

Method: 40 CFR 763, Subpart F, Appendix A (AHERA)

Client:
Fugro West, Inc.

Client Number: 1608
Report Number: 225001
Date Received: 11/18/94

44 Montgomery Street, Suite 1010
San Francisco, CA 94104

Lab Number: 19493980
Sample Number: 16-DJC-1-A
P.O. Num:
Job ID: 94377660A
Site: 111 Pine Street, San Francisco, CA

Date Collected: 11/18/94

Location: Not indicated.

Gross Description: White drywall with fibrous backing and joint compound.

Comments:

Microscopic Description

TOTAL ASBESTOS PRESENT:

Chrysotile
Amosite

Non-Det. %
Non-Det. %
%
%

Non-Det. %

TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:

Cellulose
Fibrous Glass

50-55 %
Non-Det. %
%
%

50-55 %

TOTAL NON-ASBESTOS NONFIBROUS MATERIAL PRESENT:

45-50 %



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Bulk Material Analysis
Method: 40 CFR 763, Subpart F, Appendix A (AHERA)

Client:
Fugro West, Inc.

Client Number: 1608
Report Number: 225001
Date Received: 11/18/94

44 Montgomery Street, Suite 1010
San Francisco, CA 94104

Lab Number: 19493981
Sample Number: 17-DJC-1-A
P.O. Num:
Job ID: 94377660A
Site: 111 Pine Street, San Francisco, CA

Date Collected: 11/18/94

Location: Not indicated.

Gross Description: White drywall with fibrous backing and joint compound.

Comments:

Microscopic Description

TOTAL ASBESTOS PRESENT:

Non-Det. %

Chrysotile
Amosite

Non-Det. %
Non-Det. %
%
%

TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:

45-50 %

Cellulose
Fibrous Glass

45-50 %
Non-Det. %
%
%

TOTAL NON-ASBESTOS NONFIBROUS MATERIAL PRESENT:

50-55 %

Project: CalFront Portfolio Project No. 9437-7660-A
Client: Erwin, Cohen & Jessup Date: 11-18-94
Site: 111 Pine St. Project Manager: Steve Boudreau
Address: San Fran., Ca. Submitted By: Joe Lorton

Submitted To: Forensic Analytical Location: Hayward, Ca.
Attention: Lab Method of Delivery: Courier
Date of Delivery: 11-18-94 Appr. Time of Delivery: 3:00 A.M. (P.M.)

ANALYSIS REQUIRED

PLM ☒ PCM ☐ TEM ☐ AA (Flame) ☐ AA (G.F.) ☐ Other: ☐

TYPE OF SAMPLES

Bulk ☒ Air ☐ Paint ☐ Soil ☐ Water ☐ Other: ☐

No. of Samples: 3 Report Results As: % asbestos
Fax Results By: 11 / 19 / 94 at ~~12:00~~ 12:00 (P.M.)
Fax No.: (415) 296-0944
Hardcopy Results By: 11 / 21 / 94
Send Results To: Steve Boudreau
Cost Per Sample: \$ 12.00
Special Instructions: _____

CHAIN-OF-CUSTODY ATTACHED

LAB SUBMITTAL FORM



Environmental Services
Water Resources
Geotechnical Engineering
Marine Surveying/Positioning

Rec'd 11/18 4:30 p.m.

1608

Project: Cal Front Portfolio
 Client: Erwin, Cohen & Jessup
 Site: 111 Pine St.
 Address: San Fran., Ca.

Project No. 9437-7660-A
 Date: 11-18-94
 Project Manager: Steve Boudreau
 Submitted By: Joe G Lton

No. of Samples: 3

SAMPLE NUMBERS

<u>15-DJC-1-A</u>		
<u>16-DJC-1-A</u>		
<u>17-DJC-1-A</u>		

SIGN FROM	DATE	TIME	SIGN TO	DATE	TIME
<u>Joe G Lton</u>	<u>11-18-94</u>	<u>2:00</u>	<u>Forensic Analytical</u>	<u>11-18-94</u>	<u>3:00</u>

CHAIN-OF-CUSTODY RECORD



Environmental Services
 Water Resources
 Geotechnical Engineering
 Marine Surveying/Positioning

Rec'd 11/18 4:30 *James*



Forensic Analytical
Analytical Report

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Bulk Asbestos Analysis Summary
40 CFR 763, Subpart F, Appendix A (AHERA)

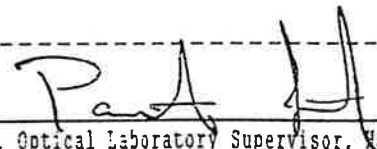
Client:
Fugro West, Inc.

44 Montgomery Street, Suite 1010
San Francisco, CA 94104

Client ID: 1608
Report Number: 224667
Date Received: 11/14/94

P.O. Num:
Job ID: 94377660A
Site: 111 Pine Street, San Francisco, CA

Sample Number Location/Description	Date Col.	Lab Num.	Asbestos Present	(Breakdown by type)
1-SAF-1-A Not indicated.	11/14/94	19492169	Non-Det.%	
2-ACP-1-A Not indicated.	11/14/94	19492170	Non-Det.%	
3-ACP-1-A Not indicated.	11/14/94	19492171	Non-Det.%	
4-RRM-1-A Not indicated.	11/14/94	19492172	Non-Det.%	
5-RM-1-A Not indicated.	11/14/94	19492173	5-10%	Chrysotile (5-10%)
6-FT-1-A Not indicated.	11/14/94	19492174	Non-Det.%	
7-CBM-1-A Not indicated.	11/14/94	19492175	Non-Det.%	
8-DW-1-A Not indicated.	11/14/94	19492176	Non-Det.%	
9-CC-1-A Not indicated.	11/14/94	19492177	Non-Det.%	


Patrick E. Little, Optical Laboratory Supervisor, Hayward Laboratory

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Bulk Asbestos Analysis Summary
40 CFR 763, Subpart F, Appendix A (AHERA)

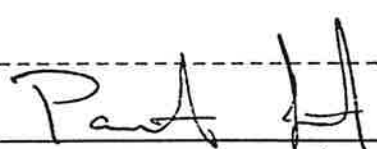
Client:
Fugro West, Inc.

44 Montgomery Street, Suite 1010
San Francisco, CA 94104

Client ID: 1608
Report Number: 224667
Date Received: 11/14/94

P.O. Num:
Job ID: 94377660A
Site: 111 Pine Street, San Francisco, CA

Sample Number Location/Description	Date Col.	Lab Num.	Asbestos Present	(Breakdown by type)
10-RC-1-A Not indicated.	11/14/94	19492178	Non-Det. %	
11-DJC-1-A Not indicated.	11/14/94	19492179	Trace %	Chrysotile (Trace %)
12-SAT-1-A Not indicated.	11/14/94	19492180	Non-Det. %	
12-SAT-2-A Not indicated.	11/14/94	19492181	Non-Det. %	
13-VSF-1-A Not indicated.	11/14/94	19492182	Non-Det. %	
14-DJC-1-A Not indicated.	11/14/94	19492183	Trace %	Chrysotile (Trace %)


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Bulk Material Analysis
Method: 40 CFR 763, Subpart F, Appendix A (AHERA)

Client:
Fugro West, Inc.

Client Number: 1608
Report Number: 224667
Date Received: 11/14/94

44 Montgomery Street, Suite 1010
San Francisco, CA 94104

Lab Number: 19492169
Sample Number: 1-SAF-1-A
P.O. Num:
Job ID: 94377660A
Site: 111 Pine Street, San Francisco, CA
Location: Not indicated.

Date Collected: 11/14/94

Gross Description: Beige fibrous material.

Comments:

Microscopic Description

TOTAL ASBESTOS PRESENT:		Non-Det. %
Chrysotile	Non-Det. %	
Amosite	Non-Det. %	

TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:	95-99 %
Cellulose	95-99 %
Fibrous Glass	Non-Det. %

TOTAL NON-ASBESTOS NONFIBROUS MATERIAL PRESENT:	1-5 %
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Bulk Material Analysis
Method: 40 CFR 763, Subpart F, Appendix A (AHERA)

Client:
Fugro West, Inc.

Client Number: 1608
Report Number: 224667
Date Received: 11/14/94

44 Montgomery Street, Suite 1010
San Francisco, CA 94104

Lab Number: 19492170
Sample Number: 2-ACP-1-A
P.O. Num:
Job ID: 94377660A
Site: 111 Pine Street, San Francisco, CA

Date Collected: 11/14/94

Location: Not indicated.

Gross Description: Beige fibrous material with paint.

Comments:

Microscopic Description

TOTAL ASBESTOS PRESENT:		Non-Det. %
Chrysotile	Non-Det. %	
Amosite	Non-Det. %	
	%	
	%	
TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:		85-90 %
Cellulose	30-35 %	
Fibrous Glass	50-55 %	
	%	
	%	
TOTAL NON-ASBESTOS NONFIBROUS MATERIAL PRESENT:		10-15 %

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Bulk Material Analysis

Method: 40 CFR 763, Subpart F, Appendix A (AHERA)

Client:
Fugro West, Inc.

44 Montgomery Street, Suite 1010
San Francisco, CA 94104

Client Number: 1608
Report Number: 224667
Date Received: 11/14/94

Lab Number: 19492171
Sample Number: 3-ACP-1-A
P.O. Num:
Job ID: 94377660A
Site: 111 Pine Street, San Francisco, CA

Date Collected: 11/14/94

Location: Not indicated.

Gross Description: White fibrous material with paint.

Comments:

Microscopic Description

TOTAL ASBESTOS PRESENT:

Chrysotile
Amosite

Non-Det. %

Non-Det. %

%
%

Non-Det. %

TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:

Cellulose
Fibrous Glass

Trace

95-99

%
%
%
%

95-99 %

TOTAL NON-ASBESTOS NONFIBROUS MATERIAL PRESENT:

1-5 %



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Bulk Material Analysis
Method: 40 CFR 763, Subpart F, Appendix A (AHERA)

Client:
Fugro West, Inc.

Client Number: 1608
Report Number: 224667
Date Received: 11/14/94

44 Montgomery Street, Suite 1010
San Francisco, CA 94104

Lab Number: 19492172
Sample Number: 4-RRM-1-A
P.O. Num:
Job ID: 94377660A
Site: 111 Pine Street, San Francisco, CA

Date Collected: 11/14/94

Location: Not indicated.

Gross Description: Black roof material.

Comments:

Microscopic Description

TOTAL ASBESTOS PRESENT:		Non-Det. %
Chrysotile	Non-Det. %	
Amosite	Non-Det. %	
	%	
	%	
TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:		5-10 %
Cellulose	1-5 %	
Fibrous Glass	Non-Det. %	
Synthetic	1-5 %	
	%	
TOTAL NON-ASBESTOS NONFIBROUS MATERIAL PRESENT:		90-95 %



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Bulk Material Analysis
Method: 40 CFR 763, Subpart F, Appendix A (AHERA)

Client:
Fugro West, Inc.

44 Montgomery Street, Suite 1010
San Francisco, CA 94104

Client Number: 1608
Report Number: 224667
Date Received: 11/14/94

Lab Number: 19492173
Sample Number: 5-RM-1-A
P.O. Num:
Job ID: 94377660A
Site: 111 Pine Street, San Francisco, CA

Date Collected: 11/14/94

Location: Not indicated.

Gross Description: Black fibrous roof material.

Comments:

Microscopic Description

TOTAL ASBESTOS PRESENT:	5-10	%
Chrysotile	5-10	%
Amosite	Non-Det.	%
	%	%
	%	%
TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:	Trace	%
Cellulose	Trace	%
Fibrous Glass	Non-Det.	%
	%	%
	%	%
TOTAL NON-ASBESTOS NONFIBROUS MATERIAL PRESENT:	90-95	%



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Bulk Material Analysis

Method: 40 CFR 763, Subpart F, Appendix A (AHERA)

Client:
Fugro West, Inc.

Client Number: 1608
Report Number: 224667
Date Received: 11/14/94

44 Montgomery Street, Suite 1010
San Francisco, CA 94104

Lab Number: 19492174
Sample Number: 6-FT-1-A
P.O. Num:
Job ID: 94377660A
Site: 111 Pine Street, San Francisco, CA

Date Collected: 11/14/94

Location: Not indicated.

Gross Description: Tan tile with yellow mastic.

Comments:

Microscopic Description

TOTAL ASBESTOS PRESENT:		Non-Det. %
Chrysotile	Non-Det. %	
Amosite	Non-Det. %	
	%	
	%	
TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:		Trace %
Cellulose	Trace %	
Fibrous Glass	Non-Det. %	
	%	
	%	
TOTAL NON-ASBESTOS NONFIBROUS MATERIAL PRESENT:		99-100 %

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Bulk Material Analysis
Method: 40 CFR 763, Subpart F, Appendix A (AHERA)

Client:
Fugro West, Inc.

Client Number: 1608
Report Number: 224667
Date Received: 11/14/94

44 Montgomery Street, Suite 1010
San Francisco, CA 94104

Lab Number: 19492175
Sample Number: 7-CBM-1-A
P.O. Num:
Job ID: 94377660A
Site: 111 Pine Street, San Francisco, CA

Date Collected: 11/14/94

Location: Not indicated.

Gross Description: Yellow mastic with black fibrous material.

Comments:

Microscopic Description

TOTAL ASBESTOS PRESENT:		Non-Det. %
Chrysotile	Non-Det. %	
Amosite	Non-Det. %	
	%	
	%	
TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:		5-10 %
Cellulose	5-10 %	
Fibrous Glass	Non-Det. %	
	%	
	%	
TOTAL NON-ASBESTOS NONFIBROUS MATERIAL PRESENT:		90-95 %



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Bulk Material Analysis

Method: 40 CFR 763, Subpart F, Appendix A (AHERA)

Client:
Fugro West, Inc.

Client Number: 1608
Report Number: 224667
Date Received: 11/14/94

44 Montgomery Street, Suite 1010
San Francisco, CA 94104

Lab Number: 19492176
Sample Number: 8-DW-1-A
P.O. Num:
Job ID: 94377660A
Site: 111 Pine Street, San Francisco, CA

Date Collected: 11/14/94

Location: Not indicated.

Gross Description: White fibrous wrap with yellow fibrous material.

Comments:

Microscopic Description

TOTAL ASBESTOS PRESENT:			Non-Det. %
Chrysotile	Non-Det. %		
Amosite	Non-Det. %		
	%		
	%		
TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:			85-90 %
Cellulose	50-55	%	
Fibrous Glass	30-35	%	
	%		
	%		
TOTAL NON-ASBESTOS NONFIBROUS MATERIAL PRESENT:			10-15 %



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Bulk Material Analysis

Method: 40 CFR 763, Subpart F, Appendix A (AHERA)

Client:
Fugro West, Inc.

Client Number: 1608
Report Number: 224667
Date Received: 11/14/94

44 Montgomery Street, Suite 1010
San Francisco, CA 94104

Lab Number: 19492177
Sample Number: 9-CC-1-A
P.O. Num:
Job ID: 94377660A
Site: 111 Pine Street, San Francisco, CA

Date Collected: 11/14/94

Location: Not indicated.

Gross Description: White nonfibrous material with black fibrous material.

Comments:

Microscopic Description

TOTAL ASBESTOS PRESENT:

Non-Det. %

Chrysotile
Amosite

Non-Det. %
Non-Det. %
%
%

TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:

5-10 %

Cellulose
Fibrous Glass

Trace %
5-10 %
%
%

TOTAL NON-ASBESTOS NONFIBROUS MATERIAL PRESENT:

90-95 %

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Bulk Material Analysis
Method: 40 CFR 763, Subpart F, Appendix A (AHERA)

Client:
Fugro West, Inc.

Client Number: 1608
Report Number: 224667
Date Received: 11/14/94

44 Montgomery Street, Suite 1010
San Francisco, CA 94104

Lab Number: 19492178
Sample Number: 10-RC-1-A
P.O. Num:
Job ID: 94377660A
Site: 111 Pine Street, San Francisco, CA

Date Collected: 11/14/94

Location: Not indicated.

Gross Description: Black nonfibrous material.

Comments:

Microscopic Description

TOTAL ASBESTOS PRESENT:	Non-Det. %
Chrysotile	Non-Det. %
Amosite	Non-Det. %
	%
	%

TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:	Trace %
Cellulose	Trace %
Fibrous Glass	Non-Det. %
	%
	%

TOTAL NON-ASBESTOS NONFIBROUS MATERIAL PRESENT:	99-100 %
--	-----------------



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Bulk Material Analysis
Method: 40 CFR 763, Subpart F, Appendix A (AHERA)

Client:
Fugro West, Inc.

Client Number: 1608
Report Number: 224667
Date Received: 11/14/94

44 Montgomery Street, Suite 1010
San Francisco, CA 94104

Lab Number: 19492179
Sample Number: 11-DJC-1-A
P.O. Num:
Job ID: 94377660A
Site: 111 Pine Street, San Francisco, CA

Date Collected: 11/14/94

Location: Not indicated.

Gross Description: White joint compound with fibrous backing.

Comments: Asbestos in joint compound (trace). Composite reported.

Microscopic Description

TOTAL ASBESTOS PRESENT:		Trace	%
Chrysotile	Trace	%	
Amosite	Non-Det.	%	
		%	
		%	
TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:		50-55	%
Cellulose	50-55	%	
Fibrous Glass	Non-Det.	%	
		%	
		%	
TOTAL NON-ASBESTOS NONFIBROUS MATERIAL PRESENT:		45-50	%



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Bulk Material Analysis

Method: 40 CFR 763, Subpart F, Appendix A (AHERA)

Client:
Fugro West, Inc.

Client Number: 1608
Report Number: 224667
Date Received: 11/14/94

44 Montgomery Street, Suite 1010
San Francisco, CA 94104

Lab Number: 19492180
Sample Number: 12-SAT-1-A
P.O. Num:
Job ID: 94377660A
Site: 111 Pine Street, San Francisco, CA

Date Collected: 11/14/94

Location: Not indicated.

Gross Description: Beige fibrous material.

Comments:

Microscopic Description

TOTAL ASBESTOS PRESENT:		Non-Det. %
Chrysotile	Non-Det. %	
Amosite	Non-Det. %	
	%	
	%	
TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:		80-85 %
Cellulose	Trace %	
Fibrous Glass	80-85 %	
	%	
	%	
TOTAL NON-ASBESTOS NONFIBROUS MATERIAL PRESENT:		15-20 %

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Bulk Material Analysis

Method: 40 CFR 763, Subpart F, Appendix A (AHERA)

Client:
Fugro West, Inc.

Client Number: 1608
Report Number: 224667
Date Received: 11/14/94

44 Montgomery Street, Suite 1010
San Francisco, CA 94104

Lab Number: 19492181
Sample Number: 12-SAT-2-A
P.O. Num:
Job ID: 94377660A
Site: 111 Pine Street, San Francisco, CA

Date Collected: 11/14/94

Location: Not indicated.

Gross Description: Beige fibrous material.

Comments:

Microscopic Description

TOTAL ASBESTOS PRESENT:

Non-Det. %

Chrysotile

Non-Det. %

Amosite

Non-Det. %

%
%

TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:

80-85 %

Cellulose

Trace

%

Fibrous Glass

80-85

%

%

%

TOTAL NON-ASBESTOS NONFIBROUS MATERIAL PRESENT:

10-15 %

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Bulk Material Analysis
Method: 40 CFR 763, Subpart F, Appendix A (AHERA)

Client:
Fugro West, Inc.

44 Montgomery Street, Suite 1010
San Francisco, CA 94104

Client Number: 1608
Report Number: 224667
Date Received: 11/14/94

Lab Number: 19492182
Sample Number: 13-VSF-1-A
P.O. Num:
Job ID: 94377660A
Site: 111 Pine Street, San Francisco, CA

Date Collected: 11/14/94

Location: Not indicated.

Gross Description: White linoleum with fibrous backing.

Comments:

Microscopic Description

TOTAL ASBESTOS PRESENT:		Non-Det. %
Chrysotile	Non-Det. %	
Amosite	Non-Det. %	
	%	
	%	
TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:		10-15 %
Cellulose	10-15 %	
Fibrous Glass	Non-Det. %	
	%	
	%	
TOTAL NON-ASBESTOS NONFIBROUS MATERIAL PRESENT:		85-90 %

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Bulk Material Analysis

Method: 40 CFR 763, Subpart F, Appendix A (AHERA)

Client:
Fugro West, Inc.

Client Number: 1608
Report Number: 224667
Date Received: 11/14/94

44 Montgomery Street, Suite 1010
San Francisco, CA 94104

Lab Number: 19492183
Sample Number: 14-DJC-1-A
P.O. Num:
Job ID: 94377660A
Site: 111 Pine Street, San Francisco, CA

Date Collected: 11/14/94

Location: Not indicated.

Gross Description: White joint compound with fibrous backing.

Comments: Asbestos in joint compound (1-5%). Composite reported.

Microscopic Description

TOTAL ASBESTOS PRESENT:		Trace	%
Chrysotile	Trace	%	
Amosite	Non-Det.	%	
		%	
		%	
TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:		40-45	%
Cellulose	40-45	%	
Fibrous Glass	Non-Det.	%	
		%	
		%	
TOTAL NON-ASBESTOS NONFIBROUS MATERIAL PRESENT:		55-60	%

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Project: Calfront Port folio Project No. 9437-7660-A
Client: Erwin, Cohen & Jessup Date: 11-14-94
Site: 111 Pine St. Project Manager: Steve Boudreau
Address: S.F.C. Submitted By: Joe Colton

Submitted To: Forensic Analytical Location: Hayward, Ca.
Attention: Lab Method of Delivery: Courier
Date of Delivery: 11-14-94 Appr. Time of Delivery: 10:00 A.M. P.M.

ANALYSIS REQUIRED

PLM ☒ PCM ☐ TEM ☐ AA (Flame) ☐ AA (G.F.) ☐ Other: ☐

TYPE OF SAMPLES

Bulk ☒ Air ☐ Paint ☐ Soil ☐ Water ☐ Other: ☐

No. of Samples: 15 Report Results As: To asbestos
Fax Results By: 11 / 15 / 94 at 8:00 A.M. P.M.
Fax No.: (415) 296-0944
Hardcopy Results By: 11 / 14 / 94
Send Results To: Joe Colton
Cost Per Sample: \$ 12.00
Special Instructions: _____

CHAIN-OF-CUSTODY ATTACHED

LAB SUBMITTAL FORM



Environmental Services
Water Resources
Geotechnical Engineering
Marine Surveying/Positioning

Project: CalFront Portfolio
Client: Erwin, Cohen, & Jessup
Site: 111 Pine St.
Address: S.F. Ca.

Project No. 9437-7660-A
Date: 11-18-94
Project Manager: Steve Boodreau
Submitted By: Joel L. Tom

No. of Samples: 15

SAMPLE NUMBERS

<u>1-SAF-1-A</u>	<u>11-DJC-1-A</u>	
<u>2-ACP-1-A</u>	<u>12-SAT-1-A</u>	
<u>3-ACP-1-A</u>	<u>12-SAT-2-A</u>	
<u>4-RRM-1-A</u>	<u>13-USF-1-A</u>	
<u>5-RM-1-A</u>	<u>14-DJC-1-A</u>	
<u>6-FT-1-A</u>		
<u>7-CBM-1-A</u>		
<u>8-DW-1-A</u>		
<u>9-CC-1-A</u>		
<u>10-RC-1-A</u>		

SIGN FROM	DATE	TIME	SIGN TO	DATE	TIME
<u>Joel L. Tom</u>	<u>11-18-94</u>	<u>9:00 AM</u>	<u>Forensic Analytical</u>	<u>11-18-94</u>	<u>10:00 AM</u>
			<u>L. Kan</u>	<u>11/14/94</u>	<u>10 AM</u>

CHAIN-OF-CUSTODY RECORD



Environmental Services
Water Resources
Geotechnical Engineering
Marine Surveying/Positioning