



A Creative Joint Venture For Better Environmental Solutions

**Department of Veterans Affairs
Building 17
4150 Clement Street
San Francisco, CA**

KELLCO-MACS Job #1007-25

**Pre-Demolition
Asbestos and Lead Survey Report**

for

**HDR Architecture
560 Mission Street
Suite 900
San Francisco, CA 94105**

August 2, 2010



A Creative Joint Venture For Better Environmental Solutions

**Pre-Demolition Limited
Asbestos and Lead Paint Survey Report**

Date: August 2, 2010

KELLCO-MACS Job #: 1007-25

Client: Ms. Anne Gluch
HDR Architecture
560 Mission Street
Suite 900
San Francisco, CA 94105

Location: Department of Veteran Affairs
Building 17
4150 Clement Street
San Francisco, CA

Date of Inspection: July 28, 2010

Inspectors: Derrik Quach SST # 02-3214
Tim Cannard CAC # 94-1395

Description Of The Inspected Area: This is a limited asbestos and lead survey conducted in Building 17 of the Department of Veteran Affairs located in San Francisco, CA.
Building 17 is composed of fiberglass wall and the exterior contains wood with metal paneling.

Background

This is a limited asbestos and lead survey located in San Francisco, CA

Synopsis

Asbestos was **not** found in any of the suspect asbestos containing building material's; therefore, there should not be any abatement needed for asbestos on this project, as it relates to the physical structure of the building.

Lead paint was found in the following tested materials:

- Cream paint on wood and metal of the exterior north wall.

Since the exterior wall is metal and will be recycled, there should not be any financial impact associated with the lead paint. The *exterior north wall, cream paint on wood* has virtually no lead in the paint. This wood should be disposed of as normal construction debris via a proper class 2 or class 3 landfill that can handle construction debris . As with any project of this nature, all OSHA rules and regulations must apply.

Florescent lights were observed in the building. They are known to contain mercury and need to be removed as part of this demolition job. Due to the age of the building, it is highly probably that PCB ballast should not be encountered.

About the Inspection

The inspection performed was both visual and tactile. Samples were taken of suspect materials located at the interior and exterior of the survey area.

The inspection was limited to those materials readily discerned in a reasonable inspection by a competent inspector. Materials that are hidden within walls, behind structures, in vertical shafts or in areas that make them not readily available to our inspector were not sampled. If future work uncovers any non-sampled materials, these should be submitted for asbestos and/or lead paint analysis.

The following numbering convention was used for this inspection:

LETTER	STANDS FOR	EXAMPLE	MEANING
XX	Building DESIGNATION based on information provided on drawings provided to us prior to inspection	SFVA	San Francisco Veterans Affairs
Y & Optional Z	EITHER building SYSTEM (W: wall; F: Flooring; C: Ceiling; T: TSI; M: Misc) OR Further designation of sample location as Unit # within building	F S W D P R	Floor Sink Wall Air Duct Pipe Insulation Roof
xx	Sample number and layer	01 01a	First Sample, First Layer First Sample, Second Layer

		01b	First Sample, Third Layer
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- **Asbestos Findings**

Asbestos samples were analyzed in the KELLCO-MACS laboratory, by Polarized Light Microscopy, the EPA's recommended method. Copies of the full laboratory reports are attached. These valuable reports can be utilized as future reference to determine if a particular material was tested.

Sample locations are noted on the attached not-to-scale drawing.

The determination of a material to be Asbestos Containing Material (ACM) was made either by direct sampling or by homogeneity with at least one positive sample of the same material.

Materials that tested **positive** for asbestos are: **None**

Samples that have less than 10% asbestos and can be submitted for further analysis by the Point Count method as described elsewhere in this document. If the Point Count method determines that the material contains less than 1% asbestos, these materials can be disposed of as non-hazardous asbestos containing construction waste.

Tested materials that were **none detected** for asbestos are:

Lab Sample #	Field Sample #	Field Description
L206711-1	SFVA-F-01	Changing room, floor / grey fiberglass/epoxy
L206711-2	SFVA-S-02	Changing room, under sink / grey sink coating
L206711-3	SFVA-W-03	Changing room, cove base / white sealant
L206711-4	SFVA-P-04	Auto Clake, pipe / yellow pipe insulation
L206711-5	SFVA-D-05	Auto Clake, air duct / yellow duct insulation
L206711-6	SFVA-P-06	Bottle Filling Station, pipe / yellow pipe insulation
L206711-7	SFVA-P-07	Dirty Room 4, pipe / yellow pipe insulation
L206711-8	SFVA-C-08	Bottle Filling Station, ceiling / white fiberglass/paper backing
L206711-9	SFVA-P-09	Steam line, 12" pipe / yellow fiberglass/paper backing
L206711-10	SFVA-P-10	Steam line, 6" pipe / yellow fiberglass/paper backing
L206711-11	SFVA-R-11	Roof, south edge / black mastic
L206711-12	SFVA-F-12	Mechanical room, floor / grey fiberglass/epoxy
L206711-13	SFVA-R-13	Roof, south field / black mastic/foam/plastic
L206711-14	SFVA-R-13a	Roof, south field / black mastic/foam/plastic
L206711-15	SFVA-R-13b	Roof, south field / black mastic/foam/plastic
L206711-16	SFVA-R-13c	Roof, south field / black mastic/foam/plastic
L206711-17	SFVA-R-14	Roof, south gutter / grey sealant
L206711-18	SFVA-R-15	Roof, southeast edge / black mastic
L206711-19	SFVA-R-16	Roof, southeast field / black/yellow mastic/foam/plastic
L206711-20	SFVA-R-16a	Roof, southeast field / black/yellow mastic/foam/plastic
L206711-21	SFVA-R-16b	Roof, southeast field / black/yellow mastic/foam/plastic

L206711-22	SFVA-D-17	Southeast exterior duct, duct / yellow fiberglass/paper backing
L206711-23	SFVA-F-18	Walkway, northeast floor / cream paint/epoxy
L206711-24	SFVA-F-19	Walkway, southeast floor / cream paint/epoxy

- **Paint Findings**

Lead samples were analyzed by Atomic Absorption in the KELLCO-MACS laboratory. OSHA requires protection of workers from exposure to any lead. Paint should be considered as containing lead if it is the same color as any positive tested material, unless it has specifically been tested and shown to be **none detected** for lead.

The following materials tested **positive** for lead:

Lab Sample #	Field Sample #	Field Description	PPM	Wt %
P206712-1	SFVA-Pb-01	Exterior wall, north wall / cream paint on wood	71	0.0071
P206712-2	SFVA-Pb-02	Exterior wall, northwest wall / paint on metal	172	0.0172

Paint of the same color as the above samples should be considered positive unless proven otherwise by direct sampling with results of “None Detected.”

The following are materials for which the lead was **none detected**: None

Although there are some materials that are negative for lead paint, for the purposes of demolition it is recommended that all painted materials be considered as lead containing.

Regulatory Requirements

The Environmental Protection Agency (EPA) defines Asbestos Containing Material as any material that contains greater than 1% asbestos.

Removal or disturbance of any amount of lead paint requires adherence to the Cal-OSHA and CDPH regulations, including proper training and certification for workers and supervisors

The OSHA lead (1532) regulations require that a Negative Initial Determination for lead exposure be made with paint that contains greater than 0.06% (600 ppm) of lead. Paint with less than 0.06% lead should still be treated within the OSHA guidelines, but with reasonable work practices should not generate OSHA action levels of lead exposure.

Building components with intact lead paint and no other hazardous materials can be disposed of as non-hazardous construction waste. Paint chips and debris must be disposed of as lead containing hazardous waste.

Comment Regarding All Lead Containing Materials:

Lead is a known health hazard. Lead containing materials in good condition do not necessarily need to be removed if they are not disturbed; they should however be respected.

Painted surfaces that contain lead should be made known to contractors who may disturb them during their work. OSHA guidelines for workers in contact with lead paint apply if ANY detectable lead is found.

Anyone coming in contact with leaded paint should be advised not to disturb it without taking precautionary measures appropriate to avoid lead contamination or lead exposure.

Areas Needing Immediate Corrective Action

Chipping and peeling lead paint should be removed prior to renovation and must be removed prior to demolition of the survey site.

Analytical Procedures

- ***POLARIZED LIGHT MICROSCOPY (PLM)***

Bulk samples were analyzed in accordance with U.S. EPA "Test Method for Determination of Asbestos in Bulk Building Materials, 1993," with inclusion of area percent estimates of the sample components. The use of the McCrone Color Dispersion Staining Technique supplements the analysis when considered useful by the analyst. The samples are prepared with refractive immersion oil and are examined under Polarized Light Microscopy (PLM). The accuracy of the visual estimate method is 1%.

As per the standard "...The accuracy in the determination of the presence or absence of asbestos of greater than 1 area percent asbestos is greater than 99%." ASTM Committee D22.05, 1/18/88, *Standard Method of Testing for Asbestos Containing Materials by Polarized Light Microscopy*. If the sample matrix is reduced to minimize non-asbestos components, the detection limit can be mathematically enhanced, based on the amount of material remaining after matrix reduction. This method is called gravimetric reduction. This method involves ashing and chemical dissolution of the sample.

- ***ATOMIC ABSORPTION FOR LEAD***

Paint samples were collected for atomic absorption (AA) analysis. The detection limit for each sample depends upon many factors including the sensitivity of the instrument and the sample size. In the KELLCO-MACS laboratory utilizing flame AA, the detection limit is normally .01% or 100 parts per million (ppm).

KELLCO-MACS Qualifications

KELLCO-MACS is a creative joint venture offering hazardous materials and AIHA laboratory analyses. Our credentials include:

Pre-Demolition Asbestos and Lead Survey
Job # 1007-25, Department of Veterans Affairs, 4150 Clement Street, Building 17, San Francisco, CA
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KELLCO-MACS

- The KELLCO-MACS asbestos inspector is licensed with the State of California Department of Occupational Safety and Health (CAL-OSHA).
- The KELLCO-MACS lead inspector is licensed by the California Department of Public Health (CDPH)
- The laboratory accreditations include:
 - **NVLAP PLM** for Asbestos: NIST National Voluntary Laboratory Accreditation Program certificate of accreditation for bulk **asbestos** analysis by polarized light microscopy (Accreditation #101948-1)
 - **AIHA** Accreditation for **Industrial Hygiene** Analytical Laboratory for PCM, and AA for lead (Accreditation #101786)
 - **AIHA Analyst Proficiency (NIOSH PAT)** (Accreditation # 11172)
 - **AIHA ELLAP** Accreditation for Lead: Accreditation for the **Environmental Lead** Laboratory recognized by the EPA as meeting the requirements of the National Lead Laboratory Accreditation Program established under Title X (Lab ID #11109)
 - **ELAP PLM** for Asbestos: California Department of Health Services, Environmental Laboratory Accreditation Program, certificate for bulk asbestos analysis (Certificate #2027)
 - **USDA Soil** permit #39484

The following supporting documents are attached to this report:

- Laboratory analytical reports
- Floor plan or sketch showing sample locations

Please call KELLCO if there are any questions and/or clarifications regarding this report. We look forward to working with you in the future.

Sincerely,
KELLCO-MACS



Tim C. Cannard CAC #94-1395, CDPH Lead #764
 Senior Project Manager



3137 Diablo Ave, Hayward, CA 94545-2701

510-786-9751

Analysis Report

Lead in Paint

USEPA 7000/7420

KELCO Services

3137 Diablo Ave

Hayward

CA 94545

Doug Deardorff

Analyst: DD

DD

(signature)

-Laboratory manager: [Signature]

(signature)

Person to contact: Tim Cannard

Contact phone: 510-786-9751

FAX phone: 510-786-9625

Submitted on: July 28, 2010

Analyzed on: July 29, 2010 at: 10:06

Reported on: July 29, 2010 at: 10:06

Corresponding invoice number: 206712

Bias: 3.2%

Precision: -1.4%

Job Number: 1007-25

Job Description: Department of Veterans Affairs - 4150 Clement Street - Building 17 - San Francisco, CA

Lab Sample Number	Client Sample Number and Description	Calib #	Rcvd OK	Ac-cptd	Report'g Limit ppm	%	Lead ppm	mg/cm ²
P206712-1	SFVA-Pb-01 Exterior wall, north wall / cream paint on wood	14144	Yes	Yes	56.3	0.0071	71	N/A
P206712-2	SFVA-Pb-02 Exterior wall, northwest wall / paint on metal	14144	Yes	Yes	123	0.0172	172	N/A

This report may not be reproduced except in full and with the permission of MACS Lab, Inc. This report relates only to the item(s) tested. For QC data refer to Calibration Number QA Report. MACS Lab is accredited by the American Industrial Hygiene Association (AIHA) for the analysis of lead in paint and soil (laboratory ID #101786). Some paint samples submitted contain substrate material that can't be removed from the paint layer. This may cause erroneous results. Proper field sampling techniques must be used. Analysis is performed on a flame Atomic Absorption Spectrometer. PPM= parts per million & 10,000 ppm = 1% Note: 1 mg/kg = 1 ppm NOTICE: FOR XRF Confirmation: When the actual sampled area is provided to the laboratory, the results can be calculated in mg/cm² exactly like an XRF instrument result. Otherwise NO XRF comparison can ever be made because the lab analyzes only a portion of a normal sample and the area of a scrape can't be known after the fact. Without the area N/A is reported. Results are not blank corrected.



Calibration # AA-

14144

Element Lead

Matrix: Paint

Method Detection Limit 0.25 µg/ml

Date of Analysis July 29, 2010

Analyst DD

	Measured Value	Target Value	Acceptance Criterion
Standard value 0.0 µg/ml	0.00060 units	N/A	
Standard value 0.8 µg/ml	0.01260 units	N/A	
Standard value 2.0 µg/ml	0.03250 units	N/A	
Standard value 5.0 µg/ml	0.07920 units	N/A	
Standard value 10.0 µg/ml	0.16350 units	N/A	
Slope	61.3793 µg/ml/unit	N/A	
Intercept	0.019643 µg/ml	N/A	
Correlation coefficient	0.999844	1	≥ 0.99800 Acceptable
0.25 µg/ml Reference	0.265 µg/ml	0.25	≥0.06 Acceptable
Glassware rinse water	< 0.250 µg/ml	0	
1st Matrix Blank	< 0.250 µg/ml	0	≤ 0.25 Acceptable
Method Blank Beginning	-1.166 µg	0	≤ 12.5 Acceptable
CCV Beginning	4.936 µg/ml	5.0000	± 10.0% Acceptable
ICV Beginning	4.912 µg/ml	5.0000	± 10.0% Acceptable
LCS Before sample 1	9.926 µg/ml	10.0000	± 10.0% Acceptable
CCV Before sample 11	N/A µg/ml	5.0000	± 10.0%
CCB Before sample 11	N/A µg/ml	0	≤ 0.25
Method Blank Before sample 11	N/A µg	0	≤ 12.5
CCV Before sample 21	N/A µg/ml	5.0000	± 10.0%
CCB Before sample 21	N/A µg/ml	0	≤ 0.25
2nd Matrix Blank	N/A µg/ml	0	≤ 0.25
Method Blank Before sample 21	N/A µg	0	≤ 12.5
CCV Before sample 31	N/A µg/ml	5.0000	± 10.0%
CCB Before sample 31	N/A µg/ml	0	≤ 0.25
Method Blank Before sample 31	N/A µg	0	≤ 12.5
CCV After	4.905 µg/ml	5.0000	± 10.0% Acceptable
CCB After	< 0.250 µg/ml	0	≤ 0.25 Acceptable
Method Blank After	-0.245 µg	0	≤ 12.5 Acceptable
LCS After	9.896 µg/ml	10.0000	± 10.0% Acceptable
RLVS	0.259 µg/ml	0.2500	± 25.0% Acceptable
Spike of sample 206708 - 1	509.4 µg	500.0	± 25.0% Acceptable
Spike of sample 0 - 0	N/A µg	0.0	± 25.0%
Spiked Duplicate 206708 - 1	509.4 µg	500.0	± 25.0% Acceptable
Spiked Duplicate 0 - 0	N/A µg	0.0	± 25.0%
Duplicate of sample 206708 2	N/A ppm		± 25.0%
Duplicate of sample 0 - 0	N/A ppm		± 25.0%

Note:

MDL= Minimum Detection Limit of the method (absolute)

ICV= Initial Calibration Verification

CCV= Continuing Calibration Verification

CCB= Continuing Calibration Blank

N/A = Not Applicable

LCS= Laboratory Control Sample - NIST SRM-1579

RLVS=Reporting Limit Verification Sample

Duplicate analyses are measurements of the variable of interest (in this case lead) performed identically on two subsamples of the same sample. The results from duplicate analyses are used to evaluate analytical or measurement precision but not the precision of sampling. Spiked samples are prepared by adding a known mass of the target analyte (in this case lead) to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. Spiked samples are used to determine the effect of the matrix on a method's recovery efficiency. The Method Blank is used to detect contamination from the laboratory. Accuracy is the degree of agreement between an observed value and an accepted reference value such as the LCS NIST SRM-1579 sample. Precision is the degree to which a set of observations or measurements of the same property conform to themselves. NEVER depend upon the laboratory to "fix-up" a poorly taken sample.

MACS Lab, Inc.3137 Diablo Ave
Hayward, CA 94545-2701

510-786-9751

AA Analysis Data Report**NOTICE:**

Instrument reading is in absorbance units

For solids (paint and soil):

Weight is in grams

Paint area (if present) is in sq cm

For air:

LPM = Liters per minute supplied by client

Minutes = duration of sample

m³ (on report) means cubic meter

For wipe:


Area = Wipe area supplied by client in sq ft

ft² (on report) means square foot

Client:

KELLCO Services

Submission ID Number:

206712Lead laboratory manager
or designee:

(signature)

Samples received on: July 28, 2010

Samples analyzed on: July 29, 2010

at: 10:06

I verify that I have checked the records and the data entered
here is accurate and matches the written records.

Sample #	Weight, LPM, or area	Solution vol ml	Instr. reading	Paint area or minutes
1	0.2219	50	0.00480	0
2	0.1019	50	0.00540	0

This report shows the data associated with the individual samples. This includes the MACS Lab, Inc. sample number, the sample weight digested, LPM, area wiped, dilution (solution volume), instrument reading in absorbance, paint area, time in minutes. By using the data on this page, and the slope and intercept found on the calibration curve page of this report one can calculate the concentration of analyte in the original sample. Be sure to use the calibration curve data for the sample tested (see sample results page for Calib. Number). In the case of paint and soil matrices multiply the slope times the absorbance and add the intercept. Multiply this number by the dilution and then divide by the weight. The result will be expressed in PPM. In the case of dust samples multiply the slope times the absorbance and add the intercept. Multiply this number times the dilution and adjust for the area wiped if it is not 1 sq ft. For air samples multiply the slope times the absorbance and add the intercept. Multiply this number by the dilution. This will be the number of μg of lead on the filter. Divide this number by the liters of air used and compute the concentration in cubic meters. A cubic meter contains 1000 liters. Note: in all cases if the concentration calculated by multiplying the slope times the absorbance and adding the intercept is below the MDL (method detection limit) value for that matrix substitute the MDL for the value calculated. This will be the Reporting Limit in PPM. (note: the MDL is shown only to 2 significant figures on this report which will result in slight differences between our and your calculations for this number).

The slope and intercept can be calculated using the absorbance and concentration (see the Quality Control Report) of the standards used in the analysis. This can be done by using linear regression analysis.

μg means micrograms or millionth of a gram.

CLIENT HDR Architecture 560 Mission Street 900 San Francisco CA	JOBSITE Department of Veterans Affairs 4150 Clement Street Building 17 San Francisco CA
94105	

CIRCLE TYPE OF BULK ANALYSIS

PLM	LEAD PAINT	LEAD WIPE	NON VIABLE MOLD	VIAIBLE MOLD	eCOLI	OTHER
# SAMPLES REC'D	2	ANALYZE TO FIRST POSITIVE YES NO				

NOTES & COMMENTS:

CHAIN OF CUSTODY & SAMPLE SUBMITAL FORM PAGE 1 OF 1 KELLCO-MACS JOB#: 1007-25 Department of Veterans Affairs

FIELD NUMBER	LOCATION (bldg, rm#, area)	COLOR	MATERIAL or SUBSTRATE (ft w/ size, mastic, t/c, etc.)	NOTES: Like condition, damage, quantity, inside what, beneath what? direction in building (N,S,E,W) etc.)
6FVA-Pb-01	Exterior Wall - Wall	cream	paint on wood	N. Wall
Pb-02	1		Paint on metal	N.W. Wall

KELLCO-MACS JOB#: 1007-25 LAB LOGIN # P206712

COLLECTED BY: Burnik

COLLECTED DATE: 7/28/10

TURN AROUND TIME: Normal 4 8 24 48 5-DAY

RESULTS NEEDED BY:

REPORT RESULTS TO PROJECT MANAGER Tim Cannard

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
<u>Paul G. H.</u>	7-28-10		<u>A.K. K. K.</u>	07/28/10	16:00

MACS Lab, Inc.3137 Diablo Ave
Hayward, CA 94545-2701

510-786-9751

Bulk Asbestos Analysis**Report****Method: EPA-600/M4-82-020**

Person to contact: Tim Cannard
 Contact phone: 510-786-9751
 FAX phone: 510-786-9625
 Sampled by: Derrik Quach
 Sampled on: July 28, 2010
 Analyzed on: July 29, 2010 at: 15:38
 Corresponding invoice number: 206711

KELCO Services
3137 Diablo Ave

Hayward

CA 94545

Analyst: ACB
HCB (signature)Laboratory manager: [Signature]
(signature)

Job Number: 1007-25

Job Description: Department of Veterans Affairs - 4150 Clement Street - Building 17 - San Francisco, CA

Lab Sample Number	Client Sample Number and Description	Asbestos detected?	Fibers present	Remarks
L206711-1	SFVA-F-01 Changing room, floor / grey fiberglass/ epoxy	N.D.	49%Fiberglass < 1%Cellulose	Gray fibrous epoxy. Balance of sample is unspecified non-fibrous material.
L206711-2	SFVA-S-02 Changing room, under sink / grey sink coating	N.D.	21%Cellulose < 1%Polyethylene	Gray sink caulk. Balance of sample is unspecified non-fibrous material.
L206711-3	SFVA-W-03 Changing room, cove base / white sealant	N.D.	< 1%Cellulose	Off-white caulk. Balance of sample is unspecified non-fibrous material.
L206711-4	SFVA-P-04 Auto Clake, pipe / yellow pipe insulation	N.D.	60%Mineral Wool 16%Cellulose 8%Fiberglass	Silver wrap fibrous insulation. Balance of sample is unspecified non-fibrous material.
L206711-5	SFVA-D-05 Auto Clake, air duct / yellow duct insulation	N.D.	61%Mineral Wool 17%Cellulose 7%Fiberglass	Silver wrap fibrous insulation. Balance of sample is unspecified non-fibrous material.

* Chrysotile, Amosite, Crocidolite, Tremolite, Actinolite, and Anthophyllite are asbestos fibers. N.D.=None Detected PC =Point Counted

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Report

510-786-9751

Lab Sample Number	Client Sample Number and Description	Asbestos detected?	Fibers present	Remarks
L206711-6	SFVA-P-06 Bottle Filling Station, pipe / yellow pipe insulation	N.D.	< 1%Cellulose	Off-white/black vinyl insulation. Balance of sample is unspecified non-fibrous material.
L206711-7	SFVA-P-07 Dirty Room 4, pipe / yellow pipe insulation	N.D.	62%Mineral Wool 17%Cellulose 7%Fiberglass	Silver wrap fibrous insulation. Balance of sample is unspecified non-fibrous material.
L206711-8	SFVA-C-08 Bottle Filling Station, ceiling / white fiberglass/paper backing	N.D.	44%Fiberglass < 1%Cellulose	White fibrous ceiling epoxy. Balance of sample is unspecified non-fibrous material.
L206711-9	SFVA-P-09 Steam line, 12" pipe / yellow fiberglass/paper backing	N.D.	60%Mineral Wool 17%Cellulose 7%Fiberglass	Silver wrap fibrous insulation. Balance of sample is unspecified non-fibrous material.
L206711-10	SFVA-P-10 Steam line, 6" pipe / yellow fiberglass/paper backing	N.D.	61%Mineral Wool 16%Cellulose 7%Fiberglass	Silver wrap fibrous insulation. Balance of sample is unspecified non-fibrous material.
L206711-11	SFVA-R-11 Roof, south edge / black mastic	N.D.	4%Fiberglass < 1%Cellulose < 1%Polyethylene	Black adhesive. Balance of sample is unspecified non-fibrous material.
L206711-12	SFVA-F-12 Mechanical room, floor / grey fiberglass/epoxy	N.D.	46%Fiberglass < 1%Cellulose	Gray fibrous epoxy. Balance of sample is unspecified non-fibrous material.
L206711-13	SFVA-R-13 Roof, south field / black mastic/foam/plastic	N.D.	No Fibers	Black roofing vinyl. Balance of sample is unspecified non-fibrous material.
L206711-14	SFVA-R-13a Roof, south field / black mastic/foam/plastic	N.D.	1%Cellulose	Brown adhesive. Balance of sample is organic binders and unspecified non-fibrous material.

* Chrysotile, Amosite, Crocidolite, Tremolite, Actinolite, and Anthophyllite are asbestos fibers. N.D.=None Detected PC =Point Counted

This report shall not be reproduced except in full without written approval of MACS Lab, Inc. This report relates only to the items tested. Samples will be destroyed after one month. Test per 40 Code of Federal Reg. Chap I (1-1-87) Part 763, Subpart F, Appendix A or current EPA method. Percentages are approximate. MACS Lab is an accredited laboratory of the National Voluntary Laboratory Accreditation Program (NVLAP) and is Lab Code 101948-0. No product endorsement by NVLAP or any agency of the U.S. Government may be claimed as a result of this analysis. Calif Dept of Health ELAP #2027. This method is not reliable for analysis of tile or other materials when fiber size is less than 10µ. TEM analysis should be used. Method Detection limit for asbestos is 1% per CA law. See QC page attached to this page for blank and retest data.



Report

510-786-9751

Lab Sample Number	Client Sample Number and Description	Asbestos detected?	Fibers present	Remarks
L206711-15	SFVA-R-13b Roof, south field / black mastic/foam/ plastic	N.D.	49%Cellulose 18%Fiberglass	Black felt. Balance of sample is organic binders and unspecified non-fibrous material.
L206711-16	SFVA-R-13c Roof, south field / black mastic/foam/ plastic	N.D.	No Fibers	Yellow foam. Balance of sample is unspecified non-fibrous material.
L206711-17	SFVA-R-14 Roof, south gutter / grey sealant	N.D.	< 1%Cellulose	Gray sealant. Balance of sample is unspecified non-fibrous material.
L206711-18	SFVA-R-15 Roof, southeast edge / black mastic	N.D.	< 1%Cellulose < 1%Polyethylene	Black adhesive. Balance of sample is unspecified non-fibrous material.
L206711-19	SFVA-R-16 Roof, southeast field / black/yellow mastic/foam/plastic	N.D.	< 1%Cellulose	Black roofing vinyl. Balance of sample is unspecified non-fibrous material.
L206711-20	SFVA-R-16a Roof, southeast field / black/yellow mastic/foam/plastic	N.D.	No Fibers	Yellow adhesive. Balance of sample is organic binders and unspecified non-fibrous material.
L206711-21	SFVA-R-16b Roof, southeast field / black/yellow mastic/foam/plastic	N.D.	59%Cellulose 10%Fiberglass	Black felt. Balance of sample is organic binders and unspecified non-fibrous material.
L206711-22	SFVA-D-17 Southeast exterior duct, duct / yellow fiberglass/paper backing	N.D.	61%Mineral Wool 16%Cellulose 7%Fiberglass	Silver wrap fibrous insulation. Balance of sample is unspecified non-fibrous material.
L206711-23	SFVA-F-18 Walkway, northeast floor / cream paint/ epoxy	N.D.	3%Cellulose	Off-white paint epoxy. Balance of sample is unspecified non-fibrous material.

* Chrysotile, Amosite, Crocidolite, Tremolite, Actinolite, and Anthophyllite are asbestos fibers. N.D.=None Detected PC =Point Counted

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Report

510-786-9751

Lab Sample Number	Client Sample Number and Description	Asbestos detected?	Fibers present	Remarks
L206711-24	SFVA-F-19 Walkway, southeast floor / cream paint/ epoxy	N.D.	< 1% Cellulose	Off-white paint epoxy. Balance of sample is unspecified non-fibrous material.

* Chrysotile, Amosite, Crocidolite, Tremolite, Actinolite, and Anthophyllite are asbestos fibers. N.D.=None Detected PC =Point Counted



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MACS Lab, Inc.
3137 Diablo Ave
Hayward, CA 94545-2701

510-786-9751

Bulk Asbestos Analysis

QA Report

Method: EPA-600/1

KELCO Services
3137 Diablo Ave

Hayward

CA 94545

Laboratory manager: _____

(signature)

Lab Sample Number	Client Sample Number and Description	Asbestos detected?	Fibers present	Remarks
Blank sample		N.D. PC*	No fibers	
L206711-21	SFVA-R-16b Roof, southeast field / black/yellow mastic/foam/plastic	N.D.	49% Cellulose 9% Fiberglass	Black felt. Balance of sample is organic binders and unspecified non-fibrous material.

End of report.

* Chrysotile, Amosite, Crocidolite, Tremolite, Actinolite, and Anthophyllite are asbestos fibers. N.D.=None Detected PC =Point Counted



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CLIENT

HDR Architecture
560 Mission Street
900
San Francisco
CA

JOBSITE

Department of Veterans Affairs
4150 Clement Street
Building 17
San Francisco
CA

94105

KELCO-MACS JOB#: 1007-25 LAB LOGIN # L206711

COLLECTED BY: Demik

COLLECTED DATE 7.28.10

TURN AROUND TIME: Normal 4 8 24 48 5-DAY

RESULTS NEEDED BY

CIRCLE TYPE OF BULK ANALYSIS

PLM LEAD PAINT LEAD WIPE NON VIABLE MOLD VIABLE MOLD eCOLI OTHER

SAMPLES REC'D ANALYZE TO FIRST POSITIVE YES NO

REPORT RESULTS TO PROJECT MANAGER Tim Cannard

NOTES & COMMENTS: Limited Demo Survey

CHAIN OF CUSTODY & SAMPLE SUBMITAL FORM				PAGE	OF	KELCO-MACS JOB#: 1007-25 Department of Veterans Affairs
FIELD NUMBER	LOCATION (bldg, rm#, area)	COLOR	MATERIAL or SUBSTRATE (ft w/ size, mastic, etc.)	NOTES: Like condition, damage, quantity, inside what, beneath what? direction in building (N, S, E, W) etc.)		
SFVA-F-01	Changing Rm - floor	gray	fiber glass / epoxy			
S-02	" - under sink	gray	sink coating			
W-03	" - cove base	light	sealant			
P-04	Auto Clave - Pipe	yellow	pipe insulation			
D-05	" - Air Duct	"	duct insulation			
P-06	Bottle Filling Station - pipe	"	pipe insulation			
P-07	Dirty Rm-4 - pipe	"	"			
O-08	Bottle Filling Station - ceiling	white	fiberglass / paper backing			
P-09	Steam line - 12" pipe	yellow	"			
P-10	" - 6" pipe	yellow	"			

RELEASED BY J. Can	DATE 7.28.10	TIME	RECEIVED BY D. K. ...	DATE 07/28/10	TIME 16:00
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[illegible]

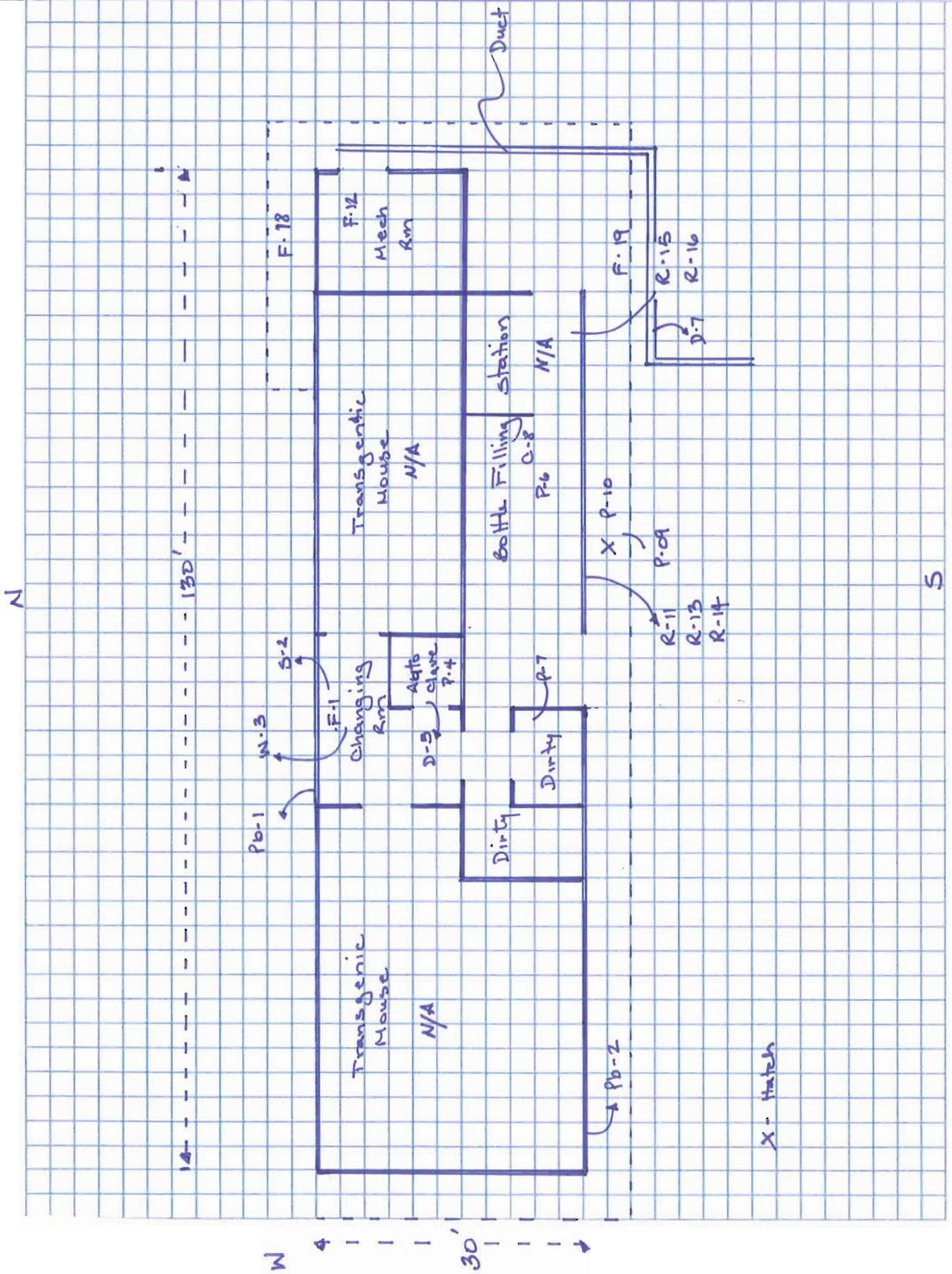
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
<i>[Signature]</i>	7-28-10		<i>[Signature]</i>	07/28/10	16:50

KELLCO Job # 1007-25
Client: HDR Architecture

Jobsite: Dept. v A Bldg 17

11

K E L L C O



















6778-P-01

SFYA-S-02

SFVA-W-03

SFVA-7-04





SFVA-D-05

SFVA-P-06



SFPA-P-07

SFVA-C-08





SFVA-P-09




3FVA-P-10





SFVA-R-11



SFVA-F-12







A gloved hand is holding a small white label with a green tab. The label is attached to a light-colored, textured surface, possibly a piece of wood or a wall. The background is a rough, grey concrete floor.

SFVA-TD 01





















SFVA-Pb-02

A roll of grey duct tape is positioned in the upper left. Below it, a piece of grey plastic material is shown, featuring a white rectangular label with the handwritten text "SFVA-R-13". The plastic material has a small, irregular hole and some yellowish residue. The background is a dark, textured surface.

SFVA-R-13

SFVA-R-15

SFVA-R-16

17
SFRA-D-~~16~~

SFVA-F79

SFVA-F-18









