

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

510-786-9751

Bulk Asbestos Analysis

Report

PLM

Person to contact: Bill Smith
 Contact phone: (803) 555-0501
 FAX phone: (803) 555-0505
 Sampled by: Jack Jones
 Sampled on: 00/00/00
 Analyzed on: April 20, 2006 at: 11:25
 Corresponding invoice number: 152078
 Purchase Order Number: A-100-2

Jack Jones
 1234 Happy Valley Road
 M/S 12
 Sunshine C A 90501

Analyst: JAR *(signature)*
JAR (signature)

Laboratory manager: *(signature)*
(signature)

Lab Sample Number	Client Sample Number and Description	Asbestos detected?	Fibers present	Remarks
L152078-1	1	Yes	5% Chrysotile* < 1% Nylon	Red homogeneous fibrous gasket. Balance of sample is carbonate, perlite and unspecified non-fibrous material
L152078-2		N.D	< 1% Hair	Green plastic counter material. Balance of sample is polymer and 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

PLM

Jack Jones
 1234 Happy Valley Road
 M/S 12
 Sunshine C A 90501

Laboratory manager: _____
 (signature)

Lab Sample Number	Client Sample Number and Description	Asbestos detected?	Fibers present	Remarks
Blank sample		N.D.	No fibers	
		PC*		
L152078-2		N.D.	1% Hair	

End of report.

* 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

**Airborne Fiber Analysis
 NIOSH 7400 A
 Report**

510-786-9751

Jack Jones
 1234 Happy Valley Road
 M/S 12
 Sunshine C A 90501

Person to contact: Bill Smith
 Contact phone: (803) 555-0501
 FAX phone: (803) 555-0505
 Report prepared on: December 14, 1993 at: 10:41
 Corresponding invoice number: 11660

Purchase Order Number: A-100-2

Job Number: A100-93-01

Analyst: JAR
JAR (signature)

Laboratory manager: Wubey
(signature)

Job Description: North Side Towers
 124 First Street, San José, CA 95123

Sample Numbers	Client Sample Description	LPM Avg	Time (Min)	Fibers per cc	95% UCL	LOQ f/cc
Lab: C11660-1 Client: P-1 Date sampled: 12/13/93	Removing pipe lagging on 3rd floor <input checked="" type="checkbox"/> Received OK <input checked="" type="checkbox"/> Accepted	2.0	115	< 0.008		0.021
		Chris O. Tile			153-33-8871	
	Fields Counted: 150			Fibers Counted: 0		
Lab: C11660-2 Client: P-2 Date sampled: 12/13/93	Removing pipe lagging on 3rd floor <input checked="" type="checkbox"/> Received OK <input checked="" type="checkbox"/> Accepted	2.0	115	< 0.012	< 0.022	0.021
		Chris O. Tile			153-33-8871	
	Fields Counted: 100			Fibers Counted: 1		
Lab: C11660-3 Client: P-3 Date sampled: 12/13/93	Clean up <input checked="" type="checkbox"/> Received OK <input checked="" type="checkbox"/> Accepted	2.0	90	0.147	0.188	0.027
		Chris O. Tile			153-33-8871	
	Fields Counted: 100			Fibers Counted: 54		
Lab: C11660-4 Client: P-4 Date sampled: 12/13/93	Removing pipe lagging on 3rd floor <input checked="" type="checkbox"/> Received OK <input checked="" type="checkbox"/> Accepted	2.1	150	0.112	0.138	0.016
		Amos Ite			122-75-9998	
	Fields Counted: 100			Fibers Counted: 72		
Lab: C11660-5 Client: P-5 Date sampled: 12/13/93	Clean-up <input checked="" type="checkbox"/> Received OK <input checked="" type="checkbox"/> Accepted	2.0	120	Overloaded with dirt.		
		Amos Ite			122-75-9998	
	Fields Counted: 100			Fibers Counted: 18		

End of report.

This report may not be reproduced except in full and with the permission of MACS Lab, Inc. This report relates only to the items tested. Samples will be destroyed after one month. MACS Lab, Inc. is a PAT participating laboratory and is proficient. Laboratory number 11172. UCL (Upper Confidence Limit) is calculated using coefficient of variation from Busch, Leidel, Hornung, & Smith (1977). Samples analyzed by NIOSH 582 trained personnel. LOQ is reported for client convenience. Method 7400 requires the report of results in f/ml. It is customary in the Asbestos Industry to report the results in f/cc. One cc (cubic centimeter) is essentially equal to 1 ml (milliliter). Per Method 7400 the LOD is 5.5 fibers/100 fields. This report shows the actual number of fibers counted, however, the calculation of the results uses the LOD (5.5 fibers in 100 fields). Therefore, if you re-calculate the results keep this in mind.

MACS Lab, Inc.

431 Crown Point Cir Ste 120
Grass Valley, CA 95945-9531

TEM Airborne Asbestos Analysis

Report

Yamate Level II

530-274-1470 or 1-800-MACS LAB

Jack Jones
1234 Happy Valley Road
M/S 12
Sunshine CA 90501

Person to contact: Bill Smith

Contact phone: (803) 555-0501

emailed

Report prepared on: August 9, 2012

Corresponding invoice number: 227797

P.O. Num: A-100-2

Job Number: 20-928

Analyst: Charlie Fondon
CRL (signature)

Laboratory manager: Charlie Fondon
(signature)

Job Description: Air quality inspection

Summary Report

Lab #	Cust. Sample #	Volume in liters	# Asb. Struct.	Asbestos Concentration Struct/mm ²	Structures/cc	Analytical Sensitivity:
Y227797-1	A-100	1300	5	87.9	0.026	17.6 Structures per mm ² or 0.005 structures per cc

Chrysotile, Amosite

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. This is a summary report of samples submitted to this laboratory. Refer to the individual sample reports for complete information. N/A means the sample was not analyzed or no data is available. Yamate analysis is similar to AHERA protocol except all asbestos structures regardless of size are counted.

MACS Lab, Inc.431 Crown Point Cir Ste 120
Grass Valley, CA 95945-9531**TEM Airborne Asbestos Analysis****Report****Yamate Level II**

530-274-1470 or 1-800-MACS LAB

Jack Jones 1234 Happy Valley Road M/S 12 Sunshine CA 90501
--

Person to contact: Bill Smith

Contact phone: (803) 555-0501

emailed

Corresponding invoice number: 227797

Analyst: Charlie Fondon
CRL (signature)

P.O. Num: A-100-2

Laboratory manager: Anna L. [Signature]
(signature)**Job:**

Job Number: 20-928

Report prepared on: August 9, 2012 at 08:34

Job Description: Air quality inspection

Sample:MACS Lab Sample Number: **Y227797-1**Client Sample Number: **A-100**

Client Sample Description: Final air clearance in kitchen

Received OK: Yes Accepted for analysis: Yes Date sampled: 02/14/2012

Analysis Results:

Asbestiforms: <u>Type of Asbestos:</u>	<u>Structure count</u>	<u>Calculated Structure Concentration</u>		
		per mm ² filter	all sizes per cc	≥ 5 μm per cc
Chrysotile	4	70.3	0.021	0.016
Amosite	1	17.6	0.005	0.005
Total asbestos	5	87.9	0.026	0.021

Non-Asbestiforms: <u>Material</u>	<u>Structure count</u>
Gypsum	8

Remarks: This is a sample report.

TEM magnification: 18,900 X
Area analyzed: 0.057 mm ²
Analytical Sensitivity: 17.6 structures per mm ² or 0.005 structures per cc

Air Pump: Elapsed time: 130 minutes (from client data sheet)
Average flow rate: 10.0 liters/minute (from client data sheet)
Sample volume: 1300 liters

Filter: Mixed Cellulose Esters, diameter 25 mm, area 385 mm ²

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

510-786-9751

**Asbestos in Water by TEM
EPA 600/R-94/134
aka Method 100.2
Report**

Jack Jones
1234 Happy Valley Road
M/S 12
Sunshine
C A 90501

Person to contact: Bill Smith

Contact phone: (803) 555-0501

FAX phone: (803) 555-0505

Corresponding invoice number: 10689

Purchase Order Number: \$450.00

Job:

Job Number: 93076-94

Note: This sample may or may not be a drinking water sample. Please see the chain of custody from the party that sampled the water. The detection limit may not meet the requirements of drinking water if the sample contains large amounts of particulates. Therefore if the Detection limit is >0.2 mf/l this analysis is NOT valid for drinking water.

Job Description: Westlake Semiconductor Plant IHQ Corporation, 210 Lake Ave, San José, CA 92387

Sample:

MACS Lab Sample Number: **H10689-1**

Client Sample Number: **T-101**

Client Sample Description: Water in phase 1 tank

Filter type and size: MCE 0.2µm pore size Date and time sampled (from client): September 4, 1993 at 09:31

Filter Diameter = 25 mm Filter lot no.: 12345

Filter Manufacturer: Millipore

Received OK: Yes Accepted for analysis: Yes

Sampled by:

Sample received: September 4, 1993 at 19:14

Sample ozonated: September 6, 1993 at 13:10

Sample filtered on: September 6, 1993 at 15:27

Analyzed on: September 9, 1993 at 19:21

Analysis Results:

Type of Asbestos:	million fibers/liter
Chrysotile	0.5844
Amosite	0.7792
Tremolite	0.9740
Anthophyllite	0.1948
Total asbestos	2.5325

Detection limit, mf/l 0.200

TEM magnification:	10,000 X
Grid area analyzed:	0.077 mm ²
Grids counted:	7
Sonication time:	10 min
Filter area:	225 mm ²
Total fibers counted:	13
Volume filtered:	15.0 ml

Approximate volume of sample received: 500 milliliters
Fiber Concentration in Water in Million Fibers per Liter = $\frac{\text{fibers/mm}^2 \times \text{filter area (mm}^2\text{)}}{\text{sample volume filtered in L}} \times 0.000001$

fibers/mm² = total fibers / grid area analyzed

Blank Vol. filtered: 100.0 ml
Blank concentration: < 0.029 mf/l

95% confidence interval: 1.35 to 4.33 mf/l

Microscopist: 

(signature)

Laboratory manager: 

This report may not be reproduced except in full (nothing omitted or overwritten) and with the permission of MACS Lab, Inc. This report relates only to the item(s) tested. No portion of samples may be saved. Samples are filtered through a MCE filter. Asbestos fibers are identified by Selected Area Electron Diffraction and/or Energy Dispersive X-ray analysis. 10µm or larger asbestos fibers are counted unless otherwise stated in the remarks section of this report. MACS Lab, Inc is an accredited laboratory for asbestos in drinking water by the California Department of Health ELAP (laboratory #2027). Call 1-510-540-3445 for verification. Note mf/l = Million fibers per liter of water. N/A = not available. Ozonation is not required on samples filtered within 48 hours of receipt by the lab therefore date and time will be marked N/A.

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

**Asbestos in Water by TEM
EPA 600/R-94/134
aka Method 100.2
Report**

510-786-9751

Job:

Note: This sample may or may not be a drinking water sample. Please see the chain of custody from the party that sampled the water. The detection limit may not meet the requirements of drinking water if the sample contains large amounts of particulates. Therefore if the Detection limit is >0.2 mf/l this analysis is NOT valid for drinking water.

Job Number: 93076-94

Job Description: Westlake Semiconductor Plant IHQ Corporation, 210 Lake Ave, San José, CA 92387
Sample:

MACS Lab Sample Number: **H10689-2**

Client Sample Number: **T-102**

Client Sample Description: Water in phase 2 tank

Filter type and size: MCE 0.2µm pore size Date and time sampled (from client): September 4, 1993 at 09:35

Filter Diameter = 25 mm Filter lot no.: 12345

Sampled by:

Filter Manufacturer: Millipore

Sample received: September 4, 1993 at 19:14

Received OK: Yes Accepted for analysis: Yes

Sample ozonated: September 6, 1993 at 13:45

Sample filtered on: September 6, 1993 at 15:27

Analyzed on: September 9, 1993 at 19:21

Analysis Results:

Type of Asbestos: million fibers/liter

Total asbestos < 0.1948

Detection limit, mf/l 0.200

Remarks: This sample shows biological activity however, Mrs. Powell ordered that it be analyzed.

TEM magnification:	10,000 X
Grid area analyzed:	0.077 mm ²
Grids counted:	7
Sonication time:	10 min
Filter area:	225 mm ²
Total fibers counted:	0
Volume filtered:	15.0 ml

Approximate volume of sample received: 500 milliliters

$$\text{Fiber Concentration in Water in Million Fibers per Liter} = \frac{\text{fibers/mm}^2 \times \text{filter area (mm}^2)}{\text{sample volume filtered in L}} \times 0.000001$$


$$\text{fibers/mm}^2 = \text{total fibers / grid area analyzed}$$

Blank Vol. filtered:	100.0 ml
Blank concentration:	< 0.029 mf/l

95% confidence interval: 0.0 to 0.719 mf/l

Microscopist: 

(signature)

Laboratory manager: 

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

**Asbestos in Water by TEM
EPA 600/R-94/134
aka Method 100.2
Report**

510-786-9751

Job:

Note: This sample may or may not be a drinking water sample. Please see the chain of custody from the party that sampled the water. The detection limit may not meet the requirements of drinking water if the sample contains large amounts of particulates. Therefore if the Detection limit is >0.2 mf/l this analysis is NOT valid for drinking water.

Job Number: 93076-94

Job Description: Westlake Semiconductor Plant IHQ Corporation, 210 Lake Ave, San José, CA 92387
Sample:

MACS Lab Sample Number: **H10689-3**

Client Sample Number: **T-103**

Client Sample Description: Water in discharge tank

Filter type and size: MCE 0.2µm pore size Date and time sampled (from client): September 4, 1996 at 10:02

Filter Diameter = 25 mm Filter lot no.: 12345

Sampled by:

Filter Manufacturer: Millipore

Sample received: September 4, 1993 at 19:14

Received OK: Yes Accepted for analysis: Yes

Sample ozonated: September 6, 1993 at 13:59

Sample filtered on: September 3, 1993 at 16:10

Analyzed on: September 9, 1993 at 19:21

Analysis Results:

Type of Asbestos: million fibers/liter

Chrysotile **11.1039**

Total asbestos 11.1039

Detection limit, mf/l 0.200

TEM magnification:	10,000 X
Grid area analyzed:	0.077 mm ²
Grids counted:	7
Sonication time:	10 min
Filter area:	225 mm ²
Total fibers counted:	57
Volume filtered:	15.0 ml

Approximate volume of sample received: 500 milliliters


$$\text{Fiber Concentration in Water in Million Fibers per Liter} = \frac{\text{fibers/mm}^2 \times \text{filter area (mm}^2\text{)}}{\text{sample volume filtered in L}} \times 0.000001$$

$$\text{fibers/mm}^2 = \text{total fibers} / \text{grid area analyzed}$$

Blank Vol. filtered:	100.0 ml
Blank concentration:	< 0.029 mf/l

95% confidence interval: 8.41 to 14.4 mf/l

End of report.

Microscopist: 

(signature)

Laboratory manager: 

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MACS Lab, Inc.

3137 Diablo Ave
Hayward, CA 94545-2701

510-786-9751

Bulk Asbestos Analysis

Report

Bulk TEM

Person to contact: Bill Smith
Contact phone: (803) 555-0501
FAX phone: (803) 555-0505
Sampled by: Bill Smith
Sampled on: July 9, 2008
Analyzed on: July 11, 2008 at: 09:44
Corresponding invoice number: 179063
Purchase Order Number: A-100-2
Job Number: 12345

Jack Jones

1234 Happy Valley Road

M/S 12

Sunshine

CA 90501

Analyst: W. Dusey
TD (signature)

Laboratory manager: James H. [Signature]
(signature)

Job Description: 12345 Main St. Watsonville, Ca 95076

Lab Sample Number	Client Sample Number and Description	Asbestos detected?	Fibers present	Remarks
B179063-1 KellcoMacs - 1	1	Yes	2.00% Chrysotile* 0.50% Tremolite*	Multilayer roofing multilayer roofing
			Nonfriable	
B179063-2 KellcoMacs - 2	2		0.50% Tremolite*	Tile
			Nonfriable	

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

This report may not be reproduced except in full and with the permission of MACS Lab, Inc. This report relates only to the items tested. Samples will be destroyed after one month. Samples are analyzed using a Transmission Electron Microscopy (TEM). Samples are dissolved in tetrahydrofuran or ashed in a furnace. The insolubles or ash are separated and dried. The dry insolubles/ash are transferred to a TEM grid and examined. Wipe & microvac samples are prepared in a similar manner to Yamate. Quantitative samples are weighed, an aliquote slurried and filtered. Fiber volume from TEM examination is converted to weight and the percent calculated. In some cases volume area estimates are made and converted to weight percent.

Jack Jones
1234 Happy Valley Road
M/S 12
Sunshine
C A 90501

Person to contact: Bill Smith
Contact phone: (803) 555-0501
FAX phone: (803) 555-0505
Samples received on: April 24, 1993
Samples analyzed on: January 24, 1994 at: 10:16
Report printed on: January 24, 1994 at: 10:16
Corresponding invoice number: 12146

Jim Richards

Analyst: _____
JAR (signature)

Tara Dubey

Laboratory manager: _____
(signature)

Purchase Order Number: A-100-2
Job Number: 93-098-1

Job Description: Happydale Sanitarium, Happydale, New York

Lab Sample Number	Client Sample Number and Description	Sampled on	Calib #	Rcvd OK	Ac-cptd	LPM Avg	Time (Min)	Reporting Limit	μg on filter	Lead $\mu\text{g}/\text{m}^3$
Q12146-1	100-1 Jack Smith, Personal		0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2.5	362	$0\mu\text{g}/\text{m}^3$	< 0.06	< 0.07
Q12146-2	100-2 Inside Work Area		0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2.4	120	$0\mu\text{g}/\text{m}^3$	4.00	13.89
Q12146-3	100-2 Outside Work Area		0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2.5	120	$0\mu\text{g}/\text{m}^3$	< 0.04	< 0.14

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. Samples are completely consumed in the analysis. Results are expressed in micrograms per cubic meter of air. Client supplies air volume from thier chain of custody. Samples are digested in Nitric Acid and Hydrogen Peroxide. Analysis is performed on an Atomic Absorption Spectrometer. Results are not blank corrected.



Calibration # AA-0

Element Lead	Matrix:	Method Detection Limit 0.25 µg/ml		
Date of Analysis February 22, 1994	Analyst JAR			
	Measured Value	Target Value	Acceptance Criterion	
Standard value	1.0 µg/ml	1.00000 units	N/A	
Standard value	1.0 µg/ml	1.00000 units	N/A	
Standard value	1.0 µg/ml	1.00000 units	N/A	
Standard value	1.0 µg/ml	1.00000 units	N/A	
Standard value	1.0 µg/ml	1.00000 units	N/A	
	Slope	µg/ml/unit	N/A	
	Intercept	µg/ml	N/A	
Correlation coefficient		1	≥ 0.99500	Not Acceptable
0.25 µg/ml Reference	µg/ml	0.25	≥0.06	Acceptable
Glassware rinse water	µg/ml	0		
1st Matrix Blank	µg/ml	0	≤ 0.25	Acceptable
Method Blank Beginning	µg	0	≤ 20.0	Acceptable
CCV Beginning	µg/ml	0.0000	± 10.0%	Acceptable
ICV Beginning	µg/ml	0.0000	± 10.0%	Acceptable
LCS Before sample 1	µg/ml	0.0000	± 10.0%	Acceptable
CCV Before sample 11	µg/ml	0.0000	± 10.0%	Acceptable
CCB Before sample 11	µg/ml	0	≤ 0.25	Acceptable
Method Blank Before sample 11	µg	0	≤ 20.0	Acceptable
CCV Before sample 21	µg/ml	0.0000	± 10.0%	Acceptable
CCB Before sample 21	µg/ml	0	≤ 0.25	Acceptable
2nd Matrix Blank	N/A µg/ml	0	≤ 0.25	
Method Blank Before sample 21	µg	0	≤ 20.0	Acceptable
CCV Before sample 31	µg/ml	0.0000	± 10.0%	Acceptable
CCB Before sample 31	µg/ml	0	≤ 0.25	Acceptable
Method Blank Before sample 31	µg	0	≤ 20.0	Acceptable
CCV After	µg/ml	0.0000	± 10.0%	Acceptable
CCB After	µg/ml	0	≤ 0.25	Acceptable
Method Blank After	µg	0	≤ 20.0	Acceptable
LCS After	µg/ml	0.0000	± 10.0%	Acceptable
RLVS	N/A µg/ml	0.0000	± 99.0%	
(LCS) Matrix Spike for 1-20	µg/ml		± 25.0%	Acceptable
(LCS) Matrix Spike Duplicate for 1-20	µg/ml		± 25.0%	Acceptable
(LCS) Matrix Spike for 21-40	N/A µg/ml		± 25.0%	
(LCS) Matrix Spike Duplicate for 21-40	N/A µg/ml		± 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

Air samples are spiked MCE filters using a liquid or solid of known analyte concentration. Dust (or Wipe) samples are spiked with a solid powdered paint (such as SRM-1579) of known analyte concentration added to a towelette. The spiked samples are taken through the entire preparation process. There is a duplicate spike sample prepared exactly as the original spike. The Method Blank contains all the reagents and the matrix. The blank is carried through all steps of the analysis starting with the digestion step. This 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.

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

510-786-9751


Client:
 Jack Jones

Submission ID Number: **12146**

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

Lead laboratory manager
 or designee:


 (signature)

Samples received on: April 24, 1993

Samples analyzed on: January 24, 1994 at: 10:16

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	2.5000	15	0.00000	362
2	2.4000	10	24.00000	120
3	2.5000	10	0.00000	120

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.

510-786-9751

Jack Jones
 1234 Happy Valley Road
 M/S 12
 Sunshine C A 90501

Person to contact: Bill Smith
 Contact phone: (803) 555-0501
 FAX phone: (803) 555-0505
 Samples received on: November 18, 1998
 Samples analyzed on: September 9, 1999 at: 10:43
 Report printed on: September 9, 1999 at: 10:43
 Corresponding invoice number: 70777

Jim Richards

Analyst: _____
JAR (signature)

Tara Dubey

Laboratory manager: _____
(signature)

Purchase Order Number: A-100-2

Job Description: This is an example of a paint report for a mg/sq cm

Lab Sample Number	Client Sample Number and Description	Calib #	Rcvd OK	Ac-cptd	Report'g Limit ppm	%	Lead ppm	mg/cm ²
P70777-1	100 Paint on living room wall	1435	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	540	5.64	56,400	N/A
P70777-2	110 Example of a XRF confirm paint	1435	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		INF.0		0.101

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 #11172). 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-1435

Element Lead Matrix: Paint Method Detection Limit 0.08 µg/ml
Date of Analysis August 29, 1995 Analyst MPD

	Measured Value	Target Value	Acceptance Criterion
Standard value 0.0 µg/ml	0.00000 units	N/A	
Standard value 1.0 µg/ml	0.01466 units	N/A	
Standard value 2.0 µg/ml	0.02950 units	N/A	
Standard value 5.0 µg/ml	0.07538 units	N/A	
Standard value 10.0 µg/ml	0.14558 units	N/A	
Slope	68.4686 µg/ml/unit	N/A	
Intercept	-0.030481 µg/ml	N/A	
Correlation coefficient	0.999825	1	≥ 0.99500 Acceptable
0.25 µg/ml Reference	0.264 µg/ml	0.25	≥0.06 Acceptable
Glassware rinse water	< 0.081 µg/ml	0	
1st Matrix Blank	< 0.081 µg/ml	0	≤ 0.25 Acceptable
Method Blank Beginning	-1.866 µg	0	≤ 20.0 Acceptable
CCV Beginning	5.043 µg/ml	5.0000	± 10.0% Acceptable
ICV Beginning	5.132 µg/ml	5.1000	± 10.0% Acceptable
LCS Before sample 1	6.111 µg/ml	6.3333	± 10.0% Acceptable
CCV Before sample 11	5.043 µg/ml	5.0000	± 10.0% Acceptable
CCB Before sample 11	< 0.081 µg/ml	0	≤ 0.25 Acceptable
Method Blank Before sample 11	-0.497 µg	0	≤ 20.0 Acceptable
CCV Before sample 21	5.064 µg/ml	5.0000	± 10.0% Acceptable
CCB Before sample 21	< 0.081 µg/ml	0	≤ 0.25 Acceptable
2nd Matrix Blank	N/A µg/ml	0	≤ 0.25
Method Blank Before sample 21	-1.866 µg	0	≤ 20.0 Acceptable
CCV Before sample 31	5.016 µg/ml	5.0000	± 10.0% Acceptable
CCB Before sample 31	< 0.081 µg/ml	0	≤ 0.25 Acceptable
Method Blank Before sample 31	0.530 µg	0	≤ 20.0 Acceptable
CCV After	5.043 µg/ml	5.0000	± 10.0% Acceptable
CCB After	< 0.081 µg/ml	0	≤ 0.25 Acceptable
Method Blank After	-2.551 µg	0	≤ 20.0 Acceptable
LCS After	6.228 µg/ml	6.3333	± 10.0% Acceptable
RLVS	N/A µg/ml		± 99.0%
Spike of sample 28755 - 1	2196.3 µg	2000.0	± 25.0% Acceptable
Spike of sample 28755 - 3	2203.1 µg	2000.0	± 25.0% Acceptable
Spiked Duplicate 28755 - 1	2265.6 µg	2000.0	± 25.0% Acceptable
Spiked Duplicate 28755 - 3	1965.7 µg	2000.0	± 25.0% Acceptable
Duplicate of sample 28755 1	1948 ppm	1593	± 25.0% Acceptable
Duplicate of sample 28755 - 3	43104 ppm	49076	± 25.0% Acceptable

Note:
MDL= Minimum Detection Limit of the method (absolute) 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.
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

MACS Lab, Inc.

3137 Diablo Ave
Hayward, CA 94545-2701

510-786-9751

Client:

Jack Jones

Submission ID Number: **70777**

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:

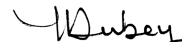
Area = Wipe area supplied by client in sq ft

ft² (on report) means square foot

Samples received on: November 18, 1998

Samples analyzed on: September 9, 1999 at: 10:43

Lead laboratory manager
or designee:



(signature)

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	0.0753	500	0.12450	0
2	0.0000	500	0.07450	25

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).

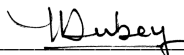
The slope and intercept can be calculated using the absorbance and concentration (see the Quality Control Report) of the standards used in the analysis. This can be done by using linear regression analysis.

510-786-9751

Jack Jones
1234 Happy Valley Road
M/S 12
Sunshine C A 90501

Person to contact: Bill Smith
Contact phone: (803) 555-0501
FAX phone: (803) 555-0505
Samples received on: February 2, 1999
Report prepared on: February 2, 1999 at: 11:00

Laboratory manager: _____


(signature)

Corresponding invoice number: 72745

Purchase Order Number: A-100-2

Job Number: 13MWZ

Job Description: Great American Water Well Company Plant #1

Lab Sample Number: D72745-1

Client Sample Number: **WW-1**

Client Sample Description: Water from well No. 21

Received OK
 Accepted for analysis

Sampled on: 02/01/99 at: 10:45

Volume received by lab: 1000ml

Preserved on: 02/01/99 at: 11:10 by client

Container: Polypropylene Turbidity: 0.14 NTU

Temperature when received: 4 °C

Date/time Analyzed	Calibration #	MSA	PLQ*	Element	Concentration*
02/01/99 at: 18:25	GF- 190	No	4.0 µg/l	Cu	29.0 µg/l

* 1 µg/l is essentially equal to 1 part per billion (PPB)

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 Quality Control data refer to the Calibration Number QA Report for each sample and each analyte. MACS Lab is accredited by the State of California Department of Health for the analysis of lead in drinking water and is Lab #2027. Analysis is performed by EPA approved method 3113B "Standard Methods for the Examination of Water and Wastewater 1992 18th Edition", published by the American Public Health Association. MSA field indicates whether the sample was analyzed by the Method of Standard Additions. MDL = Method Detection Limit. The Federal standard for lead in drinking water is no greater than 15 µg/l.

Calibration # GF-190

Element Lead
Analyst JAR

Matrix: Drinking Water

Practical Limit of Quantification 4.00 µg/l

Method Detection Limit 1.20 µg/l

	Measured Value	Target Value	Acceptance Criterion
Correlation coefficient	0.995048	1.000000	≥0.99500 Acceptable
Glassware rinse water	< 4.0 µg/l		
LCS at beginning	21.9 µg/l	20.5	± 30.0% Acceptable
LCS at end	21.6 µg/l	20.5	± 30.0% Acceptable
CB at beginning	< 4.0 µg/l	0.0	≤ 4.00 Acceptable
IPC at beginning	10.7 µg/l	10.0	± 20.0% Acceptable
LFM of sample 72745 - 1	A 17.4 µg/l	16.9	± 50.0% Acceptable
	B 16.5 µg/l	16.9	± 50.0% Acceptable
CB at beginning	< 4.0 µg/l	0.0	≤ 4.00 Acceptable
IPC at beginning	10.4 µg/l	10.0	± 20.0% Acceptable
LRB at beginning	< 4.0 µg/l	0.0	≤ 8.80 Acceptable
LFB at beginning	5.0 µg/l	5.0	± 25.0% Acceptable

End of QC report.

Note:
 LCS= Laboratory Control Sample
 NIST SRM 1643d (Standard Reference Material)
 CB = Calibration Blank
 IPC = Instrument Performance Check
 LFB= Laboratory Fortified Blank
 LRB= Laboratory Reagent Blank
 LFM= Laboratory Fortified Matrix
 N/A = Not Applicable
 NIST = National Institute of Standards and Technology
 NTU= Nephelometric Turbidity Units
 Page 2 of 2

This analytical method is approved by the US EPA. The method title is "Electrothermal Atomic Absorption Spectrometric Method"; Method 3113B as published in the 18th edition of "Standard Methods for the Examination of Water and Wastewater," 1992 prepared and published by the American Public Health Association. Laboratory Fortified Matrix samples are prepared by adding a known mass of the analyte (spike) to a specified amount of sample for which an independent estimate of analyte concentration was made. These samples are used to determine the effect of the matrix on a method's recovery efficiency. The Method Blank is a mixture of all reagents used for the digestion of the sample but without the sample matrix. This blank evaluates the process for 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-1643d sample. Precision is the degree to which a set of observations or measurements of the same property conform to themselves. This Quality Control Report is a part of the Analysis Report and should be included with the Analysis Report.

510-786-9751

Jack Jones
 1234 Happy Valley Road
 M/S 12
 Sunshine C A 90501

Person to contact: Bill Smith
 Contact phone: (803) 555-0501
 FAX phone: (803) 555-0505
 Samples received on: September 23, 1994
 Samples analyzed on: September 23, 1994 at: 16:59
 Report printed on: September 23, 1994 at: 16:59
 Corresponding invoice number: 18201

Jim Richards

Analyst: _____
 JAR (signature)

Tara Dubey

Laboratory manager: _____
 (signature)

Purchase Order Number: A-100-2

Job Description: This is an example wipe report.

Lab Sample Number	Client Sample Number and Description	Calib #	Rcvd OK	Ac-cptd	Reporting Limit	Sample area ft ²	Lead $\mu\text{g}/\text{ft}^2$
W18201-1	100 Floor in the lobby	720	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	13 $\mu\text{g}/\text{ft}^2$	1.00	< 12.5
W18201-2	200 Window ledge in the lobby	720	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	13 $\mu\text{g}/\text{ft}^2$	1.00	339

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. Wipe material not meeting ASTM E1792 specifications are not recognized by the AIHA Lab Accreditation Program. MACS Lab is accredited by the American Industrial Hygiene Association (AIHA) for the analysis of lead in dust (laboratory ID#11172). Samples are consumed in the analysis. Analysis is performed on a flame AA Spectrometer. For Quality Control data refer to Calibration Number QA Report. NIOSH 7082 is the analytical method used. Samples are digested in Nitric Acid and Hydrogen peroxide. Wipe area is from client chain of custody and collection technique is that of client. Results are not blank corrected.



Calibration # AA-720

Element Lead Matrix: Dust Method Detection Limit 0.25 µg/ml
 Date of Analysis September 23, 1994 Analyst CKB

	Measured Value	Target Value	Acceptance Criterion
Standard value 0.0 µg/ml	0.00000 units	N/A	
Standard value 1.0 µg/ml	7.00000 units	N/A	
Standard value 2.0 µg/ml	<<<<<< units	N/A	
Standard value 5.0 µg/ml	<<<<<< units	N/A	
Standard value 10.0 µg/ml	<<<<<< units	N/A	
Slope	0.1302 µg/ml/unit	N/A	
Intercept	0.005333 µg/ml	N/A	
Correlation coefficient	0.997592	1	≥ 0.99500 Acceptable
0.25 µg/ml Reference	0.266 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	0.267 µg	0	≤ 20.0 Acceptable
CCV Beginning	5.475 µg/ml	5.0000	± 10.0% Acceptable
ICV Beginning	5.475 µg/ml	5.0000	± 10.0% Acceptable
LCS Before sample 1	1.829 µg/ml	1.7147	± 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	≤ 20.0
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	≤ 20.0
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	≤ 20.0
CCV After	5.475 µg/ml	5.0000	± 10.0% Acceptable
CCB After	< 0.250 µg/ml	0	≤ 0.25 Acceptable
Method Blank After	0.267 µg	0	≤ 20.0 Acceptable
LCS After	1.829 µg/ml	1.7147	± 10.0% Acceptable
RLVS	N/A µg/ml		± 99.0%
Spike of sample	0 - 0	2219.4 µg	2000.0 ± 25.0% Acceptable
Spike of sample	0 - 0	N/A µg	0.0 ± 25.0%
Spiked Duplicate	0 - 0	N/A µg	0.0 ± 25.0%
Spiked Duplicate	0 - 0	N/A µg	0.0 ± 25.0%
Duplicate of sample	0 - 0	N/A ppm	± 25.0%
Duplicate of sample	0 - 0	N/A ppm	± 25.0%

Note:
 MDL= Minimum Detection Limit of the method (absolute) 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.

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

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

510-786-9751

Client:
 Jack Jones

Submission ID Number: **18201**


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

Lead laboratory manager
 or designee:


 (signature)

Samples received on: September 23, 1994

— Samples analyzed on: September 23, 1994 at: 16:59

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	1.0000	50	0.00000	0
2	1.0000	50	52.00000	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.

MACS Lab, Inc.

3137 Diablo Ave
Hayward, CA 94545-2701
510-786-9751

MACS Lab, Inc.
DO NOT MAIL

Santa Clara

C A 95054

Non-Viable Air Mold Analysis

Sampled on: July 23, 2007
Submitted on: July 23, 2007
Analyzed on: August 2, 2007
Reported on: September 14, 2007
SOP: NVA.I
Sample Type: Zefon

Report number: 166301

Person to contact: Mr. Jim Richards

Phone: (408) 727-9727

FAX: (408) 727-7065

Job Description: Quality Air Monitor

Analysis of Non-Viable Air Samples for Identification of Fungal Mycota

MACS Lab is accredited by AIHA (#11172) as documented by the scope of accreditation certificate. The results contained in this report are applicable only to the samples submitted and/or analyzed via the chain of custody. This report is generated by MACS Lab, Inc. and contains confidential and/or privileged client information. If you are not the client listed in this report, or the client this report is issued to, you are hereby notified that any disclosure, copying, electronic dissemination, electronic archiving, or distribution of this information or the taking of any action in reliance on the contents of this report is strictly prohibited.

MACS Lab, Inc. cannot determine putative resulting hazards associated with materials submitted for analysis, and reserves the right to dispose of all samples after a period of 10 days as specified by state and federal guidelines. The numerical results reported are estimates of fungal counts and may not reflect actual conidial/spore/CFU field sampling due to uncertainty in sampling methodologies and laboratory analyses. Blank correction has not been performed on samples contained within this report unless otherwise noted. MACS Lab, Inc. cannot assume responsibility for the effect or impact of field sampling methodologies and techniques as they can affect sample analyses. The client listed in this report is singularly responsible for all use, interpretation, and reliance of results contained within this report. If you have received this report in error, please return the report via US Postal Service and reply to the sender at 510-786-9751 advising of the error and delete the report and any accompanying documents from your computer or record system(s) immediately. Thank you.

MACS Lab, Inc., 3137 Diablo Ave, Hayward, CA 94545-2701, 510-786-9751, FAX: 510-786-9625



A handwritten signature in black ink that reads "Tara Dubey".

Tara Dubey, Ph.D, Laboratory Director

Job Description: **Quality Air Monitor**

Analysis of Non-Viable Air Samples for Identification of Fungal Mycota

Sample ID:	1		2		3		4	
Locale:	Outdoor Front		Sample Recycling Area		Mold Lab		Tara's Lab	
Lab Sample No.:	NA166301-1		NA166301-2		NA166301-3		NA166301-4	
Rate (LPM), Duration	15.0	5	15.0	5	15.0	5	15.0	5
Volume (L):	75.0		75.0		75.0		75.0	
Status:	Accepted		Accepted		Accepted		Accepted	
LOD (Spores/m3):	48.98		48.98		48.98		48.98	
Debris rating	light		light		light		light	
Hyphal fragments	Present		Absent		Absent		Present	
Pollen	Present		Absent		Absent		Absent	
TAXON	Raw	Spores/m ³	Raw	Spores/m ³	Raw	Spores/m ³	Raw	Spores/m ³
Alternaria	ND		ND		ND		ND	
Ascospores	4	200	ND		ND		ND	
Aspergillus/Penicillium	10	490	ND		1	50	ND	
Basidiospores	14	690	1	50	ND		ND	
Bipolaris/Dreschlera	ND		ND		ND		ND	
Botrytis	ND		ND		ND		ND	
Chaetomium	ND		ND		ND		ND	
Cladosporium	33	1,600	1	50	ND		1	50
Curvularia	ND		ND		ND		ND	
Epicoccum	ND		ND		ND		ND	
Myxomycete	ND		ND		ND		ND	
Nigrospora	ND		ND		ND		ND	
Oidium	ND		ND		ND		ND	
Rust	ND		ND		ND		ND	
Scopulariopsis	ND		ND		ND		ND	
Smut	ND		ND		ND		1	50
Spegazzinia	ND		ND		ND		ND	
Stachybotrys	ND		ND		ND		ND	
Stemphylium	ND		ND		ND		ND	
Torula	ND		ND		ND		ND	
Trichocladium	ND		ND		ND		ND	
Trichothecium	ND		ND		ND		ND	
Ulocladium	ND		ND		ND		ND	
TOTAL	61	3,000	2	100	1	50	2	100
Comments:								

Job Description: **Quality Air Monitor**

Analysis of Non-Viable Air Samples for Identification of Fungal Mycota

SUMMARY
Spores/m³

Sample ID:	1	2	3	4				
Locale:	Outdoor Front	Sample Recycling Area	Mold Lab	Tara's Lab				
Lab Sample No.:	NA166301-1	NA166301-2	NA166301-3	NA166301-4				
Alternaria	ND	ND	ND	ND				
Ascospores	200	ND	ND	ND				
Aspergillus/Penicillium	490	ND	50	ND				
Basidiospores	690	50	ND	ND				
Bipolaris/Dreschlera	ND	ND	ND	ND				
Botrytis	ND	ND	ND	ND				
Chaetomium	ND	ND	ND	ND				
Cladosporium	1,600	50	ND	50				
Curvularia	ND	ND	ND	ND				
Epicoccum	ND	ND	ND	ND				
Myxomycete	ND	ND	ND	ND				
Nigrospora	ND	ND	ND	ND				
Oidium	ND	ND	ND	ND				
Rust	ND	ND	ND	ND				
Scopulariopsis	ND	ND	ND	ND				
Smut	ND	ND	ND	50				
Spegazzinia	ND	ND	ND	ND				
Stachybotrys	ND	ND	ND	ND				
Stemphylium	ND	ND	ND	ND				
Torula	ND	ND	ND	ND				
Trichocladium	ND	ND	ND	ND				
Trichothecium	ND	ND	ND	ND				
Ulocladium	ND	ND	ND	ND				
TOTAL	3,000	100	50	100				

MACS Lab, Inc.

3137 Diablo Ave
Hayward, CA 94545-2701
510-786-9751

Non-Viable Bulk Mold Analysis

Sampled on: July 9, 2008
Submitted on: July 9, 2008
Analyzed on: July 11, 2008
Reported on: July 11, 2008
SOP: NVB.I
Sample Type: Bulk

Jack Jones
1234 Happy Valley Road
M/S 12
Sunshine C A 90501

Report number: 179061

Job Number: 12345

Person to contact: Bill Smith

Phone: (803) 555-0501

FAX: (803) 555-0505

Job Description: 12345 Main St. Watsonville, Ca 95076

Analysis of Non-Viable Bulk Samples for Identification of Fungal Mycota

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A handwritten signature in black ink that reads "Tara Dubey". The signature is written in a cursive style.

Tara Dubey, Ph.D, Laboratory Director

510-786-9751

Report prepared for: Jack Jones

Sampled on: July 9, 2008

Reported on: July 11, 2008

Job Number: 12345

Report reviewed: Yes

Job Description: 12345 Main St. Watsonville, Ca 95076

Analysis of Non-Viable Bulk Samples for Identification of Fungal Mycota

Locale:	KellcoMacs-1	KellcoMacs-2						
Sample ID	1	2						
Lab Sample No.:	NB179061-1	NB179061-2						
Status:	Accepted	Accepted						

Taxon	Detection							
	ND	ND						
Acremonium	Present	Present						
Alternaria	ND	ND						
Ascospores	Present	Present						
Aspergillus/Penicillium	ND	ND						
Basidiospores	ND	Present						
Ceratocystis/Ophiostoma	ND	ND						
Chaetomium	Present	Present						
Cladosporium	ND	ND						
Curvularia	ND	ND						
Epicoccum	ND	ND						
Fusarium	ND	ND						
Gonatobotryum	ND	ND						
Myxotrichum	ND	ND						
Nigrospora	ND	ND						
Oidium	ND	ND						
Petriella	ND	ND						
Phoma species	ND	ND						
Rust	ND	ND						
Scopulariopsis	ND	ND						
Serpula	ND	ND						
Smut	ND	ND						
Stachybotrys	Present	ND						
Stemphylium	ND	ND						
Torula	ND	ND						
Trichocladium	ND	ND						
Trichoderma	ND	ND						
Trichothecium	ND	ND						
Ulocladium	ND	Present						
Yeast	ND	ND						
Zygomycete	ND	ND						
Comments on page:	3	3						

MACS Lab, Inc.
3137 Diablo Ave
Hayward, CA 94545-2701
510-786-9751

Non-Viable Bulk Mold Analysis

Report number: 179061

Report prepared for: Jack Jones

Sampled on: July 9, 2008

Reported on: July 11, 2008

Job Number: 12345

Report reviewed: Yes

Job Description: 12345 Main St. Watsonville, Ca 95076

Analysis of Non-Viable Bulk Samples for Identification of Fungal Mycota

Sample ID	1	Lab Sample ID	NB179061-1
Locale:	KellcoMacs-1		
Comments:	Growing structures of Stachybotrys were observed.		
Sample ID	2	Lab Sample ID	NB179061-2
Locale:	KellcoMacs-2		
Comments:	Aspergillus heads were observed. Dust mites were observed.		

MACS Lab, Inc.

3137 Diablo Ave
Hayward, CA 94545-2701
510-786-9751

Viable Air Mold Analysis

Sampled on: 00/00/00
Submitted on: May 24, 2005
Analyzed on: May 25, 2005
Reported on: July 7, 2005
SOP: VA.I
Sample Type: Andersen 400-hole

Jack Jones
1234 Happy Valley Road
M/S 12
Sunshine C A 90501

Report number: 142894

Person to contact: Bill Smith

Phone: (803) 555-0501

FAX: (803) 555-0505

Analysis of Viable Air Samples for Identification of Fungal Mycota

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A handwritten signature in black ink that reads "Tara Dubey".

Tara Dubey, Ph.D, Laboratory Director

Analysis of Viable Air Samples for Identification of Fungal Mycota

Sample ID:	mea-1		mea-2		mea-3		mea-4	
Locale:	sample from the back door of the black house down from the corner by the church with the		sample from the back door of the black house down from the corner by the		sample from the back door of the black house down from the corner by the		sample from the back door of the black house down from the corner by the	
Lab Sample No.:	VA142894-1		VA142894-2		VA142894-3		VA142894-4	
Rate (LPM), Duration	28.3	1	28.3	2	28.3	3	28.3	4
Volume (L):	28.3		56.6		84.9		113.2	
Status:	Accepted		Accepted		Accepted		Accepted	
LOD (CFU/m3):	35.34		17.67		11.78		8.83	

TAXON	Raw	CFU/m ³	Raw	CFU/m ³	Raw	CFU/m ³	Raw	CFU/m ³	
Acremonium	ND		ND		ND		ND		
Alternaria	ND		ND		ND		ND		
Aspergillus candidus	ND		ND		ND		ND		
Aspergillus flavus	ND		ND		ND		ND		
Aspergillus fumigatus	ND		ND		ND		ND		
Aspergillus nidulans	ND		ND		ND		ND		
Aspergillus niger	ND		8	150	ND		ND		
Aspergillus ochraceous	ND		ND		ND		ND		
Aspergillus sydowii	ND		ND		ND		ND		
Aspergillus terreus	ND		ND		ND		ND		
Aspergillus ustus	ND		ND		ND		ND		
Aspergillus versicolor	ND		ND		ND		ND		
Aspergillus vitis	ND		ND		ND		ND		
Aureobasidium	ND		ND		ND		ND		
Basidiomycete	ND		ND		ND		ND		
Beauveria bassiana	ND		ND		ND		ND		
Botrytis	ND		14	260	ND		11	120	
Ceratocystis/Ophiostoma	ND		ND		ND		ND		
Chaetomium	ND		ND		ND		ND		
Cladosporium	ND		ND		ND		ND		
Cladosporium breviramsum	ND		ND		ND		ND		
Cunninghamella	ND		ND		ND		ND		
Emericella nidulans	ND		ND		ND		ND		
Epicoccum	ND		8	150	ND		ND		
Eurotium amstelodami	ND		ND		ND		111	1,200	
Fusarium	ND		ND		ND		ND		
Geomyces pannorum	ND		ND		ND		ND		
Mucor	ND		ND		ND		ND		
Non-sporulating	ND		ND		ND		ND		
Paecilomyces	ND		ND		ND		ND		
Penicillium	ND		ND		ND		ND		
Phoma species	ND		ND		ND		ND		
Rhizopus	ND		ND		ND		ND		
Rhodotorula	ND		ND		2	30	ND		
Scopulariopsis	ND		ND		ND		ND		
Stachybotrys chartarum	ND		ND		ND		ND		
Trichurus	ND		ND		23	350	ND		
Ulocladium	ND		ND		ND		ND		
Wallemia	ND		ND		ND		ND		
Yeast	ND		ND		ND		ND		
Zygosporium	ND		ND		144	2,200	ND		
TOTAL	ND		30	550	169	2,600	122	1,300	
Comments:	No taxa detected.					Zygosporium aliens took over the plate.			

Analysis of Viable Air Samples for Identification of Fungal Mycota

Sample ID:	mea-5		mea-6		mea-7		mea-8	
Locale:	sample from the back door of the black house down from the corner by the		sample from the back door of the black house down from the corner by the		sample from the back door of the black house down from the corner by the		sample from the back door of the black house down from the corner by the	
Lab Sample No.:	VA142894-5		VA142894-6		VA142894-7		VA142894-8	
Rate (LPM), Duration	28.3	5	28.3	6	28.3	7	28.3	8
Volume (L):	141.5		169.8		198.1		226.4	
Status:	Accepted		Accepted		Accepted		Accepted	
LOD (CFU/m3):	7.07		5.89		5.05		4.42	

TAXON	Raw	CFU/m ³	Raw	CFU/m ³	Raw	CFU/m ³	Raw	CFU/m ³
Acremonium	ND		ND		ND		ND	
Alternaria	ND		ND		ND		ND	
Aspergillus candidus	ND		ND		ND		ND	
Aspergillus flavus	ND		ND		ND		ND	
Aspergillus fumigatus	ND		123	870	ND		ND	
Aspergillus nidulans	ND		ND		ND		ND	
Aspergillus niger	ND		ND		ND		13	70
Aspergillus ochraceous	ND		ND		333	3,600	ND	
Aspergillus sydowii	ND		ND		ND		ND	
Aspergillus terreus	ND		ND		ND		ND	
Aspergillus ustus	ND		ND		ND		ND	
Aspergillus versicolor	ND		ND		ND		ND	
Aspergillus vitis	ND		ND		ND		ND	
Aureobasidium	ND		ND		ND		ND	
Basidiomycete	ND		ND		ND		ND	
Beauveria bassiana	23	310	ND		ND		ND	
Botrytis	ND		ND		ND		22	110
Ceratocystis/Ophiostoma	ND		ND		ND		ND	
Chaetomium	ND		ND		ND		ND	
Cladosporium	ND		ND		ND		62	310
Cladosporium breviramsum	ND		ND		ND		ND	
Cunninghamella	ND		ND		ND		ND	
Emericella nidulans	ND		ND		ND		ND	
Epicoccum	32	430	ND		ND		ND	
Eurotium amstelodami	ND		ND		ND		ND	
Fusarium	ND		ND		ND		ND	
Geomyces pannorum	222	3,000	ND		ND		ND	
Mucor	ND		ND		ND		ND	
Non-sporulating	ND		ND		ND		ND	
Paecilomyces	11	150	ND		ND		ND	
Penicillium	ND		ND		ND		ND	
Phoma species	ND		ND		ND		ND	
Rhizopus	ND		ND		ND		ND	
Rhodotorula	ND		ND		ND		ND	
Scopulariopsis	ND		ND		ND		ND	
Stachybotrys chartarum	ND		ND		ND		ND	
Trichurus	ND		ND		ND		ND	
Ulocladium	19	260	ND		ND		ND	
Wallemia	ND		ND		ND		ND	
Yeast	ND		ND		ND		ND	
Zygosporium	ND		ND		ND		ND	

TOTAL	307	4,100	123	870	333	3,600	97	490
Comments:					Aspergillus ochraceous is everywhere on this plate.			

Analysis of Viable Air Samples for Identification of Fungal Mycota

Sample ID:	mea-9		mea-10		dg-1		dg-2	
Locale:	sample from the back door of the black house down from the corner by the		sample from the back door of the black house down from the corner by the		sample from the back door of the black house down from the corner by the		sample from the back door of the black house down from the corner by the	
Lab Sample No.:	VA142894-9		VA142894-10		VA142894-11		VA142894-12	
Rate (LPM), Duration	28.3	9	28.3	10	28.3	1	28.3	2
Volume (L):	254.7		283.0		28.3		56.6	
Status:	Accepted		Accepted		Accepted		Accepted	
LOD (CFU/m3):	3.93		3.53		35.34		17.67	

TAXON	Raw	CFU/m ³	Raw	CFU/m ³	Raw	CFU/m ³	Raw	CFU/m ³
Acremonium	ND		ND		ND		ND	
Alternaria	ND		ND		ND		ND	
Aspergillus candidus	ND		ND		ND		ND	
Aspergillus flavus	ND		ND		ND		ND	
Aspergillus fumigatus	ND		ND		ND		ND	
Aspergillus nidulans	ND		ND		ND		ND	
Aspergillus niger	ND		ND		ND		ND	
Aspergillus ochraceous	ND		ND		ND		ND	
Aspergillus sydowii	ND		ND		ND		ND	
Aspergillus terreus	ND		ND		ND		ND	
Aspergillus ustus	ND		ND		ND		ND	
Aspergillus versicolor	ND		ND		ND		112	2,300
Aspergillus vitis	ND		ND		ND		ND	
Aureobasidium	ND		ND		ND		ND	
Basidiomycete	ND		ND		ND		ND	
Beauveria bassiana	ND		ND		ND		ND	
Botrytis	ND		ND		10	380	ND	
Ceratocystis/Ophiostoma	ND		ND		ND		ND	
Chaetomium	ND		ND		11	410	ND	
Cladosporium	ND		ND		13	490	ND	
Cladosporium breviramsum	ND		ND		ND		ND	
Cunninghamella	ND		ND		ND		ND	
Emericella nidulans	ND		ND		ND		ND	
Epicoccum	ND		ND		ND		ND	
Eurotium amstelodami	ND		ND		ND		ND	
Fusarium	ND		ND		ND		ND	
Geomyces pannorum	ND		ND		ND		ND	
Mucor	ND		ND		ND		ND	
Non-sporulating	ND		ND		ND		ND	
Paecilomyces	ND		ND		ND		ND	
Penicillium	ND		ND		ND		ND	
Phoma species	ND		ND		ND		ND	
Rhizopus	ND		ND		ND		ND	
Rhodotorula	ND		ND		ND		ND	
Scopulariopsis	ND		ND		ND		ND	
Stachybotrys chartarum	ND		ND		ND		ND	
Trichurus	ND		ND		ND		ND	
Ulocladium	1	4	ND		13	490	ND	
Wallemia	ND		ND		ND		ND	
Yeast	ND		ND		ND		ND	
Zygosporium	ND		ND		ND		ND	
TOTAL	1	4	ND		47	1,800	112	2,300
Comments:	No taxa detected.							

Analysis of Viable Air Samples for Identification of Fungal Mycota

Sample ID:	dg-3		dg-4		dg-5		dg-6	
Locale:	sample from the back door of the black house down from the corner by the		sample from the back door of the black house down from the corner by the		sample from the back door of the black house down from the corner by the		sample from the back door of the black house down from the corner by the	
Lab Sample No.:	VA142894-13		VA142894-14		VA142894-15		VA142894-16	
Rate (LPM), Duration	28.3	3	28.3	4	28.3	5	28.3	6
Volume (L):	84.9		113.2		141.5		169.8	
Status:	Accepted		Accepted		Accepted		Accepted	
LOD (CFU/m3):	11.78		8.83		7.07		5.89	

TAXON	Raw	CFU/m ³	Raw	CFU/m ³	Raw	CFU/m ³	Raw	CFU/m ³
Acremonium	ND		ND		ND		ND	
Alternaria	ND		ND		ND		ND	
Aspergillus candidus	ND		ND		ND		ND	
Aspergillus flavus	ND		ND		ND		ND	
Aspergillus fumigatus	ND		ND		ND		ND	
Aspergillus nidulans	ND		ND		ND		ND	
Aspergillus niger	ND		ND		ND		ND	
Aspergillus ochraceous	ND		ND		ND		ND	
Aspergillus sydowii	ND		ND		ND		ND	
Aspergillus terreus	ND		ND		ND		ND	
Aspergillus ustus	ND		ND		ND		ND	
Aspergillus versicolor	ND		ND		ND		ND	
Aspergillus vitis	ND		ND		189	2,400	ND	
Aureobasidium	ND		111	1,100	ND		ND	
Basidiomycete	ND		ND		ND		ND	
Beauveria bassiana	ND		ND		ND		ND	
Botrytis	ND		ND		ND		ND	
Ceratocystis/Ophiostoma	ND		ND		ND		ND	
Chaetomium	ND		ND		ND		ND	
Cladosporium	ND		ND		ND		ND	
Cladosporium breviramsum	ND		ND		100	1,300	ND	
Cunninghamella	ND		ND		ND		ND	
Emericella nidulans	ND		ND		ND		ND	
Epicoccum	ND		ND		ND		ND	
Eurotium amstelodami	ND		ND		ND		ND	
Fusarium	ND		ND		ND		ND	
Geomyces pannorum	ND		ND		ND		ND	
Mucor	ND		ND		ND		ND	
Non-sporulating	ND		ND		ND		ND	
Paecilomyces	ND		ND		ND		ND	
Penicillium	ND		ND		ND		ND	
Phoma species	ND		ND		ND		ND	
Rhizopus	ND		ND		ND		ND	
Rhodotorula	ND		ND		ND		ND	
Scopulariopsis	ND		ND		ND		ND	
Stachybotrys chartarum	ND		ND		ND		ND	
Trichurus	ND		ND		ND		ND	
Ulocladium	ND		ND		ND		ND	
Wallemia	ND		ND		ND		ND	
Yeast	ND		ND		ND		ND	
Zygosporium	ND		ND		ND		ND	
TOTAL	ND		111	1,100	289	3,600	ND	

Comments:	No taxa detected.					No taxa detected. Carbonaceous debris, not biological in appearance.
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Analysis of Viable Air Samples for Identification of Fungal Mycota

Sample ID:	dg-7		dg-8		dg-9		dg-10	
Locale:	sample from the back door of the black house down from the corner by the		sample from the back door of the black house down from the corner by the		sample from the back door of the black house down from the corner by the		sample from the back door of the black house down from the corner by the	
Lab Sample No.:	VA142894-17		VA142894-18		VA142894-19		VA142894-20	
Rate (LPM), Duration	28.3	7	28.3	8	28.3	9	28.3	10
Volume (L):	198.1		226.4		254.7		283.0	
Status:	Accepted		Accepted		Accepted		Accepted	
LOD (CFU/m3):	5.05		4.42		3.93		3.53	

TAXON	Raw	CFU/m ³	Raw	CFU/m ³	Raw	CFU/m ³	Raw	CFU/m ³
Acremonium	ND		ND		ND		ND	
Alternaria	ND		ND		ND		ND	
Aspergillus candidus	ND		ND		ND		ND	
Aspergillus flavus	ND		ND		ND		ND	
Aspergillus fumigatus	ND		ND		ND		ND	
Aspergillus nidulans	ND		ND		ND		ND	
Aspergillus niger	ND		ND		ND		ND	
Aspergillus ochraceous	ND		ND		ND		ND	
Aspergillus sydowii	ND		ND		ND		ND	
Aspergillus terreus	1	5	ND		ND		ND	
Aspergillus ustus	ND		ND		ND		ND	
Aspergillus versicolor	ND		ND		ND		ND	
Aspergillus vitis	ND		ND		ND		ND	
Aureobasidium	ND		ND		ND		ND	
Basidiomycete	ND		ND		ND		ND	
Beauveria bassiana	ND		ND		ND		ND	
Botrytis	ND		ND		112	520	ND	
Ceratocystis/Ophiostoma	ND		ND		ND		ND	
Chaetomium	ND		ND		ND		ND	
Cladosporium	ND		ND		ND		ND	
Cladosporium breviramosum	ND		ND		ND		ND	
Cunninghamella	ND		ND		ND		ND	
Emericella nidulans	ND		ND		ND		1	4
Epicoccum	ND		ND		ND		ND	
Eurotium amstelodami	ND		ND		ND		ND	
Fusarium	ND		ND		ND		ND	
Geomyces pannorum	ND		ND		ND		ND	
Mucor	ND		ND		ND		ND	
Non-sporulating	ND		ND		ND		ND	
Paecilomyces	ND		ND		ND		ND	
Penicillium	ND		ND		ND		ND	
Phoma species	ND		ND		ND		ND	
Rhizopus	ND		ND		ND		ND	
Rhodotorula	ND		ND		ND		ND	
Scopulariopsis	ND		ND		ND		ND	
Stachybotrys chartarum	ND		ND		ND		ND	
Trichurus	ND		ND		ND		ND	
Ulocladium	ND		ND		ND		ND	
Wallemia	ND		11	50	ND		ND	
Yeast	ND		ND		ND		ND	
Zygosporium	ND		ND		ND		ND	
TOTAL	1	5	11	50	112	520	1	4
Comments:								

Analysis of Viable Air Samples for Identification of Fungal Mycota

Sample ID:	dg-11							
Locale:	sample from the back door of the black house down from the corner by the							
Lab Sample No.:	VA142894-21							
Rate (LPM), Duration	28.3	10						
Volume (L):	283.0							
Status:	Accepted							
LOD (CFU/m3):	3.53							

TAXON	Raw	CFU/m ³	Raw	CFU/m ³	Raw	CFU/m ³	Raw	CFU/m ³
Acremonium	ND							
Alternaria	ND							
Aspergillus candidus	ND							
Aspergillus flavus	ND							
Aspergillus fumigatus	ND							
Aspergillus nidulans	ND							
Aspergillus niger	ND							
Aspergillus ochraceous	ND							
Aspergillus sydowii	ND							
Aspergillus terreus	ND							
Aspergillus ustus	ND							
Aspergillus versicolor	ND							
Aspergillus vitis	ND							
Aureobasidium	ND							
Basidiomycete	ND							
Beauveria bassiana	ND							
Botrytis	ND							
Ceratocystis/Ophiostoma	ND							
Chaetomium	ND							
Cladosporium	ND							
Cladosporium breviramosum	ND							
Cunninghamella	ND							
Emericella nidulans	ND							
Epicoccum	ND							
Eurotium amstelodami	ND							
Fusarium	ND							
Geomyces pannorum	ND							
Mucor	2	7						
Non-sporulating	ND							
Paecilomyces	ND							
Penicillium	ND							
Phoma species	ND							
Rhizopus	ND							
Rhodotorula	ND							
Scopulariopsis	ND							
Stachybotrys chartarum	ND							
Trichurus	ND							
Ulocladium	ND							
Wallemia	ND							
Yeast	ND							
Zygosporium	ND							
TOTAL	2	7						
Comments:								

Analysis of Viable Air Samples for Identification of Fungal Mycota

SUMMARY
CFU/m³

Sample ID:	mea-1	mea-2	mea-3	mea-4	mea-5	mea-6	mea-7	mea-8
Locale:	sample from the back door of the black	sample from the back door of the black	sample from the back door of the black	sample from the back door of the black	sample from the back door of the black	sample from the back door of the black	sample from the back door of the black	sample from the back door of the black
Lab Sample No.:	VA142894-1	VA142894-2	VA142894-3	VA142894-4	VA142894-5	VA142894-6	VA142894-7	VA142894-8
Acremonium	ND	ND	ND	ND	ND	ND	ND	ND
Alternaria	ND	ND	ND	ND	ND	ND	ND	ND
Aspergillus candidus	ND	ND	ND	ND	ND	ND	ND	ND
Aspergillus flavus	ND	ND	ND	ND	ND	ND	ND	ND
Aspergillus fumigatus	ND	ND	ND	ND	ND	870	ND	ND
Aspergillus nidulans	ND	ND	ND	ND	ND	ND	ND	ND
Aspergillus niger	ND	150	ND	ND	ND	ND	ND	70
Aspergillus ochraceous	ND	ND	ND	ND	ND	ND	3,600	ND
Aspergillus sydowii	ND	ND	ND	ND	ND	ND	ND	ND
Aspergillus terreus	ND	ND	ND	ND	ND	ND	ND	ND
Aspergillus ustus	ND	ND	ND	ND	ND	ND	ND	ND
Aspergillus versicolor	ND	ND	ND	ND	ND	ND	ND	ND
Aspergillus vitis	ND	ND	ND	ND	ND	ND	ND	ND
Aureobasidium	ND	ND	ND	ND	ND	ND	ND	ND
Basidiomycete	ND	ND	ND	ND	ND	ND	ND	ND
Beauveria bassiana	ND	ND	ND	ND	310	ND	ND	ND
Botrytis	ND	260	ND	120	ND	ND	ND	110
Ceratocystis/Ophiostoma	ND	ND	ND	ND	ND	ND	ND	ND
Chaetomium	ND	ND	ND	ND	ND	ND	ND	ND
Cladosporium	ND	ND	ND	ND	ND	ND	ND	310
Cladosporium breviramsum	ND	ND	ND	ND	ND	ND	ND	ND
Cunninghamella	ND	ND	ND	ND	ND	ND	ND	ND
Emericella nidulans	ND	ND	ND	ND	ND	ND	ND	ND
Epicoccum	ND	150	ND	ND	430	ND	ND	ND
Eurotium amstelodami	ND	ND	ND	1,200	ND	ND	ND	ND
Fusarium	ND	ND	ND	ND	ND	ND	ND	ND
Geomyces pannorum	ND	ND	ND	ND	3,000	ND	ND	ND
Mucor	ND	ND	ND	ND	ND	ND	ND	ND
Non-sporulating	ND	ND	ND	ND	ND	ND	ND	ND
Paecilomyces	ND	ND	ND	ND	150	ND	ND	ND
Penicillium	ND	ND	ND	ND	ND	ND	ND	ND
Phoma species	ND	ND	ND	ND	ND	ND	ND	ND
Rhizopus	ND	ND	ND	ND	ND	ND	ND	ND
Rhodotorula	ND	ND	30	ND	ND	ND	ND	ND
Scopulariopsis	ND	ND	ND	ND	ND	ND	ND	ND
Stachybotrys chartarum	ND	ND	ND	ND	ND	ND	ND	ND
Trichurus	ND	ND	350	ND	ND	ND	ND	ND
Ulocladium	ND	ND	ND	ND	260	ND	ND	ND
Wallemia	ND	ND	ND	ND	ND	ND	ND	ND
Yeast	ND	ND	ND	ND	ND	ND	ND	ND
Zygosporium	ND	ND	2,200	ND	ND	ND	ND	ND
TOTAL	ND	550	2,600	1,300	4,100	870	3,600	490

Analysis of Viable Air Samples for Identification of Fungal Mycota

SUMMARY

CFU/m³

Sample ID:	mea-9	mea-10	dg-1	dg-2	dg-3	dg-4	dg-5	dg-6
Locale:	sample from the back door of the black	sample from the back door of the black	sample from the back door of the black	sample from the back door of the black	sample from the back door of the black	sample from the back door of the black	sample from the back door of the black	sample from the back door of the black
Lab Sample No.:	VA142894-9	VA142894-10	VA142894-11	VA142894-12	VA142894-13	VA142894-14	VA142894-15	VA142894-16
Acremonium	ND	ND	ND	ND	ND	ND	ND	ND
Alternaria	ND	ND	ND	ND	ND	ND	ND	ND
Aspergillus candidus	ND	ND	ND	ND	ND	ND	ND	ND
Aspergillus flavus	ND	ND	ND	ND	ND	ND	ND	ND
Aspergillus fumigatus	ND	ND	ND	ND	ND	ND	ND	ND
Aspergillus nidulans	ND	ND	ND	ND	ND	ND	ND	ND
Aspergillus niger	ND	ND	ND	ND	ND	ND	ND	ND
Aspergillus ochraceous	ND	ND	ND	ND	ND	ND	ND	ND
Aspergillus sydowii	ND	ND	ND	ND	ND	ND	ND	ND
Aspergillus terreus	ND	ND	ND	ND	ND	ND	ND	ND
Aspergillus ustus	ND	ND	ND	ND	ND	ND	ND	ND
Aspergillus versicolor	ND	ND	ND	2,300	ND	ND	ND	ND
Aspergillus vitis	ND	ND	ND	ND	ND	ND	2,400	ND
Aureobasidium	ND	ND	ND	ND	ND	1,100	ND	ND
Basidiomycete	ND	ND	ND	ND	ND	ND	ND	ND
Beauveria bassiana	ND	ND	ND	ND	ND	ND	ND	ND
Botrytis	ND	ND	380	ND	ND	ND	ND	ND
Ceratocystis/Ophiostoma	ND	ND	ND	ND	ND	ND	ND	ND
Chaetomium	ND	ND	410	ND	ND	ND	ND	ND
Cladosporium	ND	ND	490	ND	ND	ND	ND	ND
Cladosporium breviramisum	ND	ND	ND	ND	ND	ND	1,300	ND
Cunninghamella	ND	ND	ND	ND	ND	ND	ND	ND
Emericella nidulans	ND	ND	ND	ND	ND	ND	ND	ND
Epicoccum	ND	ND	ND	ND	ND	ND	ND	ND
Eurotium amstelodami	ND	ND	ND	ND	ND	ND	ND	ND
Fusarium	ND	ND	ND	ND	ND	ND	ND	ND
Geomyces pannorum	ND	ND	ND	ND	ND	ND	ND	ND
Mucor	ND	ND	ND	ND	ND	ND	ND	ND
Non-sporulating	ND	ND	ND	ND	ND	ND	ND	ND
Paecilomyces	ND	ND	ND	ND	ND	ND	ND	ND
Penicillium	ND	ND	ND	ND	ND	ND	ND	ND
Phoma species	ND	ND	ND	ND	ND	ND	ND	ND
Rhizopus	ND	ND	ND	ND	ND	ND	ND	ND
Rhodotorula	ND	ND	ND	ND	ND	ND	ND	ND
Scopulariopsis	ND	ND	ND	ND	ND	ND	ND	ND
Stachybotrys chartarum	ND	ND	ND	ND	ND	ND	ND	ND
Trichurus	ND	ND	ND	ND	ND	ND	ND	ND
Ulocladium	4	ND	490	ND	ND	ND	ND	ND
Wallemia	ND	ND	ND	ND	ND	ND	ND	ND
Yeast	ND	ND	ND	ND	ND	ND	ND	ND
Zygosporium	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL	4	ND	1,800	2,300	ND	1,100	3,600	ND

Analysis of Viable Air Samples for Identification of Fungal Mycota

SUMMARY
CFU/m³

Sample ID:	dg-7	dg-8	dg-9	dg-10	dg-11			
Locale:	sample from the back door of the black	sample from the back door of the black	sample from the back door of the black	sample from the back door of the black	sample from the back door of the black			
Lab Sample No.:	VA142894-17	VA142894-18	VA142894-19	VA142894-20	VA142894-21			
Acremonium	ND	ND	ND	ND	ND			
Alternaria	ND	ND	ND	ND	ND			
Aspergillus candidus	ND	ND	ND	ND	ND			
Aspergillus flavus	ND	ND	ND	ND	ND			
Aspergillus fumigatus	ND	ND	ND	ND	ND			
Aspergillus nidulans	ND	ND	ND	ND	ND			
Aspergillus niger	ND	ND	ND	ND	ND			
Aspergillus ochraceous	ND	ND	ND	ND	ND			
Aspergillus sydowii	ND	ND	ND	ND	ND			
Aspergillus terreus	5	ND	ND	ND	ND			
Aspergillus ustus	ND	ND	ND	ND	ND			
Aspergillus versicolor	ND	ND	ND	ND	ND			
Aspergillus vitis	ND	ND	ND	ND	ND			
Aureobasidium	ND	ND	ND	ND	ND			
Basidiomycete	ND	ND	ND	ND	ND			
Beauveria bassiana	ND	ND	ND	ND	ND			
Botrytis	ND	ND	520	ND	ND			
Ceratocystis/Ophiostoma	ND	ND	ND	ND	ND			
Chaetomium	ND	ND	ND	ND	ND			
Cladosporium	ND	ND	ND	ND	ND			
Cladosporium breviramisum	ND	ND	ND	ND	ND			
Cunninghamella	ND	ND	ND	ND	ND			
Emericella nidulans	ND	ND	ND	4	ND			
Epicoccum	ND	ND	ND	ND	ND			
Eurotium amstelodami	ND	ND	ND	ND	ND			
Fusarium	ND	ND	ND	ND	ND			
Geomyces pannorum	ND	ND	ND	ND	ND			
Mucor	ND	ND	ND	ND	7			
Non-sporulating	ND	ND	ND	ND	ND			
Paecilomyces	ND	ND	ND	ND	ND			
Penicillium	ND	ND	ND	ND	ND			
Phoma species	ND	ND	ND	ND	ND			
Rhizopus	ND	ND	ND	ND	ND			
Rhodotorula	ND	ND	ND	ND	ND			
Scopulariopsis	ND	ND	ND	ND	ND			
Stachybotrys chartarum	ND	ND	ND	ND	ND			
Trichurus	ND	ND	ND	ND	ND			
Ulocladium	ND	ND	ND	ND	ND			
Wallemia	ND	50	ND	ND	ND			
Yeast	ND	ND	ND	ND	ND			
Zygosporium	ND	ND	ND	ND	ND			
TOTAL	5	50	520	4	7			

MACS Lab, Inc.

3137 Diablo Ave
Hayward, CA 94545-2701
510-786-9751

Viabale Bulk Mould Analysis

Sampled on: July 9, 2008
Submitted on: July 9, 2008
Analyzed on: July 11, 2008
Reported on: July 11, 2008
SOP: VB.I
Sample Type: See below

Jack Jones
1234 Happy Valley Road
M/S 12
Sunshine C A 90501

Report number: 179066

Job Number: 12345

Person to contact: Bill Smith Phone: (803) 555-0501 FAX: (803) 555-0505
Job Description: 12345 Main St. Watsonville, Ca 95076

Analysis of Viabale Bulk Samples for Identification of Fungal Mycota

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MACS Lab, Inc., 3137 Diablo Ave, Hayward, CA 94545-2701, 510-786-9751, FAX: 510-786-9625



A handwritten signature in black ink that reads 'Tara Dubey'.

Tara Dubey, Ph.D, Laboratory Director

510-786-9751

Report prepared for: Jack Jones

Reported on: July 11, 2008

Job Number: 12345

Sampled on: July 9, 2008

Report reviewed: Yes

Job Description: 12345 Main St. Watsonvile, Ca 95076

Analysis of Viable Bulk Samples for Identification of Fungal Mycota

Locale:		KellcoMacs -1			KellcoMacs -2								
Sample ID:		1			2								
Lab Sample No.:		KA179066-1			KA179066-2								
Medium, Dilution		MEA	1:10		MEA	1:10							
Area sampled:		bulk			bulk								
Status:		Accepted			Accepted								
LOD:		10			10								
TAXON	RAW	%	CFU	RAW	%	CFU	RAW	%		RAW	%		
Acremonium	ND			ND									
Alternaria	2	2.7	20	6	7.0	60							
Aspergillus candidus	ND			ND									
Aspergillus flavus	ND			1	1.1	10							
Aspergillus fumigatus	ND			ND									
Aspergillus nidulans	ND			ND									
Aspergillus niger	4	5.4	40	5	5.8	50							
Aspergillus ochraceous	ND			ND									
Aspergillus sydowii	ND			ND									
Aspergillus terreus	ND			ND									
Aspergillus ustus	ND			ND									
Aspergillus versicolor	ND			ND									
Aspergillus vitis	ND			ND									
Aureobasidium	ND			ND									
Basidiomycete	ND			ND									
Botrytis	ND			ND									
Chaetomium	ND			ND									
Cladosporium	41	55.4	410	66	77.6	660							
Cunninghamella	ND			ND									
Emericella nidulans	ND			ND									
Epicoccum	ND			ND									
Eurotium amstelodami	ND			ND									
Fusarium	ND			ND									
Mucor	ND			ND									
Non-sporulating	ND			ND									
Paecilomyces	ND			ND									
Penicillium	27	36.4	270	7	8.2	70							
Rhizopus	ND			ND									
Rhodotorula	ND			ND									
Scopulariopsis	ND			ND									
Stachybotrys chartarum	ND			ND									
Ulocladium	ND			ND									
Wallemia	ND			ND									
Yeast	ND			ND									
TOTAL	74	100.0	740	85	100.0	850							
Comments:													

510-786-9751

Report prepared for: Jack Jones

Job Number: 12345

Sampled on: July 9, 2008

Reported on: July 11, 2008

Report reviewed: Yes

Job Description: 12345 Main St. Watsonville, Ca 95076

Analysis of Viable Bulk Samples for Identification of Fungal Mycota

SUMMARY

Taxon	Sample ID									
	1	2								
	CFU	CFU								
Acremonium	ND	ND								
Alternaria	20	60								
Aspergillus candidus	ND	ND								
Aspergillus flavus	ND	10								
Aspergillus fumigatus	ND	ND								
Aspergillus nidulans	ND	ND								
Aspergillus niger	40	50								
Aspergillus ochraceous	ND	ND								
Aspergillus sydowii	ND	ND								
Aspergillus terreus	ND	ND								
Aspergillus ustus	ND	ND								
Aspergillus versicolor	ND	ND								
Aspergillus vitis	ND	ND								
Aureobasidium	ND	ND								
Basidiomycete	ND	ND								
Botrytis	ND	ND								
Chaetomium	ND	ND								
Cladosporium	410	660								
Cunninghamella	ND	ND								
Emericella nidulans	ND	ND								
Epicoccum	ND	ND								
Eurotium amstelodami	ND	ND								
Fusarium	ND	ND								
Mucor	ND	ND								
Non-sporulating	ND	ND								
Paecilomyces	ND	ND								
Penicillium	270	70								
Rhizopus	ND	ND								
Rhodotorula	ND	ND								
Scopulariopsis	ND	ND								
Stachybotrys chartarum	ND	ND								
Ulocladium	ND	ND								
Wallemia	ND	ND								
Yeast	ND	ND								
TOTAL	740	850								

510-786-9751


Colitag™ Method

Jack Jones
 1234 Happy Valley Road
 M/S 12
 Sunshine C A 90501

Person to contact: Bill Smith
 Contact phone: (803) 555-0501
 FAX phone: (803) 555-0505
 Sampled on: May 30, 2008 at: 16:45
 Incubated on: 00/00/00 at: 00:00
 Analyzed on: July 8, 2008 at: 15:33
 Report prepared on: July 8, 2008 at: 15:37
 Corresponding invoice number: 177384

Purchase Order Number: A-100-2

Job Number: 12345

Analyst: td Reviewed by: DN Laboratory manager:  (signature)

Job Description: 12345 Main St. Watsonville, Ca 95076

Lab Sample Number	Customer Sample Number	Description	Comments	Type of Sample	Total Coliforms	E. Coli
EL177384-1	1	Bacteria		water	Absent	Absent

Received OK Accepted Date & Time Sampled: 05/30/08 at 16:47

End of report.

NOTICE

This report contains data regarding the presence or absence of coliforms and of E. Coli (Escherichia coli) determined by the MUG/Colilert test. "Coliforms" stand for a group of Gram Negative rod shaped bacteria common in fecal pollution. E. Coli is a common bacterial organism found in the human intestinal tract and can be used as a specific indicator of sewage spills. The presence of small quantities of coliforms may be due to environmental coliforms and may not be considered abnormal or of specific concern for human health.

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Tara Dubey, Ph.D., Laboratory Director

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

Airborne Dust Analysis Report

510-786-9751

NIOSH 500

Jack Jones
1234 Happy Valley Road
M/S 12
Sunshine C A 90501

Person to contact: Bill Smith

Contact phone: (803) 555-0501

FAX phone: (803) 555-0505

Report prepared on: July 11, 2008 at: 10:30

Corresponding invoice number: 179064

Purchase Order Number: A-100-2

Job Number: 12345

Analyst: Doug W. Bennett
DD (signature)

Laboratory manager: W. Dubay
(signature)

Job Description: 12345 Main Street, Watsonville, CA 95076

Sample Numbers	Client Sample Description	LPM Avg	Time (Min)	Milligrams per Meter 3
Lab: M179064-1 Client: 1	KellcoMacs-1	1.9	78	< 0.2
Date sampled: <input checked="" type="checkbox"/> Received OK <input checked="" type="checkbox"/> Accepted				
Lab: M179064-2 Client: 2	KellcoMacs-2	1.9	78	< 0.2
Date sampled: <input checked="" type="checkbox"/> Received OK <input checked="" type="checkbox"/> Accepted				

End of report.

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

510-786-9751

Analysis Report

TCLP Extraction USEPA Method 1311

Person to contact: Bill Smith
Contact phone: (803) 555-0501
FAX phone: (803) 555-0505
Samples received on: July 9, 2008
Report prepared on: July 11, 2008 at: 09:49
Corresponding invoice number: 179065

Jack Jones
1234 Happy Valley Road
M/S 12
Sunshine C A 90501

Purchase Order Number: A-100-2

Job Number: 12345

Laboratory manager: W. D. Bay
(signature)

Job Description: 12345 Main St. Watsonville, Ca 95076

Lab Sample Number: TA179065-1

Client Sample Number:

Client Sample Description: KellcoMacs-1

Received OK
 Accepted for analysis

Sampled on: 7/9/08 at: 09:00

Prepared on: 7/10/08 at: 08:00

Analyte	Result	PQL	USEPA Method 7000/
Pb Lead	0.265 mg/l	0.250 mg/l	7420

Lab Sample Number: TA179065-2

Client Sample Number:

Client Sample Description: KellcoMacs- 2

Received OK
 Accepted for analysis

Sampled on: 7/9/08 at: 09:00

Prepared on: 7/10/08 at: 08:00

Analyte	Result	PQL	USEPA Method 7000/
Pb Lead	< 0.250 mg/l	0.250 mg/l	7420

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