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Hazardous Materials Survey Report (revised)

Solano Community College
4000 Suisun Valley Road
Building 1100 Portables
Fairfield, CA

RGA Project No: SCC32836

August 8, 2013

Prepared for:

c/o John Lett with Kitchell
Solano Community College
4000 Suisun Valley Road, building 1900
Fairfield, CA

Prepared by:

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Hazardous Materials Survey Report

Building 1100
Solano Community College District
4000 Suisun Valley Road
Fairfield, California

1. Executive Summary

The following is a report of the pre-demolition asbestos and lead survey conducted by Tedd Kattchee, Certified Asbestos Consultant (CAC) with RGA Environmental, Inc. (RGA). The survey was performed on May 7, 2013 in addition to samples collected on May 26, 2011 at Solano Community College in Building 1100 located at 4000 Suisun Valley Road in Fairfield, California. RGA returned to the site on August 2, 2013 to conduct additional sampling.

The survey area included the interior, exterior, and roofing materials of approximately 4,000 square foot of five portable buildings attached or adjacent to one other. The finish roof is a rolled asphalt composite system. The portables are scheduled to be removed later in the year.

A total of twenty-six (26) homogenous suspected asbestos containing materials (ACMs) were identified throughout the interior and exterior of the structure. Four (4) of the materials sampled were determined to be positive for asbestos content.

Two (2) painted surfaces were sampled for potential lead content. Two (2) of the materials sampled were reported above the laboratory detection limit for lead.

Mercury containing fluorescent light tubes were present throughout the interior of the building. No mercury switches were observed in the building.

Modular HVAC units on the side of the portables indicate the presence of refrigerants

2. Scope of Work

The scope of the survey was as follows:

- Inspect the subject property for the presence of suspect ACMs, lead-containing paint, mercury containing products, potential polychlorinated biphenyls (PCBs) containing materials, and chlorofluorocarbon (CFC) containing equipment.

- Collect samples of suspect ACMs following a National Emissions Standards for Hazardous

Air Pollutants (NESHAPS) protocol for sample collection for a renovation survey.

- Asbestos bulk samples will be analyzed using polarized light microscopy (PLM) in accordance with the EPA's July 1993 method for the determination of asbestos in bulk building materials - EPA 600/R-93/116.

- Collect bulk paint chip samples of primary painted surfaces and other materials suspected to be lead containing. Bulk samples will be analyzed at an accredited laboratory by Flame Atomic Absorption (AA) for Total Lead reported in parts per million (ppm).

- Submit written report including analytical results, regulatory requirements and conclusions.

3. Methods and Sampling Strategy

Visual Inspection

Accessible building materials on the interior and exterior of the structure was visually inspected using the methods presented in the federal Asbestos Hazard Emergency Response Act (AHERA) regulations (40 CFR, Part 763) as a guideline. AHERA was originally only applicable to schools, however State and Federal Occupational Safety and Health Administration (OSHA) and Asbestos School Hazard Abatement Reauthorization Act (ASHARA) have adopted the AHERA sampling methodology for all buildings subject to demolition or renovation.

Visual Inspection for Mercury Containing Materials

Approximately fifty (50) fluorescent light tubes (mercury containing) were identified throughout the building. All of the light tubes should be handled without breakage prior to removal of fixtures. RGA did not observe any mercury switches in the building.

Visual Inspection for PCB-containing Equipment

Approximately 230 fluorescent light ballasts were identified inside the structure. RGA observed "No PCBs" labels on the ballasts inspected. All ballasts should be inspected prior to disposal to verify the presence/absence of PCBs. Ballasts should be assumed to be PCB-containing unless specified by the manufacturer's label as containing "No PCBs".

Visual Inspection for CFC Containing Equipment

RGA visually inspected for potential CFC containing equipment. Six (6) wall-mounted HVAC units were observed. There were indications that the equipment likely contains R-22 refrigerant, which is scheduled for phase-out by the EPA under the Montreal Protocol. No testing was performed. All refrigerant systems should be verified prior to disconnection; lubricating fluids and refrigerant must be reclaimed for recycling or destruction prior to removal of the equipment.

Bulk Sampling of Asbestos

Bulk samples were collected of homogeneous suspect ACM on the subject property. A homogeneous material is defined as a surfacing material, thermal system insulation, or

miscellaneous material that is uniform in color, texture and age of construction. Examples of homogeneous materials include:

- Pipe-insulation produced by the same manufacturer and installed during the same time period;
- Resilient flooring of identical color and pattern;
- Troweled on surfacing materials located in contiguous areas.

The survey area was visually inspected for the presence of suspect materials. As materials were identified, bulk samples were obtained with the aid of a coring device or other hand tool and placed into individual sampling bags. Each sample was given a discreet identification number and recorded on field notes as well as chain-of-custody forms. Refer to accompanying tables and appendices for details on material sample locations and results.

Bulk Sample Analysis - Asbestos

Bulk samples were analyzed by RGA in Seattle, Washington. RGA is accredited under the National Institute of Standards and Technology's National Voluntary Laboratory Accreditation Program (NVLAP).

When None Detected (ND) appears in this report, it should be interpreted as meaning no asbestos was observed in the sample material above the reliable limit of detection for the PLM method.

Note: Under EPA assessment criteria, if a single sample of a homogeneous material test positive for asbestos, all areas of that homogeneous material are considered to be asbestos containing.

Bulk Sampling of Lead Paint

Paint chip and bulk samples were collected using a hand scraper or chisel and were placed into individual plastic sampling containers. Each sample was provided a discreet sample number, which was recorded on a chain-of-custody form. The samples were transported under chain-of-custody procedures to RGA in Seattle, Washington. Please refer to Table III for details

on sample locations and sample results. All paint and ceramic tile glazing samples were analyzed for lead content using the Flame Atomic Absorption spectroscopy in accordance to EPA Method SW846-7420.

4. Asbestos Results

During the survey, twenty-six (26) suspect homogeneous materials were identified at the subject property. Four (4) of these materials were reported as positive for asbestos content. The confirmed asbestos containing materials are listed in Table I below.

TABLE I
ASBESTOS-CONTAINING MATERIALS

Material Description	Material Location	Approx. Quantity	Asbestos Type
Gray Penetration Mastic	Throughout Roofing Field All Portables	40 sq. ft.	5% CH
Drywall with Joint Compound	Room 1102 and 1107	2,200 sq. ft.	Drywall: ND Joint Compound: Pt CT 0.25% Comp <1% CH
12" Vinyl Floor Tile with Yellow Mastic – Beige	Room 1101	1,200 sq. ft.	VFT: 3% CH Mastic: ND
12" Floor Tile Under Carpets – Off-White	Room 1109	1,300 sq. ft.	Floor Tile: 4% CH Yellow Mastic: ND Black Mastic: ND

NA = Not Applicable, CH = Chrysotile, Pt Ct = Point Count by PLM. RACM = Regulated asbestos containing material (friable), Cat. I = Non-friable (note ACM must be reclassified as a RACM if rendered friable during removal), Cat. II = Category II Non-friable (note ACM must be reclassified as a RACM if rendered friable during removal)

Fifteen (15) suspect materials were sampled and found to be negative for asbestos content. The non-asbestos containing materials are listed in Table II below.

TABLE II
NON-ASBESTOS CONTAINING MATERIALS

Material Description	Material Location(s)
Sheet Vinyl Flooring Blue	1103 -1107
Sheet Vinyl Flooring Beige	1107 Bathrooms
Fiberboard wall panels	Throughout Portables
Wall cover White	1105
1' ceiling tile (no mastic)	Throughout Portables
Wall Panel Mastic - Brown	Throughout Portables*
Exterior tan paint	Exterior all portables
Rolled Roofing Field (Old and New)	All Portables Roof
HVAC Vibration dampener	Roof 1106
Residual Black Mastic	1106*
2' x 4' Ceiling Tiles –Fissure – White	1106
Brown Exterior paint	Exterior
Drywall with Joint Compound	1109
Wall Texture	Throughout
4" Gray Cove Base with Beige Mastic	Room 1109
4" Brown Cove Base with Beige Mastic	Room 1109 Restroom
12" Gray and Tan Multi-color Floor Tile – 2 Layers with Black Mastic	Room 1109 Restroom
White Carpet Mastic	Main Office Center
Fiberboard Walls with Joint Compound	Perimeter Walls

*=collected on 5/26/11

5. Lead Results

Samples of two (2) painted surfaces were collected from the survey area. Both of the materials sampled were reported above laboratory detection limits for lead. Table III below summarizes the sampling locations and results for the materials.

TABLE III
LEAD IN PAINT SAMPLE RESULTS

Sample Number	Material Description and Location	Results mg/kg (ppm)
Pb-1	Tan Exterior Body Paint	4,440
Pb-2	Brown Exterior Trim Paint	3,360

Mg/kg= Milligram per kilogram, ppm = parts per million

7. Conclusions and Recommendations

Based upon the scope of the work, RGA concludes the following:

- Asbestos was detected in four (4) materials: wallboard joint compound, roofing mastics and floor tiles. These materials should be removed by a licensed and registered asbestos abatement contractor if materials disturbed will exceed 100 square feet. All workers shall be properly trained for asbestos removal work.

- Lead was detected above the laboratory detection limit in two (2) of the materials tested within the survey area. None of these samples exceed 5000ppm the level at which the paint is considered lead.

- Mercury-containing fluorescent-light tubes were identified throughout the survey area. Mercury-containing tubes and bulbs should be removed from the fixtures or equipment without breakage and packaged for mercury reclamation as a universal waste through an appropriate vendor prior to removal of any fixtures.

- Suspect PCB-containing ballasts associated with the fluorescent lights were observed throughout the vacant space. All of the ballasts inspected during the survey were labeled as “No PCBs”. Each ballast label should be inspected for the phrase “No PCBs” prior to disposal. Ballasts not labeled as such should be assumed to contain PCBs. PCB ballasts should be removed from fixtures and disposed of as PCB-containing materials prior to disposal of the fixtures

- One (2) HVAC units was observed on the roof of the building. Six (6) smaller units mounted on the side of the portables likely utilize R-22 refrigerant. All refrigerant systems should be verified prior to disconnection; lubricating fluids and refrigerant must be reclaimed for recycling or destruction prior to removal of the equipment.

- No tritium gas exit signs were observed in the portables.

8. Regulatory Requirements

Asbestos

Asbestos-containing materials are present in the building in concentrations greater than one tenth of one percent (0.1%). Impacting materials containing greater than 0.1% asbestos either through repair, maintenance, or demolition activities triggers numerous regulations enforced by such agencies as OSHA (worker protection) and EPA (environmental exposure, transportation and disposal).

Listed below are the regulations that apply if the materials are removed:

- Any individual who contracts to provide health and safety services relating to ACMs must be certified by Cal-OSHA as either a Certified Asbestos Consultant or a Site Surveillance Technician. The activities they are certified to provide include: conducting asbestos surveys; writing work plans or specifications for abatement; monitoring the work of abatement contractors; collecting air samples; and determining if the work area is safe for re-occupancy by non-asbestos workers. Regulation: Cal-OSHA 8 CCR 1529 (q)(1).

- If more than 100 square feet of materials that contain greater than 0.1% asbestos will be abated, they must be abated by a Cal-OSHA registered asbestos abatement contractor. Regulation: Cal-OSHA 8 CCR 1529 (R).

- An ACM that is classified by OSHA as other/miscellaneous materials have been assumed present. Removal of these materials is considered a Class II activity according to Cal-OSHA regulations. Work practices and engineering controls for Class II work are specified in Cal-OSHA 8 CCR 1529 (g) (7-8).

- If more than 160 square feet or 260 linear feet of friable ACM (RACM) will likely be removed, the abatement contractor must notify the Bay Area Air Quality Management District (BAAQMD) ten (10) days prior to removing the material. Regulation: BAAQMD Rule 11.

Lead

Painted interior surfaces observed during the survey were all intact. Limited loose and peeling paint was observed on the exterior of the portables. Impacting lead or lead-containing paint either through repair, maintenance, renovation or demolition activities triggers numerous regulations enforced by such agencies as OSHA (worker protection), EPA (environmental exposure, transportation and disposal), and Department of Public Health

(DPH).

Listed below are the lead paint regulations that apply if the paint is removed:

- There are presently no federal, state or local regulations limiting the concentration of lead in public sector buildings, however several regulations established for the private sector as well as for government subsidized housing are used industry wide as guidelines for assessing exposure to lead. The Consumer Product Safety Commission (CPSC) has set a maximum limit of 600 ppm in paint used for residential purposes. The Department of Housing and Urban Development (HUD) requires abatement of lead hazards involving paint in concentrations exceeding 5,000 ppm.

- Disposal of all lead-containing paint is regulated at concentrations at or exceeding 1,000 ppm as stated in 40 Code of Federal Regulations (CFR) Part 263 - Land Disposal Regulations and Title 22, Division 4 Environmental Health of the California Administrative Code: Lead containing materials that exceed 50 ppm must be additionally analyzed to determine possible waste disposal restrictions with respect to lead. However, lead related work at any lead concentration is regulated under the OSHA statutes.

- Federal OSHA as well as California OSHA regulates all worker exposure during construction activities that impact lead-containing paint. California OSHA enforces the Lead in Construction Standard in Title 8 CCR 1532.1. The scope covers construction work where employees may be exposed to lead during such activities as demolition, removal, surface preparation for re-painting, renovation, clean-up and routine maintenance. The OSHA specified method of compliance includes respiratory protection, protective clothing and equipment, housekeeping, hygiene facilities, medical surveillance, and training, among other requirements.

9. Limitations

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

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Appendix 1

Laboratory Results and Chain of Custody – Asbestos

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OFFICE: (206) 281-8858 FAX: (206) 281-8922 email: laboratory@rgaenv.com

Bulk Asbestos Fiber Analysis
(EPA 600/R-93/116)

NVLAP LAB CODE 200613-0

Solano Community College
Project Location: Bldg 1100
Solano Community College

RGA Batch Number: **13-1026**
RGA Project Number: **SCC32836**
Number of Samples: **33**

Report Key

Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description **Layer Comments (if applicable)**	**Asbestos Components**	Non-Asbestos Fibrous Components	Non-Fibrous Components
1A 13010713	L-1 Linoleum, blue pebble pattern	**No Asbestos Detected**		75% Plastic Particles 25% Vinyl Filler and Binder
	L-2 Paper backing	**No Asbestos Detected**	65% Cellulose	25% Filler and Binder 10% Mineral Particles
	L-3 Beige/gray mastic	**No Asbestos Detected**		90% Resin and Binder 10% Mineral Filler and Binder
1B 13010714	L-1 Linoleum, blue pebble pattern	**No Asbestos Detected**		75% Plastic Particles 25% Vinyl Filler and Binder
	L-2 Paper backing	**No Asbestos Detected**	65% Cellulose	25% Filler and Binder 10% Mineral Particles
	L-3 Beige/gray mastic	**No Asbestos Detected**		90% Resin and Binder 10% Filler and Binder
2A 13010715	L-1 Drywall	**No Asbestos Detected**	20% Cellulose 10% Glass Fiber	65% Gypsum Filler and Binder 5% Mineral Particles
	L-2 Joint compound	**No Asbestos Detected**		85% Calcite Filler and Binder 10% Mineral Filler and Binder 5% Paint

Sampled By: Tedd Kattchee
Received By: Abdulrazzak Mansur 5/10/2013
Reviewed By: Aruna Turaga 5/13/2013

William Russell Browne

Analyzed By: Russell Browne 5/13/2013

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2B 13010716	L-1 Drywall	**No Asbestos Detected**	20% Cellulose 10% Glass Fiber	65% Gypsum Filler and Binder 5% Mineral Particles
	L-2 Joint compound	**No Asbestos Detected**		85% Calcite Filler and Binder 10% Mineral Filler and Binder 5% Paint
2C 13010717	L-1 Drywall	**No Asbestos Detected**	20% Cellulose 10% Glass Fiber	65% Gypsum Filler and Binder 5% Mineral Particles
	L-2 Joint compound	**No Asbestos Detected**		85% Calcite Filler and Binder 10% Mineral Filler and Binder 5% Paint
3A 13010718	L-1 Linoleum, beige pebble pattern	**No Asbestos Detected**		75% Plastic Particles 25% Vinyl Filler and Binder
	L-2 Paper backing	**No Asbestos Detected**	65% Cellulose	25% Filler and Binder 10% Mineral Particles
	L-3 Beige mastic	**No Asbestos Detected**		90% Resin and Binder 10% Filler and Binder

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3B 13010719	L-1 Linoleum, beige pebble pattern	**No Asbestos Detected**		75% Plastic Particles 25% Vinyl Filler and Binder
	L-2 Paper backing	**No Asbestos Detected**	65% Cellulose	25% Filler and Binder 10% Mineral Particles
	L-3 Beige mastic	**No Asbestos Detected**		90% Resin and Binder 10% Filler and Binder
4A 13010720	L-1 4" brown cove base	**No Asbestos Detected**		90% Rubber Particles 10% Vinyl Filler and Binder
	L-2 White mastic	**No Asbestos Detected**		90% Resin and Binder 10% Filler and Binder
5A 13010721	L-1 Wall covering white	**No Asbestos Detected**	75% Cellulose	15% Paint 10% Vinyl Filler and Binder
	L-2 Off-white/beige mastic	**No Asbestos Detected**		90% Resin and Binder 10% Filler and Binder
5B 13010722	L-1 Wall covering white	**No Asbestos Detected**	75% Cellulose	15% Paint 10% Vinyl Filler and Binder
	L-2 Off-white/beige mastic	**No Asbestos Detected**		90% Resin and Binder 10% Filler and Binder

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2D 13010723	L-1 Drywall	**No Asbestos Detected**	20% Cellulose 10% Glass Fiber	65% Gypsum Filler and Binder 5% Mineral Particles
	L-2 Joint compound	**2% Chrysotile**		83% Calcite Filler and Binder 10% Mineral Filler and Binder 5% Paint
	Layer Comments: The wall unit, as a whole, contains less than 1% chrysotile asbestos by visual estimate.			
2E 13010724	L-1 Drywall	**No Asbestos Detected**	20% Cellulose 10% Glass Fiber	65% Gypsum Filler and Binder 5% Mineral Particles
	L-2 Joint compound	**No Asbestos Detected**		85% Calcite Filler and Binder 10% Mineral Filler and Binder 5% Paint
2F 13010725	L-1 Drywall	**No Asbestos Detected**	20% Cellulose 10% Glass Fiber	65% Gypsum Filler and Binder 5% Mineral Particles
	L-2 Joint compound	**2% Chrysotile**		83% Calcite Filler and Binder 10% Mineral Filler and Binder 5% Paint
	Layer Comments: The wall unit, as a whole, contains less than 1% chrysotile asbestos by visual estimate.			
6A 13010726	1' ceiling tile, no mastic	**No Asbestos Detected**	85% Cellulose	10% Resin and Binder 5% Paint
6B 13010727	1' ceiling tile, no mastic	**No Asbestos Detected**	85% Cellulose	10% Resin and Binder 5% Paint

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6C 13010728	1' ceiling tile, no mastic	**No Asbestos Detected**	85% Cellulose	10% Resin and Binder 5% Paint
7A 13010729	Exterior brown coating	**No Asbestos Detected**		75% Paint 15% Calcite Filler and Binder 10% Mineral Filler and Binder
7B 13010730	Exterior brown coating	**No Asbestos Detected**		75% Paint 15% Calcite Filler and Binder 10% Mineral Filler and Binder
8A 13010731	Gray mastics, roof **Layer Comments:** First positive stop.	**5% Chrysotile** **Positive Stop**		90% Asphalt Filler and Binder 5% Mineral Particles
9A 13010734	Roofing field rolled	**No Asbestos Detected**	5% Cellulose	45% Asphalt Filler and Binder 30% Rocks 5% Mineral Particles
9B 13010735	Roofing field rolled	**No Asbestos Detected**	15% Glass Fiber 5% Cellulose	45% Asphalt Filler and Binder 30% Rocks 5% Mineral Particles
9C 13010736	Roofing field rolled	**No Asbestos Detected**	15% Glass Fiber 5% Cellulose	45% Asphalt Filler and Binder 30% Rocks 5% Mineral Particles
10A 13010737	Fiber wall panel	**No Asbestos Detected**	55% Cellulose 25% Synthetic	10% Resin and Binder 10% Paint

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10B 13010738	Fiber wall panel	**No Asbestos Detected**	55% Cellulose 25% Synthetic	10% Resin and Binder 10% Paint
11A 13010739	Rolled roofing field	**No Asbestos Detected**	15% Glass Fiber 5% Cellulose	45% Asphalt Filler and Binder 30% Rocks 5% Mineral Particles
11B 13010740	Rolled roofing field	**No Asbestos Detected**	15% Glass Fiber 5% Cellulose	45% Asphalt Filler and Binder 30% Rocks 5% Mineral Particles
11C 13010741	Rolled roofing field	**No Asbestos Detected**	15% Glass Fiber 5% Cellulose	45% Asphalt Filler and Binder 30% Rocks 5% Mineral Particles
12A 13010742	HVAC sealant, gray	**No Asbestos Detected**	10% Cellulose	85% Resin and Binder 5% Mineral Particles
12B 13010743	HVAC sealant, gray	**No Asbestos Detected**	10% Cellulose	85% Resin and Binder 5% Mineral Particles
13A 13010744	Vibration dampener	**No Asbestos Detected**	35% Synthetic 15% Glass Fiber	45% Rubber Particles 5% Mineral Particles
14A 13010745	Gray roofing mastic **Layer Comments:** First positive stop.	**5% Chrysotile** **Positive Stop**		85% Asphalt Filler and Binder 10% Mineral Particles

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Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description **Layer Comments (if applicable)**	**Asbestos Components**	Non-Asbestos Fibrous Components	Non-Fibrous Components
15A 13010747	2'x4' ceiling tile	**No Asbestos Detected**	55% Mineral Wool 10% Cellulose	30% Filler and Binder 5% Paint
15B 13010748	2'x4' ceiling tile	**No Asbestos Detected**	55% Mineral Wool 10% Cellulose	30% Filler and Binder 5% Paint

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X PM – T. Kattchee tedd@rgaenv.com fax: 510.899.7070
__PM – B. Gils bob@rgaenv.com fax: 510.899.7050
__PM – Marlin Bryant marlin.bryant@rgaenv.com fax:510.899.7062

ACM BULK SAMPLE DATA SHEET

* PLM Analysis
X Stop Analysis at First Positive
___ Analyze All Samples
___ Point Count Analysis (400-point)

Project Name/Address/Building No. : BLDG 1100 Solano Comm. College

RGA Project: SCC32836 **Sampled By:** TR **Sample Date** 5/7/13

Sample(s) Sent To: X RGA ___ EMSL ___ Other: ___ TAT: ___ Rush X 24Hrs ___ 3-5 Days

***FAX OR E-MAIL REPORT TO: *SEE ABOVE PROJECT MANAGER (PM)* ***

***ADDITIONAL REPORT RECIPIENT(S): ***

HM# / Sample ID	Material Description: / Sample Location & Material Location	Quantity:
	HM# 1 Material Description: LIND BLUE PEBBLE PATT BEIGE MASTIC	
1 A	1103 CLASS ROOM	
1 B	1103 " "	
	HM# 2 Material Description: DRY WALL & JC	
2 A	BETWEEN 1103 AND 1105 HALLWAY	
2 B	1107 BY SINK	
2 C	1107 BATHROOM ENTRY	
	HM# 3 Material Description: LIND BEIGE PEBBLE PATT BEIGE MASTIC	
3 A	1107 MEN RR	
3 B	1107 WOMEN'S RR	
	HM# 4 Material Description: 4" BROWN COVE & WHITE MASTIC	
4 A	1107 MEN'S RR	
	HM# 5 Material Description: WALL COVERING WHITE	
5 A	1107 CLASSROOM WALL N	
5 B	1107 " " N	
2 D	1107 CEILING AT HVAC	
2 E	1108 BATH ROOM	
2 F	1100 COPY ROOM off CLASSROOM	

HAZ

Relinquished By: TEDD KATTCHEE Signature: [signature] Date/Time: 5/8/13

Received By: Duane Flohra Signature: [signature] Date/Time: MAY 09 2013 / 1567

Relinquished By: ___ Signature: ___ Date/Time: ___

Received By: RAZ MANSURD Signature: [signature] Date/Time: 5/10/13

13-1026

RGA ENVIRONMENTAL

__ PM – S. Steiner steff@rgaenv.com fax: 510.899.7051
__ PM – K. Schroeter karin@rgaenv.com fax: 510.899.7063
__ PM – K. Pilgrim ken@rgaenv.com fax: 510.899.7053
X PM – T. Kattchee tedd@rgaenv.com fax: 510.899.7070
__ PM – B. Gils bob@rgaenv.com fax: 510.899.7050
__ PM – Marlin Bryant marlin.bryant@rgaenv.com fax:510.899.7062

ACM BULK SAMPLE DATA SHEET

* PLM Analysis
X Stop Analysis at First Positive
___ Analyze All Samples
___ Point Count Analysis (400-point)

Project Name/Address/Building No. : BLDG 1100

RGA Project: SCC 32836 **Sampled By:** TK **Sample Date** 5/7/13

Sample(s) Sent To: X RGA ___ EMSL ___ Other: _____ TAT: ___ Rush (X 24Hrs) ___ 3-5 Days

***FAX OR E-MAIL REPORT TO: *SEE ABOVE PROJECT MANAGER (PM)* ***

***ADDITIONAL REPORT RECIPIENT(S): _____ ***

HM# 6	Material Description: 1' ceiling Tile - NO MASTIC	
Sample ID	Sample Location & Material Location	Quantity:
6 A	1107 ceiling	
6 B	1107 ceiling	
6 C	1105 "	

HM# 7	Material Description: EXTERIOR BROWN COATING	
Sample ID	Sample Location & Material Location	Quantity:
7 A	1107	
7 B	1105	

HM# 8	Material Description: BLK MASTIC - Roof	
Sample ID	Sample Location & Material Location	Quantity: 400 SF
8 A	1109 Roof Perimeter	
8 B	1107 " "	
8 C	1101 " " South	

HM# 9	Material Description: Roofing Fold Rolled	
Sample ID	Sample Location & Material Location	Quantity:
9 A	1109 Fold SW Corner	
9 B	1107 " SE "	
9 C	1101 " South Edge	

HM# 10	Material Description: Fiber Wall Panel	
Sample ID	Sample Location & Material Location	Quantity:
10 A	1106 Gate Room	
10 B	1100 Copy Room	

Relinquished By: TEDD KATTCHEE Signature: [signature] Date/Time: 5/8/13

Received By: Duane Flohra Signature: [signature] Date/Time: MAY 09 2013 1507

Relinquished By: _____ Signature: _____ Date/Time: _____

Received By: RAZ MANSURI Signature: [signature] Date/Time: 5/10/13

13-1026

RGA ENVIRONMENTAL

__ PM – S. Steiner steff@rgaenv.com fax: 510.899.7051	__PM – K. Schroeter karin@rgaenv.com fax: 510.899.7063	__PM – K. Pilgrim ken@rgaenv.com fax: 510.899.7053
X PM – T. Kattchee tedd@rgaenv.com fax: 510.899.7070	__PM – B. Gils bob@rgaenv.com fax: 510.899.7050	__PM – Marlin Bryant marlin.bryant@rgaenv.com fax:510.899.7062

ACM BULK SAMPLE DATA SHEET

* PLM Analysis
X Stop Analysis at First Positive
__ Analyze All Samples
__ Point Count Analysis (400-point)

Project Name/Address/Building No. : BLDG 1100

RGA Project: SCL32836 **Sampled By:** TK **Sample Date** 5/7/13

Sample(s) Sent To: X RGA ___ EMSL ___ Other: _____ TAT: ___ Rush (X) 24Hrs ___ 3-5 Days

***FAX OR E-MAIL REPORT TO: *SEE ABOVE PROJECT MANAGER (PM)* ***

***ADDITIONAL REPORT RECIPIENT(S): _____ ***

Sample ID	Sample Location & Material Location	Quantity:
HM# 11	**Material Description:** Rolled Roofing Felt	
11 A	1102 EAST SIDE	
11 B	1104 (NEW Roof) WEST END	
11 C	1100 (OLD Roof) WEST END	
HM# 12	**Material Description:** HVAC Sealant (grey)	
12 A	1104 HVAC UNIT DUCT	
12 B	" " " "	
HM# 13	**Material Description:** VIBRATION DAMPENER	
13 A	1104 HVAC UNIT	
HM# 14	**Material Description:** 9" Roofing MASTICS	
14 A	1100 NORTH PERIMETER	
14 B	1102 " "	
HM# 15	**Material Description:** 2x4 ceiling Tile	
15 A	1106 ceiling DROP (NEW)	
15 B	1104 " " "	

Relinquished By: TEDD KATTCHEE **Signature:** [signature] **Date/Time:** 5/8/13

Received By: Duane Flohra **Signature:** [signature] **Date/Time:** MAY 09 2013 1507

Relinquished By: _____ **Signature:** _____ **Date/Time:** _____

Received By: RAZ MANSURI **Signature:** [signature] **Date/Time:** 5/10/13

Sample Log
Chain of Custody

RGA Laboratory Services
INTERNAL

Client:	Client Contact	**RGA Batch #:**	13-1026
Company:	Solano Community College	**RGA Project #:**	SCC32836
Client Address:	4000 Suisun Valley Road	**Client Job #:**	
Fairfield (City)	CA (State)	94534- (Zip)	**Number of Samples:** 36

Phone #:

2nd or Cell #:

Fax #:

e-mail Address:

Project Manager: Tedd Kattchee

Project Location: Bldg 1100
Solano Community College

Condition: X Good _____ Damaged _____ Severe Damage

TYPE OF ANALYSIS		
ASBESTOS:	**METALS:**	
_____ PCM (air)	_____ Paint	_____ Soil
X PLM (bulk)	_____ Wipe	_____ Air
_____ Pt. Count (bulk)	_____ TCLP	_____ Water
MOLD: P&K __ 100 __ 101 __ 102 __ 105 __ 117		
Other Method:		

Turn Around Time (other): 24 hour

2 hour / 4 hour	Same Day	~~One Day~~
Two Day	3-5 days	10 days

Price per Sample: $_____

#	Client Sample ID	RGA Laboratory ID	Comments	#	Client Sample ID	RGA Laboratory ID	Comments
1	1A	13010713		11	2D	13010723	
2	1B	13010714		12	2E	13010724	
3	2A	13010715		13	2F	13010725	
4	2B	13010716		14	6A	13010726	
5	2C	13010717		15	6B	13010727	
6	3A	13010718		16	6C	13010728	
7	3B	13010719		17	7A	13010729	
8	4A	13010720		18	7B	13010730	
9	5A	13010721		19	8A	13010731	
10	5B	13010722		20	8B	13010732	

	Signature	Date	Time
Sampled by:	TEDD KATTCHEE	5/7/13	
Relinquished by:			
Received by:	DUANE FLOHRA	5/9/13	1507
Relinquished by:			
Received for Laboratory by:		5/10/13	1623
Analyzed by:		5/13/13	1615
Preliminary Results Reported to P.M. by:		5/13/13	
Final Report to P.M. by:			

Special Instructions:
Due by 5/13/2013

Stop analysis at first positive.

Sample Log
Chain of Custody

RGA Laboratory Services
INTERNAL

Client:	Client Contact	**RGA Batch #:**	13-1026
Company:	Solano Community College	**RGA Project #:**	SCC32836
Client Address:	4000 Suisun Valley Road	**Client Job #:**	
Fairfield (City)	CA (State)	94534- (Zip)	**Number of Samples:** 36

Page: 2 of 2

#	Client Sample ID	RGA Laboratory ID	Comments	#	Client Sample ID	RGA Laboratory ID	Comments
21	8C	13010733		41			
22	9A	13010734		42			
23	9B	13010735		43			
24	9C	13010736		44			
25	10A	13010737		45			
26	10B	13010738		46			
27	11A	13010739		47			
28	11B	13010740		48			
29	11C	13010741		49			
30	12A	13010742		50			
31	12B	13010743		51			
32	13A	13010744		52			
33	14A	13010745		53			
34	14B	13010746		54			
35	15A	13010747		55			
36	15B	13010748		56			
37				57			
38				58			
39				59			
40				60			

	Signature	Date	Time
Sampled by:	TEDD KATCHEE	5/7/13	
Relinquished by:			
Received by:	DUANE FLOHRA	5/9/13	1507
Relinquished by:			
Received for Laboratory by:		5/10/13	1023
Analyzed by:		5/13/13	16:15
Preliminary Results Reported to P.M. by:		5/13/13	
Final Report to P.M. by:			

Special Instructions:
Due by 5/13/2013

Stop analysis at first positive.

MICRO ANALYTICAL LABORATORIES, INC.

BULK ASBESTOS ANALYSIS - POLARIZED LIGHT MICROSCOPY (PLM)

1023
Tedd Kattchee
RGA Environmental, Inc.
1466 66th Street
Emeryville, CA 94608

PROJECT:
SOLANO COLLEGE
4000 SUISUN VALLEY ROAD
FAIRFIELD, CA
(BUILDING #1100)
PROJECT NO. SCC-29847

Micro Log In	**185095**
Total Samples	24
Date Sampled	08/02/2013
Date Received	08/02/2013
Date Analyzed	08/02/2013

SAMPLE IDENTIFICATION	ASBESTOS INFORMATION QUANTITY (AREA %) / TYPES / LAYERS / DISTINCT SAMPLES	DOMINANT OTHER MATERIALS
Client #: 1A Micro #: 185095-01 Analyst: DA **HM#1 - 12" VFT WITH YELLOW MASTIC - BEIGE VFT CENTER OF ROOM #1101**	**VFT: 3% CHRYSOTILE ASBESTOS** **MASTIC: NONE DETECTED**	Matrix Type: SYNTHETIC MATERIAL, CARBONATE, ADHESIVE.
Client #: 1B Micro #: 185095-02 Analyst: DA **HM#1 - 12" VFT WITH YELLOW MASTIC - BEIGE VFT AT ENTRANCE OF ROOM #1101**	**VFT: 3% CHRYSOTILE ASBESTOS** **MASTIC: NONE DETECTED**	Matrix Type: SYNTHETIC MATERIAL, CARBONATE, ADHESIVE.
Client #: 1C Micro #: 185095-03 Analyst: DA GR **HM#1 - 12" VFT WITH YELLOW MASTIC - BEIGE VFT SOUTHEAST CORNER OF ROOM #1101**	**VFT: 3% CHRYSOTILE ASBESTOS** **MASTIC: NONE DETECTED**	Matrix Type: SYNTHETIC MATERIAL, CARBONATE, ADHESIVE.
Client #: 2A Micro #: 185095-04 Analyst: DA **HM#2 - DRYWALL WITH JOINT COMPOUND SOUTH CORNER OF ROOM #1109 - MAIN OFFICE**	**DRYWALL: NONE DETECTED** **JOINT COMPOUND: NONE DETECTED** **TAPE / PAINT: NONE DETECTED**	10 % CELLULOSE 2 % FIBROUS GLASS Matrix Type: 'GYPSUM' (CALCIUM SULFATE), CARBONATE.
Client #: 2B Micro #: 185095-05 Analyst: DA **HM#2 - DRYWALL WITH JOINT COMPOUND WEST CORNER OF ROOM #1109 RESTROOM**	**DRYWALL: NONE DETECTED** **JOINT COMPOUND: NONE DETECTED** **PAINT: NONE DETECTED**	10 % CELLULOSE 3 % FIBROUS GLASS Matrix Type: 'GYPSUM' (CALCIUM SULFATE), CARBONATE.

Technical Supervisor: _____ 8/2/2013
Gamini Ranatunga, Ph.D. Date Reported

Analyses use Polarized Light Microscopy (PLM), Micro Analytical SOP PLM-101 (Rev. 1/4/2013). Basic techniques follow the EPA Interim Method for Bulk Insulation Samples (1982), and EPA-600/R93-116 (1993). The 1993 method covers all types of bulk materials and is based on the 1982 Method, with improved analytical techniques for layered samples as required for NESHAP compliance. Asbestos is quantified by calibrated visual estimation. Detection limit is material dependent. Detection of asbestos traces (much less than 1%) may not be reliable or reproducible by PLM. Weight % cannot be determined by PLM. Asbestos with diameter below ~1 µm may not be detected by PLM. Absence of asbestos in dust, debris, and some compact materials, including floor tiles, cannot be conclusively established by PLM, and should be confirmed by Transmission Electron Microscopy (TEM). Tremolite-asbestos or actinolite- asbestos may be indistinguishable by PLM from some similar, non-regulated amphiboles (e.g. the "Libby Amphiboles" richterite and winchite), and should be confirmed by TEM. The lower quantitation limit (reporting limit) of PLM estimation is 1%. The Cal-OSHA definition of asbestos-containing construction material is 0.1% asbestos; however, reliable determination of asbestos percent at this level cannot be done by PLM estimation; PLM Point Counting or TEM weight percent analysis are recommended. Only dominant non-asbestos materials are indicated. Interferences may prevent detection of small asbestos fibers, and hinder determination of some optical properties. Sample heterogeneity is indicated by listing more than one distinct layer or material on the report. Layers are analyzed separately when feasible; if asbestos is detected, percentages are reported for individual layers. Interlayer contamination is possible among any layers in a sample. The notation ND (or "NONE DETECTED") indicates a result of "NO ASBESTOS DETECTED" in a homogeneous sample, or in all layers of a heterogeneous sample. Composite asbestos percentages from multiple layers are applicable only to wallboard / joint compound systems; compositing is based on customers' descriptions of material as "joint compound". Customers are solely responsible for identification and description of bulk materials listed on field forms. Laboratory descriptions may differ from those given by customers. Quality Control (QC): all results have been determined to be within acceptance limits prior to reporting. Samples that were reanalyzed are denoted by two sets of analyst initials. AIHA Accredited Laboratory ID No. 101768. NVLAP Lab Code 101872-0. CA ELAP Certification #1037. Unless otherwise stated herein, all samples were received in acceptable condition for analysis. This report must not be used to claim product endorsement by NIST or any U.S. Government agency. This report shall not be reproduced except in full without the approval of Micro Analytical Laboratories, Inc., and pertains only to the samples analyzed.

MICRO ANALYTICAL LABORATORIES, INC.

BULK ASBESTOS ANALYSIS - POLARIZED LIGHT MICROSCOPY (PLM)

1023
Tedd Kattchee
RGA Environmental, Inc.
1466 66th Street
Emeryville, CA 94608

PROJECT:
SOLANO COLLEGE
4000 SUISUN VALLEY ROAD
FAIRFIELD, CA
(BUILDING #1100)
PROJECT NO. SCC-29847

Micro Log In	**185095**
Total Samples	24
Date Sampled	08/02/2013
Date Received	08/02/2013
Date Analyzed	08/02/2013

SAMPLE IDENTIFICATION	ASBESTOS INFORMATION QUANTITY (AREA %) / TYPES / LAYERS / DISTINCT SAMPLES	DOMINANT OTHER MATERIALS
Client #: 2C Micro #: 185095-06 Analyst: DA **HM#2 - DRYWALL WITH JOINT COMPOUND NORTHWEST CORNER OF ROOM #1109 - MAIN OFFICE**	**DRYWALL: NONE DETECTED** **JOINT COMPOUND: NONE DETECTED** **TAPE / PAINT: NONE DETECTED**	10 % CELLULOSE 2 % FIBROUS GLASS Matrix 'GYPSUM' (CALCIUM SULFATE), Type: CARBONATE.
Client #: 3A Micro #: 185095-07 Analyst: DA **HM#3 - WALL TEXTURE MAIN OFFICE OF ROOM #1109 SOUTH WALL**	**TEXTURE / PAINT: NONE DETECTED**	Matrix CARBONATE. Type:
Client #: 3B Micro #: 185095-08 Analyst: DA **HM#3 - WALL TEXTURE MAIN OFFICE OF ROOM #1109 WEST WALL**	**TEXTURE / PAINT: NONE DETECTED**	Matrix CARBONATE. Type:
Client #: 3C Micro #: 185095-09 Analyst: DA GR **HM#3 - WALL TEXTURE BACK WALL OF ROOM #1109 - EAST**	**TEXTURE / PAINT: NONE DETECTED**	Matrix CARBONATE. Type:
Client #: 4A Micro #: 185095-10 Analyst: DA **HM#4 - 4" GRAY COVE BASE WITH BEIGE MASTIC EAST WALL MAIN OFFICE ROOM #1109**	**COVE BASE: NONE DETECTED** **MASTIC: NONE DETECTED**	Matrix SYNTHETIC MATERIAL, Type: CARBONATE.

Technical Supervisor: _____ 8/2/2013
Gamini Ranatunga, Ph.D. Date Reported

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MICRO ANALYTICAL LABORATORIES, INC.

BULK ASBESTOS ANALYSIS - POLARIZED LIGHT MICROSCOPY (PLM)

1023
Tedd Kattchee
RGA Environmental, Inc.
1466 66th Street
Emeryville, CA 94608

PROJECT:
SOLANO COLLEGE
4000 SUISUN VALLEY ROAD
FAIRFIELD, CA
(BUILDING #1100)
PROJECT NO. SCC-29847

Micro Log In	**185095**
Total Samples	24
Date Sampled	08/02/2013
Date Received	08/02/2013
Date Analyzed	08/02/2013

SAMPLE IDENTIFICATION	ASBESTOS INFORMATION QUANTITY (AREA %) / TYPES / LAYERS / DISTINCT SAMPLES	DOMINANT OTHER MATERIALS
Client #: **4B** Micro #: 185095-11 Analyst: DA **HM#4 - 4" GRAY COVE BASE WITH BEIGE MASTIC WEST WALL MAIN OFFICE ROOM #1109**	**COVE BASE: NONE DETECTED** **MASTIC: NONE DETECTED** **COMPOUND: NONE DETECTED**	Matrix Type: SYNTHETIC MATERIAL, CARBONATE.
Client #: **5A** Micro #: 185095-12 Analyst: DA **HM#5 - 4" BROWN COVE BASE WITH BEIGE MASTIC RESTROOM OF ROOM #1109**	**COVE BASE: NONE DETECTED** **MASTIC: NONE DETECTED** **COMPOUND: NONE DETECTED**	Matrix Type: SYNTHETIC MATERIAL, CARBONATE.
Client #: **6A** Micro #: 185095-13A Analyst: DA **HM#6 - 12" GRAY AND TAN MULTI COLOR FLOOR TILE - 2 LAYERS WITH BLACK MASTIC RESTROOM OF ROOM #1109** *LAB NOTE: TAN FLOOR TILE*	**FLOOR TILE (TAN): NONE DETECTED** **MASTIC: NONE DETECTED**	Matrix Type: SYNTHETIC MATERIAL, CARBONATE, ADHESIVE.
Client #: **6A** Micro #: 185095-13B Analyst: DA **HM#6 - 12" GRAY AND TAN MULTI COLOR FLOOR TILE - 2 LAYERS WITH BLACK MASTIC RESTROOM OF ROOM #1109** *LAB NOTE: PEBBLE PATTERN FLOORING*	**FLOORING: NONE DETECTED** **BACKING: NONE DETECTED** **MASTIC: NONE DETECTED**	5 % CELLULOSE 5 % FIBROUS GLASS 5 % SYNTHETIC FIBERS Matrix Type: SYNTHETIC MATERIAL, CARBONATE, ADHESIVE.
Client #: **6B** Micro #: 185095-14A Analyst: DA GR **HM#6 - 12" GRAY AND TAN MULTI COLOR FLOOR TILE - 2 LAYERS WITH BLACK MASTIC RESTROOM OF ROOM #1109** *LAB NOTE: TAN FLOOR TILE*	**FLOOR TILE: NONE DETECTED** **MASTIC: NONE DETECTED**	Matrix Type: SYNTHETIC MATERIAL, CARBONATE, ADHESIVE.

Technical Supervisor: _____ 8/2/2013
Gamini Ranatunga, Ph.D. Date Reported

Analyses use Polarized Light Microscopy (PLM), Micro Analytical SOP PLM-101 (Rev. 1/4/2013). Basic techniques follow the EPA Interim Method for Bulk Insulation Samples (1982), and EPA-600/R93-116 (1993). The 1993 method covers all types of bulk materials and is based on the 1982 Method, with improved analytical techniques for layered samples as required for NESHAP compliance. Asbestos is quantified by calibrated visual estimation. Detection limit is material dependent. Detection of asbestos traces (much less than 1%) may not be reliable or reproducible by PLM. Weight % cannot be determined by PLM. Asbestos with diameter below ~1 μm may not be detected by PLM. Absence of asbestos in dust, debris, and some compact materials, including floor tiles, cannot be conclusively established by PLM, and should be confirmed by Transmission Electron Microscopy (TEM). Tremolite-asbestos or actinolite- asbestos may be indistinguishable by PLM from some similar, non-regulated amphiboles (e.g. the "Libby Amphiboles" richterite and winchite), and should be confirmed by TEM. The lower quantitation limit (reporting limit) of PLM estimation is 1%. The Cal-OSHA definition of asbestos-containing construction material is 0.1% asbestos; however, reliable determination of asbestos percent at this level cannot be done by PLM estimation; PLM Point Counting or TEM weight percent analysis are recommended. Only dominant non-asbestos materials are indicated. Interferences may prevent detection of small asbestos fibers, and hinder determination of some optical properties. Sample heterogeneity is indicated by listing more than one distinct layer or material on the report. Layers are analyzed separately when feasible; if asbestos is detected, percentages are reported for individual layers. Interlayer contamination is possible among any layers in a sample. The notation ND (or "NONE DETECTED") indicates a result of "NO ASBESTOS DETECTED" in a homogeneous sample, or in all layers of a heterogeneous sample. Composite asbestos percentages from multiple layers are applicable only to wallboard / joint compound systems; compositing is based on customers' descriptions of material as "joint compound". Customers are solely responsible for identification and description of bulk materials listed on field forms. Laboratory descriptions may differ from those given by customers. Quality Control (QC): all results have been determined to be within acceptance limits prior to reporting. Samples that were reanalyzed are denoted by two sets of analyst initials. AIHA Accredited Laboratory ID No. 101768. NVLAP Lab Code 101872-0. CA ELAP Certification #1037. Unless otherwise stated herein, all samples were received in acceptable condition for analysis. This report must not be used to claim product endorsement by NIST or any U.S. Government agency. This report shall not be reproduced except in full without the approval of Micro Analytical Laboratories, Inc., and pertains only to the samples analyzed.

MICRO ANALYTICAL LABORATORIES, INC.

BULK ASBESTOS ANALYSIS - POLARIZED LIGHT MICROSCOPY (PLM)

1023
Tedd Kattchee
RGA Environmental, Inc.
1466 66th Street
Emeryville, CA 94608

PROJECT:
SOLANO COLLEGE
4000 SUISUN VALLEY ROAD
FAIRFIELD, CA
(BUILDING #1100)
PROJECT NO. SCC-29847

Micro Log In **185095**
Total Samples 24
Date Sampled 08/02/2013
Date Received 08/02/2013
Date Analyzed 08/02/2013

SAMPLE IDENTIFICATION	ASBESTOS INFORMATION QUANTITY (AREA %) / TYPES / LAYERS / DISTINCT SAMPLES	DOMINANT OTHER MATERIALS
Client #: 6B Micro #: 185095-14B Analyst: DA **HM#6 - 12" GRAY AND TAN MULTI COLOR FLOOR TILE - 2 LAYERS WITH BLACK MASTIC** **RESTROOM OF ROOM #1109** *LAB NOTE: PEBBLE PATTERN FLOORING*	**FLOORING: NONE DETECTED** **BACKING: NONE DETECTED** **MASTIC: NONE DETECTED**	5 % CELLULOSE 5 % FIBROUS GLASS 5 % SYNTHETIC FIBERS Matrix Type: SYNTHETIC MATERIAL, CARBONATE, ADHESIVE.
Client #: 7A Micro #: 185095-15 Analyst: DA **HM#7 - 12" OFF WHITE FLOOR TILE UNDER CARPETS** **MAIN OFFICE CENTER ROOM #1109**	**FLOOR TILE: 4% CHRYSOTILE ASBESTOS** **MASTIC (YELLOW): NONE DETECTED** **MASTIC (BLACK): NONE DETECTED**	3 % CELLULOSE Matrix Type: SYNTHETIC MATERIAL, CARBONATE, ADHESIVE.
Client #: 7B Micro #: 185095-16 Analyst: DA GR **HM#7 - 12" OFF WHITE FLOOR TILE UNDER CARPETS** **NORTHEAST OFFICE ROOM #1109**	**FLOOR TILE: 4% CHRYSOTILE ASBESTOS** **MASTIC (YELLOW): NONE DETECTED** **MASTIC (BLACK): NONE DETECTED**	3 % CELLULOSE 2 % SYNTHETIC FIBERS Matrix Type: SYNTHETIC MATERIAL, CARBONATE, ADHESIVE.
Client #: 7C Micro #: 185095-17 Analyst: DA **HM#7 - 12" OFF WHITE FLOOR TILE UNDER CARPETS** **NORTHWEST OFFICE ROOM #1109**	**FLOOR TILE: 4% CHRYSOTILE ASBESTOS** **MASTIC (YELLOW): NONE DETECTED** **MASTIC (BLACK): NONE DETECTED**	3 % CELLULOSE Matrix Type: SYNTHETIC MATERIAL, CARBONATE, ADHESIVE.
Client #: 8A Micro #: 185095-18 Analyst: DA **HM#8 - WHITE CARPET MASTIC** **MAIN OFFICE CENTER**	**NONE DETECTED**	3 % SYNTHETIC FIBERS Matrix Type: SYNTHETIC MATERIAL

Technical Supervisor: _____ 8/2/2013
Gamini Ranatunga, Ph.D. Date Reported

Analyses use Polarized Light Microscopy (PLM), Micro Analytical SOP PLM-101 (Rev. 1/4/2013). Basic techniques follow the EPA Interim Method for Bulk Insulation Samples (1982), and EPA-600/R93-116 (1993). The 1993 method covers all types of bulk materials and is based on the 1982 Method, with improved analytical techniques for layered samples as required for NESHAP compliance. Asbestos is quantified by calibrated visual estimation. Detection limit is material dependent. Detection of asbestos traces (much less than 1%) may not be reliable or reproducible by PLM. Weight % cannot be determined by PLM. Asbestos with diameter below ~1 μm may not be detected by PLM. Absence of asbestos in dust, debris, and some compact materials, including floor tiles, cannot be conclusively established by PLM, and should be confirmed by Transmission Electron Microscopy (TEM). Tremolite-asbestos or actinolite- asbestos may be indistinguishable by PLM from some similar, non-regulated amphiboles (e.g. the "Libby Amphiboles" richterite and winchite), and should be confirmed by TEM. The lower quantitation limit (reporting limit) of PLM estimation is 1%. The Cal-OSHA definition of asbestos-containing construction material is 0.1% asbestos; however, reliable determination of asbestos percent at this level cannot be done by PLM estimation; PLM Point Counting or TEM weight percent analysis are recommended. Only dominant non-asbestos materials are indicated. Interferences may prevent detection of small asbestos fibers, and hinder determination of some optical properties. Sample heterogeneity is indicated by listing more than one distinct layer or material on the report. Layers are analyzed separately when feasible; if asbestos is detected, percentages are reported for individual layers. Interlayer contamination is possible among any layers in a sample. The notation ND (or "NONE DETECTED") indicates a result of "NO ASBESTOS DETECTED" in a homogeneous sample, or in all layers of a heterogeneous sample. Composite asbestos percentages from multiple layers are applicable only to wallboard / joint compound systems; compositing is based on customers' descriptions of material as "joint compound". Customers are solely responsible for identification and description of bulk materials listed on field forms. Laboratory descriptions may differ from those given by customers. Quality Control (QC): all results have been determined to be within acceptance limits prior to reporting. Samples that were reanalyzed are denoted by two sets of analyst initials. AIHA Accredited Laboratory ID No. 101768. NVLAP Lab Code 101872-0. CA ELAP Certification #1037. Unless otherwise stated herein, all samples were received in acceptable condition for analysis. This report must not be used to claim product endorsement by NIST or any U.S. Government agency. This report shall not be reproduced except in full without the approval of Micro Analytical Laboratories, Inc., and pertains only to the samples analyzed.

MICRO ANALYTICAL LABORATORIES, INC.

BULK ASBESTOS ANALYSIS - POLARIZED LIGHT MICROSCOPY (PLM)

1023
Tedd Kattchee
RGA Environmental, Inc.
1466 66th Street
Emeryville, CA 94608

PROJECT:
SOLANO COLLEGE
4000 SUISUN VALLEY ROAD
FAIRFIELD, CA
(BUILDING #1100)
PROJECT NO. SCC-29847

Micro Log In	**185095**
Total Samples	24
Date Sampled	08/02/2013
Date Received	08/02/2013
Date Analyzed	08/02/2013

SAMPLE IDENTIFICATION	ASBESTOS INFORMATION QUANTITY (AREA %) / TYPES / LAYERS / DISTINCT SAMPLES	DOMINANT OTHER MATERIALS
Client #: 8B Micro #: 185095-19 Analyst: DA **HM#8 - WHITE CARPET MASTIC** **NORTHEAST OFFICE CENTER**	**NONE DETECTED**	3 % SYNTHETIC FIBERS Matrix Type: SYNTHETIC MATERIAL
Client #: 9A Micro #: 185095-20 Analyst: DA **HM#9 - FIBERBOARD WALLS WITH JOINT COMPOUND** **WEST PERIMETER WALL SOUTHWEST CORNER**	**FIBERBOARD: NONE DETECTED** **WALL COVERING: NONE DETECTED** **JOINT COMPOUND: NONE DETECTED**	80 % CELLULOSE Matrix Type: SYNTHETIC MATERIAL, CARBONATE.
Client #: 9B Micro #: 185095-21 Analyst: DA **HM#9 - FIBERBOARD WALLS WITH JOINT COMPOUND** **EAST PERIMETER WALL SOUTHEAST CORNER IN RESTROOM**	**FIBERBOARD: NONE DETECTED** **WALL COVERING: NONE DETECTED** **JOINT COMPOUND: NONE DETECTED**	80 % CELLULOSE Matrix Type: SYNTHETIC MATERIAL, CARBONATE.
Client #: 9C Micro #: 185095-22 Analyst: DA **HM#9 - FIBERBOARD WALLS WITH JOINT COMPOUND** **NORTHEAST PERIMETER WALL NORTHEAST CORNER**	**FIBERBOARD: NONE DETECTED** **WALL COVERING: NONE DETECTED** **JOINT COMPOUND: NONE DETECTED**	80 % CELLULOSE Matrix Type: SYNTHETIC MATERIAL, CARBONATE.

Technical Supervisor: _____ 8/2/2013
Gamini Ranatunga, Ph.D. Date Reported

Analyses use Polarized Light Microscopy (PLM), Micro Analytical SOP PLM-101 (Rev. 1/4/2013). Basic techniques follow the EPA Interim Method for Bulk Insulation Samples (1982), and EPA-600/R93-116 (1993). The 1993 method covers all types of bulk materials and is based on the 1982 Method, with improved analytical techniques for layered samples as required for NESHAP compliance. Asbestos is quantified by calibrated visual estimation. Detection limit is material dependent. Detection of asbestos traces (much less than 1%) may not be reliable or reproducible by PLM. Weight % cannot be determined by PLM. Asbestos with diameter below ~1 µm may not be detected by PLM. Absence of asbestos in dust, debris, and some compact materials, including floor tiles, cannot be conclusively established by PLM, and should be confirmed by Transmission Electron Microscopy (TEM). Tremolite-asbestos or actinolite- asbestos may be indistinguishable by PLM from some similar, non-regulated amphiboles (e.g. the "Libby Amphiboles" richterite and winchite), and should be confirmed by TEM. The lower quantitation limit (reporting limit) of PLM estimation is 1%. The Cal-OSHA definition of asbestos-containing construction material is 0.1% asbestos; however, reliable determination of asbestos percent at this level cannot be done by PLM estimation; PLM Point Counting or TEM weight percent analysis are recommended. Only dominant non-asbestos materials are indicated. Interferences may prevent detection of small asbestos fibers, and hinder determination of some optical properties. Sample heterogeneity is indicated by listing more than one distinct layer or material on the report. Layers are analyzed separately when feasible; if asbestos is detected, percentages are reported for individual layers. Interlayer contamination is possible among any layers in a sample. The notation ND (or "NONE DETECTED") indicates a result of "NO ASBESTOS DETECTED" in a homogeneous sample, or in all layers of a heterogeneous sample. Composite asbestos percentages from multiple layers are applicable only to wallboard / joint compound systems; compositing is based on customers' descriptions of material as "joint compound". Customers are solely responsible for identification and description of bulk materials listed on field forms. Laboratory descriptions may differ from those given by customers. Quality Control (QC): all results have been determined to be within acceptance limits prior to reporting. Samples that were reanalyzed are denoted by two sets of analyst initials. AIHA Accredited Laboratory ID No. 101768. NVLAP Lab Code 101872-0. CA ELAP Certification #1037. Unless otherwise stated herein, all samples were received in acceptable condition for analysis. This report must not be used to claim product endorsement by NIST or any U.S. Government agency. This report shall not be reproduced except in full without the approval of Micro Analytical Laboratories, Inc., and pertains only to the samples analyzed.

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__ PM – K. Schroeter karin@rgaenv.com fax: 510.899.7063
__ PM – K. Pilgrim ken@rgaenv.com fax: 510.899.7053
X PM – T. Kattchee tedd@rgaenv.com fax: 510.899.7070
__ PM – B. Gils bob@rgaenv.com fax: 510.899.7050
__ PM – Marlin Bryant marlin.bryant@rgaenv.com fax:510.899.7062

ACM BULK SAMPLE DATA SHEET

* PLM Analysis
__ Stop Analysis at First Positive
X Analyze All Samples
__ Point Count Analysis (400-point)

PAGE 1 OF 4

195195

Project Name/Address/Building No. : Solano College - 4000 Suisun Valley rd Fairfield CA (Building #1100)

RGA Project: SCC-29847 **Sampled By:** S Rogers **Sample Date** 8-2-13

Sample(s) Sent To: ___RGA ___EMSL X Other: MAC TAT: ___Rush X 24Hrs ___3-5 Days

*****FAX OR E-MAIL REPORT TO:** ***SEE ABOVE PROJECT MANAGER (PM)*** ***

*****ADDITIONAL REPORT RECIPIENT(S):** _____ ***

	Sample ID	Sample Location & Material Location	Quantity:
	HM# 1	**Material Description:** 12" VFT with yellow mastic - Beige VFT	
01	1 - A	Center of room #1101	1200 SF
02	1 - B	at entrance of room #1101	
03	1 - C	Southeast corner of room #1101	
	HM# 2	**Material Description:** Drywall with S/C	
04	2 - A	South corner of room #1109 - main office	1000 SF
05	2 - B	West corner of room #1109 restroom	
06	2 - C	Northwest corner of room #1109 - main office	
	HM# 3	**Material Description:** Wall texture	
07	3 - A	Main office of room #1109 South wall	Throughout
08	3 - B	Main office of room #1109 west wall	
09	3 - C	Back wall of room #1109 - East	
	HM# 4	**Material Description:** 4" Gray cove base with beige mastic	
10	4 - A	East wall main office room #1109	50 LF
11	4 - B	West wall main office room #1109	
	C		
	HM# 5	**Material Description:** 4" Brown cove base with beige mastic	
12	5 - A	Restroom of room #1109	
	B		
	C		
	D		
	E		
	F		
	G		

Relinquished By: Steve Rogers **Signature:** _____ **Date/Time:** 8-2-13-1230

Received By: _____ **Signature:** _____ **Date/Time:** 8/2/13 1241

Relinquished By: _____ **Signature:** _____ **Date/Time:** _____

Received By: _____ **Signature:** _____ **Date/Time:** _____

RGA
ENVIRONMENTAL

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ACM BULK SAMPLE DATA SHEET

* PLM Analysis
___ Stop Analysis at First Positive
✓ Analyze All Samples
___ Point Count Analysis (400-point)

PAGE 2 OF 2
198095

Project Name/Address/Building No. : Solano College 4000 Suisun Valley rd Fairfield CA (Building #1100)

RGA Project: SCC-29847 **Sampled By:** S Rogers **Sample Date** 8-2-13

Sample(s) Sent To: ___RGA ___EMSL X Other: MAC TAT: ___Rush X 24Hrs ___3-5 Days

***FAX OR E-MAIL REPORT TO: *SEE ABOVE PROJECT MANAGER (PM)* ***

***ADDITIONAL REPORT RECIPIENT(S): ***

	HM# 6	Material Description: 12" Gray & Tan multi color floor tile - 2 layers with black mastic	
	Sample ID	Sample Location & Material Location	Quantity:
17	6-A	Restroom of room #1109	50 ☒
14	6-B	Restroom of room #1109	
	C		
	HM# 7	Material Description: 12" off white floor tile under carpets	
	Sample ID	Sample Location & Material Location	Quantity:
15	7-A	Main office center room #1109	1300 ☒ Throughout
16	7-B	NE office room #1109	
17	7-C	NW office room #1109	
	HM# 8	Material Description: white carpet mastic	
	Sample ID	Sample Location & Material Location	Quantity:
18	8-A	Main office center	1300 ☒ Throughout
19	8-B	NE office center	
	C		
	HM# 9	Material Description: Fiberboard walls with S/C	
	Sample ID	Sample Location & Material Location	Quantity:
20	9-A	West perimeter wall SW corner	1800 ☒
21	9-B	East perimeter wall SE corner in restroom	
22	9-C	NE perimeter wall NE corner	
	HM#	Material Description:	
	Sample ID	Sample Location & Material Location	Quantity:
	A		
	B		
	C		
	D		
	E		
	F		
	G		

Relinquished By: Steve Rogers **Signature:** _____ **Date/Time:** 8-2-13-1230

Received By: _____ **Signature:** _____ **Date/Time:** 8/2/13 12:41

Relinquished By: _____ **Signature:** _____ **Date/Time:** _____

Received By: _____ **Signature:** _____ **Date/Time:** _____

RGA ENVIRONMENTAL

Appendix 2

Laboratory Results and Chain of Custody – Lead

RGA
ENVIRONMENTAL

May 13, 2013

RGA Batch # 13-1025

Client: Client Contact
Company: Solano Community College
4000 Suisun Valley Road
Fairfield, CA, 94534

Project:	Bldg 1100 Solano Comm Colge	Project #:	SCC32836
Matrix:	Paint Chips - Total Lead	P.O. #:	N/A
Date Sampled:	5/7/2013	Sampled By:	Tedd K
Date Received:	5/10/2013	Method:	EPA SW-846 Method 7420
Date Analyzed:	5/13/2013	Analyst:	***Aruna Turaga***

LEAD SAMPLE RESULTS

RGA Lab ID	Client ID	RL (mg/kg)	Concentration (mg/kg)	Percent %
13010711	Pb-1	19	4,400	0.440
13010712	Pb-2	1900	3,600	0.360

QA/QC Results	
Batch QC MS	110% Recovery
Method Blank	<0.5 ug/ml

RL - reporting limit
mg - milligrams
kg - kilograms
< - less than

Reviewed by: T. Aruna

Dr.Aruna Turaga, Laboratory Director

13-1025

RGA
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fax:510.899.7062

LEAD PAINT
SAMPLE DATA SHEET

* Lead Analysis
X Flame AA (EPA 7420)
__ TTLC

PAGE 1 OF 1

Project Name/Address/Building No. : BLDG 1100 Solano comm College

RGA Project #: SCC32836 Sampled By: TK Sampling Date 5/7/13

Sample(s) Sent To: X RGA ____ EMSL ____ Other: ____ TAT: ____ Rush X 24Hrs ____ 3-5 Days

FAX OR E-MAIL REPORT TO: *SEE ABOVE PROJECT MANAGER (PM) ***

***ADDITIONAL REPORT RECIPIENT(S): ____ ***

Sample ID	Paint Description and Sample Location	Condition (I/F/P)
Pb-1	Paint Color: BRW Substrate: WOOD Component: WALL Sample Location: Bldg. # 1100 Unit # ____ Room ____ EXTERIOR	P
Pb-2	Paint Color: DARK BROWN Substrate: WOOD Component: TRIM Sample Location: Bldg. # 1104 Unit # ____ Room ____ EXTERIOR	P
	Paint Color: ____ Substrate: ____ Component: ____ Sample Location: Bldg. # ____ Unit # ____ Room ____	
	Paint Color: ____ Substrate: ____ Component: ____ Sample Location: Bldg. # ____ Unit # ____ Room ____	
	Paint Color: ____ Substrate: ____ Component: ____ Sample Location: Bldg. # ____ Unit # ____ Room ____	
	Paint Color: ____ Substrate: ____ Component: ____ Sample Location: Bldg. # ____ Unit # ____ Room ____	
	Paint Color: ____ Substrate: ____ Component: ____ Sample Location: Bldg. # ____ Unit # ____ Room ____	

Relinquished By: TEDD KATTCHEE Signature: [signature] Date/Time: 5/8/13

Received By: Duane Flohrs Signature: [signature] Date/Time: MAY 09 2013 / 1515

Relinquished By: ____ Signature: ____ Date/Time: ____

Received By: RAZ MANSURI Signature: [signature] Date/Time: 5/10/13

Sample Log
Chain of Custody

RGA Laboratory Services
INTERNAL

Client:	Client Contact
Company:	Solano Community College
Client Address:	4000 Suisun Valley Road
Fairfield (City) / CA (State) / 94534- (Zip)	
Phone #:	
2nd or Cell #:	
Fax #:	
e-mail Address:	
Project Manager:	Tedd Kattchee

RGA Batch #:	13-1025
RGA Project #:	SCC32836
Client Job #:	
Number of Samples:	2

TYPE OF ANALYSIS

ASBESTOS:	METALS: Pb	
____ PCM (air)	__X__ Paint	____ Soil
____ PLM (bulk)	____ Wipe	____ Air
____ Pt. Count (bulk)	____ TCLP	____ Water
MOLD: P&K __ 100 __ 101 __ 102 __ 105 __ 117		
Other Method:		

Project Location: BLDG 1100
Solano Community College

Turn Around Time (other): 24 hour

2 hour / 4 hour	Same Day	~~One Day~~
Two Day	3-5 days	10 days

Price per Sample: $_____

Condition: X Good _____Damaged _____Severe Damage

#	Client Sample ID	RGA Laboratory ID	Comments	#	Client Sample ID	RGA Laboratory ID	Comments
1	Pb-1	13010711		11			
2	Pb-2	13010712		12			
3				13			
4				14			
5				15			
6				16			
7				17			
8				18			
9				19			
10				20			

	Signature	Date	Time
Sampled by:	TEDD KATTCHEE	5/7/13	
Relinquished by:			
Received by:	DUANE FLOHRA	5/9/13	1515
Relinquished by:			
Received for Laboratory by:		5/10/13	1013
Analyzed by:		5/13/13	12:00
Preliminary Results Reported to P.M. by:		5/13/13	
Final Report to P.M. by:			

Special Instructions:
Due by 5/13/2013

RGA ENVIRONMENTAL

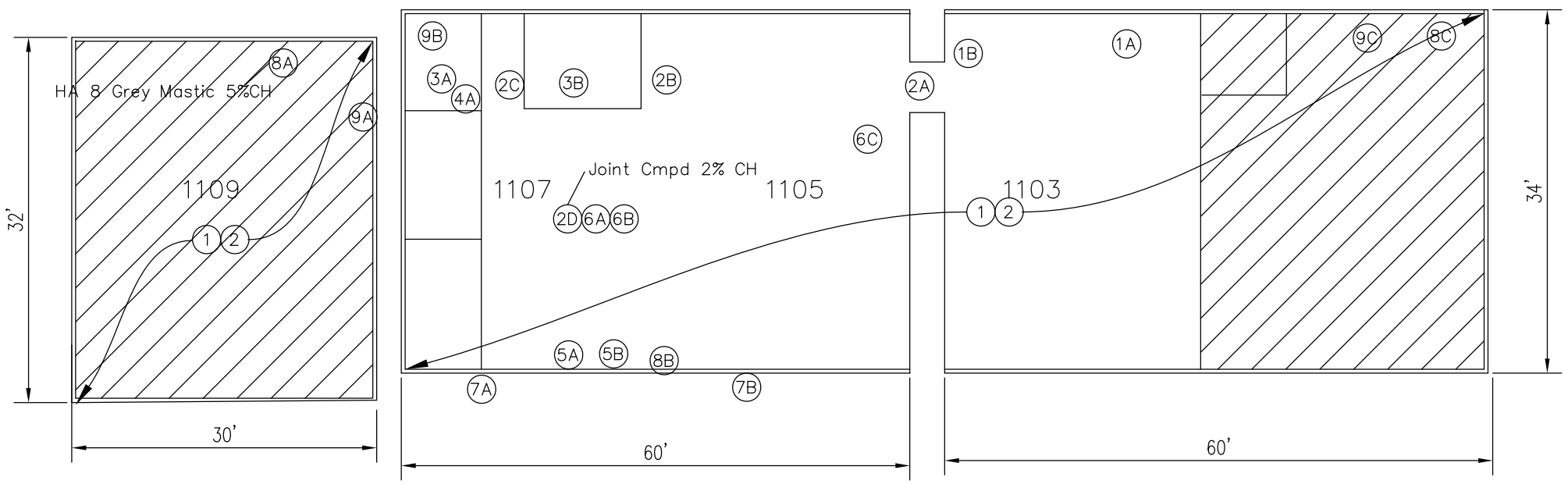
Appendix 3

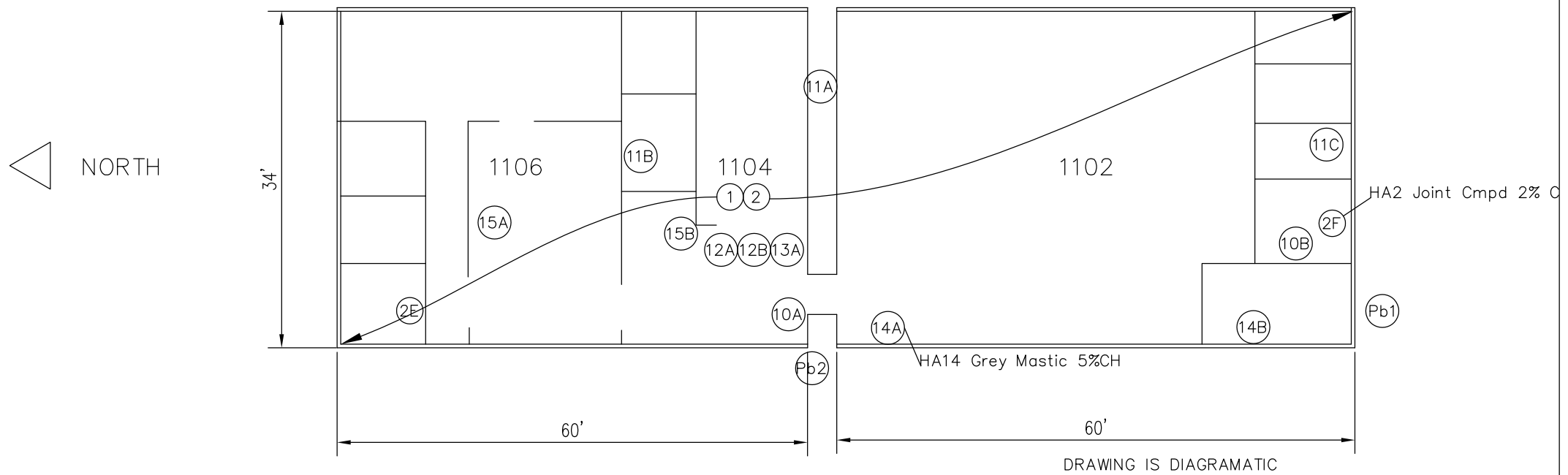
Sample and Material Location Diagram

SHEET NOTES

(1) ABATE ALL WALLBOARD AND ASSOCIATED COMPOUND

(2) ABATE ALL GREY ROOFING MASTICS





A. THIS WORK INCLUDES THE ABATEMENT OF WALLBOARD AND JOINT COMPOUND, VINYL FLOOR TILE (MASTIC IS NEGATIVE) AND GRAY ROOFING MASTICS THAT CONTAIN ASBESTOS LOCATED AT THE PORTABLES. ALL ITEMS INDICATED TO BE REMOVED OR ABATED MUST BE VERIFIED AND REVIEW ON SITE BY THE CONTRACTOR PRIOR TO BIDDING. ALL ABATEMENT WORK SHALL BE CONDUCTED IN ACCORDANCE WITH DISTRICT PROVIDED ASBESTOS ABATEMENT SPECIFICATION. CONTRACTOR TO PROVIDE A UNIT PRICE FOR ALL KNOWN OR ASSUMED ASBESTOS CONTAINING MATERIALS. A PLUS OR MINUS 10% OF QUANTITIES BID IS NOT CONSIDERED A CHANGE CONDITION.

B. PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK, THE CONTRACTOR SHALL THOROUGHLY REVIEW SITE AND ABATEMENT DRAWING FOR ANY DISCREPANCIES OR QUESTIONS TO THE COMMUNITY COLLEGE.

C. REFER TO THE ABATEMENT SPECIFICATIONS & SURVEY FOR INFORMATION PERTAINING TO ASBESTOS AND LEAD CONTENT.

D. NOTE HIDDEN MATERIALS MAYBE DISCOVERED DURING ABATEMENT. CONTACT THE COLLEGE REPRESENTATIVE IF ANY SUSPECT MATERIALS ARE FOUND DURING ABATEMENT

E. ALL SHEET NOTES ARE TYPICAL (TYP) UNLESS OTHERWISE NOTED. ABATE AND PROPERLY DISPOSE OF ALL ASBESTOS CONTAINING MATERIALS FROM THE BUILDING AND SURROUND AREA IMPACTED BY THE PLANNED DEMOLITION OF THE PORTABLES.

F. ABATE ALL LOOSE AND STRATIFIED LEAD PAINT FROM THE INTERIOR AND EXTERIOR OF THE PORTABLES IN ACCORDANCE WITH CAL-OSHA 1532.1. USING DUST CONTROL METHODS AND BY PROPERLY TRAINED PERSONNEL.

G. REMOVE AND PROPERLY DISPOSE OF ANY PCB-CONTAINING FLUORESCENT LIGHTING BALLASTS.

H. REMOVE AND RECYCLE MERCURY LIGHTING TUBES AND MERCURY THERMOSTATS FOUND THROUGHOUT THE BUILDING.

I. RECLAIM ANY REFRIGERANTS PRIOR TO ABATEMENT OR DEMOLITION OF MECHANICAL SYSTEMS.

J. REMOVE AND RECYCLE ANY METAL COMPONENTS SCHEDULED FOR DEMOLITION.

O. REMOVE AND CLEAN WITH A DISINFECTANT SOLUTION ANY ANIMAL CARCASSES OR FECAL MATTER THAT MAYBE ENCOUNTERED DURING DEMOLITION ACTIVITIES. PPE SHALL CONSIST OF SUITS, 1/2 FACE RESPIRATORS AND NITRILE GLOVES. NOTE FERAL CATS HAVE BEEN REPORTED TO LIVE UNDER THE PORTABLES.

P. THE CONTRACTOR CAN DEMOLISH THE <1% WALLBOARD IN PLACE. THE CONTRACTOR OPERATING THE EQUIPMENT MUST HOLD THE CSLB ASB LICENCE. THE DEMOLITION WORK IS A CAL-OSHA CLASS II ACTIVITY THE EMPLOYEE MUST HAVE PROPER ASBESTOS WORKER TRAINING.

APPROXIMATE MATERIAL QUANTITY

WALLBOARD & JOINT COMPOUIND	2,200 SF
GREY ROOFING MASITCS	40 SF
VINYL FLOOR TILE ONLY	2500 SF

SURVEY DOCUMENTS	5/21/13	
DESCRIPTION	DATE	

SOLANO COMMUNITY COLLEGE
BUILDING 1100
4000 SIUSUN VALLEY ROAD FAIRFIELD CALIFORNIA

Scale	NTS
Drawn	TK
Checked	
Job No.	32836

ASBESTOS ABATEMENT PLAN

Asbestos and Lead Sample Material Location Diagram

Drawing No.
1A

RGA ENVIRONMENTAL

Appendix 4

Inspector Certificates

State of California
Division of Occupational Safety and Health

Certified Asbestos Consultant

Theodore A Kattchee

Name

Certification No. **99-2557**

Expires on **03/10/14**

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

State of California
Division of Occupational Safety and Health

Certified Site Surveillance Technician

Steven B Rogers

Name

Certification No. **08-4408**

Expires on **08/21/14**

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.