SOLANO
COMMUNITY COLLEGE

FAIRFIELD CAMPUS

HYDRONIC SYSTEM MODERNIZATION – PHASE 1 PROJECT

PROJECT NUMBER: 25-026

HAZARDOUS MATERIALS

TECHNICAL SPECIFICATIONS

DIVISION 02 80 00

Date: October 28, 2025

Hazardous Material Scope of Work

PROJECT NUMBER: 25-191

SITE ID: Solano Community College District
Campus Wide-Mechanical Rooms
Hydronic Pipe Replacement
4000 Suisun Valley Road
Fairfield, California

CONTACT PERSONS:	Owner Representative	PMP Environmental Consulting Inc.
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SECTION I - BACKGROUND

Solano Community College is undertaking a hydronic line replacement project across the Fairfield campus. The project will involve several buildings, including but not limited to Buildings 200–1000, 1200–1600, 1700A & B, and 1800A & B. The scope of work primarily consists of removing and replacing outdated hydronic lines. This process may encounter materials such as asbestos, lead, and other hazardous substances. Asbestos and lead abatement will be carried out by a licensed abatement/remediation contractor. The on-site supervisor representing the abatement contractor is required to always keep a copy of these specifications on hand. Supervisors must thoroughly review these specifications prior to site arrival to ensure complete understanding of the procedures established to protect staff, students, workers, and the environment.

These specifications outline the Contractor's requirements, covering submittals, training, medical checks, licensing, insurance, work practices, communications, and more. The attached building survey reports clarify the project scope with tables on materials, locations, quantities, lab results, regulatory status, and diagrams.

SECTION II - MATERIALS & LOCATIONS OF ABATEMENT WORK

Location of materials are generalized in this table. Contractors shall refer to PMP, Inc.'s survey report (attached to these specifications) and the project drawings provided by the campus Architect for work to be completed. The square or linear footages listed in the survey report are estimated. The abatement contractor is responsible for quantifying all removal footage.

2.1 ASBESTOS

Sample No.	Material Description/Location	Results	EPA Category
	Transite Pipe Underground throughout campus	Known Asbestos	CAT II

Building 300

Sample No.	Material Description/Location	Asbestos Content	EPA Category
1021-02A	Orange Peel Texture Sheetrock & Joint Compound/Various Areas Throughout	0.18% Chrysotile (Confirmed by Point Count)	N/A
1021-04A	Unfinished Sheetrock w/Joint Compound Building 300	0.14% Chrysotile (Confirmed by Point Count)	N/A
1021-05A	Plaster Building 300	<0.25% Chrysotile (Confirmed by Point Count)	N/A
1021-06C	Duct Seam Tape Building 300 Attic Space Above FCP	3% Chrysotile	CAT II

Building 500

Sample No.	Material Description/Location	Results	EPA Category
05A-G	Drywall with Joint Compound-Orange Peel Texture - Throughout	1-5-2.25% Chrysotile (400 Point Count)	RACM
	Duct Seam Tape- Attic Space at Metal Ducts and Joints	2% Chrysotile	CAT II
21A-C	Beige HVAC Putty	5-10% Chrysotile	CAT II

Building 600

Sample No.	Material Description/Location	Results	EPA Category
43A/B	Drywall with Joint Compound-	2% Chrysotile (Texture & Joint Compound)	RACM

Building 700

Sample No.	Material Description/Location	Results	EPA Category
07A-E	Drywall with Wallpaper and Joint Compound Corridors, Classroom	2% Chrysotile (Joint Compound) None Detected (Drywall) 2% Chrysotile (Texture)	RACM
08A-G	Drywall Light Texture and Joint Compound/Offices, Staff Room, etc.	2% Chrysotile (Joint Compound) None Detected (Drywall) 2% Chrysotile (Texture)	RACM
15A-C	Gray Window Putty Interior/Exterior Windows	<1% Chrysotile	CAT II
	Duct Seam Tape-Plenum Building 700	2% Chrysotile	CAT II
	Yellow HVAC Putty Building 700	5-10% Chrysotile	CAT II
	Stucco-Gray	<1% Chrysotile	RACM

Building 800

Sample No.	Material Description/Location	Results	EPA Category
15A-D	White Joint Compound on Fiberglass Insulation, Mechanical Room 810	2-3% Chrysotile	CAT II
17A-B	Window Putty Interior/Exterior Windows	3% Chrysotile	CAT II
53D	White Sealant w/Black Roof	5% Chrysotile	CAT II

Building 1400

Sample No.	Material Description/Location	Results	EPA Category
46A/B	Drywall with Joint Compound Building 1400	2% Chrysotile (Texture & Joint Compound)	RACM

Building 1500

Sample No.	Material Description/Location	Results	EPA Category
01A-F	Drywall with Joint Compound-Orange Peel Texture/Throughout	2% Chrysotile (Texture) 2% Chrysotile (Joint Compound) None Detected (Drywall)	RACM
18A-B	Brown Window Putty & Beige Coating Interior/Exterior Windows	2% Chrysotile Beige Coating None Detected (Putty)	CAT II
18A-B	Brown Window Putty & Beige Coating Interior/Exterior Windows	2% Chrysotile Beige Coating None Detected (Putty)	CAT II
54D-D	White Coating w/Gray & Black Roof	<1% Chrysotile Black Mastic 2% Chrysotile Silver Sealant	CAT II

Building 1600

Sample No.	Material Description/Location	Results	EPA Category
01A-E	Sheetrock w/Wallpaper Covering w/Joint Compound	2% Chrysotile Joint Compound 2% Chrysotile (Texture)	RACM
02A-G	Sheetrock - Smooth	2% Chrysotile Joint Compound	RACM
26A-C	Brown Window Frame Sealant-Interior	<1% Chrysotile	CAT II
31A-B	Brown Window Putty-Exterior	<1% Chrysotile	CAT II
32A-C	Brown Concrete Expansion Joint at Windows	2% Chrysotile	CAT II
43A-C	Red Tile Seam Sealant	2% Chrysotile	CAT II

Building 1700A & B

Sample No.	Material Description/Location	Results	EPA Category
47A/B	Drywall with Joint Compound Building 1400	2% Chrysotile (Texture & Joint Compound)	RACM

Building 1800A & B

Sample No.	Material Description/Location	Results	EPA Category
48A/B	Drywall with Joint Compound Building 1400	2% Chrysotile (Texture & Joint Compound)	RACM

2.2 LEAD RESULTS

The following paints/coatings were found to be lead-containing:

- White paint on drywall walls -Buildings 300, 600, 1400 and 1500
- Gray paint on stucco – Building 400
- Light brown paint on drywall walls-Building 800 and 1700A
- White paint on stucco – Building 1700B

- Light gray paint on drywall-Building 1800B
- White coating on exhaust units – Roofs
- Black paint on support post-roof wind screens

The following paint were found to be below the limit of detection for lead by Flame AA analysis:

- Beige paint on drywall walls
- White paint on drywall-Building 133
- White paint on stucco-Building 1300 exterior
- White paint on Stucco-Building 1400
- White paint on drywall walls-1800A

All paints and coatings found on the interior or exterior of the buildings that are not listed in these specifications or appendices must be treated as lead-based or lead-containing until sampled and proven otherwise.

SECTION III - DISPOSITION & STORAGE OF ITEMS IN AREA

The owner will remove most loose equipment and furniture in the abatement areas prior to the start of the project. All items removed by the abatement contractor must be either turned over to the owner (as noted or indicated in the plans) or disposed of by the abatement contractor.

SECTION IV - OCCUPANCY

None in the immediate area.

SECTION V - PRE-CLEANING

The abatement contractor may have light pre-cleaning of the work area prior to setting up containment.

SECTION VI – ELECTRICITY AND WATER

In coordination with the building owner, ensure that all electrical power, gas, sewage, water, phone lines, fire life safety lines, and sprinkler systems are shut down and disconnected from the work area as needed. This precaution prevents reactivation and the risk of electrical shock. Make sure all temporary utility connections required for abatement are provided in the work area. Temporary electrical power must comply with Cal/OSHA, OSHA, and the National Electrical Code standards for wet environments.

The contractor shall conform to the Owner's lockout requirements and always secure the work area. The Contractor, throughout the abatement phase, shall secure area entrances and exits.

Unauthorized visitors are strictly prohibited. The contractor shall ensure that all doors, gates, windows, and potential entrances to the work areas and the designated waste location areas are secured and locked at the end of each workday. It is the Contractor's responsibility to prevent unauthorized entries to the work area.

Long hoses and electrical cords may be required.

SECTION VII – SECURITY AND SAFETY

GFCI's shall be used on all electrical equipment.

The contractor shall store all materials, equipment, and supplies for the project in areas designated by the Owner.

Approved fire extinguishers (Class ABC, multi-purpose, dry chemical type, rated: 4A; 60BC) shall be readily available to workers (maximum travel distance of 50 feet) inside and adjacent to work area(s). Personnel and emergency exits shall be clearly indicated. The emergency exit plan shall be approved by the Owner and/or Environmental Consultant prior to the setup of any work areas.

The Contractor shall be responsible for identifying all HVAC components (if applicable) that lead into or out of the work areas. All components shall be sealed airtight for the duration of the abatement work. All openings shall be sealed with two (2) layers of 6-mil polyethylene secured with duct tape, as applicable.

A copy of the contractor's safety meeting notes shall be given to the on-site PMP, Inc. project manager. Safety meetings should be held at least once a week.

SECTION VIII – CONTAINMENT SETUP AND DECONTAMINATION

8.1 Asbestos Containment/Decontamination-Interior

Containment must have a three-stage decontamination chamber with an operational shower installed. Each stage of this decon must have z-flaps between itself and the adjoining stage(s) with a lip of at least 4" to prevent the transfer of waste from chamber to chamber.

Shower chambers and equipment washing chambers must be equipped with catch pans of sufficient size to capture and hold water which overflows from showering and washing activities. The “dirty” chamber shall have an extra layer of 6-mil polyethylene sheeting on the floor as a "drop cloth" and it shall be replaced at least once daily.

Showers and washing stations must also be equipped with a filtering system that includes a 0.5-micron filter. If the filtering system is not available or is not functioning correctly, shower water must be bagged and disposed of as asbestos-containing waste. Abatement and remediation work will be stopped if decon chamber is not kept in acceptable condition.

Storage or consumption of food and/or beverages shall not be permitted inside the containment or within any of the decontamination chambers. Food or drink consumption within containment or decon chambers will result in the abatement worker(s) dismissal from the site for the duration of the project.

As necessary, Contractor shall seal operable windows and other penetrations in the work area with two layers of 6-mil polyethylene sealed with tape.

Contractor shall construct airtight negative pressure containment(s) for the removal of all interior materials. If friable material or RACM is generated during work activities, Contractor must segregate this material from any non-regulated ACM that is removed and must package and label them accordingly. Negative pressure shall be continuously maintained at a minimum differential of -0.03 column inches of water for the duration of abatement and cleaning activities and until clearance has been achieved. In addition to negative pressure, the work area should be engineered to have a minimum of 4 air exchanges per hour with sufficient air mixing inside the containment to eliminate dead-air spaces. The contractor shall submit a worksheet identifying the air change calculations for each contained work area. The worksheet shall identify the containment area volume and the identification number and capacity of each portable AHU to be used.

The contractor shall provide easily accessible viewing ports from the clean space into each abatement area. Viewing ports must be a minimum of 2’ x 2’, clear-see-through plastic with no scratches, tape, or glue marks.

Pressure differential recorders with strip or circular charts are required to monitor the pressure differential of each work area. The recorders must be calibrated prior to arriving on site and shall be periodically recalibrated throughout the project.

The work area(s) shall be placed under negative pressure as outlined in this specification and throughout the abatement work period. If a containment area is breached (failure of polyethylene seals, visible dust emission, etc.), the contractor shall take immediate action to control the breach and clean the area to the satisfaction of the Environmental Consultant.

Clearance for any contaminated areas will be determined by the Environmental Consultant and may include air sampling.

The Contractor shall be responsible for all costs associated with the clean-up and testing (including costs associated with the Environmental Consultant) resulting from containment breaches.

Transite pipe removal locations shall be isolated with caution tape, warning signs, poly sheeting, and a decontamination area. All work must be performed wet. Pipes should be removed substantially intact whenever possible. If the pipe is broken the waste will be considered friable.

8.2 Lead Containment/Decontamination

1. For interior work site preparation, one layer of 6-mil poly sheeting must be placed on the entire floor of the work area. The poly sheeting must be secured to the floor using tape so there is no gap between the floor and the wall. If individual rooms are being worked in, seal all doorways with an airlock flap to prevent contamination of other areas of the building. Post lead warning signs at the entry and all secondary entryways. All ventilation systems are to be turned off and the supply and return registers sealed with poly sheeting. If furniture or other equipment are to remain in place, cover with a single layer of poly sheeting.

All cleanup of the work area shall be performed using HEPA vacuum and wet washing techniques.

2. For exterior paint stabilization use barrier tape at a 20-foot perimeter around the working surfaces to prevent other people from entering the work area. Post Lead Warning Signs at the 20-foot perimeter. Barriers may be less than 20 feet from work area when walls provide protection from entry by unauthorized personnel. Place one layer of 6-mil poly sheeting on the entire floor of the work area.

The poly sheeting must be secured to the floor using tape so there is no gap between the floor and the wall.

3. A decontamination area should be placed adjacent to the work area, but outside of the regulated area. The decontamination area will be constructed of one layer of 6-mil poly and shall include water, soap, and towels plus a tacky pad for footwear decontamination to allow workers to properly decontaminate.

SECTION IX - REGULATED AREA ENTRY POINTS AND WASTE CONTAINER PERIMETERS

1. Regulated Area Entry Points and Waste Container Perimeters shall be posted as follows:

DANGER
ASBESTOS
CANCER AND LUNG DISEASE HAZARD
AUTHORIZED PERSONNEL ONLY
RESPIRATORS AND PROTECTIVE CLOTHING ARE
REQUIRED IN THIS AREA

CAUTION
LEAD HAZARD
DO NOT ENTER WORK AREA
UNLESS AUTHORIZED

These postings are required to warn non-remediation personnel of the restricted access, and potential hazard which exists in the vicinity of the regulated areas and waste bin(s).

9.1 Waste Containers for Non-Hazardous Asbestos Containing Materials

Waste material containers, including the "burrito wrapped" material, shall have warning labels affixed.

DANGER
CONTAINS ASBESTOS FIBERS
AVOID CREATING DUST
CANCER AND LUNG DISEASE HAZARD

SECTION X – CHALLENGE TESTING (DOP TESTING)

On-site DOP testing shall be required on all equipment using HEPA filters, and certificates shall be provided to the on-site PMP, Inc. project manager.

All equipment shall arrive at the project site visually clean. Units arriving dirty or contaminated shall be removed from the project site until corrections can be made.

SECTION XI - NEGATIVE AIR

The contractor shall ensure that sufficient negative air units are used to create a minimum negative pressure of -0.03 inches until clearance air has been achieved. All negative air machines shall remain sealed when they are not functioning.

SECTION XII - NOTIFICATIONS

The Abatement Contractor must notify Cal/OSHA at least twenty-four hours in advance of disturbing asbestos on this project.

The Abatement Contractor shall notify the Bay Area Air Quality Management District (BAAQMD) of at least 10 working days in advance of disturbing Regulated Asbestos-containing Material (RACM) on this project. The Abatement Contractor is responsible for the submittal of this notice and all costs associated with this submittal. The Abatement Contractor shall ensure that the submittal information is on time and accurate and stays accurate. All costs and penalties for providing false, incorrect, or untimely information shall be the sole responsibility of the contractor.

The contractor must coordinate with the Owner and the Project Monitor for at least one week before starting work. Exact work start times must be communicated to the Project Monitor at least twenty-four hours prior to the start of work or the work will not be allowed to proceed. The Project Monitor and Owner have final authority in determining whether to allow the Abatement Contractor to proceed with the work.

SECTION XIII - TRAINING REQUIREMENTS

13.1 Asbestos

All asbestos work will need to be conducted by US EPA AHERA trained Supervisors and Workers.

13.2 Lead

The lead-based paints and/or coatings should only be handled by CDPH trained workers using lead-safe work practices.

The paints and/or coatings listed as lead containing can be impacted by workers with a minimum 8-hours of lead training specific to the task at hand, using lead-safe work practices.

Workers are required to have a current Blood Lead Level (BLL) test results performed within the previous twelve months.

All workers must have valid medical clearance and fit tests.

Copies of all worker documents must be presented to the onsite representative prior to the start of work.

SECTION XIV - WORKER PROTECTION

Worker protection shall be in accordance with current Cal/OSHA regulations; however, at a minimum, all workers shall wear half-face negative pressure respirators with P100 (HEPA) cartridges.

Tyvek suits or equivalents will be worn for all work impacting asbestos, lead, and other hazardous materials.

Workers should always wear safety glasses and gloves. If gloves or glasses are to be re-used, they shall be HEPA-vacuumed clean.

Street clothes may be worn below tyvek suits for non-friable removal only, but clothing will need to be HEPA-vacuumed clean if suits become ripped or torn during work.

SECTION XV - ABATEMENT METHOD

The contractor shall refer to the attached PMP, Inc. General Requirements for set-up and abatement requirements for specific materials.

In all areas where drywall is removed - contractor is to cut a straight and level line where horizontal edges of remaining drywall are left. All vertical edges of remaining drywall must be cut in a straight line and centered on a stud to facilitate patch back attachment of new drywall.

Composite sampling, which may potentially reduce the total asbestos content of the material, is only permitted when sampling joint compound, tape, and gypsum wallboard according to EPA's

Asbestos NESHAP Clarification Regarding Analysis of Multi-Layered Systems (40 CFR Part 61 FRL-4821-7). For the purposes of this project, all drywall is considered RACM.

Point count samples were collected for the orange peel textured drywall in Building 500, and the results were above 1%. Buildings 700 and 1500 had asbestos found in the texture coat and may not be point counted by regulations.

During removal activities, the Contractor shall protect against contamination of soil, water, plant life, and adjacent building areas, and shall ensure that there is no airborne release of hazardous materials and dusts. The Owner may collect air samples in the building and in adjacent areas to evaluate the Contractor's performance. Evidence of airborne levels of contaminants above background will require the implementation of additional controls at no increase to contract price.

The Contractor shall continuously apply wetting agent throughout the removal process. The wetting agent shall be applied with a low-pressure fine spray to minimize fiber release. The materials shall be thoroughly saturated so that there is no detectable fiber release.

All ACM shall be immediately packaged, sufficiently wet to prevent the release of fibers, in leak-tight containers following removal. To the extent feasible, use of manual methods for ACM removal shall be used, making sure to keep the materials wet and continually misting the air with a liquid sprayer to knock down suspended particulate.

SECTION XVI - PERSONAL AIR SAMPLING

The contractor shall collect personal air samples on workers performing various removal activities during this project.

This sampling shall be in accordance with Cal/OSHA regulations found in Title 8 Section 1532.1 and 1529. The contractor is responsible for providing personal air sample results for this project within 72 hours of sample collection.

SECTION XVII - CLEARANCE AIR SAMPLES

One set of AHERA clearance air samples will be collected from each containment and analyzed in accordance with AHERA protocols prior to work by other contractors.

Transite pipe containments will be cleared by final visual inspection.

SECTION XVIII - DUMPSTERS

The construction dumpsters will be placed inside the construction fencing. The exact location will be determined or discussed at a pre-construction meeting.

Dumpsters will need to be placed on plywood to help prevent damage to concrete.

SECTION XIX - ASBESTOS DISPOSAL

All waste bags shall have visibly damp materials but shall not contain loose water. In the event loose water is discovered within a waste bag, it shall be absorbed with kitty litter, saw dust or similar products prior to the bag being sealed. If opening and re-sealing of bag(s) is required, all work shall be performed inside the negative pressure containment.

All waste shall be double bagged in 6-mil polyethylene bags and sealed in a “gooseneck” fashion.

All drywall and stucco are considered friable and will need to be disposed of as hazardous asbestos waste.

All dust seam tape, sealants, mastics, putty, and transite are classified as a CAT II non friable materials. These materials will be disposed of as non-friable asbestos containing waste. If any of the materials listed above are rendered friable during removal, they will need to be disposed of as hazardous asbestos waste.

Contractor shall provide stick-on labels for bags that meet the Cal/OSHA, NESHAP, and DTSC requirements for hazardous and non-hazardous waste container labeling.

All asbestos waste, hazardous or not, shall be manifested. Non-hazardous waste shall be manifested on a non-hazardous waste manifest.

Ensure that polyethylene bags are evacuated from excess air using a HEPA vacuum and sealed airtight. The exterior of all waste bags and/or containers shall be damp, wiped clean, and

HEPA vacuumed prior to removing them from the equipment decontamination unit.

Ensure all disposal containers are properly labeled according to 8 CCR 1529, 5194 (HAZCOM), 49 CFR 171-179 (USDOT), 40 CFR 61 Subpart M (NESHAP), and any local regulations and state regulations as required by this specification.

SECTION XX – LEAD, HEAVY METALS, ETC. DISPOSAL

The contractor is responsible for characterizing all waste streams prior to disposal. PMP, Inc. will need to receive results 24 hours prior to the waste leaving the site.

The contractor shall notify the district at least 24 hours in advance of when the manifest must be signed. Under no circumstances will the contractor sign the manifest on behalf of the district.

SECTION XXI – BULK PCB, PCB BALLAST, AND MERCURY LIGHT TUBES

Polychlorinated biphenyl (PCB’s) was found in the gray window putty, brown window putty, gray expansion joint sealant, yellow fiberglass on pipe insulation, dark gray expansion joint sealant, yellow fiberglass batt insulation, black expansion joint sealant, and white expansion joint sealant The levels range from 650 µg/kg to 530,000,000 µg/kg. PCBs were added as an unauthorized use into bulk materials such as sealants/caulking, paints/coatings, fiberglass, etc. between 1950 and 1979.

Aroclor 1254 is a PCB mixture which, by definition, contains 54% chlorine by weight. It is considered one of the most toxic commercial PCB mixtures produced, primarily due to the relatively high concentration of dioxin-like congeners.

Typically, the more chlorinated mixtures are more toxic.

Exposure limits to Aroclor 1254 are 0.001 mg/m^3 for the recommended exposure limit and the PEL is 0.5 mg/m^3 time weighted average (skin).

PCB containing materials were found to be directly touching or directly adjacent to porous and non-porous substrates. Non-porous substrates identified onsite were metal window frames. Porous substrates identified were concrete, decorative stucco, and texture coated gypsum wallboard. These substrates were not sampled for PCB content at this time. If the scope changes and they are disturbed as part of this project they will be sampled and addressed in a separate report.

The PCB containing sealants/coatings shall be removed using hand tools such as utility knife, putty knife, scraper, ripping chisel, brush, hammer, and HEPA vacuum. All tools shall be cleaned with acetone or simar product after use.

All concrete; metal, drywall, and/or plaster shall be wiped down with acetone after PCB sealant removal.

Work practices shall comply with suggested approaches for the handling of PCBs as described on the EPA's website at https://www.epa.gov/pcbs/polychlorinated-biphenyls-pcbs-building-materials#Information-Contractors and summarized in the attached *Polychlorinated Biphenyls (PCBs) Summary of Tools and Methods for Caulk Removal.*

Materials that contained PCBs at levels below 50ppm at the time of installation are defined as excluded products and are not subject to the requirements of 40 CFR 761. These materials still must be handled and disposed of properly in a facility permitted to receive PCB contaminated waste above 1 ppm.

Any material containing more than 50 ppm of PCB's outside of electrical transformers are considered an unauthorized use and must be removed, sealed in leak-tight containers, and disposed of as a hazardous waste. These materials are commonly referred to as bulk product wastes (BPW). Substrates in contact with these BPWs may also need to be cleaned or disposed of as PCB-containing remediation waste.

The US EPA has prepared a memorandum titled *PCB Bulk Product Waste Reinterpretation* dated October 24, 2012. This letter allows a building owner that has bulk product waste to dispose of the impacted substrate to be managed and disposed of as bulk product waste.

All disposal of PCB's should meet the EPA requirement under 40 CFR part 761. All PCB waste must have a waste profile/characterization completed prior to disposal. PCB waste and remediation waste removed from the buildings shall be placed directly into waste containers and will be managed in accordance with 40 CFR 761.65(a) and (c)(1).

The waste will be placed in DOT approved drums and stored in a waste container adjacent to the building for no more than 180 days. Storage containers offsite transportation of PCB wastes will be the requirements in 40 CFR 761.65(c)(6). The containers will be labeled consistent with requirements in 40 CFR 761.65(c)(1) and (c)(1)(iii), 40 CFR761.40(a)(1), and applicable state and local requirements.

The labels will clearly show the date when the waste was first generated and placed in containers.

The project team will comply with the record-keeping requirements in 40 CFR 761.180, and all applicable requirements such as manifesting of the PCB waste and notification of PCB activity by the transporter of the PCB waste.

Waste transport containers and any equipment (such as movable equipment, sampling equipment, and tools that contacted the PCB remediation and/or PCB bulk product waste will be decontaminated before reused.

If sampling shows PCB concentrations of >50 PPM all waste will need to be disposed of at a hazardous waste landfill permitted by the EPA under section 3004 of RCRA or by the state authorized under section 3006 of RCRA, or a PCB disposal facility approved under this part. A couple of suggested sites would be US Ecology, Inc. located in Beatty, Nevada and Waste Management Landfill located in Simi Valley, California.

The contractor must dismantle every light fixture to ensure that it does not contain PCB ballast.

All PCB ballast and mercury light tubes must be recycled or disposed of as a universal waste. See the Other Hazardous Materials Requirements for additional information on handling and disposal.

SECTION XXII - FREON

Any freon that will be impacted by the upcoming renovation must be evacuated/captured and recycled by a certified refrigerant recycler per 40 CFR 273.13 (d) (2).

SECTION XXIII - RADIOACTIVE SOURCES

Radioactive tritium containing exit signs, smoke alarms, etc. shall be handled and disposed of properly according to local, state, and federal regulations.

XXIV - PRE-SITE VISITS AND MEETINGS

It’s recommended that contractors bidding on this project attend the pre-bid site visit to measure areas/materials, as contractors are responsible for their own measurements, and determine if factors not addressed in these Specifications may affect their work or price estimates.

SECTION XXV - SILICA

As part of this project, stucco, drywall, and concrete will all be disturbed or removed.

Contractors must handle all cementitious materials in accordance with Cal/OSHA regulation 8 CCR 1530.1, which requires workers to either wear suits and respirators while handling such materials or to collect personal air samples on workers creating a negative exposure assessment (NEA) proving the protective suits and respirators are not necessary.

SECTION XXVI - SUBMITTALS

Section 2.31 includes all required submittals including pre-bid submittals, pre-work submittals, submittals provided during the project, and post submittals required at the end of the project before the project will be deemed fully complete and final payment will be made.
The Abatement Contractor must review the submittal list prior to bidding on this project. There may be more, or different submittals required for this project than expected by the Contractor. The Contractor will not be allowed to begin work until the submittal package has been approved by the Project Monitor. The Contractor will be held responsible for all delays resulting from the failure to provide the required submittals in the time frame stated in this specification.

XXVII - LIQUIDATED DAMAGES
Per District's requirements.

Attachments: General Requirements for Asbestos
General Requirements for Lead
Other Hazardous Materials

Written by: Shannon Johanson
Date: November 6, 2025

Asbestos General Requirements

GENERAL REQUIREMENTS FOR ASBESTOS

SECTION 1. DEFINITIONS

Abatement - Procedures beyond a special operations and maintenance program to control fiber release from asbestos-containing materials. Includes removal, encapsulation, enclosure, repair.

ACGIH - American Conference of Governmental Industrial Hygienists

AHERA - Asbestos Hazard Emergency Response Act (40 CFR 763)

AIHA - American Industrial Hygiene Association

Air Filtration Device - A portable exhaust system equipped with HEPA filtration and capable of maintaining a constant low velocity air flow into contaminated areas from adjacent uncontaminated areas. At a minimum, the air intake for the air filtration device, must have a pre-filter on it which can be changed within the containment area.

Airlock - A system for permitting ingress and egress with minimum air movement between a contaminated area and an uncontaminated area. The airlock shall consist of a minimum of two curtained Z-flap doorways separated by a distance of at least three (3) feet such that one passes through one doorway into the airlock, allowing the doorway sheeting to overlap and close off the opening before proceeding through the second doorway, thereby preventing flow-through contamination.

Air Monitoring - The process of measuring the fiber content of a known volume of air collected during a specific period of time. The procedure normally utilized for asbestos follows the NIOSH Standard Analytical Method for Asbestos in Air Method 7400. For clearance air monitoring, transmission electron microscopy methods may be utilized for detection of smaller fibers and specific fiber identification.

Air Sampling Professional - The professional contracted or employed by the Owner to supervise and/or conduct air monitoring and analysis schemes. The air sampling professional must be a Cal/OSHA Certified Asbestos Consultant or Certified Site Surveillance Technician. This individual shall not be affiliated in any way other with the contractor performing the abatement work.

Ambient Air - The air outside buildings and structures or the air as it normally exists in a space prior to abatement.

Amended Water - Water to which a surfactant has been added.

ANSI - American National Standards Institute

Approval/Acceptance - A written means of approving/accepting a product, containment set-up, work practice. Approval/Acceptance by PMP, Inc. Project Manager may be given verbally, if followed in written format. Failure of PMP, Inc. Project Manager to address an issue either verbally or in writing does not imply Approval/Acceptance.

Asbestos - Means the asbestiform varieties of serpentine (chrysotile), riebeckite (crocidolite), cummingtonite grunerite (amosite), anthophyllite, actinolite, and tremolite.

Asbestos-Containing Construction Material (ACCM) - Cal/OSHA term used to describe construction

materials that contain asbestos in amounts greater than one-tenth of one percent (0.1%) either alone or mixed with fibrous or non-fibrous materials.

Asbestos-Containing Material (ACM) - Term used by Cal/OSHA, and U.S. EPA to include any material containing more than one percent (1%) asbestos. Except for waste issues, for the purposes of this contract the terms ACM and ACCM shall be interchangeable.

Asbestos-Containing Hazardous Waste - Materials defined by the State of California to be packaged, labeled, transported, and disposed of as an asbestos hazardous waste. This includes all friable asbestos-containing material over one percent (1%) asbestos. This also includes all asbestos-containing material containing less than one-percent asbestos for which one or more bulk samples have not been point counted and found to contain less than one percent (1%) asbestos.

Asbestos-Containing Waste Material - Asbestos-containing material or asbestos-contaminated objects requiring disposal.

Asbestos Project Manager - An individual who is qualified by virtue of experience and education, designated as the Owner's representative and responsible for overseeing the asbestos abatement portion of the project. This person is generally the same as the PMP, Inc. Project Manager.

ASTM - American Society for Testing and Materials

Authorized Visitor - The Owner (and any designated representative) and any representative of a regulatory or other agency having jurisdiction over the project.

Bidder - A duly licensed and accredited asbestos contractor who has submitted a bid. If bid walk is mandatory, bidder must attend the walk-in order for bid to be considered responsive.

Cal/OSHA - California Division of Occupational Safety and Health. Acronym of DOSH is interchangeable with this term.

Certified Industrial Hygienist (CIH) - An industrial hygienist certified in Comprehensive Practice by the American Board of Industrial Hygiene.

Cleaning Barriers - Cleaning barriers are used in addition to critical barriers and are primarily to aid in the decontamination of the area after the completion of asbestos removal work. Cleaning barriers are normally comprised of plastic sheeting placed over non-asbestos-containing surfaces (e.g. walls, floors, ceilings, casework, etc.), and asbestos-containing surfaces not scheduled for removal, in the regulated area.

Clean Room - An uncontaminated area or room which is a part of the worker decontamination enclosure system with provisions for storage of workers' street clothes and clean protective equipment. Also, the term includes uncontaminated area or room of a Waste Transfer Airlock.

Competent Person - The Contractor's employee who meets the requirements of and is responsible for the activities of the Competent Person as described in Title 8 CCR 1529. The includes but is not limited to an individual who has current AHERA Contractor/Supervisor accreditation and has the responsibility and authority to ensure that the Contractor's employees comply with the contract documents and all relevant Cal/OSHA regulations.

Containment - The temporary isolation of the work area from the rest of the building to prevent escape of asbestos fibers.

Contractor - The Contractor is the person or entity identified as such in the Contract Documents; references to "Contractor" include the Contractor's authorized representative.

Contractor/Supervisor - A person who successfully completed an initial U.S. EPA and/or state-approved five-day AHERA-accreditation course and who has maintained that training through approved annual refresher training, and possesses current and valid AHERA-accreditation documentation as a AHERA-accredited Contractor/Supervisor

Cal/OSHA Class I, II, III, or IV Work- Work classes described in 8 CCR 1529 that describe different levels of asbestos work.

Critical Barrier - Critical Barriers used to restrict water and air flow. Critical Barriers are the barriers placed over openings in the walls and ceilings of a work area to ensure that airborne fibers cannot escape the work area via these openings. The Contractor will construct impermeable barriers at all exits or openings, including doorways, duct chases, mechanical shafts, elevator shafts, floor openings, drains, and the like, so that all possible exit or entrance routes are effectively barricaded and sealed. Unless otherwise specified in the Contract documents, critical barriers shall be constructed of at least one layer of 6-mil thick poly.

Critical Barrier Negative Pressure Test - Required test for negative pressure with only critical barriers and air filtration units installed. This test must be conducted prior to the installation of cleaning barriers but may be conducted with or without the decontamination unit in place.

Curtained Doorway, Z-Flapped - A device to allow ingress or egress from one room to another while permitting minimal air movement between spaces (such as the various rooms of the decontamination chamber). Each Curtained Doorway will consist of three sheets of poly. The first barrier will be a sheet of poly covering the entire passage and taped to the ceiling, walls, and floor. This sheet will be slit vertically in order for the workers to pass through it. Another sheet of poly will cover the first sheet but be taped only to the ceiling (or top of the first barrier) and down one wall. The third sheet of poly will be placed on the opposite side of the slit poly from the second sheet. The third sheet of poly will be attached in a similar manner as the second sheet except the wall attachment will be to the opposite wall. Each barrier must be weighted at the bottom in order to ensure that it will lay flat against the slit sheet opening should the negative pressure system fail. Please see diagram:

Other designs are permissible, if approved by the PMP, Inc. onsite project manager.

Decontamination Enclosure System - (Also known as Decon or Waste Transfer Decon) A series of connected rooms designed for the decontamination of workers and equipment that is separated from the work area and from each other by z-flapped curtained doorways. This unit shall be constructed with at least two layers of six-mil poly for the floors, walls, and ceiling. The floor of the dirty room shall consist of two layers of six-mil poly plus a third layer of poly, four-mil or thicker, to be used as a removable drop layer. Drop layer is to be removed as needed, but not less than daily. All decontamination enclosure systems used for worker entry and exit shall be equipped with a shower. At no time shall z-flaps of Decontaminations Enclosure System chambers be taped, held or otherwise blocked open.

DOP - Dioctyl phthalate particles which are normally used as an agent for testing the efficiency of HEPA filters.

Demolition - The wrecking or taking out of any load-supporting structural member, casework, items or surfaces of a facility together with any related handling operations and disposal.

Dust or Debris - Material visible to the PMP, Inc. Project Manager. Dust and debris may be contaminated with asbestos, and may affect the asbestos work practices, containment or clearance air samples required on this project, whether contaminated with asbestos or not.

Encapsulant, Bridging/Penetrating - A liquid material which can be applied to asbestos-containing material to control the possible release of asbestos fibers from a material either by creating a membrane over the surface (bridging encapsulant) or by penetrating the material and binding its components together (penetrating encapsulant).

Encapsulant, Lock-down - A liquid product designed to mist the air within a contained area after the containment has passed visual clearance by the PMP, Inc. Project Manager. Lock-down encapsulant is designed to bind asbestos fibers together and to create a tacky surface causing non-visible asbestos fibers, settling out of the air, to adhere to containment poly.

U.S. EPA - U.S. Environmental Protection Agency

Equipment Decontamination Enclosure System - That portion of a decontamination enclosure system designed for controlled transfer of materials and equipment into or out of the work area, consisting of a clean room, washroom and holding area.

Equipment Room - A contaminated area or room which is part of the worker/equipment decontamination enclosure system with provisions for storage of contaminated clothing and equipment.

Exterior of Containment HEPA Filtered Pressure Differential Unit - An air-purifying unit positioned outside, rather than inside the regulated work area. The face, or filter portion of the unit is integrated within the work area, and the remainder of the unit (housing, wheels, rivets, control panel, etc.) is located outside of the work area. This allows filters on the air intake to be changed from within the regulated area but access to the machine itself is available to those outside the area. Pressure differential units which pass DOP testing across the HEPA filter, but fail at rivets, control panels, wheels, etc. may be used in this fashion as long as the failure point of the unit can remain on the exterior of containment while the face of the unit and filters are inside containment.

Facility - Any institutional, commercial, or industrial structure, installation, or building.

Facility Component - Any item (pipe, duct, boiler, tank, reactor, turbine, furnace, etc.) at or in a facility, any portion of a facility or any structural member in or at a facility.

Federal OSHA or OSHA - Federal Occupational Safety and Health Administration.

Fixed object - A piece of equipment or furniture in the work area which cannot be removed, or will not be removed by Owner’s decision, from the work area.

Friable asbestos - Asbestos-containing material which, when dry, can be crumbled to dust by hand pressure.

Glovebag Technique - A method with limited applications for removing small amounts of friable asbestos-containing materials from ducts, short piping runs, valves, joints, elbows, and other non-

planar surfaces. The glovebag assembly is a manufactured or fabricated device consisting of a glovebag (typically constructed of 6 mil transparent polyethylene or polyvinylchloride plastic), two inward projecting long sleeves, an internal tool pouch, and an attached, labeled receptacle for asbestos waste. The glovebag is constructed and installed in such a manner that it surrounds the object or material to be removed and contains all asbestos fibers released during the process. Glovebags must meet the specification requirements for glovebags as listed in 8 CCR 1529. All workers who are permitted to use the glovebag technique must be highly trained, experienced, and skilled in this method. All techniques and procedures employed by the contractor shall be approved by the PMP, Inc. Project Manager.

HVAC - Heating, ventilation, and air conditioning system.

HEPA Filter - A high efficiency particulate air filter capable of removing particles 0.3 microns in diameter from an air stream with 99.97% efficiency.

HEPA Vacuum - A vacuum system equipped with HEPA filtration.

PMP Project Manager - An individual, employed by (or subcontracted to) PMP Environmental Consulting, Inc., who is qualified by virtue of experience and education, designated as the Owner's representative and responsible for overseeing the asbestos abatement, and/or other activities.

Holding Area - A clean space where clean supplies and equipment are stored before being placed into containment. Also, a contaminated space, adjacent to a shower or equipment washing chamber, where dirty equipment or packaged waste is stored prior to removal from containment.

Lock-down - To mist the air and to wet surfaces with an agent designed to bind asbestos fibers together and to create a tacky surface causing non-visible asbestos fibers, settling out of the air, to adhere to containment poly.

Magnehelic Gauge - Instrument for measuring the static air-pressure differential across a barrier.

Manometer - See "Magnehelic gauge". This project requires at least one properly calibrated and fully functioning recording manometer.

Mil - An abbreviation for millimeter. Generally used when referring to the thickness of plastic (poly) sheeting used to contain the regulated area.

Mini-Enclosures - Mini-enclosures may be used where glovebag setups are not feasible. The use of them must be approved by the PMP, Inc. Project Manager. Mini-enclosures shall be constructed of six-mil polyethylene (attached with tape and/or glue to walls and floors) and shall be small enough for a maximum of two workers who can enter the enclosure one time, complete the abatement exercise, pass out the containerized debris and exit. The workers shall have available a change room contiguous to the work area where they can remove their coveralls prior to leaving the area.

Monitoring - May include:
a) Visual inspection for the presence of visible emissions; or
b) Air monitoring performed in accordance with accepted methods.
c) Collecting core samples of encapsulated or bridged materials.
d) Collecting other bulk samples during and following abatement.
e) Sampling substrata following abatement.

Inspection of abatement contractor's, and contractor's employees, work practices for compliance to these and other specifications and applicable regulations.

NVLAP - National Voluntary Laboratory Accreditation Program.

NESHAP - The National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61, Nov. 20, 1990)

NIOSH - The National Institute for Occupational Safety and Health

Owner - The Owner includes the individual or entity that owns the property and, unless otherwise stated, the Owner's authorized representatives, including the PMP, Inc. Project Manager, the Owner's Board of Trustees and the Owner's officers, employees, agents and representatives.

PCM - Phase contrast microscopy according to NIOSH Method 7400A.

Poly - Polyethylene sheeting.

Pre-start Meeting - Meeting held before the beginning of the project in which final details of the project are discussed and Contractor provides Project Monitor with pre-job submittal packet.

Regulated Area - An area established by a contractor to demarcate areas where the contractor's employees may conduct Class 1, 2, or 3 work as described in 8 CCR 1529 or airborne concentrations of asbestos exceed, or there is a reasonable possibility they may exceed, the permissible exposure limit. Additionally, "regulated area" means any measure used to restrict access to an area where personnel impacting asbestos-containing materials are required to wear respiratory protection and/or protective clothing by the project specifications, or applicable regulations, regardless of airborne asbestos concentration levels.

Regulations - shall include all relevant federal, state, and local regulations including but not limited to:

a. U.S. Environmental Protection Agency Regulations for Asbestos (Title 40, Code of Federal Regulations, Part 61, Subparts A & B)
b. Title 8, Chapter 4, Subchapters 1 through 21, California Administrative Code, General Industry Safety orders, Section 5208 "Asbestos" or the applicable sections of the Federal Asbestos Regulations. Cal/OSHA Construction Safety Orders, Section 1529.
c. "Asbestos Hazard Emergency Response Act", U. S. Environmental Protection Agency, 40 CFR, Part 763. Final Rule and Notice.
d. Applicable local county Air Pollution Control District and Air Quality Management District or other local NESHAPs Enforcement.

Removal - The stripping of any asbestos-containing materials from surfaces, substrates, or components of a facility. As per various regulations, the ground is considered a substrate.

Renovation - Altering in any way one or more facility components.

Scope of Work - Job specific information and specifications used in combination with these Asbestos General Requirements. If conflicts exist between the Scope of Work and these specifications, the stricter requirement will be enforced unless the conflict is specifically addressed in writing in the Scope of Work for this project.

Shower Room - A room between the clean room and the equipment room in the decontamination enclosure with hot and cold or warm running water controllable at the tap and suitably arranged for complete showering during decontamination. The shower room must be equipped with an overflow pan to contain water splashed, leaked, or spilled out of the shower unit.

Staging Area - The secured area outside of containment where clean equipment and supplies are stored. Waste must not be stored within the staging area unless placed within an additional lockable container or area approved by the PMP, Inc. Project Manager.

Strip - To take off friable asbestos materials from any part of a facility.

Structural Member - Any load-supporting member of a facility, such as beams and load-supporting walls or any non-load-supporting member, such as ceilings and non-load supporting walls.

Submittals - Pre, in-progress and post job documents submitted by contractor to Owner's representative as indicated in General Requirements and Bidding Requirements.

Surfactant - A chemical wetting agent added to water to improve penetration.

TEM - Transmission Electron Microscopy according to AHERA specifications for Level II analysis on all AHERA projects. Non-AHERA projects may employ other levels of TEM analysis.

Visible Emissions - Any emissions, whether containing particulate asbestos material or not, that are visually detectable without the aid of instruments. This does not include condensed uncombined water vapor.

Waste Load-out/Transfer System - A decontamination system utilized for transferring containerized waste from inside to outside of the work area. A series of three connected rooms used for the load-out of asbestos-containing materials that have been properly containerized. The waste loadout chamber system shall normally consist of three connected chambers adjacent to the work area. Each chamber shall be constructed with at least two layers of six-mil thick poly for the floors, walls, and ceiling. The chamber located closest to the work area is known as the dirty chamber, and in addition to the two layers of six-mil thick poly on the floor, shall also have a third layer of poly, four-mil or thicker, to be used as a removable drop layer. The drop layer is to be removed as needed but at least daily. The chamber located closest to the outside the work area is known as the clean chamber. See Section 15 for proper use of waste Load-out/Transfer System.

Wet cleaning - The process of eliminating asbestos contamination and visible dust and debris from building surfaces and objects by using cloths, mops, or other utensils which have been dampened with water and afterwards thoroughly decontaminating them or disposing of them as asbestos contaminated waste.

Work area - Designated rooms, spaces, or areas of the project in which asbestos abatement actions are to be undertaken or which may become contaminated as a result of such abatement actions. A contained work area or temporary enclosure is a work area that is isolated from the rest of the facility using critical barriers and cleaning barriers, a decontamination system, and additional means of signs and barriers to reduce access by unauthorized persons. The work area includes all decontamination chambers, waste transfer system and the abatement area. A non-contained work area is an isolated or controlled-access work area which has not had poly installed nor been equipped with a

decontamination enclosure system.

Worker - A person who successfully completed an initial U.S. EPA and/or state-approved four-day AHERA-accreditation course and who has maintained that training through approved annual refresher training, and possesses current and valid AHERA-accreditation documentation as a AHERA-accredited asbestos worker.

SECTION 2. NOTIFICATIONS, SUBMISSIONS, POSTINGS
2.1 Site Investigations

By submitting a bid to the primary contractor, and being listed by the primary contractor as the sub-contractor for asbestos related work, the asbestos abatement contractor acknowledges that they have investigated and satisfied themselves as to:

A) the conditions affecting the work, including but not limited to, physical conditions of the site which may bear upon site access, handling, and storage of tools and materials, access to water, electric, or other utilities, or otherwise affect performance of required activities

B) the character and quality of all surface and subsurface materials or obstacles to be encountered, in so far as, this information is reasonably ascertainable from an inspection of the site, including exploratory work done by the owner or a designated consultant, as well as information presented in drawings and specifications included with this contract. Any failure by the asbestos abatement contractor to acquaint themselves with available information will not relieve them from the responsibility for estimating properly the difficulty or cost of successfully performing the work. The Owner is not responsible for any conclusions or interpretations made by the asbestos abatement contractor based on the information made available by the Owner.

2.2 Notification

Prior to commencement of work the Contractor shall send notices of the work to be completed to the agencies listed below with a copy of each to be provided to the Owner or its representative at the pre-start meeting.

For compliance with 40 CFR part 61.146 of Subpart M, send notice at least ten (10) working days prior to start of work to all of the following appropriate agencies:

EPA, Region 9 Asbestos Program Enforcement 75 Hawthorne Street San Francisco, CA 94105	Chief Compliance Division California Air Resources Board P.O. Box 2815 Sacramento, CA 95812 (For non-EPA delegated counties)
Local Air Pollution Control District (APCD) or Local Air Quality Management District (AQMD)	

For compliance with 8 CCR 1529 and 8 CCR 5203, send written notice at least one day prior to start of work to:

State of California
Department of Occupational Safety and Health
District Office

These notices shall include, at a minimum, the name and address of the contractor, the name and address of the worksite, the type of work to be done including the percent asbestos content of the material, the methods used to prevent migration of the fibers, personal protective measures, the number of his workers involved, any union representation of the workers and the methods of disposal

including the names and EPA numbers of both the certified hauler and the waste disposal site. The notices shall also include start and finish dates. Changes in start and completion dates shall be reported immediately to the proper agency. Use forms provided by agency whenever possible.

2.31a Prestart Submittals - Contractor

A. Contractor shall provide a copy of the notification for NESHAP compliance along with a receipt of fees paid.

B. Contractor shall provide a copy of the notification for Cal/OSHA compliance along with the fax confirmation receipt.

C. Contractor Notification to Local Hospital, Police, and Fire Department

D. Contractor shall provide a copy of their active CSLB License with Asbestos Certification.

E. Contractor shall provide a copy of their active Cal/OSHA (DOSH) registration.

F. The asbestos abatement contractor shall submit a statement, signed by an officer of the company, containing the following information:

1. A record of any citations issued by Federal, State, or Local regulatory agencies within the last 3 years, relating to asbestos abatement activity. Include projects, dates, and resolutions.

2. A list of penalties incurred through non-compliance with asbestos abatement project specifications, including liquidated damages, overruns in scheduled time limitations, and resolutions.

3. Situations in which an asbestos-related contract has been terminated including projects, dates, and reasons for terminations.

G. Submit copies of insurance certificates which meet requirements as outlined below:

Contractor shall purchase and maintain insurance that will protect them from claims that may arise out of or result from the activities under this Contract, whether those activities are performed by the asbestos abatement contractor, by any subcontractor, or by anyone directly or indirectly employed by any of them or by anyone for whose acts any of them may be liable.

Contractor shall submit proof of coverage for the asbestos abatement contractor and subcontractors under the Worker's Compensation insurance system of the State of California or other similar benefit acts.

Contractor shall submit a certificate of general liability insurance protecting against liability for bodily injury and property damage arising from the asbestos abatement contractor’s activities under this contract.

Such certificate of insurance must contain the following provisions:

(a) The limit of liability shall not be less than $1,000,000.00 per occurrence for bodily injury and property damage liability combined.

(b) The Owner, Owner's Agents, and PMP Environmental Consulting, Inc. (PMP, Inc.) must be named as additional insured, but only in respect to liability arising or resulting from activities under this contract.

(c) In the event of cancellation of the insurance policy, the Owner and PMP, Inc. shall be given thirty days advance written notice.

(d) The insurance certificate must state that the insurance includes liability coverage for asbestos abatement work.

H. Submit proof satisfactory to the Owner that required permits have been acquired applicable to the project being performed and specific to the project site and location. If no city, county, or other permits for parking, waste bin location, or variances for scheduled work hours are required, this should be stated in writing and submitted to the Owner.

I. Submit Subcontractors information or statement that subcontractors will not be required or used during this project. This statement should also include that if it becomes necessary to use a subcontractor during this project that the subcontractor will not be allowed to perform work until all required documentation has been submitted for review by the Owner or PMP, Inc., and the Contractor receives written approval for use of the subcontractor on this project.

J. Submit a complete list of all rented equipment, or equipment expected to be rented from an outside contractor for use in "Regulated Areas," "Work Areas," or "Containments," where the equipment may be exposed to elevated levels of airborne asbestos. If no equipment is to be rented a statement should be submitted stating, no rental equipment will be used on the project. The statement should also include that, if it becomes necessary to use rented equipment, written statements from each rental company will be provided to the Owner prior to its use, indicating the rental company's acknowledgment that the equipment is provided for and may be used in areas where airborne levels of asbestos may be present.

K. Submit emergency and non-emergency telephone numbers for the appropriate Police, Hospital, and Fire Departments. This list of numbers shall also include the name, pager or cell phone numbers of the onsite supervisor and his immediate company supervisor.

L. Submit detailed written directions from the project site to the medical facility to be used in case of an emergency. Also include a map which sufficiently shows the route to be taken from the site to the designated medical facility.

M. Submit written emergency procedures pertinent to the work to be performed and which can be implemented by site personnel if the need arises.

N. Submit detailed information on preparation of work area, personal protective equipment, employee experience, training and assigned responsibilities during the project. Also list decontamination procedures for personnel, work area and equipment, abatement methods and procedures, required air monitoring program, procedures for handling and disposing of waste materials and procedures for final decontamination and cleanup.

O. Submit a detailed work schedule. The schedule shall have, as a minimum, the work area and the day/month for beginning and terminating work in each work area. During progress of work, it shall be the Contractor's responsibility to keep the schedule current and up to date.

P. Submit to the Owner shop drawings, on projects where requested in the Scope of Work, for

layout and construction of decontamination enclosure systems and barriers for isolation of the work area as detailed in this specification and required by applicable regulations.

Q. Submit Safety Data Sheets (SDS) for all applicable materials, supplies, etc. These documents must be legible and completely reveal information required to be communicated to the Contractor's employees, visitors, and Owner Representatives.

R. Submit manufacturers' certifications that high efficiency particulate air (HEPA) vacuums, pressure differential units and other local exhaust ventilation equipment conform to ANSI Z9.2-79.

Submit manufacturer's documentation pertaining to the capability of wastewater filters to filter particles of 1.0 micron in size.

S. Submit name of laboratory/person to be used for Phase Contrast Microscopy (PCM) analysis and copy of current NVLAP Certificate of Accreditation (if applicable), and most recent NIOSH Proficiency Analytical Testing Program results.

T. Submit a written statement that OSHA monitoring will be performed for all asbestos-related activities performed during this project. This statement must be on company letterhead, dated, include name of the site or project being worked on, and signed by an authorized agent of the company performing the asbestos-related work.

U. Submit a copy of the Contractor's Injury and Illness Prevention Program

V. Submit a copy of written Respiratory Protection Program

2.31b Pre-Start Submittals-Contractor Waste Documentation

Section 7, C. Submit copy of waste transporters Department of Toxic Substances Control, Hazardous Waste Transporter Registration if hazardous asbestos-containing waste is to be removed during the project. If hazardous asbestos-containing waste will not be generated submit the name, address, and registration information for the waste hauler to be used for transporting the waste.

Section 7, D. Submit documentation listing the name and site address of the waste facility designated to receive asbestos-containing waste generated during this project. This documentation shall also include the EPA identification number, and a copy of the current permit authorizing the waste facility to accept and dispose of asbestos-containing waste.

2.31c Pre-Start Submittals-Worker Certifications (Section 5, Letter B)

Submit documentation satisfactory to the Owner that the Contractor's employees, including foremen, supervisor, and any other company personnel or agents who may be exposed to airborne asbestos fibers or who may be responsible for any aspects of abatement activities, have received required US EPA AHERA training.

Submit documentation from physician that all employees or agents who may be exposed to airborne asbestos more than background levels, action level, or the PEL have been provided with an opportunity to be medically monitored to determine whether they are physically capable of working while wearing the respirator required without suffering adverse health effects. In addition, document that personnel have received medical monitoring as required by Cal/OSHA regulations. The Contractor must be aware of and provide information to the examining physician about unusual

conditions in the workplace environment (e.g., high temperatures, humidity, chemical contaminants) that may impact on the employee's ability to perform work activities.

Submit documentation of respirator fit-testing for all Contractor employees and agents who must enter any work area where asbestos-containing materials may or will be impacted. This fit testing shall be in accordance with qualitative or quantitative procedures as required by OSHA regulations or be quantitative in nature. Documentation pertaining to NIOSH approvals for all respiratory protective devices utilized on site shall also be included.

Submit each of the following and other pre-abatement documents required above, unless exempted in the scope of work or the bidding requirements, prior to the start of abatement. This list is to be used a checklist only and specific requirements are outlined in Sections 2.31a, b, and c of the General Requirements.

2.31a Checklist

A. _____ Notification to Regional Air Resource Board, Regional EPA, or local APCD/AQMD

B. _____ Notification to CAL/OSHA (prior to start)

C. _____ State Contractor's license with asbestos certification

D. _____ Contractor Cal/OSHA Registration

E. _____ Notification of Prior Environmental Citations/Legal Proceedings/Contract Termination

F. _____ Insurance Certificate

a) General liability
b) Asbestos liability certificate
c) Automobile Insurance
d) Workers' compensation insurance

G. _____ Names of all Subcontractors, license numbers and copies of general liability insurance with a minimum coverage of $1,000,000.00. Client & PMP, Inc. named as additional insured.

H. _____ Emergency and non-emergency phone list

I. _____ Written Directions/Map to nearest Hospital

J. _____ Project Schedules

K. _____ Contractor Map/Drawings for Containment Setup

L. _____ Safety Data Sheets

M. _____ Manufacturers' Equipment Specification Sheets

N. _____ Contractor OSHA Air Monitoring Statement listing the laboratory used for air sample analysis

O. _____ Contractor Injury and Illness Prevention Program

P. _____ Contractor Written Respiratory Program

2.31b Checklist

_____ Name and telephone number of transporter

_____ Name and EPA number of Waste Sites

2.31c Checklist

_____ Training records - AHERA (Supervisor and worker) *

_____ Respiratory fit tests for each employee*

_____ Medical records for each employee*

Note *No contractor worker will be allowed inside containment prior to verification of AHERA, respirator and medical documentation. This verification must either be onsite or faxed to PMP, Inc.'s office prior to entry.

2.32 Pre-start Submittals - Owner

Owner shall provide to the Contractor prior to commencement of work:

a. Any available pre-abatement air sampling data to Contractor.

b. List of Owner's employees/agents who will or may require worksite access.

c. Data on equipment access protection and/or shutdown procedures.

2.4 Submittals During the Work Process

The following documentation shall be submitted to the PMP, Inc. Project Manager:

A. The contractor shall submit daily- a copy of the worker roster identifying all employees onsite and the hours worked.

B. The contractor shall submit daily - a copy of a one-page summary of job progress. This summary must include a brief description of the work completed at the site(s), number of employees, and any issues that arose. This summary is in addition to the daily documentation required to be submitted by OSHA and AHERA regulations and other PMP, Inc. specifications.

C. The contractor shall submit daily - copies of work site entry/exit logbooks with information on worker and visitor access.

D. The contractor shall submit daily - copies of the air-differential manometer readings
The contractor shall submit results of air sampling data collected during the course of the abatement including OSHA compliance air monitoring results. Contractor shall submit sample results within 72 hours of collection of the samples for samples to be considered valid indicators of employee exposures within containment. Lack of valid exposure assessments may, at PMP, Inc. Project Manager's discretion, result in the contractor being required to raise worker personal protection levels.

E. Submit weekly copy of on-site safety meeting documentation. Each safety meeting must be signed by all employees working on the project for that week.

G. Proof of DOP or equivalent (Challenge) testing of HEPA-filtered units

H. Contractor shall submit copies of any Regulatory Agency Inspection/Enforcement Documents

I. Accident Report Forms

J. Other Contract Documents as required by Scope of Work

K. Construction Meeting Minutes

2.41 Submittals During the Work Process-Waste Disposal (Section 7)

A. The contractor shall submit copies of all transport manifests, Land Ban Certifications, trip tickets, weights, and disposal receipts for all asbestos hazardous waste materials.

B. The contractor shall submit copies of all transport manifests, trip tickets, weights, and disposal receipts for all asbestos non-hazardous waste materials.

2.5 Clean-Room Area Postings

Postings may be in a prominent area adjacent to the clean room but must be visible to workers entering and exiting the containment.

List of persons authorized to enter restricted area. The list shall include, among others, the following names with addresses and phone numbers:

Contractor	Testing Laboratory
Air-sampling Professional	Owner's representatives
Asbestos Project Manager	Any other designated by the Owner
Regulatory Agency Personnel	

A copy of the daily entry/exit logbook shall be maintained in the clean room area of the worker decontamination system and provided to the PMP, Inc. Project Manager weekly or as otherwise requested.

Telephone numbers, other than 911 of all emergency response personnel shall be prominently posted in the clean change area and equipment room. The locations of the nearest telephones shall be indicated on a map or diagram.

Written emergency procedures shall be posted in the clean room.

Written entry/exit procedures shall be posted in the clean room and equipment room. (See Section 9)

All the contractor's personnel and area air sampling results shall be posted in the clean room area within 72 hours of collection, unless otherwise noted.

A copy of the CAL-OSHA and EPA or Local APCD notification shall be posted in the clean room area.

A CAL-OSHA Information poster and a CAL-OSHA Construction Site poster shall be posted in the clean room area.

Copies of Safety Data Sheets (SDS) for all materials onsite shall be posted in the clean room area. Bag out/load out/waste transfer procedures must be listed in writing at the load out exit.

A copy of the contractor's written Respiratory Protection Program shall be posted in the clean room.

2.6 Job Site Documents

The following shall be available at each job site:

1. List of all AHERA-accredited workers and supervisors entering the regulated area.
2. An updated list of all contractor and subcontractor employees who have worked on this job.
3. All contract specifications, Scope of Work, addendums, change orders, etc.. Contractor competent person must sign a document stating he has full knowledge of the Scope of Work and contract specifications.
4. Written Injury and Illness Prevention Program.
5. Training records.
6. Medical records.
7. Written Respiratory Protection Program
   Fit test records for all contractor employees

2.7 Project Close-out Documentation and Submittals

The Contractor shall generate a demolition "as built" drawing detailing all walls, floors, ceilings, mechanical items, plumbing, wiring and structural components which were removed, to what extent each of these items was removed (e.g. entire wall demolished from floor to ceiling), and in what areas. The contractor must provide this drawing to the Owner and PMP, Inc. at the conclusion of the interior asbestos abatement activities when required in the Scope of Work or requested by PMP, Inc. or Owner. Digital pictures of remaining conditions would be helpful but are not required.

Unless submitted during the project, the Contractor shall submit the following post-job submittals to the Owner within thirty (30) days of the completion of asbestos abatement work.

_____ Copies of revised notifications to regulatory agencies.

_____ A copy of the worker/visitor log showing the following for all persons entering the work area: date, name, social security number, entering and leaving times, company or agency represented, and reason for entry. The contractor's time records will not be accepted in lieu of a worker/visitor log. Include a signed cover sheet certifying that the copy is a complete copy of the log from the job.

_____ Copies of all accident reports submitted during the course of work.

_____ A copy of worker exposure monitoring results collected in compliance with Cal/OSHA regulations (Title 8 CCR, Section 1529) including daily/representative/full-shift/breathing-zone air samples and 30-minute excursion samples. Include a cover sheet signed by an authorized representative of the testing laboratory performing the work, indicating that the data is complete and accurate.

_____ If applicable, a copy of the asbestos waste documentation showing dates, times, manifest numbers, quantities of wastes, types of containers removed from the work area, the hauler, and the signature of the recorder.

_____ A Land Disposal Restrictions Notification and Certification.

_____ Completed Uniform Hazardous Waste and Non-Hazardous Wasteforms including information required for the Waste Shipment Record.

_____ A complete record of the air filtration devices used certifying DOP testing (if performed) and printed record, indicating continuous operation, and documenting differential air pressure.

_____ All submittals required before, during, or after the project that have not been submitted must be received by PMP, Inc. prior to PMP, Inc. signing off on contractors' final payment or pay retention release.

_____ Copies of Prevailing Wage Certification Records (unless project is not a prevailing wage project)

SECTION 3. SITE SECURITY

The regulated area shall be restricted to authorized, trained personnel wearing appropriate personal protective equipment.

If required in the Scope of Work and whenever an entire building is placed under containment, the work area(s) under construction must be isolated from the remainder of the property and/or adjacent properties with temporary chain link fencing. This fencing does not eliminate or reduce plywood barrier requirements for any portion of containment that exists on exteriors of buildings. Temporary fencing must be supported at least once every section of fencing by concrete block or equivalent.

Unless exempted in the Scope of Work any portion of containment on the exterior of the buildings must be protected by a burglar resistant, lockable plywood structure. This structure must have a roof and be at least 8 feet tall. This plywood barrier must be solid plywood and be constructed in a manner sufficient to withstand expected weather conditions (i.e. wind, rain, etc.). A soffit overhang may be used for the roof of this structure, barrier walls must extend completely up to soffit overhang ceiling.

Entry into the work area by unauthorized individuals shall be reported immediately to the Owner by the Contractor.

A logbook shall be maintained in the clean room area of the worker decontamination system. Anyone who enters the work areas must record name, affiliation, time in, and time out for each entry. A copy of the daily log shall be provided to the PMP, Inc. Project Manager daily or as otherwise requested.

Access to the work area shall be through a worker decontamination system. All other means of access (doors, windows, hallways, etc.) shall be blocked or locked to prevent entry to or exit from the work area. The only exceptions for this rule are the waste loadout airlock, and emergency exits in case of fire or accident.

Emergency exits shall NOT be locked; however, they shall be sealed with polyethylene sheeting and tape until needed. These emergency exits shall be clearly designated. They shall also have a razor knife permanently in place to facilitate emergency exit.

Contractor should have control of site security during abatement operations, in order to protect work efforts and equipment. During off-hours access to the abatement area shall be restricted by a lockable entry.

Storage of asbestos containing debris, hazardous or not, will be such that access to it is limited to the contractor. Lockable bins shall be utilized, and they shall be locked at all times except when loading occurs. No soft covers will be allowed for any storage bins.

All Owner policies and procedures regarding site security and safety shall be strictly adhered to by the Contractor.

Keys and/or lock combinations to all lockable enclosures and waste bins must be provided to the PMP, Inc. Project Manager prior to the start of abatement.

SECTION 4. EMERGENCY PLANNING

Emergency planning and procedures shall be developed by the Contractor prior to abatement initiation and agreed to by Contractor and Owner.

Emergency procedures shall be established and presented to all employees and the PMP, Inc. Project Manager prior to the beginning of any work. A written emergency plan must be posted.

Emergency planning shall include written notification of police, fire, and emergency medical personnel of planned abatement activities, work schedule and layout of work area, particularly barriers that may affect response capabilities. Emergency planning shall include considerations of fire, explosion, toxic atmospheres, electrical hazards, slips, trips and falls, and heat related injury. A copy of the written Injury and Illness Prevention Program shall be on the work site.

Employees shall be trained in evacuation procedures in the event of workplace emergencies. Telephone numbers of all emergency response personnel shall be prominently posted in the clean change area and equipment room, along with the locations of the nearest telephone indicated on a map or diagram.

At least two fire extinguishers shall be present on site. At least one fire extinguisher shall be present outside of the containment and at least one fire extinguisher shall be present inside containment. Additional extinguishers shall be distributed according to Cal/OSHA requirements or as identified in the Scope of Work.

An emergency blast horn shall be placed inside of any containment comprising more than a single building space for emergency evacuation in the event of a fire or other emergency.

If required in the Scope of Work, a means of radio communication shall be established between inside and outside of containment whenever a containment has a section(s) not directly visible from a clear-sight view window. This requirement may be met through walkie talkies or by wired communication systems. PMP, Inc. project monitor is to be given a communication device tied into communication system used by the contractor's crew.

The contractor shall clearly mark emergency egress routes in brightly colored spray paint, tape, or equivalent, within the containment area. When required by the specification, or deemed necessary by the PMP, Inc. Project Manager, the contractor shall station flashlights throughout the work area to be used in the advent of an electrical power outage. Tools that can be used to cut containment poly must be placed at each emergency egress location.

Emergency exit signs, and arrows painted, taped, or otherwise marked shall be located approximately three feet from the floor level. This will make signs visible for standing workers as well as workers required to crawl to emergency egress location.

In the event of a power and/or water interruption all abatement work, other than cleanup of debris on the ground, is to stop. Work disturbing asbestos cannot continue until the power and/or water is restored, or the Project Manager authorizes emergency procedures

During hot working conditions, such as in an attic space during summer, or in containments where live steam or hot water lines are exposed, special attention must be given to the possibility of heat stress and burns.

In the case of fire, or other life-threatening situations, all decontamination requirements are null and void. Immediate preservation of life takes precedence over decontamination requirements.

If emergency personnel (fire, police, paramedics, etc.) are called to the project site, they must be informed of the fact that the project is an asbestos abatement project and whether containment has been established and/or breeched.

SECTION 5. PRE-START MEETING (See also Section 2)

The successful Bidder, his on-site supervisory personnel, and Air Sampling Professional (if applicable), representatives of the Owner, Owner's Asbestos Project Manager, and other individuals as necessary shall be present at a pre-start meeting TIME AND PLACE AS NOTED IN THE SCOPE OF WORK OR TO BE DETERMINED.

Responsibility for notification of building occupants regarding impending activity shall be determined at this meeting.

At this meeting the Contractor shall provide all required submittals, as indicated in Section 2, Part 2.31a, b, and c.

The Contractor's supervisory personnel must be given a complete copy of the Scope of Work and attached abatement specifications (including these Asbestos General Requirements) and must be familiar with them prior to the pre-start meeting. Delays caused by an onsite contractor foreman not being familiar with the requirements of these specifications will not extend the Contractor's completion date.

In addition, contractor shall be prepared to provide detailed information on preparation of work area, personal protective equipment, employee experience, training and assigned responsibilities during the project. Contractor must also be prepared to discuss decontamination procedures for personnel, work area and equipment, abatement methods and procedures, required air monitoring program, procedures for handling and disposing of waste materials and procedures for final decontamination and cleanup. A sequence of work and performance schedule, procedures for dealing with heat stress and emergency procedures shall also be submitted.

If applicable, a detailed work-area-by-work-area schedule must be submitted at this time. The schedule shall have, at a minimum, the work area and the day/month for beginning and terminating work in each work area. During progress of work, it shall be the contractor's responsibility to keep the schedule current and up to date.

SECTION 6. MATERIALS AND EQUIPMENT

6.1 Contractor Equipment and Supplies

Deliver all consumable materials in the original packages, containers or bundles bearing the name of the manufacturer and brand name (where applicable). These must be approved by the Owner. Polyethylene (Poly) sheeting, 4-mil thick for walls and 6-mil thick for floors and all other uses, shall be provided in widths selected to minimize the frequency of joints.

All poly shall be flame-retardant, fire-rated poly. This includes all poly used for decon setups whether or not they are erected inside of the building.

Polyethylene sheeting utilized for worker decontamination enclosure shall be opaque white or black in color and each layer shall be a minimum of 6-mil thick. At least two layers shall be required. Modesty barriers are to be erected whenever and wherever the PMP, Inc. Project Manager determines one is needed.

Disposal bags shall be of 6-mil polyethylene with labels required by OSHA, DOT, Department of Toxic Substance Control regulations.

Disposal drums shall be metal or fiber board with locking ring tops to be used only if required and/or allowed by selected dumpsite.

Stick-on labels as per DOHS and OSHA requirements for disposal drums shall be provided.

Warning signs as required by OSHA shall be provided and posted per regulations.

Surfactant (wetting agent) shall be a 50/50 mixture of polyoxyethylene ether and polyoxethylene ester or equivalent, mixed, and used according to the manufacturer's directions.

A sufficient number of pressure differential units equipped with HEPA filtration and operated in accordance with ANSI Z9.2-79 and EPA guidance document EPA 560/5-83-002 Guidance for Controlling Friable Asbestos-Containing Materials in Buildings, Appendix F: Recommended Specifications and Operating Procedures for the Use of Negative Pressure Systems for Asbestos Abatement, shall be utilized so as to meet the requirements of Section 12 of this specification.

All HEPA filtration equipment must be tested with DOP or an equivalent testing agent (see Section 12).

The contractor will provide adequate number of respirators for the work force. These respirators will include, when specified:

a. Full face piece supplied air respirators with HEPA-filtered disconnects operated in positive pressure or pressure demand mode.
b. Full face piece, tight-fitting, powered air-purifying respirators with HEPA-filters,
c. Half mask or full-face respirators with HEPA filters.

All respirators shall be NIOSH-approved and be equipped with supplies for immediate replacement of defective parts.

Contractor shall provide full-body disposable protective clothing, including head, body, and foot coverings, such as Tyvek, or equivalent, to all workers and authorized visitors in sizes adequate to accommodate movement without tearing. No street clothes, unless excepted by Scope of Work or other portions of this specification are allowed to be worn under disposable protective clothing.

The Contractor shall provide additional safety equipment (e.g., hard hats, eye protection, safety shoes, disposable PVC gloves), as necessary to all workers and authorized visitors.

Non-skid footwear shall be provided to all abatement workers.

A sufficient supply of scaffolds, ladders, lifts and hand tools (e.g., scrapers, wire cutters, brushes, utility knives, wire saws, etc.) shall be provided as needed. Only fiberglass ladders shall be used within the work area. Wooden ladders and wooden handled tools shall not be allowed within the work area.

Rubber dustpans and rubber squeegees shall be provided for cleanup.

A sufficient supply of HEPA-filtered vacuum systems shall be available.

The PMP, Inc. Project Manager may require the use of additional equipment if he feels the number or number of certain items or materials is not sufficient.

Vacuums and pressure differential units shall arrive on site sealed and free of debris. Pre-filters of all pressure differential units must be new and unused.

All product data sheets, and all Material Safety Data sheets (MSDS) shall be submitted for all products and materials prior to their use on the job site.

All contractor equipment and supplies must arrive on site clean and dust free. Equipment must be inspected and accepted by PMP, Inc. Project Manager as it arrives onsite. Any equipment covered with dust (no matter the source of dust), plaster debris, multiple layers of encapsulant and/or spray glue, or any other debris will not be accepted. Chipped and/or rusted equipment will not be accepted even if it is to be used outside of containment. Delays caused by a lack of clean equipment will not extend Contractor's schedule.

Equipment rejected due to a lack of cleanliness must be removed from Owner's grounds in order to be cleaned. Dirty equipment wrapped in plastic will not be acceptable.

The decision of the Owner, PMP, Inc. Project Manager or the Owner's representative on all equipment and supplies shall be final.

6.2 Rental Equipment and Supplies

Any equipment rented and delivered to the site for the purpose of conducting asbestos abatement work must be accompanied with documentation verifying that the rental agency has been notified and acknowledges receipt of notification that the equipment being rented will be used for asbestos abatement work. This documentation must be submitted to the PMP, Inc. Project Manager prior to the equipment being delivered to the job site. Rental equipment, including scaffolding, will be held to the same standard of cleanliness as all other equipment on this project.

All rented equipment must be inspected and accepted by PMP, Inc. Project Manager as it arrives onsite. Any equipment covered with dust (no matter the source of dust), plaster debris, multiple layers of encapsulant and/or spray glue, or any other debris will not be accepted. Delays caused by a lack of clean equipment will not extend Contractor's schedule. Equipment rejected due to a lack of cleanliness must be removed from Owner's grounds in order to be cleaned. Dirty equipment wrapped in plastic will not be acceptable.

The PMP, Inc. Project Manager must be informed 24 hours prior to the delivery of any rental equipment.

The decision of the Owner, PMP, Inc. Project Manager or the Owner's representative on all rental

equipment and supplies shall be final.

SECTION 7. WORK SITE FACILITIES

The Owner shall provide sanitary facilities for abatement personnel outside of the enclosed work area. To use these facilities all workers shall wear normal street clothes including pants and shirts. No bathing suits or disposable coveralls are allowed to be worn to use the sanitary facilities.

At no-time will workers be allowed to exit the containment area, once abatement has begun disturbing asbestos, without showering prior to entering the clean chamber of the decon. (Exception to this may be made, at PMP, Inc. project manager's discretion, for Project Manager and Contractor's supervisor for conducting a clearance visual during which the PMP, Inc. Project Manager may allow street clothes to be worn under disposable overalls).

At no time shall workers exit the clean room/changing area wearing anything other than street clothes, including pants and shirt.

The Owner shall provide water for construction purposes, unless stated otherwise in the Scope of Work. Contractor shall connect to existing Owner system.

The Owner shall provide the electrical source. Contractor is responsible for all connections and disconnection of electrical power. All electrical power supplied to the containment area must be ground fault interrupter protected. Loss of power due to contractor activities will require contractor to supply electrical power at his own expense.

The Owner or its representative shall specify the wastewater discharge location and location of waste bins. The owner, when applicable, shall specify acceptable routes of travel.

The Contractor shall be required to place footing materials of sufficient thickness, strength, and size under the casters, footings, and/or runners of waste bin(s) to prevent damage of property surfaces. The contractor is responsible for all damages to Owner's property caused by the delivery, placement, or removal of a waste bin. Damaged property shall be repaired to equal or better condition than was present prior to the activity causing the damage. This may be amended in scope of work for this project.

The Owner shall specify on-site parking areas, if available, and access to the site.

SECTION 8. RESPIRATORY PROTECTION

All respiratory protection shall be provided to workers in accordance with the submitted written respiratory protection program, which includes all items as required by OSHA. This program shall be posted in the clean room of the worker decontamination enclosure system or adjacent to the clean room.

The Contractor shall ensure that all workers entering the regulated area wear appropriate respiratory protection. Respiratory protection provided workers shall be in accordance with 8 CCR 1529, and 8 CCR 5144 and the respiratory protection program submitted by the Contractor. This program shall be available at the worksite.

The PMP, Inc. Project Manager, his or her onsite representative, or the Owner or their representative may deny access to the regulated area to anyone who, in the final judgement of the PMP, Inc. Project Manager, is not properly wearing adequate respiratory protection for the project conditions. This includes but is not limited to those wearing unidentified respirators, those with improperly sealed respirators, those wearing respirators in an improper manner such as over their protective suit hood, or in any other fashion judged by the PMP, Inc. Project Manner to be improper or inadequate to protect the individual from the airborne asbestos at the project site.

The Contractor shall provide each worker needing respiratory protection with his or her own, individually identified, NIOSH-approved respirator. At a minimum, these respirators will be equipped with a P-100 series HEPA filter. The Contractor shall provide additional filter types if that becomes necessary for specific hazards discovered on the job site or if required in the contract documents.

The Contractor shall ensure that all workers use the respirator in compliance with the manufacturer's instructions for proper use and care of that product.

Workers must perform positive and negative respirator seal checks each time a respirator is put on, provided the respirator design permits.

The Contractor shall ensure that those workers wearing powered air purifying respirators test the air flow rate according to the frequency and methods specified by the manufacturer.

Workers shall be given, at least, a qualitative fit test in accordance with procedures detailed in the Cal/OSHA requirements for all respirators to be used on this abatement project. An appropriately administered quantitative fit test may be substituted for the qualitative fit test.

The Contractor shall ensure and provide written records to the PMP, Inc. Project Manager that all workers wearing tight-fitting respirators have been appropriately fit tested in accordance with the requirements of 8 CCR 5144.

The Contractor shall ensure that nothing interferes with the seal of the respirator to the face of the worker. This includes but is not limited to facial hair, clothing, protective clothing, equipment, or anything else that comes between the respirator and the face of the worker.

Use of any respirator must follow the manufacturer's instructions for proper use and care of that product.
The Contractor shall ensure that workers wear respirators underneath protective clothing

Workers conducting any work that may create an airborne release of asbestos must wear appropriate respiratory protection. This includes but is not limited to the pre-cleaning of asbestos

contamination off of furniture, equipment and floors, and the set-up of contaminated work areas.

The judgement of the PMP, Inc. Project Manager shall be final if there is a disagreement between the Owner and the Contractor regarding the need for wearing or the type of personal protection required.

In no event will a negative exposure assessment be allowed to lower respiratory protection, from that listed in the Scope of Work or required by regulation in the absence of an NEA, prior to the start of a project. Air samples used for negative exposure assessments created after the project has started must be from work conducted under this contract.

Minimum Respiratory Protection for OSHA Class I Work
Unless specified differently in the contract documents, the Contractor's employees conducting Class I work will wear tight-fitting, full-face powered-air purifying respirators for all Class I work that will take more than one hour to complete. They must wear a minimum of a half-face negative air–purifying respirator for Class I work lasting less than one hour. Contract documents may require additional respiratory protection, such as the use of supplied air respirator systems if, in the opinion of the PMP, Inc. Project Manager, the airborne asbestos levels are expected to exceed one fiber per cubic centimeter of air (1 f/cc).

After work has begun, if the Contractor wishes to lower respiratory protection requirements, such as for glovebag or other work, he or she must demonstrate to the PMP, Inc. Project Manager that personal air sampling results from that project prove that airborne fibers levels are below the Cal/OSHA Permissible Exposure Limit. The Project Manager will normally require sampling results used for this purpose to include several days of sampling taken during the work expected to generate the highest airborne levels.
The Project Manager will have final authority regarding whether the respiratory protection may be reduced below the need for powered-air purifying respirators.

Unless stated otherwise in the contract documents, for the purposes of respiratory protection, Class I work will include the removal of materials such as gypsum board surfaces that are covered with a texturing or skim coat material that contains over one percent asbestos.

Minimum Respiratory Protection for Class II and III Work Practices
Unless specified differently in the contract documents, the Contractor's employees conducting Class II or III work will wear a minimum of half-face, air-purifying respirators. Contract documents may require additional respiratory protection, such as the use of full-face air-purifying respirators or powered-air-purifying respirators.

After work has begun, if a Contractor wishes to lower respiratory protection requirements, he or she must demonstrate to the PMP, Inc. Project Manager that personal air sampling results from that project prove that airborne fibers levels are below the limit of quantification for the phase contrast microscopy method. The Project Manager will normally require sampling results used for this purpose to include several days of sampling taken during the work expected to generate the highest expected airborne levels. The Project Manager will have final authority regarding whether the respiratory protection may be reduced or eliminated. For example, the PMP, Inc. Project Manager may require personal samples to be analyzed by TEM before determining that asbestos does not pose an airborne health risk.

Respiratory Protection for All Work Classes and Unclassified Work
Respiratory protection will always be required if thermal system or surfacing materials are disturbed or if any asbestos-containing materials will not be removed substantially intact.

The PMP, Inc. Project Manager has full authority to raise the level of respiratory protection required for access to the regulated area if in his or her judgement additional respiratory protection is required. For example, if personal air sample results collected by either the Contractor or PMP, Inc. indicate higher than expected levels, the Project Manager is authorized to increase the level of required respiratory protection. The PMP, Inc. Project Manager will determine if the increased respiratory protection is due to new, unexpected developments such as the discovery of new materials, or if the increase is due to the Contractor failing to follow good work practices. The judgement on this matter by the PMP, Inc. Project Manager will be final.

The Owner is not responsible for increased costs or delays resulting from the need to increase respiratory protection should the reason for the increased respiratory protection be due to the Contractor's failure to adequately utilize wet work methods and/or the prompt cleanup of debris.

The Contractor may only implement respiratory protection changes after receiving written approval for the change from the PMP, Inc. Project Manager.

Waste transport and disposal personnel must wear at least half-face, air-purifying respirators when handling intact sealed bags. Powered-air purifying respirators must be worn if waste containers spill, break, or in any other fashion require a Class I work cleanup be performed.

The contractor shall comply with the respiratory protection requirements listed in 8 CCR 1529 until that date that 8 CCR 5144 includes assigned protection factors for all respirators. The following list of respirators and their assigned "protection factors" shall be the criteria for the selection of respiratory protection.

RESPIRATOR SELECTION	PROTECTION FACTOR
Half-mask air purifying respirator equipped with high efficiency particulate air (HEPA) filter - P-100	10
Full-face air purifying respirator equipped with HEPA filter - P-100	10
Half or full-face, powered air purifying respirators equipped with HEPA filter - P-100	1,000
Type C continuous flow supplied air	1,000
Full facepiece, supplied air respirator operated in pressure demand mode	1,000
Full facepiece, supplied air respirator operated in pressure demand mode, equipped with an auxiliary positive pressure self-contained breathing apparatus (SCBA)	10,000

Workers shall be provided, as a minimum, with personally issued and marked respirators equipped with high efficiency particulate air (HEPA) filters approved by NIOSH to be worn in the designated work area and/or whenever a potential exposure to asbestos exists. The owner or its representative may refuse entry to the work area to a worker with an unidentified respirator.

Sufficient filters shall be provided for replacement as required by the workers or applicable regulations. Disposable respirators shall not be used.

No worker shall be exposed to levels estimated to be greater than 0.01 f/cc inside their respirator as determined by the protection factor of the respirator worn and the work area fiber levels.

Whenever type C respirator protection is used, compressed air systems shall be designed to provide air volumes and pressures to accommodate respirator manufacturer specifications. The compressed air system shall have a reservoir of adequate capacity to allow the escape of all respirator wearers from contaminated areas in the event of compressor failure.

Compressors must meet the requirements of 29 CFR 1910.134(d).

Location of compressors must be approved by Owner for exhaust and noise considerations.

Compressors must have an in-line carbon monoxide monitor and periodic inspection of carbon monoxide monitors must be documented. Documentation of adequacy of compressed air systems/respiratory protection systems must be retained on site. This documentation will include a list of compatible components with the maximum number and type of respirators that may be used with the system. Periodic testing of compressed air shall insure those systems provide air of sufficient quality (Grade D breathing air). Documentation of this testing, including a description of the process used to perform the test and results of each test must be submitted to the PMP, Inc. Project Manager weekly.

Whenever powered air-purifying respirator protection is used, a sufficient supply of replacement batteries and HEPA filter cartridges shall be provided to the workers. At least one spare fully charged battery must be available on-site for each PAPR in use. The flow rate delivered to the face piece shall be checked and recorded by the Contractor on the sheet provided by the PMP, Inc. Project Manager each time a worker dons the respirator. Written respiratory protection program must detail how this testing is to be performed by each employee or the onsite supervisor. The Contractor shall ensure that the flow rate for PAPRs meets the requirements listed in 8 CCR 1544 regarding tight- and loose-fitting respirators as appropriate. The Contractors shall also ensure that PAPRs are worn, checked, and maintained according to the directions of the manufacturer.

During encapsulation operations or usage of other organic base aerosols (e.g. spray glue, expanding foam, etc.) workers shall be provided with combination organic vapor/HEPA filter respirator cartridges.

SECTION 9. PERSONNEL PROTECTION REQUIREMENT AND TRAINING

Prior to commencement of abatement activities all personnel who will be required to enter the work area or handle containerized asbestos containing materials must have received adequate training in accordance with the OSHA, EPA AHERA and NESHAP regulations.

Special on-site training on equipment and procedures unique to this job site shall be performed by the Contractor as required by law or recommended by the equipment manufacturer.

The Contractor shall provide training in emergency response and evacuation procedures.

See Section 8 for respiratory protection requirements.

Disposable clothing, including head, foot and full body protection, shall be provided in sufficient quantities and adequate sizes for all workers and authorized visitors. Damaged coveralls shall be immediately repaired or replaced.

Hard hats, protective eyewear, proper protective gloves, rubber boots and/or other footwear shall be provided by the Contractor as required for workers and authorized visitors. Safety shoes may be required for some activities.

Contractor personnel shall not wear street clothes or clothes of any type underneath the protective disposable clothing. Upon exiting the work area, no items worn in the work area, such as clothing, personal protective gear, footwear, or hair coverings will be allowed to be worn past the shower of the decontamination unit. Contractor worker(s) have the option of wearing disposable undergarments underneath protective clothing, or they may be nude underneath the protective disposable clothing.

Each time the worker(s) enter the work area they will don new disposable clothing and undergarments. Street clothes (including underwear and shoes) shall not be allowed inside the work area, except during visual clearance activities.

The PMP, Inc. Project Manager may use personal judgement to allow authorized personal to wear street clothes under protective clothing during the construction of final visual or other short-duration visits into the regulated area during times which asbestos is not being disturbed and gross debris is not present. In these situations, approved by the PMP, Inc. Project Manager, the authorized person shall deposit the protective clothing on the dirty side of the decontamination system and may proceed through the shower and clean room wearing the clothes they wore under their protective clothing.

SECTION 10. WORKER DECONTAMINATION ENCLOSURE SYSTEMS (WASTE TRANSFER DECON)

Worker decontamination enclosure systems shall be provided at all locations where workers will enter or exit the work area. One system at a single location for each contained work area is preferred. Enclosure systems may be constructed out of metal, wood or plastic support as appropriate. Plans for construction, including materials and layout, shall be submitted as shop drawings, and approved, in writing, by the Owner or its representative prior to work initiation. Detailed descriptions of portable, prefabricated units, if used, must be submitted for the Owner's approval. The worker decontamination enclosure system shall consist of at least a clean room, a shower room, and an equipment room. All decontamination units shall have, at least, two layers of 6-mil polyethylene sheeting.

Unless stated otherwise in the Scope of Work, all decontamination units, pressure differential units, and other portions of containment outside the building shall be covered with a 2"x 4" wood studs and 1/2" plywood enclosure for security. Pressure differential units shall be secured as necessary to the building or ground. Exhaust openings shall have metal grates to prevent objects from being put into the exhaust openings. Pressure differential exhaust shall be exhausted to an area acceptable to PMP, Inc. Project Manager and mounted through a solid surface, such as plywood.

Entry and exit from all airlocks and decontamination enclosure system chambers shall be through doorways designed to restrict air movement between chambers when not in use.

Each decontamination chamber shall have, at least, a four-inch lip of poly from the floor up the wall to prevent possible transfer of water and debris between chambers. Excess plastic at the corners of this floor is to be fitted to the sides of the chamber by folding plastic and taping, as opposed to cutting away excess poly and taping seams. In addition to this four-inch lip of poly the shower chamber shall have an overflow pan, in which the shower unit sits, that can hold two inches of water. The filter system and any hose connections transferring contaminated water shall be in a secondary containment, such as a metal pan. Any leakage shall be double-bagged or re-filtered.

The dirty side shall have an extra layer of 6-mil polyethylene sheeting on the floor as a "drop cloth" and it shall be replaced at least daily.

The clean room shall be sized and equipped to adequately accommodate the work crew and personal protection equipment. The minimum size of clean and dirty chambers shall be three feet by three feet, minimum size may be increased by requirements in the Scope of Work. Lighting, heat and electricity shall be provided as necessary for comfort. This space shall not be used for storage of tools, equipment, or materials (except as specifically designated), nor as office space.

The shower room shall contain one or more operable showers as necessary to adequately accommodate workers, minimum of one shower for every ten (or portion thereof) workers. The shower enclosure shall be constructed to ensure against leakage of any kind. In addition, the shower shall be a separate unit from the decon walls. The shower unit cannot be made from poly. Metal or hard plastic is acceptable. An adequate supply of soap, shampoo and towels shall be always supplied by the Contractor and available. Shower water shall be drained, collected, and filtered through a system with at least 1.0-micron particle size collection capability.

The shower pan in the shower chamber shall be, at least, 3' x 3' in size. The shower chamber shall be constructed so that no water from the shower can spray out of the chamber, nor any water run down the sides of the poly and miss the pan. The shower chamber dimensions shall be

determined by the size of the shower pan but are not to be smaller than 3' wide by 3' long by 7' tall.

Abatement work will be stopped if decon is not kept in acceptable condition.

Storage or consumption of food and/or beverages shall not be permitted inside the containment or within any of the decontamination chambers. Food or drink consumption within containment will result in the abatement worker(s) dismissal from the site for the duration of the project.

SECTION 11. WORKPLACE ENTRY AND EXIT PROCEDURES

All workers and authorized personnel shall enter the work area through the worker decontamination enclosure system.

All personnel who enter the work area must sign the entry log, located in the clean room.

All personnel, before entering the work area, shall read and be familiar with all posted regulations, personal protection requirements (including workplace entry and exit procedures) and emergency procedures. A sign-off sheet shall be used to acknowledge that these have been reviewed and understood by all personnel prior to entry.

All personnel shall proceed first to the clean room (or area), remove all clothes and don appropriate respiratory protection and disposable coveralls, head covering and foot covering. Hard hats, eye protection and gloves shall also be worn, as appropriate. Clean respirators and protective clothing shall be provided and utilized by each person for each separate entry into the work area.

Personnel wearing designated personal protective equipment shall proceed from the clean room through the shower room and equipment room to the main work area.

Before leaving the work area all personnel shall remove gross contamination from the outside of respirators and protective clothing by brushing and/or wet-wiping procedures. (Small HEPA vacuums with brush attachments may be utilized for this purpose.) Each person shall clean bottoms of protective footwear in the walk-off pan just prior to entering the equipment room.

Personnel shall proceed to the equipment room where they remove all protective equipment except respirators. Deposit disposable clothing into appropriately labeled containers for disposal. All clothing items, including underwear or hair coverings must be removed and disposed of prior to entering the shower.

Reusable, contaminated footwear shall be stored in the equipment room when not in use in the work area. This footwear shall be cleaned prior to being removed from the work area. Placing footwear in two 6 mil poly bags is sufficient for moving from one containment to another, but not for moving from one site to another. Contaminated footwear shall remain within the equipment room for the duration of the project. Cleaned footwear may be removed from containment, but must be approved by PMP, Inc. Project Manager.

Still wearing respirators, personnel shall proceed to the shower area, clean the outside of the respirators and the exposed face area under running water prior to removal of respirator, then shower and shampoo to remove residual asbestos contamination. Various types of respirators will require slight modification of these procedures.

After showering and drying off, proceed to the clean room and don clean disposable clothing if there will be later re-entry into the work area, or street clothes if it is the end of the work shift.

These procedures shall be posted in the clean room and equipment room.

SECTION 12. DIFFERENTIAL AIR PRESSURE SYSTEMS (See also Section 13)

12.1 Negative Pressure Requirements

Negative pressure shall be maintained at -0.03" water differential at all times during abatement activities, including entry/exit and bag out procedures. Contractor shall assign crew members to determine the cause of loss of pressure any time containment's negative pressure drops below -0.04" water differential. All work will be stopped in any containment for which the negative pressure drops below -0.020" water differential, until problem is resolved, and pressure returns to -0.04" water differential or better.

If containment cannot be brought up to -0.04" water differential, abatement contractor must increase number of negative pressure differential units until 10 air changes per hour is taking place. If this fails to raise negative pressure to acceptable levels, the contractor may request in writing a reduction in negative pressure requirements. If PMP, Inc.'s project manager agrees that the contractor has tried all possible remedies, PMP, Inc. project manager may grant reduction in negative pressure requirement. PMP, Inc.'s project manager is under no obligation to grant this request.

All negative pressure units installed, but not operating, must be sealed at both the exhaust location and the intake of the machine. This will prevent back draft which could allow asbestos fiber contamination from the HEPA filter.

12.2 DOP (or equivalent) Testing

Contractor shall provide differential air pressure systems for each work area in accordance with Appendix J of EPA "Guidance for Controlling Asbestos-Containing Materials in Buildings," EPA 560/5-85-024.

All HEPA filtered systems used on this project shall be tested and certified by an independent company, approved in advance by PMP, Inc., on-site and prior to use. All vacuums and pressure differential units shall meet A NSI Z9.2, using an appropriate testing agent. Documentation of these tests shall be provided to the PMP, Inc. Project Manager prior to the use of any HEPA system.

DOP, or equivalent, testing must be conducted on-site, unless stated otherwise in the Scope of Work. All HEPA filtered units, including but not limited to vacuums, air pressure differential units, and make-up air filters must be tested onsite. Testing of air pressure differential units must include testing of the wheel attachments, control panel, and seam and rivets of the housing, as well as the HEPA filter itself. A unit which passes DOP testing across the filter, but which fails testing for any component of the housing may be certified as an "Exterior of Containment HEPA Filtered Unit" only.

All HEPA equipped equipment to be used on the project must be delivered to the site empty of all debris, clean and free of dust, and in full operating condition. Covering dirty units with poly, other than the HEPA filter surface, will not be acceptable.

DOP or equivalent testing must be conducted by an independent testing company approved in advance by PMP, Inc. Contractors may not test their own equipment.

DOP or equivalent testing is required when any HEPA filters are changed.

All HEPA filtered machines, including but not limited to vacuums and negative pressure

differential machines, shall be utilized in the way they were DOP tested.

Any negative pressure unit turned upside down, or on its side, must be returned to an upright position and re-DOP tested. Negative pressure units shall not be used on this project while laid on their side or upside down.

In case of a power outage, contractor must seal exhaust ducts against back draft into containment.

All negative air units will have the filter sealed with poly and tape before being shutdown to prevent back draft.

12.3 Differential Pressure Recording Instruments

Differential air pressure shall be continuously monitored by Contractor using a recording instrument, Dwyer Instrument Co., "Photohelic Gauge" or equivalent, connected to an appropriate circular chart recorder or a comparable recorder that maintains a record of dates, times, and pressure differentials. The location of the pressure measurement tap shall be approved in advance by the PMP, Inc. Project Manager. During the operation of the unit, circular charts shall be collected daily, dated, and signed by an OSHA Competent Person present on site. Pressure differential shall be checked at a minimum of every hour during the work shift by a person familiar with the operation of the pressure-differential-filtration units, as well as the recording device. Each check shall be documented with a time and date notation on the circular chart and "Manometer Readings" form along with the initials of the person performing the check. A copy of the circular chart record shall be submitted to the PMP, Inc. Project Manager daily. The circular chart shall record time, date, pressure differential, coordinates, and location.

In the event the manometer recording mechanism fails, the Contractor shall be responsible for manually recording the pressure differential at fifteen (15) minute intervals. The log shall be kept until the recording device is operational. The log shall be provided to the PMP, Inc. Project Manager daily.

The "Manometer Readings" form shall be a record of dates and times of pressure readings and instrument stability.

Connect recording instrument to an audible alarm which will activate at pressure differential of-0.025 inches water gauge air pressure. Defective or non-operating instrumentation may require temporary stoppage of work until instrumentation is replaced.

For larger projects at least one manometer station shall be in place for each 25,000 square feet of containment space.

12.4 Differential Pressure System

Exhaust air shall be vented only to the exterior of the building at locations approved by the Owner unless otherwise noted or directed in the Scope of Work or by arrangement with the PMP, Inc. Project Manager. Such outlets shall not be near or adjacent to other building intake vents or louvers or at entrances to building. Openings made in the enclosure system to accommodate these units shall be made air-tight with tape and/or caulking as needed. They shall NOT be exhausted into occupied areas of the building. Twelve-inch (12") extension ducting shall be used to reach from the work area to the outside when required. Careful installation by the contractor, air monitoring by PMP, Inc. and daily inspections by the contractor shall be done to ensure that the ducting does not release fibers into uncontaminated building areas.

The work area shall have a differential air pressure of -0.04 inches water differential whenever the work is being performed including removal, gross clean-up, encapsulation of surfaces, bag-out operations and worker entry and exit procedures. If pressure differential ever drops below -0.025 inches water differential, all work, other than cleanup of waste on the floor of containment, must be halted until reason for pressure differential drop has been determined and corrected.

Only unused pre-manufactured, reinforced flex ducting shall be used within the containment area for exhausting filtered air. Contractor may not construct ducting using poly or other materials.

All interior of containment air pressure differential units and flex ducting must be wrapped in poly during all abatement activities. This poly wrap is to be removed after “finish detail” work has been completed, but prior to clearance visual.

Flex ducting must be supported by solid surface at point of exit from containment. This may require contractor to install plywood, or similar, structure for exhaust point.

SECTION 13. EXECUTION

13.1 Execution

Contractor and Owner shall investigate the work area and agree (in writing, if necessary) on the pre-abatement condition of the work area.

Contractor shall post danger signs meeting the OSHA specifications at locations and approaches to locations where airborne concentrations of asbestos may exceed ambient background levels.

When electrical supply within area of abatement poses a hazard, contractor, in conjunction with the Owner, shall shut down and lock out electric power to all work areas. Contractor shall provide temporary power and lighting sources, ensure safe installation (including ground faulting) of temporary power sources and equipment by complying with all applicable electrical code requirements and OSHA requirements for temporary electrical systems. Contractor shall have a licensed electrician shut down and lock out electric power, and setup temporary power and lighting sources. All costs of electricity shall be paid for by the Owner unless specified differently in the Scope of Work. The cost for set-up of temporary power is the responsibility of the abatement contractor unless specified differently in the Scope of Work.

When plumbing is required to be altered or becomes damaged, contractor shall have a licensed plumber disconnect and cap all water as necessary within the work area. Water shall be provided by the Owner from a location near the work area, but not necessarily within the work area.

Shut down and lock out all heating, ventilating, and air-conditioning-system (HVAC) components that are in, supply, or pass through the work area. Seal all intake and exhaust vents in the work area with tape and 6-mil polyethylene within the work area (interior) and on the exterior of the building. Also seal any seams in system components that pass through the work area.

Pre-clean all fixed objects in all work areas using HEPA-filtered vacuums and/or wet-cleaning techniques as appropriate or deemed necessary by the PMP, Inc. Project Manager. Careful attention must be paid to machinery behind grills or gratings where access may be difficult but contamination significant. After pre-cleaning, enclose fixed objects in 6-mil polyethylene sheeting and seal securely in place with tape.

Pre-clean all surfaces in all work areas using HEPA filtered vacuums and/or wet cleaning methods as appropriate. Do not disturb asbestos-containing materials during the pre-cleaning phase.

Unless otherwise stated in the Scope of Work or by agreement with the PMP, Inc. Project Manage all non-asbestos-containing materials left in the work area shall be covered by one layer of 6-mil polyethylene sheeting. If any non-asbestos containing materials become contaminated with asbestos during removal activities and can’t be decontaminated, these materials shall be disposed of as asbestos-containing materials by the Contractor. The PMP, Inc. Project Manager shall determine the friability of these materials prior to disposal. These materials shall be manifested appropriately.

Contractor shall seal all windows, doorways, elevator openings, corridor entrances, drains, ducts, grills, grates, diffusers, skylights and other openings between the work area and uncontaminated areas outside of the work area. These openings must be sealed with 6-mil polyethylene sheeting and tape. These protective layers shall be in addition to the two polyethylene layers on floors, ceilings, and walls. These openings are referred to as critical barriers. Seal all cracks in critical barrier areas with tape, caulk, or foam prior to sealing critical barriers.

A critical barrier only, negative pressure check shall be required prior to the set-up of interior containment. Prior to the Contractor covering critical barriers with additional layers of wall, floor, or ceiling poly, the installation and integrity of critical barrier seals must be approved by the PMP, Inc. Project Manager. Wall, floor, and ceiling poly installed prior to the critical barrier negative pressure check shall be removed by the Contractor if deemed required by the PMP, Inc. Project Manager in order to properly test critical barriers.

All items attached to asbestos-containing materials and items which cannot be removed without disturbing asbestos-containing materials shall be removed by the Contractor after establishment of containment and negative pressure. If these items are to be “saved and returned” or “reused” by the Owner, the Contractor must remove and clean them without damage. These items must be cataloged using the attached “Return Item Inventory Sheet” provided by PMP, Inc.

Contractor shall cover floors in the work area with polyethylene sheeting. Floor shall be covered with a minimum of two layers of 6-mil polyethylene sheeting. Plastic shall be sized to minimize seams. A distance of at least six (6) feet between seams is sufficient. DO NOT locate any seams at wall/floor joints. Floor sheeting shall extend at least twelve inches (12") up the sidewalls of the work area. Sheeting shall be installed in a fashion to prevent slippage between successive layers of material. A layer of 10-mil polyethylene sheeting and/or plywood may be required by the PMP, Inc. Project Manager to protect certain flooring materials -- carpets, hardwood floors, tiles, etc. At no time will wall or ceiling materials be permitted to be dropped onto unprotected floors. This includes areas where the floor surfaces contain asbestos.

Contractor shall cover walls in the work area with polyethylene sheeting. Walls shall be covered with a minimum of two layers of 4-mil polyethylene sheeting. Plastic shall be sized to minimize seams. Seams shall be staggered and separated by a distance of at least six feet (6'). DO NOT locate any seams at wall/floor joints. Wall sheeting shall overlap floor sheeting by at least twelve inches (12") beyond the wall/floor joint to provide a better seal against water damage and for pressure differential maintenance. Wall sheeting shall be secured adequately to prevent it from falling away from the walls. This may require additional support/attachment when pressure differential systems are utilized.

Contractor shall cover ceilings in the work area with polyethylene sheeting. Ceilings shall be covered with a minimum of two layers of 4 mil polyethylene sheeting. Plastic shall be sized to minimize seams. Seams shall be staggered and separated by a distance of at least six feet (6'). DO NOT locate seams at wall/ceiling joints. Ceiling sheeting shall overlap wall sheeting by at least twelve inches (12") beyond the ceiling/wall joint to provide a better seal against water damage and for pressure differential maintenance. Ceiling sheeting shall be secured adequately to prevent it from falling away from the walls. This may require additional support/attachment when pressure differential systems are utilized.

The contractor shall add clear sight windows in the containment walls at least 1' x 2' in size. The PMP, Inc. Project Manager will approve quantity and placement of these inspection windows. PMP, Inc. Project Manager has the right to require clearer sight windows or require placement of windows to be altered.

The equipment room shall be used for storage of equipment and tools at the end of a shift after they have been decontaminated using a HEPA-filtered vacuum and/or wet-cleaning techniques as appropriate. A walk-off pan shall be in the work area just outside the equipment room. A six-mil. disposal bag or a drum lined with a labeled 6-mil polyethylene bag for collection of disposable clothing shall be in this room.
Contractor shall obtain written containment visual clearance from PMP, Inc. Project Manager prior

to the start of abatement in all containments.

Contractor is not responsible for normal tape damage due to tape requirements for containment set-up, unless specifically mentioned in the Scope of Work. Contractor is responsible for excessive tape damage and damage from spray glue application, staples, nails, hooks, etc. installed to support containment.

Install and initiate operation of pressure differential equipment as needed to maintain differential-air pressure of -0.030 inches of water. There shall be a sufficient number of differential air pressure units to maintain a minimum of four air changer per hour. All pressure differential units shall have pre-filters at the intake of the system which must be changeable from inside the containment area. Openings made in the enclosure system to accommodate these units shall be made airtight with tape and/or caulking as needed. They shall NOT be exhausted into occupied areas of the building. Twelve-inch (12") extension ducting shall be used to reach from the work area to the outside when required. Careful installation, air monitoring and daily inspections shall be done to ensure that the ducting does not release fibers into uncontaminated building areas.

All flex ducting, protected by poly during abatement or not, pre-filters and intermediate filters shall be manifested and discarded as friable, hazardous asbestos-containing materials. A flex tube may be used for multiple containments on the same job if it is moved from one containment to another in two 6 mil poly bags

Once the containment has been constructed and reinforced as necessary with pressure differential units in operation as required, the contractor shall test the enclosure for leakage utilizing smoke tubes. The containment shall be repaired or reconstructed as needed.

All HEPA systems used on this project shall be tested and certified onsite by an independent company prior to use. (See section 12)

Contractor shall submit logs documenting filter changes for each pressure differential unit.

Contractor shall clearly identify and maintain emergency and fire exits from the work area.

Work shall not begin each day until:

a. Enclosure systems, or modifications thereof, have been designed and built by the contractor and each step approved by the APM. If the design of containment is to be altered in any way, after it is approved by the PMP, Inc. Project Manager, a written explanation of how and why the containment is to be altered must be submitted to the PMP, Inc. Project Manager for approval.
b. Pressure-differential systems are functioning according to an acceptable design.
c. All pre-abatement submissions, notifications, postings, and permits have been provided and are satisfactory to the Owner or its representative.
d. All equipment for abatement, clean-up and disposal is on hand.
e. All worker training (and AHERA certification) is completed and documented.
f. The contractor has installed all required clear transparent view ports made of plastic or equivalent, in the polyethylene wall so that activities can be visually monitored by the project manager from outside the containment. This window shall measure approximately 1' wide by 2' high. It shall be installed at a location approved by the PMP, Inc. Project Manager. It is recognized that viewing ports are not possible in all locations.
g. All pressure-differential units and vacuums have received and passed onsite DOP testing.
h. Contractor has at least one competent person at each site in which work is taking place.
i. All necessary documents and information have been posted or are on the work site.

See Section 2.

13.2 Power Outage Procedures

The following procedures shall be followed in the event of a power outage (no matter the source of the outage):

Immediately stop abatement activities.
Wet all debris and/or friable materials within the containment.
Depart containment area as soon as reasonable. Shower out or use Hudson sprayers to decontaminate worker if shower is inoperable due to power outage.
Seal containment area including:

A. Decon units
B. Makeup airports
C. Bag out chambers
D. Negative pressure air exhausts or inlets (must be sealed in a fashion that will allow for exhaust of air to occur when power is restored) Re-establish APD before starting abatement

Contractors will be given credit against liquidated damages for all actual down time plus two hours for shut down procedures, decontamination procedures and start up, (total of 6 hours) unless power outage is attributable to abatement contractor actions.

If a generator is required in the specifications, made necessary due to extended power outages, or chosen to be used by the abatement contractor the following issues must be addressed:

Generator must not violate any local noise ordinances nor disturb adjacent building occupants. Generator exhaust must not be allowed to contaminate the makeup air being pulled into the containment. It must, also, not be allowed to mix with HVAC air supplied to adjacent occupied buildings.

13.3 Work Schedule

A detailed work area by work area schedule must be submitted at the pre-start meeting. The schedule shall have, at a minimum, the work area and the day/month for beginning and terminating work in each work area. During the progress of work, it shall be the contractor's responsibility to keep the schedule current and up to date.

Contractor's request to change this schedule must be submitted to PMP, Inc. in writing at least 48 hours prior to the proposed addition, deletion or change in hours of a work shift. This would include working more than one shift per day, working extra days in the week, changing work hours or workdays, etc. If 48 hours' notice is not given, the proposed work shift may be canceled by PMP, Inc. Project Manager. The Owner and/or PMP, Inc. Project Manager reserves the right to deny any changes in the work schedule.

If the contractor wishes to work on a Federal or State holiday, more than five days a week, or more than 9 hours a day, Contractor becomes responsible for cost of project management fees to cover extended hours. If contractor fails to appear onsite without notifying PMP, Inc. Project Manager 24 hours in advance, the contractor becomes responsible for all PMP, Inc. Project Manager travel fees, onsite time fees, and other associated project management fees for that day.

SECTION 14. REMOVAL PROCEDURES

Contractor shall wet all asbestos-containing material with an amended water solution using equipment capable of providing a fine spray mist, to reduce airborne-fiber concentrations when the material is disturbed. Saturate the material to the substrate; however, do not allow excessive water to accumulate in the work area. Keep all removed material wet enough to prevent fiber release until it can be containerized for disposal. Maintain high humidity in the work area by misting or spraying to assist in fiber settling and reduce airborne concentrations. Wetting procedures are not equally effective on all types of asbestos-containing materials but shall none-the-less be used in all cases.

Saturated asbestos-containing material shall be removed in manageable sections. Removed material should be containerized immediately (as soon as removed). Surrounding areas shall be periodically sprayed and maintained in a wet condition until visible material is cleaned up. Gross debris shall be cleaned up and bagged prior to any work stoppage, such as for breaks, lunch, end of each shift, or project shut down (voluntary or not).

Material removed from building structures or components shall not be dropped or thrown onto unprotected floors at any time. Floors shall be covered with poly regardless of if they are being removed after ceiling or walls. Material should be removed as intact sections or components whenever possible and carefully lowered to the floor.

Containers (6-mil polyethylene bags or drums) shall be sealed when full. Double bagging of waste material is necessary. Bags shall not be overfilled. They should be securely sealed to prevent accidental opening and leakage by tying tops of bags in an overhand knot or by taping in gooseneck fashion. Do not seal bags with wire or cord.

Drums shall be used to dispose of asbestos-containing waste with sharp-edged components (e.g., nails, screws, metal lath, tin sheeting). Waste must be double bagged and goose-necked within drums.

After completion of all stripping work, surfaces from which asbestos-containing materials have been removed shall be wet-brushed and sponged or cleaned by some equivalent method to remove all visible residue.

After the work area has been rendered free of visible residues (and verified clean by the APM), a thin coat of a satisfactory encapsulating agent shall be applied to lock-down non-visible fibers on all surfaces, in the work area including structural members, building components and plastic sheeting on walls, floors and covering non-removable items, to seal in non-visible residue. Unprotected flooring surfaces shall not be encapsulated unless otherwise noted in the Scope of Work or indicated by the PMP, Inc. Project Manager.

After asbestos-containing materials have been removed from floor surfaces. These floor surfaces shall be washed with a TSP solution, or similar detergent acceptable to the Client, follow-up flooring contractor, and PMP, Inc, Project Manager, prior to clearance air tests.

SECTION 15. WASTE CONTAINER PASS-OUT PROCEDURES

Asbestos-contaminated waste that has been containerized shall be transported out of the work area through the waste transfer airlock or through an approved pass-out arrangement.

Waste pass-out procedures shall utilize two teams of workers, an "inside" team and an "outside" team.
The inside team, wearing appropriate protective clothing and respirators for inside the work area, shall clean the outside, including bottoms, of properly labeled containers (bags, drums, or wrapped components) using HEPA vacuums and wet-wiping techniques and transport them into the waste container pass-out airlock. Provisions for spray cleaning exterior of bags, equipment, and removable items shall be present in the waste pass-out. Wastewater from this operation shall be collected and filtered as required through a 1.0-micron filter. No worker from the inside team shall further exit the work area through this airlock.

The three-chamber system is utilized in the following manner. Workers inside the work area place the waste in the initial waste container, which is usually a bag. They then rinse the bag and seal it. They hand it to a worker in the dirty chamber room who inspects the bag and, if it is clean, places it in the secondary waste container. The secondary container is either another bag or a lined rigid-wall container such as a barrel or box. The worker then seals the secondary container and may attach the proper labeling. The worker places the container in the middle chamber. The worker in the clean chamber then reaches in and lifts the container into the clean chamber. The worker inspects it and if not already labeled, attaches the proper labels. The worker then passes the container to the outside worker who transports the container either to the waste transport vehicle or to a holding area. At no time shall z-flaps of transfer system chambers be taped, held or otherwise blocked open. The Contractor must not allow more than one poly airlock doorway to be open at any one time. This prevents a tunnel system and a breakdown in the isolation of the work area. Negative pressure must be maintained during all waste load-out activities.

The contract documents or the PMP, Inc. Project Manager may in allow a one or two chamber system to be used for some projects, if the liability to the client, in the judgment of the PMP, Inc. Project Manager is not increased. As with a three-chamber system, in a one or two chamber system, the Contractor may never allow more than one poly air flap doorway to be open at any one time. For example, a one chamber system would function in the following manner. Workers in the work area rinse and seal the initial waste container. They hand the initial container to a worker in the load-out chamber. That worker verifies that the container is clean and then places it into the secondary container which will be either another bag or lined ridged-wall container depending on the specifications. The load-out worker then seals the container and applies the appropriate labels. The sealed, labeled container is then passed to the outside workers who transport it to the waste transport container or holding area.

The exit from this airlock shall be secured to prevent unauthorized entry.

SECTION 16. CLEAN-UP PROCEDURE AND VISUAL CLEARANCE CRITERIA

16.1 Clean-up Procedure

Remove and containerize all visible accumulations of asbestos-containing material and asbestos-contaminated debris utilizing rubber dust pans and rubber squeegees to move material around. DO NOT use metal shovels to pick up or move accumulated waste. Special care shall be taken to minimize damage to floor sheeting.

Wet-clean all surfaces in the work area using rags, mops and sponges as appropriate. (Note: Some HEPA vacuums might not be wet-dry vacuums.) To pick up excess water and gross wet debris, a wet-dry shop vacuum with HEPA filter may be used.

Airless sprayers and water hoses shall not be used in a “power washing” fashion on any surfaces.

Contractor shall remove each cleaned layer of polyethylene sheeting from walls and floors. Windows, doors, HVAC system vents and all other critical barriers shall remain sealed. The pressure differential units shall remain in continuous operation. Decontamination enclosure systems shall remain in place and be utilized.

Remove all containerized waste from the work area.

Decontaminate all tools and equipment and remove at the appropriate time in the cleaning sequence.

Contractor shall clean work area and conduct pre-clearance visual. Once pre-visual has been passed by contractor, contractor shall allow dust to settle within containment for 24 hours, then return and re-clean by HEPA-vacuuming and/or wet-cleaning all objects and surfaces in the work area again. At this point PMP, Inc. will conduct the final visual. If final visual fails, contractor must reclean area until final visual passes. Once final visual is passed, contractor will be instructed to encapsulate the containment area, unless encapsulation of containment has been disallowed in the Scope of Work or material specific specification.

Contractor may request a reduction in the 24-hour waiting period, if personal samples collected during the abatement work and detail clean-up work have shown fiber levels below the PEL. Reduction of waiting period must be made in writing, accompanied by personal sample results from this project. Contractor must acknowledge that reduction in waiting period may result in failed clearance air samples and that retaking and re-analyzing these air samples will be at the contractor’s expense. Reduction in waiting time will be at the discretion of the PMP, Inc. Project Manager and client.

16.2 Visual Clearance Criteria:

The Contractor shall perform a pre-final visual of the removal area and adjacent surfaces prior to requesting that the Owner’s representative conduct a final visual inspection. The pre-final visual performed by the Contractor shall verify that all materials have been completely removed from the work area, and that the work area meets the requirements specified in Section 17.

Upon completion of the pre-final visual inspection by the Contractor a final visual of the containment area will be performed by the Owner’s representative. The PMP, Inc. Project Manager will determine the clearance criteria for the project. At a minimum, no three-dimensional debris shall be left within the work area; all poly shall be wet wiped so that no visible dust or debris is left; the decontamination chambers shall be clean of all debris; the waste transfer area

shall be clean of all debris; all equipment and supplies shall be clean of all debris. The Contractor shall not be released to encapsulate the containment until receiving written acceptance by the Owner's representative stating the removal area and the containment have met the criteria of the Owner's representative for completeness of removal and cleanliness of the containment barriers and surfaces.

When required, clearance air sampling shall be performed following the requirements specified in Section 17 after encapsulation of the containment has taken place and enough time has passed to allow the encapsulant to dry. The Owner shall determine the method of analysis to be used based on the amount and type of material removed within a containment. If at a K through 12 school site and the quantity of Asbestos-Containing Material (ACM) exceeds 160 square feet or 260 linear feet, analysis of air samples must be by transmission electron microscopy (TEM) per US EPA AHERA regulations.

The PMP, Inc. Project Manager will conduct the final visual inspection of the work area for visible residue. If any accumulation of residue is observed, it will be assumed to be asbestos and the 24-hour settling period/cleaning cycle will be repeated.

Additional cleaning cycles shall be provided by the contractor, as necessary, at no cost to the Owner until the specified clean criteria have been met.

PMP, Inc. Project Manager has final say on whether an area meets these requirements.

Following the satisfactory completion of clearance-air monitoring, remaining barriers may be removed and properly discarded as non-asbestos containing waste. If contamination exists behind these critical barriers, additional cleaning and air monitoring may be required.

Final visual will be conducted by at least one PMP, Inc. Project Manager. PMP, Inc. may supply additional personnel for inspection in order both speed up the inspection and to more thoroughly inspected the containment areas.

Owner, contractor and PMP, Inc. Project Manager shall jointly review the work area and make a damage assessment, after clearance air samples have passed and containment has been torn down.

SECTION 17. CLEARANCE AIR MONITORING

Following the completion of clean-up operations, the contractor shall notify the PMP, Inc. Project Manager in writing that work areas are ready for final visual inspection. This notification is to be made only after contractor foreman has made a visual inspection of his own.

After the PMP, Inc. Project Manager has given a final written approval of the clean-up operations, the contractor shall proceed to "lock-down" the containment area with an encapsulant. Exception to this is for containments that are not to be encapsulated prior to clearance air testing according to the Scope of Work (ie floor tile only projects).

Owner shall then arrange for an Air Monitoring Professional to sample the air in the work area for airborne fiber concentrations. Clearance-air monitoring shall proceed 24 hours after lock-down or when the area is dry, whichever is later.

Contractor may request a reduction in the 24-hour waiting period, if personal samples collected during the abatement work and detail clean-up work have shown fiber levels below the PEL. Reduction of waiting period must be made in writing, accompanied by personal sample results from this project. Contractor must acknowledge that reduction in waiting period may result in failed, or overloaded (with encapsulant) clearance air samples and that retaking and re-analyzing these air samples will be at the contractor's expense. Reduction in waiting time will be at the discretion of the PMP, Inc. Project Manager and the Owner.

Air samples will be taken using the "aggressive" air sampling techniques described in the AHERA regulations unless noted differently in the Scope of Work for non-AHERA sites. In the case aggressive samples cannot be collected (e.g. in a dirt floor area) this will be noted in the Project Manager's notes.

If PCM analysis is used for clearance air samples, all clearance samples at all locations shall indicate a fiber concentration of less than or equal to 0.01 f/cc for release of the work area.

If TEM analysis is to be used for clearance air samples, then the clearance criteria shall be the same as AHERA, unless otherwise specified in the Scope of Work.

Areas exceeding these levels shall be re-cleaned and, if appropriate, re-encapsulated at no additional cost to the owner. All areas where clearance air samples fail will be re-tested.

The contractor shall be responsible for all subsequent air sampling costs if air samples fail to meet clearance criteria levels. This cost includes four hours of time for PMP, Inc. personnel to collect the air samples and the cost of laboratory analysis.

Roof Removal: No clearance air monitoring required. Only a visual inspection of the roof for roofing debris will be provided.

Tar-like Pipe Wrap Removal: This non-friable material will only be removed by cutting the clean ends of the pipe it is insulating. No clearance air monitoring required.

TSI Removal: When removal is less than three linear feet within a single glovebag (or similar) containment, no clearance air monitoring will be required.

Regardless of the method used, when removal exceeds three linear feet within a single

containment clearance air monitoring will be performed prior to the removal of the containment barriers.

Drywall Removal: Regardless of the asbestos content, when the quantity of drywall removed exceeds 3 square feet, clearance air monitoring will be performed prior to the removal of the containment barriers.

VFT & Mastic Removal: When the quantity removed exceeds 3 square feet, clearance air monitoring will be performed prior to the removal of the containment barriers.

SECTION 18. MONITORING

Owner reserves the right to perform air and performance (contractor work practices, housekeeping, record keeping, etc.) monitoring at any time.

Contractor shall conduct personal air monitoring in accord with OSHA regulations. Results shall be made available to the PMP, Inc. Project Manager within 72 hours of collection. Hard copies of these results shall be supplied to PMP, Inc. Project Manager within 7 days of collection. Failure to supply these sample results in the specified time may cause work to be stopped until all delinquent results have been submitted. Loss of contractor work time because of noncompliance of the provisions of this paragraph will not extend the date for work completion.

Owner may take air samples prior to, during, and after the project. Work shall not be considered complete until all air sampling has been completed and satisfactory levels have been obtained. "Satisfactory levels" shall be those established by AHERA, unless more stringent requirements have been identified in the Scope of Work, General Specifications, General Requirements, or other Project Specifications.

In areas where soil contamination may be present, soil samples must meet specified criteria in Scope of Work prior to clearance air samples collection.

Owner, or PMP, Inc. Project Manager, shall be authorized to issue a STOP WORK order whenever Contractor's work or protective measures are not in accord with published regulations or contract specifications.

SECTION 19. DISPOSAL PROCEDURES

19.1 Disposal Procedures

Waste transport and disposal personnel must wear at least half mask HEPA-cartridge type respirators when handling intact sealed bags.

Disposal bags shall be of 6-mil polyethylene, pre-printed with labels as required by California Environmental Protection Agency, Department of Toxic Substances Control (DTSC) regulations.

Disposal drums shall be plastic, metal or fiber board with locking ring tops. If heavy duty cardboard boxes are allowed in the Scope of Work, they may replace the barrels. Cardboard boxes must be sturdy enough not to be deformed or compromised by the weight of the materials disposed within them.

All containers, including bags and barrels or boxes must be labels the same as the ACM waste disposal bags.

All waste shall be double bagged in 6-mil polyethylene bags and goose-necked. These bags will then be placed into disposal drums as described above.

Contractor shall provide stick-on labels for disposal containers that meet the Cal/OSHA, NESHAPS, and DTSC requirements for hazardous and non-hazardous waste container labeling.

All waste bags shall have visibly damp materials but shall not contain loose water. In the event loose water is discovered within a waste bag, it shall be absorbed with kitty litter, saw dust or similar product prior to the bag being sealed.

All asbestos waste, hazardous or not, shall be manifested. Non-hazardous waste shall be manifested on a non-hazardous waste manifest.

All waste containers (barrels or boxes) shall be sealed in a manner that allows them to be opened for inspection of sealed bags within by PMP Project Manager, Regulatory personnel and Dumpsite personnel.

Waste placed into boxes or barrels at the project site must be disposed of within the same boxes and barrels at the dumpsite. Removal of waste from these boxes and barrels is not allowed. As the work progresses, to prevent exceeding available storage capacity onsite, sealed and labeled containers of asbestos-containing waste shall be removed and transported to the prearranged disposal location.

Disposal must occur at an authorized site in accordance with regulatory requirements of NESHAPS and applicable State and Local guidelines and regulations, including the California State Environmental Protection Agency, Toxic Substances Control Division regulations.

Transport vehicles shall be marked with the sign prescribed by NESHAPS regulations during loading and unloading to warn people of the presence of asbestos.

All dump receipts, trip tickets, waste manifests, NESHAP Waste Shipment Record (WSR) and other documentation of disposal shall be delivered to the Owner, for the Owner's records. The WSR is not required if the cubic yards of asbestos-containing waste is indicated on the Waste Manifest. The manifest should be signed by the Owner, the hauler, and the Disposal Site Operator as the responsibility for the material changes hands. If a second hauler is employed, his

name, address, telephone number and signature should also appear on the form. The WSR, if used, shall be signed by the Owner or its agent and the disposal site operator.

All manifests shall have asbestos waste identified as: "RQ, Asbestos, 9, NA2212, III". This requirement may be changed as new regulations are issued. See "Waste Disposal" requirements at end of "General Requirements".

All manifests shall be accompanied by a "Notice and Certification". A signed copy of this must be provided to the Owner or Owner's agent.

19.2 Transportation to the Landfill

Once drums, bags and wrapped components have been removed from the work area, they shall be loaded into an enclosed (solid walls, ceiling, and floor) truck or waste bin, which has been lined with 6-mil polyethylene (walls and floor).

When moving containers, utilize hand trucks, carts, and proper lifting techniques to avoid back injuries. Trucks with lift gates are helpful for raising drums during truck loading.

Personnel loading asbestos-containing waste shall be protected by disposable clothing including head, body, and foot protection and, at a minimum, half-facepiece, air-purifying, dual cartridge respirators equipped with high-efficiency filters. Any debris or residue observed on containers or surfaces outside of the work area resulting from clean-up or disposal activities shall be immediately cleaned up using HEPA filtered vacuum equipment and/or wet methods as appropriate.

No waste containers shall be onsite which contain other hazardous waste, or hazardous waste from another owner. Waste from multiple sites of the same owner within the same waste container is acceptable; however, it must be manifested separately.

If contractor is storing waste from various sites of one owner, all transportation vehicles shall be covered by the same regulations as the waste bin or truck being used to haul the waste to the dump. If equipment or supplies are to be left in vehicles during hauling of waste-to-waste bin or truck, waste and equipment/supplies must be separated by a solid (wood or metal) barrier which has been sealed as a critical barrier. A poly wall barrier is not sufficient.

Waste bin must be locked at all times except when being filled.

It is the contractor's responsibility to see that all waste bins, trucks, and storage bins arrive onsite completely free from debris.

The contractor shall provide a weight receipt that identifies the net weight of the material being discarded.

19.3 Disposal at the Landfill

Upon reaching the landfill, trucks are to approach the dump location as closely as possible for unloading of the asbestos-containing waste.

Bags, drums, barrels and components shall be inspected as they are off-loaded at the disposal site. Material in damaged containers shall be re-packed in empty drums or bags as necessary. (Local requirements may not allow the disposal of asbestos waste in drums. Check with appropriate agency and institute appropriate alternative procedures.)

Waste containers shall be placed on the ground at the disposal site, not pushed or thrown out of the trucks (weight of wet material could rupture containers).

Personnel off-loading containers at the disposal site shall wear protective equipment consisting of disposable head, body and foot protection and, at a minimum, half-facepiece, air-purifying, dual cartridge respirators equipped with high-efficiency filters.

Following the removal of all containerized waste, the truck cargo area shall be decontaminated using HEPA vacuums and/or wet methods to meet the no visible residue criteria. Polyethylene sheeting shall be removed and discarded, along with contaminated cleaning materials and protective clothing, in bags or drums at the disposal site.

SECTION 20. SPECIFIC PROCEDURES AND REQUIREMENTS

NOTE: All Specific Procedures and Requirements listed in Section 20 shall be reviewed by the contractor along with the Scope of Work issued for the project. If any perceived conflicts are present between the Scope of Work and these specifications or within the General Requirements specification itself, the contractor shall ask for a written interpretation from the PMP, Inc. Project Manager prior to submission of his bid. If conflicts in the "Scope of Work" and this specification or with the General Requirements specification itself are discovered after the start of abatement, the more stringent specification and/or requirements will be enforced. The PMP, Inc. Project Manager shall make the determination as to what which requirements and/or specifications are more stringent.

20.1 General Repair of Damaged Thermal System Insulation (TSI) Procedures

Where TSI has been damaged, and it is feasible to repair the small nicks, cuts, and exposed ends, the following procedures shall be performed:

Contractor shall establish a regulated area according to the requirements of 8 CCR1529 and as enhanced by this specification and the Scope of Work, including but not limited to the posting of the area and allowing on authorized personnel into the work area.

Piece of 4-6 mil poly sheeting shall be placed directly under the area to be worked to collect any fallen debris or repair compound.

Half-masks and disposable suits (at a minimum) shall be used during this work.

The area shall be restricted to those personnel involved in the work, so posting of the accesses is required. In some cases, poly shall be used to cover the access points.

1. A HEPA-vacuum must be in the immediate area to pre-clean any debris observed surrounding the damaged section, or in the event of a mishap.

   If work is performed indoors, the ventilation system shall be off in the areas worked in to prevent fiber distribution. Ventilation supply and exhaust ducts shall be covered with poly sheeting.

2. It will be necessary to remove small sections of other insulation material, such as fiberglass, if debris from the damaged pipewrap has contaminated it.

3. If appropriate, contractor shall HEPA-vacuuming the damaged section will collect all loose, hanging, friable insulation material prior to any further repair work.

4. Very small cracks, holes, nicks, and cuts can be repaired with only joint compound or with a single layer of wettable cloth and appropriate bridging encapsulant. Larger sections of damaged pipewrap, particularly where pipe hangers or metal channel have damaged the insulation, will require at least two layers of wettable cloth.

5. Where the pipewrap cannot be removed completely from penetrations in the walls, floors, or ceilings, the pipewrap shall be removed at least one inch into the opening and sealed with a bridging encapsulant to grade. The Contractor may choose to fill large gaps with fiberglass insulation, prior to sealing with the encapsulant.

6. All of the Contractor's materials, including poly sheeting, tape, joint compound, etc. shall

be removed at the completion of the work performed.

20.2 Glovebag Technique Requirements

Where the glovebag technique is specified for removal of Thermal System Insulation (TSI), or in those areas where the Contractor opts to use glovebags, all of the following conditions must be met:

The Contractor shall develop a regulated area that meets the requirements of 8 CCR 1529 regarding posting and limited access.

The Contractor shall follow the procedures recommended by the manufacturer of the glovebags, and the specifications required by Federal OSHA and Cal/OSHA regulations

All critical openings within the regulated area shall be sealed prior to set up of the containment.

At least one layer of 6 mil poly must be used to contain the abatement area.

Stationary objects in the immediate area of the room which cannot be removed from the work area must be covered with at least one layer of 4 mil poly sheeting after being pre-cleaned.

A minimum three stage decontamination unit with a shower shall be contiguous with the containment for areas requiring removal of more than 6 linear feet of TSI, or 10 square feet of surfacing material.

Negative pressure shall be established and a circular graph recording manometer shall be attached to the containment per Section 13.

A HEPA-filtered vacuum shall be in the immediate area for use in conjunction with the bags or in case of a spill.

Glovebags may not be used on surfaces where temperatures exceed 150 degrees Fahrenheit.

Glovebags may be used only once and may not be moved or slid for removal of a second section of TSI.

At least two persons shall perform Class I glovebag removal as defined by Federal and Cal/OSHA.

Before beginning the operation, loose and friable material adjacent to the glovebag operation shall be wrapped and sealed in two layers of 6 mil poly sheeting or otherwise rendered intact.

Where the system uses an attached waste bag, such bag shall be connected to a collection bag using a hose or other materials which shall withstand pressure of ACM waste and water without losing its integrity.

The Contractor shall apply a sufficient volume of amended water to all pipewrap scheduled for removal while it is enclosed in the glovebag.

A sliding valve or other device shall separate the waste bag from the hose to ensure no exposure when the waste bag is disconnected.

Prior to placement in the disposal bag, glovebags shall be collapsed by removing air within them using a HEPA-vacuum.

Upon detachment, the glovebag must be immediately placed into at least two 6 mil thick disposal bags. The disposal bags must be sealed using the "gooseneck" sealing technique.

Where pipes enter walls, floors, or ceilings which are not within the scope of the project, the pipewrap shall be removed at least 1" into the structure and the pipewrap end must be sealed with bridging encapsulant and/or wettable cloth.

If the Contractor chooses to use a Negative Pressure Glove Bag System, Negative Pressure Glove Box System, or Water Spray Process System in lieu of the traditional Glovebag System, the Contractor shall submit to Owner's agent/site representative detailed written procedures on those systems which will be used. In addition, air sampling data, generated by the Contractor, must be provided to Owner's agent/site representative. Owner's agent/site representative must provide prior approval to alternate techniques and approaches to those specifications detailed here.

The Contractor is responsible for salvage and decontamination of all pipe system supports, hangers, brackets, saddles, etc. These items shall be inventoried by the Contractor and verified by the Owner's agent/site representative before and after abatement. The Contractor will be responsible for replacement of any items lost or damaged.

The Contractor shall be responsible for ensuring the piping system remains adequately supported. This may be achieved by readjusting existing hanger brackets as insulation is removed, or by other approved methods, such as inserting wood blocks to replace the thickness of the removed insulation.

20.3 Mini-Cube Enclosure Requirements

For the purposes of these specifications, "mini-cube enclosure", "mini-enclosure", and "mini-cube" are all used interchangeably and mean the same. The mini-cube enclosure is required to be constructed whenever small sections of walls, ceilings, or pipe insulation are to be removed for electrical, plumbing, mechanical, etc., work. The purpose is to create an enclosed and controlled work environment while removing asbestos or accessing an attic space which is contaminated.

Enclosure walls and floors must be constructed of at least two layers of fire-rated 6 mil poly sheeting. No visible holes, cracks, penetrations, etc. shall be within this enclosure. The upright frame shall be adjustable in order to butt the top of the enclosure to the wall or ceiling area. A single drop layer of 6 mil poly sheeting shall be put down and removed daily at the end of the work shift. For work involving removal of TSI by glovebag technique, only one layer of 6 mil poly sheeting is required for construction of the mini enclosure. All mini-enclosures, mini-cubes, etc. must have a view port that allows the PMP, Inc. Project Manager to view the activities going on inside the regulated area. The placement, number, and size of the view port(s) must be acceptable to the PMP, Inc. Project Manager.

At least two chambers shall be present, separated by flapped poly sheeting doors. The first chamber upon entrance will be called the "clean" chamber, while the second chamber will be called the "dirty" chamber.

Since the top of the enclosure must be open in the chamber where ceiling access will take place, special care must be taken prior to moving the enclosure. If the mini enclosure is designed to be portable, the enclosure must be sealed at the top prior to being moved to the next location. This may be achieved by temporarily sealing the top of the chamber with poly and tape from the inside.

Dirty chamber must be sealed around work area in a fashion that creates an air-tight seal without causing damage to floor, walls, ceilings, or other materials. This may be achieved by use of a pliable material, such as non-porous foam rubber, or other methods approved by the PMP, Inc. project manager. A tight seal must be maintained without damage to the remaining materials (this may be difficult if tape is used).

For access to an attic space, position the enclosure at the location to be worked. The enclosure must be butted up to the ceiling surface to form a semi-seal between the top of the enclosure and the ceiling. The enclosure can then be completely sealed to the ceiling, using tape. After a seal has been established, access into the ceiling can then proceed.

A HEPA vacuum shall be used to establish "negative pressure" or airflow into the enclosure. This shall be verified by using ventilation smoke tubes.

The following equipment and materials, at a minimum, must be present inside the mini enclosure "dirty" chamber:

6 mil poly bags with clean rags for cleaning.

Amended water in a Hudson-like sprayer for the rags.

Empty bag for disposal of items.

Flashlights or drop light as appropriate.

Personal Protective Equipment including extra suits in case of multiple entry/exits

Amended water in a properly labeled Hudson Sprayer
Daily change of 6 mil poly sheeting drop layer.

Other tools needed to perform task.

The following equipment and materials, at a minimum, must be present inside of the mini enclosure "clean" chamber:

Clean potable water in a Hudson-like sprayer which is labeled "Clean Potable Water Only". A new container must be designed for potable water only. No container used previously to hold liquids will be allowed. No open containers will be allowed.

Clean disposable shower or hand towels for drying hands, arms, and face.

6 mil poly bags for disposal of towels and other items.

Any other tools the Contractor requires, such as tape, screwdrivers, etc.

The work area must be delineated with the proper barrier tape and the outside of the poly-flapped entry to the mini-cube must be posted with OSHA required warning signs for a regulated area.

Clean disposable coveralls must be worn entering the mini enclosure and must be removed prior to leaving the mini enclosure. Depending upon the work being performed, the Contractor may choose to "double suit" in disposable coveralls. All workers shall use the Clean Room and its supplies for personal hygiene prior to exiting the enclosure.

For work involving removal of more than 6 linear feet of TSI, or greater than 10 square feet of surfacing material (regardless of method to be used), a shower must be attached to the mini-cube enclosure and be contiguous with the work environment and comply with all other decontamination requirements in related sections of this specification.

If there is removal of greater than 3 linear feet of TSI, or greater than 3 square feet of surfacing material (regardless of the method used), the enclosure must remain in place until a final visual is passed, and clearance air samples are collected by Owner's agent/site representative. Where work involves less than these quantities, only a visual inspection by Owner's agent/site representative will be required prior to removal of the mini enclosure. Mini enclosure shall be constructed in a fashion that will stay in place, remain intact and under negative pressure for numerous days while awaiting clearance air sample results.

20.4 Roofing Abatement Requirements

General Requirements

Except as amended here and in the Scope of Work, all other Sections of this Exhibit shall be followed.

The work shall be coordinated and scheduled when there are favorable weather conditions, such as, performing the abatement work when the forecast is for "clear skies" and no rain for three or more consecutive days. The Contractor shall remove only that amount of roofing material which can be reroofed or covered and secured from the weather.

Work may be halted at the discretion of the Owner's agent/site representative if wind conditions occur which can or does cause removed roofing materials to be blown off the roof area, or beyond the designated removal area perimeter. All roofing work shall be coordinated to allow other trades to work at the same time if their work is in areas where contamination cannot occur. No cutting, sanding, grinding, or removal of any type will take place until all preparations for removal have been completed and inspected by the onsite project manager. This section may be amended in other sections of this specification for this project.

The words "clear skies" are used as a means of indicating favorable weather conditions. These

two words do not mean, nor are they intended to require skies be clear and free of clouds, fog, or other meteorological conditions which are not expected or forecast to produce measurable rain. The follow up requirement of no rain for three or more consecutive days is to help clarify the favorable weather condition requirement. The last sentence concerning the amount of roofing to be removed is to further instruct and direct the Contractor not to be over optimistic and create more open roof areas than can be reroofed, secured, or properly protected from weather in case the forecast changes unexpectedly or without warning.

All work hours at the site shall be determined by the Owner or as defined in other sections of this Exhibit. Unless otherwise stated, the buildings will be reoccupied each morning Monday through Friday.

All work shall be coordinated with the other trades involved on this project, with central coordination being primary between the abatement contractor and the General Contractor for the project. However, Owner's agent/site representative must be notified of projects in advance as stated in other sections of this Exhibit.

The Contractor shall provide all necessary equipment, tools, materials, lighting, labor, etc. to perform the work. Sufficient lighting shall be provided to illuminate the entire removal and transit areas for removal of roofing material, and for the final visual inspection by the Owner's agent/site representative if the work is to be performed at night.

All HEPA equipment to be used on the project must be delivered to the site empty of all debris, clean, free of dust, and in full operating condition. HEPA equipment to be used inside any building must have been DOP tested within the last 90 days. This DOP certification must be verified by Owner's agent/site representative prior to its use.

The Contractor shall provide worker safety according to all OSHA regulations (Title 8), including use of tie-offs, harnesses, and lanyards. Particular attention shall be given to the placement and securing of accesses (ladders, etc.) to the roof and for fall protection for those working near the perimeter of the roof.

All ladders used shall conform to Cal/OSHA requirements. The ladders shall extend at least three feet above the roof line and shall be tied off to the building to prevent them from sliding.
Contractor Responsibilities

The Contractor shall be responsible for securing all exposed roof surfaces, including any roof penetrations against weather after roofing materials have been removed. Protection of the roof must be made with an impermeable barrier to prevent water from entering the building structure.

The Contractor will be responsible for all clean-up and costs associated with the decontamination of occupied spaces in the event of contamination of an occupied space.

The Contractor is responsible for any contamination of the attic space above the existing ceilings inside the buildings caused by their work, except as noted specifically in the Scope of Work.

The Contractor is responsible for damage to the roofing substrate and will be responsible for repair or replacement if damaged.

The Contractor is responsible for removal of all roofing layers and associated materials such as roofing nails, insulation, fiberboard, etc. down to the wood or metal substrate regardless of asbestos content, unless otherwise noted in the Scope of Work. Where it is unknown how many layers of roofing materials exist, it must be assumed that there are multiple roofing layers present. The Contractor may, upon request and approval by the Owner, collect core samples of any roof to be removed for the purpose of determining its depth and structure. If coring is conducted, it is the responsibility of the Contractor to repair the areas affected to industry standards using non-asbestos materials.

The Contractor is responsible for removing all roofing nails and driving in all nails used for securing the roofing substrate after roof material has been removed. The Contractor will not be required to remove silver paint or tar coating on conduit, roof jacks, heating, ventilation, and air conditioning (HVAC) equipment, flashings, etc. which will be reused by the Owner. Where flashing is to be reused, the Contractor shall carefully remove and save the flashing in an undamaged condition, unless otherwise required by the Owner. This section may be amended in the Scope of Work for this project.

The Contractor is responsible for removal and replacement of wood block or metal supports which may be present under conduit, gas lines, piping, HVAC units, ducting, etc. in order to perform the work. The Contractor is also responsible for temporarily installing wood blocks for any existing roof structures during the roofing removal, when it is necessary to remove existing support members to accomplish the work.

The Contractor is responsible for damage to all equipment and existing cables which are present on the roof. The Contractor is responsible for damage to electrical wiring, telephone lines, antenna wires, and other conduits which are present. An inspection for pre-existing conditions is the responsibility of the Contractor but may also be conducted by the Owner's representative.

The Contractor is responsible for obtaining all necessary permits to perform this work, including any local permits for work in the evening/night hours.

Standards of cleanliness for fluted metal decks located underneath asbestos-containing roofing materials. It is possible for the abatement crew to remove the asbestos-containing roofing materials without breaking through or removing the light grey insulation material beneath it. If removal of asbestos roofing materials is performed as described above, and the insulation material remains intact, Client’s agent/site representative can conduct a final visual for asbestos-containing debris. Once this inspection has been completed, and the requirement for no remaining asbestos-containing debris on the roof is met, the insulation layer is removed.

At this point, asbestos is no longer an issue, and Client’s agent/site representative will allow minor amounts of the non-asbestos debris to remain in the fluted areas of the deck. General cleaning of the flutes is conducted to a point where the amount of debris remaining is reduced to a minimal amount without having to completely clean or vacuum the flute channel.

The Client is unaware of any potential hazard which could be caused by leaving some non-asbestos debris and does not consider it necessary to have the flute channels detailed beyond generally clean conditions. However, if the fiberboard layer is extensively damaged during removal of the asbestos-containing materials, and asbestos-containing roofing debris cannot be distinguished from non-asbestos containing roofing materials, all flutes shall be vacuumed and cleaned as set forth in the project specifications.

Owner Responsibilities

The Owner is responsible for closing all windows in the building where the asbestos roofing material will be removed. This must be done prior to the asbestos abatement contractor arriving onsite for the work shift, in order to prevent delays.

The Owner shall also be responsible for cutting or trimming back all trees and limbs which may impact the removal of the existing roofing materials.

General Roof Removal Instructions and Requirements

Removal of non-friable asbestos-containing roofing is designated as Class II work. Half-masks and disposable coveralls shall be used at a minimum by all workers, at all times, when within the regulated area.

No personnel will be allowed into the regulated area during actual removal work without proper respiratory and personal protective equipment. Work boots with hard soles are required to be worn by all abatement personnel. No athletic, street, or dress shoes are to be worn during work activities.

All roofing material shall be removed in an intact state to the extent feasible.

All roofing is to be removed wet by an amended water solution or encapsulant as necessary.

The abated roof area shall be HEPA vacuumed after roofing materials have been removed. Particular attention shall be directed at the flute channels of metal decks.

Pre-Abatement Preparation Requirements

The Contractor shall seal all air intakes associated with the HVAC units which are on or near the roof under abatement, and at adjacent HVAC units, particularly downwind from roofing removal activity. In addition, all louvers, window mounted fan systems, attic openings, etc., shall be sealed as critical barriers. The Contractor is responsible for sealing all HVAC openings as critical barriers using one layer of 6 mil poly. These critical barriers shall be installed at the beginning of each shift and removed at the end of each shift prior to reuse by the Owner. If the building will not be reoccupied daily, the barriers may stay in place.

The perimeter of the roof where removal is to be conducted, shall be posted with barrier tape at a distance of at least 20 feet from the edge of the removal area. This barrier tape will provide a buffer zone and assist in the restriction of non-abatement personnel.

Poly sheeting shall be placed on the ground directly below the work area or on the adjacent roof surfaces and cover an area extending out at least 10 feet. The Contractor shall secure the poly to the ground using tape, weights, or other means to secure the poly from being picked up by wind or becoming a trip hazard. The Contractor shall secure the poly to the adjacent roof surfaces with tape, etc.

Waste Bin Preparations

The Contractor is responsible for inspecting all waste bins delivered to the job site for load worthiness. The Owner's agent/site representative reserves the right to refuse any waste bin without any additional cost to the client, which upon examination, and in the opinion of the site representative, has a high probability of failure of doors, skids, walls, floors, or which contains other debris.

The Contractor shall be required to place footing materials of sufficient thickness, strength, and size under the casters, footings, and/or runners of waste bin(s) to prevent damage of property surfaces. The contractor is responsible for all damages to Owner's property caused by the delivery, placement, or removal of a waste bin. Damaged property shall be repaired to equal or better condition than was present prior to the activity causing the damage. This section may be amended in the Scope of Work for this project.

Unless the roofing material is carried or passed to the ground by hand, it shall be lowered to the ground via covered, dust-tight chute, crane, or hoist. All waste shall be sufficiently wetted with amended water to prevent fiber release. If fiber release cannot be prevented, then the chute and bin must be within a negative pressure enclosure. In no case shall roofing materials be dropped or thrown into trucks, bins, or waste bins from the roof without the protection of a dust tight chute or other means acceptable to the PMP, Inc. Project Manager.

Posting and Label Requirements for:

Regulated Area Entry Points and Waste Bin Perimeters

Access to regulated areas shall be posted as outlined by Cal/OSHA Title 8, 1529 (k)(7)(B) 1 and 2 with warning signs. Perimeters of waste bin(s) shall also be posted as outlined by Cal/OSHA Title 8, 1529 (k)(7)(B) 1 and 2 with barrier tape bearing the following information:

DANGER
ASBESTOS
CANCER AND LUNG DISEASE HAZARD
AUTHORIZED PERSONNEL ONLY
RESPIRATORS AND PROTECTIVE CLOTHING ARE
REQUIRED IN THIS AREA

These postings are required to warn non-abatement personnel of the restricted access, and potential hazard which exists in the vicinity of the regulated areas and waste bin(s).

Building Perimeter at Ground Level

Building perimeters shall be posted with barrier tape bearing one of the following descriptions:

CAUTION in black letters on a solid yellow background.
DANGER in black letters on a solid red background.
DANGER ASBESTOS HAZARD in black letters on a solid red background.

Waste Material Containers

Waste material containers, including the "burrito wrapped" material, shall have warning labels affixed in accordance with Cal/OSHA Title 8, 1529 (k)(8) (A-D).

DANGER
CONTAINS ASBESTOS FIBERS
AVOID CREATING DUST
CANCER AND LUNG DISEASE HAZARD

General Requirements for Creating Roof Penetrations

All roofing penetration cuts (if any) shall be at the direction of the primary contractors' Job Foreman and coordinated with Owner's agent/site representative as to the time of work. Any equipment to be used for the purposes of cutting, grinding, or sanding must meet or exceed all Cal/OSHA requirements regarding HEPA filtration and wetting/misting. Any equipment rented for the purpose of conducting asbestos work must be accompanied with documentation verifying that the rental agency has been notified and acknowledges receipt of notification that the equipment being rented will be used for asbestos related work. This documentation will be submitted to Owner's agent/site representative prior to the equipment being used on the job site.

The penetration area shall be surrounded by a 10-foot-wide section of at least 4 mil poly. This poly will help in the cleanup of small roofing material particles which may otherwise be mixed onto the surface of surrounding roof material. If the penetration is within 10 feet of the edge of the roof, poly shall be placed on the ground (or roof) directly below the work area. The Contractor shall secure the poly to the ground using tape, weights, or other means to secure the poly from wind and becoming a trip hazard.

Waste Disposal and Documentation Requirements

31. Roofing waste may be disposed as non-hazardous asbestos waste, in a landfill permitted to accept non-friable, non-hazardous asbestos roofing material. If the asbestos roofing material is currently friable, or becomes friable during its removal, it shall be disposed of in a landfill permitted to accept friable asbestos waste.

It is acceptable to dispose of bagged or sealed roofing waste into open topped waste bins lined with a single layer of 6 mil poly sheeting. The Contractor shall completely enclose all roofing waste material commonly known as "burrito wrap" in the waste bin using 6 mil poly sheeting. Upon being lowered, unwrapped material shall be transferred to a closed receptacle in such a manner as to preclude the dispersion of dust. In addition to the 6 mil poly sheeting, the top of the waste bin shall be completely enclosed with a tarp which is secured to the vehicle for transport or storage onsite if left overnight. The type of material for the tarp shall meet all requirements for transport of hazardous materials.

32. The Contractor is required to provide to Owner's agent/site representative a copy of the "trip tickets" indicating the actual weight of waste material.

20.5 Vinyl Asbestos Floor Tile (VFT) Removal Requirements

Contractor shall conduct VFT and/or mastic removal within a regulated area as defined by 8 CCR 1529.

1. The doors, windows, and penetrations into the rooms shall be sealed with polyethylene. All ventilation systems shall be locked-out and sealed as critical barriers. An attached three stage decon with operational shower is required. The Scope of Work may require more chambers depending upon the project size.

   Baseboards shall be removed if necessary to access all VFT. If baseboard mastic contains asbestos, baseboards are not to be disturbed prior to start of abatement.

   Half-mask respirators, rubber boots, gloves, and disposable coveralls are to be used as a minimum for worker protection.

4. The VFT's must be double bagged in 6 mil poly bags. It is acceptable to place several

bags of VFTs into a barrel lined with a second 6 mil poly bag.

5. All VFT's and mastic must be sufficiently wetted with amended water when being lifted off the floor.

6. The mastic layer may be removed either by solvent or wet buffing with a solvent. If a solvent is used, the negative air unit exhaust shall be directed downwind as much as possible, or a sufficient length of exhaust hose will be required to prevent re-entrainment of the vapors. Any solvents used for removing mastic shall be non-toxic low odor and non-flammable. A material safety data sheet for the solvent shall be provided and subject to approval by the project manager prior to use. MSDS must match solvent being used on the current jobsite.

7. During removal of the mastic with solvent or other organic based liquid, combination respiratory cartridges (organic vapor/HEPA) shall be worn to protect against asbestos and the solvent.

8. If floors are removed after walls and ceilings, full enclosure of the walls and ceiling with poly will be required, no matter what method of tile and mastic removal is used. If floors are removed prior to walls and ceilings which will eventually be removed as asbestos containing materials, then critical barriers and splash guards are all that will be required. All surfaces and materials not being removed as asbestos containing material must be covered with poly no matter which order floors walls and ceiling are abated.

Following removal of all floor tile and mastic, the contractor shall wash the floors thoroughly using a solution of trisodium phosphate (TSP) and water. Sufficient water shall be used for final rinsing of the floor for a clean finish.

If the removal of the floor mastic is on a wood substrate (or this technique is required in the scope of work), contractor is to use a mixture of the low odor mastic removal chemical and diatomaceous earth or (equivalent) to form a paste. Mix the paste to a consistency that will still be effective on the mastic and reduce the absorption of the chemical into the wood substrate, or seepage under casework and into concrete crevasses.

No bead blasting or shot blasting is allowed to be performed on these projects.

20.6 Drywall Removal Requirements

1. The doors, windows, and penetrations into the rooms shall be sealed as critical barriers with 6-mil polyethylene. An attached three stage decon with operable shower is required. The Scope of Work may require more chambers depending upon the project size.

   Powered air purifying HEPA respirators, rubber boots, gloves, and disposable coveralls are to be used as a minimum for worker protection.

   Shut down and lock out all heating, ventilating, and air-conditioning-system (HVAC) components that are in, supply or pass through the work area. Seal all intake and exhaust vents in the work area with tape and two layers of 6-mil polyethylene within the work area (interior) and one layer of 6-mil poly on the exterior of the building. Also seal any seams in system components that pass through the work area. Remove all HVAC system filters and place in labeled 6-mil polyethylene bags for storing and eventual disposal as asbestos-contaminated waste.

4. The drywall must be double bagged and “goose-necked” in 6 mil poly bags. It is acceptable to place several “goose-necked” bags of drywall into a barrel lined with a second 6 mil poly bag that is “goose-necked”.

5. All drywall must be sufficiently wetted with amended water when being removed.

Negative pressure shall be established, maintained, and recorded. This shall be verified by using ventilation smoke tubes.

Contractor, in conjunction with the Client/Owner, shall shut down and lock out electric power to all work areas. Contractor shall provide temporary power and lighting sources, ensure safe installation (including ground faulting) of temporary power sources and equipment by complying with all applicable electrical code requirements and OSHA requirements for temporary electrical systems. Contractor shall have a certified electrician shut down and lock out electric power, and setup temporary power and lighting sources. All cost for electric supply shall be paid for by the Client/Owner.

Contractor shall have a certified plumber disconnect and cap all water and gas within the work area. Water shall be provided by the Client from a location near the work area, but not within the work area.

All non-asbestos-containing materials left in the work area shall be covered by two layers of 6-mil polyethylene sheeting. If any non-asbestos containing materials become contaminated with asbestos during removal activities these materials shall be disposed of as asbestos-containing materials by the Contractor.

A critical barrier only, negative pressure check shall be required prior to the set-up of interior containment.

Cover floors in the work area with polyethylene sheeting. Floor shall be covered with a minimum of two layers of 6-mil polyethylene sheeting. Plastic shall be sized to minimize seams. A distance of at least six (6) feet between seams is sufficient. DO NOT locate any seams at wall/floor joints. Floor sheeting shall extend at least twelve inches (12") up the sidewalls of the work area. Sheeting shall be installed in a fashion to prevent slippage between successive layers of material. A layer of 10-mil polyethylene sheeting and/or plywood will be required to protect certain flooring materials -- carpets, hardwood floors, tiles, etc. At no time will wall or ceiling surfaces be permitted to be dropped onto unprotected floors. This includes areas where the floor surfaces contain asbestos.

Cover asbestos-containing walls in the work area with polyethylene sheeting if these walls are to remain or if these walls are non-asbestos containing and will remain. Walls shall be covered with a minimum of two layers of 4-mil polyethylene sheeting. Plastic shall be sized to minimize seams. Seams shall be staggered and separated by a distance of at least six feet (6'). DO NOT locate any seams at wall/floor joints. Wall sheeting shall overlap floor sheeting by at least twelve inches (12") beyond the wall/floor joint to provide a better seal against water damage and for pressure differential maintenance. Wall sheeting shall be secured adequately to prevent it from falling away from the walls. This may require additional support/attachment when pressure differential systems are utilized.

Cover asbestos -containing ceilings in the work area with polyethylene sheeting if they are to remain or if these ceilings are non-asbestos-containing and will remain. Ceilings shall be covered with a minimum of two layers of 4 mil polyethylene sheeting. Plastic shall be sized to minimize seams. Seams shall be staggered and separated by a distance of at least six

feet (6'). DO NOT locate seams at wall/ceiling joints. Ceiling sheeting shall overlap wall sheeting by at least twelve inches (12") beyond the ceiling/wall joint to provide a better seal against water damage and for pressure differential maintenance. Ceiling sheeting shall be secured adequately to prevent it from falling away from the walls. This may require additional support/attachment when pressure differential systems are utilized.

If floor tile and drywall are to be removed within the same work area the floor tile and mastic shall be removed first, followed by the drywall removal. If the contractor wishes to submit a different removal work plan it shall be submitted prior to the beginning of the project. The PMP, Inc. Project Manager will review this work plan and respond in writing if it is accepted, or if it is accepted under condition of amendment.

Asbestos Abatement Contractor is required to remove nails, screws and/or other wall/ceiling material attachments.

Asbestos Abatement Contractor may remove studs with asbestos containing materials still attached, as long as they are to be removed, and are disposed of as asbestos-containing material.

Asbestos Abatement Contractor may not cut any sheer wall for any reason, without prior consent from the project Architect.

No damage will be permitted to studs that are to remain in place. Wall surfaces are to be peeled away, not pounded. The Contractor shall be financial responsible for any damage caused to studs.

Contractor is responsible for clean-up of all texturing and joint compound found on studs and rafter, as well as other surfaces behind, or inset into, the drywall materials.

Adhere to other requirements as stated in Sections 1-19, 21 and 22.

Following removal of all drywall, the contractor shall encapsulate the area with an encapsulate that is compatible with the reinstallation of wall and/or ceiling surfaces. The floors shall not be encapsulated unless otherwise noted in the Scope of Work, or stipulated by the PMP, Inc. Project Manager.

NOTE: All Specific Procedures and Requirements listed in Section 20 shall be reviewed by the contractor along with the Scope of Work issued for the project. If any perceived conflicts are present between the Scope of Work and these specifications or within the General Requirements specification itself, the contractor shall ask for a written interpretation from the PMP, Inc. Project Manager prior to submission of his bid. If conflicts in the “Scope of Work” and this specification, or with the General Requirements specification itself are discovered after the start of abatement, the more stringent specification and/or requirements will be enforced. The PMP, Inc. Project Manager shall make the determination as to which requirements and/or specifications are more stringent. If the materials to be removed during the project do not relate to any of the procedures in Section 20 or multiple materials exist within the work area, the contractor shall follow those procedures outlined in Sections 1-19, 21 and 22.

SECTION 21. PATENTS AND PREVAILING WAGES

21.1 Patents

Contractor shall pay all royalties and license fees required for the performance of the work. Contractor shall defend suits or claims resulting from contractor's or any subcontractor's infringement of patent rights and shall indemnify Owner and Owner’s representative from losses on account thereof.

21.2 Prevailing Wage Requirements

The asbestos abatement contractor is always fully and totally responsible for compliance with payment of prevailing wage rates pursuant to provisions of the California Labor Code, for compliance with Division 2, Part 7, Chapter 1, California Labor Code, including but not limited to Section 1776; and for compliance with California Labor Code, Section 1777.5 for all apprenticeable occupations.

SECTION 22. PERMITS AND FEES

If any permits are required to be issued for any of the Work to be performed by Contractor, Subcontractor(s) or Sub-subcontractor(s) as part of the Project, it shall be the sole responsibility of the Contractor to expeditiously obtain all such permits and any costs incurred by the Contractor in obtaining such Permits shall be included within the Contract Price.

Lead General Requirements

GENERAL REQUIREMENTS FOR LEAD

PART 1: GENERAL REQUIREMENTS

1.1 SUMMARY

These specifications are designed to minimize and control potential lead hazards during demolition of construction materials that contain lead.

The primary focus of these specifications is to address the work practices and procedures that the Contractor must follow when conducting activities that may disturb lead in coatings on building surfaces.

No Contractor shall begin work that will disturb any surfaces in a manner that will either expose a worker to possible lead containing dust or create possible lead containing waste, until all required pre-construction documentation has been reviewed and written approval from The Owner has been received. Any Contractor observed conducting such activities without having written approval from THE OWNER will be instructed to stop work. Work will not be allowed to resume until the approval has been received by the Contractor.

These specifications shall apply to all work activities that are expected to disturb coatings containing lead. These activities include demolition of coated surfaces and the removal of lead coated building components.

The Contractor shall utilize engineering controls to limit the release of lead dust or debris. These engineering controls may include, but are not limited to, using wet methods, using tools with vacuum recovery systems with High Efficiency Air Particulate (HEPA) filtration, using vacuums with HEPA filtration, and the prompt cleanup of any debris produced. Dry scraping, sanding, grinding, or abrading lead-containing materials is not permitted.

1.2 REGULATORY COMPLIANCE

There are various agencies that regulate activities involving lead-containing paints and coatings. The following definitions are discussed in order to assist in the interpretation of the requirements that follow. The following is a summary list of the most important agencies and regulations that apply to the disturbance of lead and lead in coating during construction work. This list is not to be considered comprehensive. The Contractor is responsible for complying with all applicable Federal, State, and Local regulations that may apply to the specific work being conducted by the Contractor.

1.2.1 ENVIRONMENTAL PROTECTION AGENCY (EPA)

Lead: Identification of Dangerous Levels of Lead; Final Rule (40 CFR Part 745 Subpart D)

The EPA defines lead-based paint as paints and coatings that contain lead in concentrations equal to or more than one milligram per square centimeter (1 mg/cm^2), 5000 parts per million (5000 ppm), or one half of one percent (0.5%) by weight. EPA regulations apply to all housing

and child-occupied facilities built before 1978. When the term A lead-based paint is used in the context of these specifications, the term is used only to refer to paint that contains lead in concentrations equal to or greater than that defined by the EPA as lead-based paint. (This is to differentiate lead-based paint from the term A lead-containing paint as used for compliance with OSHA and Cal/OSHA.)

1.2.2 HOUSING AND URBAN DEVELOPMENT (HUD)

Requirements for Notification, Evaluation and Reduction of Lead-Based Paint Hazards in Federally Owned Residential Property and Housing Receiving Federal Assistance (24 CFR Part 35)

The HUD Rule for Federal Housing (shortened name) applies to all residential properties built before 1978 that receive Federal financial assistance. This regulation uses the same definition of lead-based paint as the EPA. The work practices and procedures described in these specifications are designed to comply with occupant and worker protection regulations as mandated by OSHA and Cal/OSHA regulations for work that disturbs lead paint. These specifications are not designed to comply with all the requirements of 24 CFR Part 35. THE OWNER may require additional practices and procedures in the scope of work for activities conducted in properties covered by the HUD Rule for Federal Housing.

1.2.3 CALIFORNIA DEPARTMENT OF PUBLIC HEALTH (CDPH)

Accreditation, Certification, and Work Practices for Lead-Based Paint and Lead Hazards (Title 17, CCR, Division 1, Chapter 8, Sections 35000-361000)

This regulation primarily applies to residential and public buildings located in California. The definition of a public building is one that is generally accessible to the public. Some aspects of this regulation, particularly those that pertain to the definition of presumed lead-based paint and the containment requirements for disturbing lead-based paint apply to all structures in California.

This CDPH regulation definition of lead-based paint is identical to the EPA/HUD definition of 1 mg/cm^2, 5000 ppm, 0.5% by weight. In addition, this regulation requires all paint on structures in California to be treated as presumed lead-based paint unless the paint is on a home built after 1978 or a school built after 1992.

The CDPH regulation differentiates between work that disturbs lead as part of renovation or maintenance work and work that disturbs lead as part of abatement work as defined in Title 17. The work practices and procedures described in these specifications are designed to comply with worker protection regulations as mandated by OSHA and Cal/OSHA regulations for work that disturbs lead as part of demolition work. These specifications are not designed to comply with the requirements for abatement as defined in the CDPH Title 17 regulation. THE OWNER may require additional practices and procedures in the scope of work for activities conducted as abatement as defined by Title 17.

1.2.4 OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (CAL/OSHA)

Lead Standard for the Construction Industry (CFR 1926.62) (8 CCR 1532.1)

This standard regulates work done by employees who may disturb lead as part of renovation or maintenance work.

The OSHA and the Cal/OSHA standards are virtually identical though Cal/OSHA adds some requirements that are not in the OSHA standard.

OSHA and Cal/OSHA regulate lead whenever lead is determined to exist in a material. When the term lead-containing paint is used in the context of these specifications, the term is used to refer to paint that contains lead in an amount equal to or above the reporting limit for the laboratory analysis or detected by an X-ray Fluorescent Analyzer (XRF).

In addition, Cal/OSHA uses the EPA/HUD/CDPH definition of lead-based paint (1 mg/cm^2, 5000 ppm, 0.5% by weight) for their pre-job notification requirements discussed in section 1.3.

The Cal/OSHA standard has additional requirements that are not in the Federal OSHA standard found in CFR 1926.62. Contractors not familiar with the California standard must familiarize themselves with the additional requirements. The following information summarizes the significant additional requirements in the Cal/OSHA standard. This summary is not meant to substitute for the Contractor reading and being familiar with the Cal/OSHA requirements.

a. The California standard requires employers to notify Cal/OSHA before employees conduct a trigger task that will disturb more than 100 square or linear feet of material that contains lead in concentrations equal to or above 1 mg/cm^2, 5000 ppm, 0.5% by weight. The notification also applies to welding or torch cutting that takes more than one hour in a shift. Trigger tasks are described in 8 CCR 1532.1 (d)(2). In brief, they include manual demolition, scraping, sanding, using HEPA-attached equipment, using heat guns to remove lead paint, welding, torch cutting, and using other more aggressive techniques. (This is a summary list and does not list all task that are considered trigger tasks.)

b. The California standard defines lead-containing paint at the Consumer Product Safety Commission’s (CPSC) level of 0.06% by weight or 600 ppm for non-trigger tasks. However, both the California and Federal OSHA standards require training, personal protective equipment, and specific work practice precautions whenever employees will disturb lead in any concentration (including less than 600 ppm). Thus Cal/OSHA (like OSHA) regulates paint when it contains lead above the reporting limit for laboratory analysis or detectable by an XRF.

c. The California standard also requires CDPH lead training and certification for any supervisors or workers who are shown to be exposed to airborne lead levels above the PEL in residential or public buildings. (A public building is defined as being generally accessible to the public.)

d. The California standard uses the term a regulated area. Cal/OSHA requires the supervisor to establish a regulated area whenever workers may be exposed to airborne lead over the PEL or if they will perform A trigger tasks as defined in 8 CCR 1532.1 (d)(2).

1.3 LEAD WORK PRE-JOB NOTIFICATION REQUIREMENTS

The Contractor is responsible for complying with the Lead-Work Pre-Job Notification as specified in 8 CCR 1532.1 (p). Notification is required for this project; therefore, the Contractor must provide the notification to Cal/OSHA and provide a copy of this notification to THE OWNER as part of the Contractor's pre-work submittal package.

1.4 DOCUMENTS PROVIDED TO THE OWNER BY THE CONTRACTOR

While additional documents may be required by the scope of work for this project, at a minimum the Contractor will be required to provide THE OWNER with the following documents regarding the Contractors ability to safely disturb paint and other materials that contain lead.

1.4.1 DOCUMENTS SUBMITTED PRIOR TO THE START OF WORK

a. A written compliance plan must be provided to THE OWNER and include the following:

1. A description of equipment and materials, controls, crew size, job responsibilities, and operations and maintenance procedures for each activity in which lead is disturbed and potentially emitted.

2. A description of specific control methods (wet methods, engineering controls, etc.);

3. Technology considered in meeting the Cal/OSHA permissible exposure level (PEL);

4. Air monitoring data documenting sources of lead emissions.

5. A detailed implementation schedule for the compliance plan, including the schedule for inspections by a competent person.

6. A description of the lead work practice program which will be used to control worker exposures. This includes the use of protective work clothing, equipment, hygiene facilities and practices, and housekeeping practices.

7. A description of the steps the Contractor will take to minimize the generation of hazardous waste produced on this project. This includes but is not necessarily limited to how the contractor will separate waste streams. For example, how will the Contractor keep potentially hazardous waste such as paint chips and dust from being disposed of with other potentially non-hazardous construction materials and debris.

Note: If the Contractor is found conducting lead related work not specifically mentioned and described in the compliance plan, the work will be stopped until a compliance plan including that work is submitted, reviewed, and approved by THE OWNER.

b. The Contractor shall submit to THE OWNER copies of recent (performed within the previous 12 months or less) blood sampling and analysis test results of lead (BLL) and zinc protoporphyrin (ZPP) levels for all workers who will be performing any Trigger Tasks

with regards to lead-containing paints as defined in 8 CCR 1532.1 (d)(2).

c. The Contractor shall submit to THE OWNER copies of current medical evaluations and respiratory fit test records done in compliance with 8 CCR 1532.1 for all workers exposed to lead and/or who will wear respirators on this project. The Contractor is responsible for maintaining current documents and resubmitting copies to THE OWNER for any worker whose documents expire during the project. Any worker observed on a job site who either is not approved to conduct work by THE OWNER or has been approved but documentation pertaining to training, medical evaluation, or respiratory fit testing has expired, will be instructed to stop work until these documents are received by THE OWNER and the worker is approved to perform work that disturbs lead.

d. The Contractor shall submit to THE OWNER proof that the supervisor and workers meet the training requirements listed in 8 CCR 1532.1 (l)(2) for employees who may be exposed above the Action Level of 30 micrograms per cubic meter ($\mu g/m^3$) based on an eight-hour time-weighted average.

e. If CDPH regulations are triggered the Contractor shall submit to THE OWNER proof of current CDPH certification as a lead supervisor for the onsite competent person for all projects that include trigger tasks (as defined in 8 CCR 1532.1 (d)(2). This requirement applies whether the activities disturb lead-based paint or lead-containing paint. (Summary: the supervisor must be a CDPH Certified Lead Supervisor if the crew will conduct trigger tasks on paint containing lead.)

f. If CDPH regulations are triggered the Contractor shall submit to THE OWNER proof of current CDPH certification as lead workers for all workers who will conduct trigger tasks (as defined in 8 CCR 1532.1 (d)(2)) whenever the tasks will disturb lead-based paint as defined by EPA/HUD/CDPH.)

1.5.1 Documents That Must Be Provided to THE OWNER During the Course Work (Or Following Completion Of The Work If Applicable)

The following documents must be provided THE OWNER following completion of the physical activities associated with the project. The following documents must be received and approved by THE OWNER before the work is considered completed and payment issued.

a. The Contractor must provide the results of exposure sampling done to comply with the requirements of 8 CCR 1532.1 (d). Sample information must include (but is not restricted to) the name of the individuals wearing the samples, the individuals' Social Security Number or Company ID number, the date the samples were collected, identification by unique method of the area where the work is being performed, and identification of the work being performed. Laboratory results shall be provided to THE OWNER within 72 hours of sample collection.

b. The Contractor must provide all waste disposal documentation.

c. Local sanitation district Wastewater Discharge Permit for Surface Washers (if required).

1.5 THIRD PARTY OVERSIGHT

THE OWNER has retained the services of an independent third-party consultant to provide oversight of the project. The Contractor shall treat this third-party consultant as a designated representative of THE OWNER.

1.6 AIR SAMPLING BY THE OWNER

THE OWNER may determine it appropriate to collect air samples to evaluate the effectiveness of the Contractor's engineering controls and work practices. Air sampling may also be used to verify the effectiveness of the Contractor's containment system.

1.7 AIR SAMPLING BY THE CONTRACTOR

The Contractor is responsible for conducting exposure air sampling of the Contractor's employees that complies with the requirements of 8 CCR 1532.1 (d). Should the Contractor wishes to make use of the exceptions to air sampling stated in 8 CCR 1532.1 (d)(3)(C) & (D), the Contractor must submit the required information to THE OWNER and receive written approval from THE OWNER prior to the Contractor reducing the personal protection, containment, or engineering controls stated in this specification. In summary, prior to any actions being taken based on the results of previous sampling conducted at different job sites, THE OWNER must specifically approve the use of those results and the actions the Contractor wishes to take based on the results of that sampling.

1.8 NOTIFICATION OF EMPLOYERS OF EMPLOYEES IN ADJACENT AREAS

The Contractor is responsible for ensuring that employers of employees in areas adjacent to the work being conducted have been notified that work disturbing lead will take place. This notification is in addition to the posting of lead regulated area signs. This notification of adjacent employers is the ultimate responsibility of the Contractor but should be done in consultation with THE OWNER. In summary, this notice shall be provided to all other contractors and subcontractors in areas adjacent to the work. Those employers must be notified in advance of any upcoming work that will disturb or impact lead in a manner that may generate airborne levels of lead that could present a potential exposure to workers at or above the Permissible Exposure Limit (PEL) as defined in 8 CCR 1532.1(c).
This notice shall also provide information on the control measures being implemented and a warning that the employer's employees are to remain outside of the posted regulated areas.

1.9 PROTECTION OF ADJACENT ITEMS

The Contractor shall remove or protect items (if any) located within 20 feet of all paint disturbance areas in order to avoid contaminating those items with lead. Those items may have to be relocated or disposed of prior to the start of work. The Contractor must coordinate with THE OWNER the removal of items, the storage of those items, and the protection of items or materials left inside the work area.

1.10 PROTECTION OF ACCESS/EGRESS OF BUILDING OCCUPANTS

The Contractor is responsible for ensuring that building occupants and those in adjacent areas are not exposed to lead dust or debris as they enter or exit buildings. The Contractor shall ensure that building occupants and others in the adjacent area do not enter the lead regulated area and have a safe means of access and egress to the building.

1.11 TRAINING REQUIREMENTS

For all work that will require performing trigger tasks (as defined in 8 CCR 1532.1 (d)(2) on lead-containing or lead-based paint, the Contractor shall provide a competent person who is currently certified as a lead supervisor by CDPH. The CDPH-certified supervisor must be on site whenever work disturbing lead is being conducted. Workers conducting trigger tasks on lead-based paint do not have to be CDPH certified, unless CDPH regulations are triggered by exposure levels or creation of a lead hazard during stabilization or demolition activities. Those conducting trigger tasks or other activities disturbing lead on lead-containing paint (but not lead-based paint) must, at a minimum, meet the training requirements listed in 8 CCR 1532.1 for those workers who may be exposed above the Action Level.

1.12 SUSPENSION OF WORK

THE OWNER or its designated agents may suspend all work that disturbs lead if any controls (such as barriers) fail, if excessive amounts of debris known or suspected to contain lead are detected outside the containment, or if work is on the exterior of a structure and wind speeds are more than twenty miles per hour, or if in the judgment of THE OWNER, other factors exist that determine the work must be stopped because of the potential of lead hazards being created. For example, THE OWNER may conduct perimeter monitoring and discover that lead is being released in concentrations above 1 $\mu g/m^3$ above background levels or work area air monitoring that is above 15 $\mu g/m^3$ calculated on an eight-hour time-weighted-average. In either case, THE OWNER may suspend work until more effective containment, work practices, and engineering controls are utilized.

2.0 MATERIALS AND EQUIPMENT

2.1 FIRE RESISTANT PLASTIC SHEETING (POLY)

All plastic sheeting used on this project must be fire resistant.

2.2 CHALLENGE TESTING OF HEPA FILTRATION SYSTEMS

All HEPA equipped vacuums and pressure differential units to be used on this project during lead-containing paint operations shall be tested and meet ANSI requirements using DOP or an equivalent testing agent. This testing must take place on site prior to their use and after replacement of any HEPA filter removed from previously tested equipment. Copies of all certifications must be provided to THE OWNER prior to use of the equipment.

2.3 VACUUM-ASSISTED TOOLS

When using power tools to disturb lead, the Contractor shall only use tools that have a vacuum assisted process equipped with HEPA filtration. The Contractor must receive written approval from THE OWNER for the use of all power tools for which the Contractor feels a HEPA-vacuum assisted process is not feasible.

2.4 POWER WASHING

For the purposes of this specification, power washing is defined as: The use of a low pressure a power washer to rinse/wash stable painted or coated surfaces to remove dust, dirt, grime, and other foreign matter in preparation for re-painting. In no circumstance is this to be construed as water blasting and is not intended nor shall be used to remove lead-containing paints or coatings from surfaces. Areas of loose, peeling, cracking, or unstable coatings shall be stabilized using the appropriate methods and personnel protective equipment as specified by Cal/OSHA and CDPH regulations (if applicable), and these specifications.

If lead paint chips are removed by power washing, all water runoffs must be contained. Prior to performing power wash operations, the Contractor must determine if the local sanitation district requires a Wastewater Discharge Permit for Surface Washers. Should this permit be required, the Contractor is responsible for obtaining it, accurately completing it and adhering to the permit requirements.

2.5 PERSONAL PROTECTIVE EQUIPMENT

The Contractor shall use respirators and personal protective equipment as required by 8 CCR 1532.1 and as appropriate based on personal air monitoring results. All respirators must be NIOSH/MSHA approved.

Respirator fit test records and the respiratory protection program shall be retained on site as part of the project documentation if respiratory protection is used on this project. Disposable dust/mist respirators shall not be used.

At a minimum, half-face respirators with P-100 cartridges will be required during surface preparation where there is manual scraping or sanding.

At a minimum, the Contractor must ensure that no lead dust or debris is tracked out of the contained, regulated area. The Contractor must ensure that all those allowed into the regulated area have adequate foot coverings that ensure that they will not track contaminated material out of the area when they leave.

3.0 EXECUTION

3.1 SUMMARY

Contractors conducting lead related construction work will be evaluated on a performance standard which includes, but is not limited to, cleanliness of work area, work practices as verified by exposure monitoring, containment set up, and ultimately, the cleanup of paint chips,

dust, and debris.

Any work practice that creates paint chips, dust, or painted debris must be conducted within a regulated area as defined in 8 CCR 1532.1 and within a containment at least as stringent as described in these specifications. The containment system shall be designed and constructed to prevent visible dust or debris from escaping the work area. The regulated area shall be in compliance with the Cal/OSHA lead in construction standard found in 8 CCR 1532.1 (i)(6) and Title 17. In addition, the containment shall be designed to avoid generation of airborne lead in concentrations above 1 ug/m^3 above background levels as measured downwind at the perimeter of the work area.

3.2 COMPLIANCE WITH REQUIREMENTS FOR THE PERMISSIBLE EXPOSURE LIMIT AND ACTION LEVEL

Contractor must comply with all OSHA requirements specified for work that results in exposures over the PEL. This will include, but is not limited to, complying with requirements for training, personal protection, regulated area development, blood testing, personal air monitoring, the development of a written compliance plan, and the notification of employers in adjacent areas.

Contractors must assume the Action Level of 30 micrograms per cubic meter (ug/m^3) will be exceeded each time a new job task is conducted.

Contractors shall conduct personal air monitoring for each different work practice or activity that disturbs materials containing lead. Monitoring shall continue until all different job classifications have been shown not to expose workers to lead levels above the Action Level of 30 ug/m^3.

THE OWNER may choose to collect area air samples within the work area. These samples results may be used to generate an eight-hour, time-weighted average. The result of area samples in a lead work area should normally be far below what the workers are breathing. Therefore THE OWNER air work area air samples that result in exposures above 15 ug/m^3 will trigger a re-evaluation of the Contractor's work practices, engineering controls, and containment system.

3.2.1 PERSONAL AIR SAMPLING

The Contractor is responsible for conducting personal air monitoring during disturbance of lead-containing or lead-based paint to evaluate airborne exposures during performance of any work listed as a Trigger Task as discussed in 8 CCR 1532.1 (d) (2). This sampling shall be in accordance with Cal/OSHA regulations found in Title 8 Section 1532.1, in order to determine worker exposure to lead and evaluate the effectiveness of the Contractor's written Compliance Work Plan submitted to THE OWNER.

3.2.2 ALTERNATE WORK PLANS

The Contractor may submit alternate work plans to the Owner's suggested work practices. These alternate work plans must be approved by THE OWNER prior to their implementation.

3.3 PROHIBITED WORK PRACTICES

The following work activities are prohibited on the project:

a. Open flame burning or torching.

b Machine sanding or grinding without a tool equipped with a vacuum recovery system that includes High Efficiency Particulate Air (HEPA) filtration.

c. Un-contained hydro-blasting or high-pressure washing.

d. Abrasive blasting or sandblasting without a tool equipped with a vacuum recovery system that includes HEPA filtration or done outside of a negative pressure enclosure.

e. Heat guns operating above 1,100 degrees Fahrenheit.

f. Dry scraping (except for limited areas where electrical hazards create a higher risk than lead.)

g. Use of methylene chloride-based paint strippers.

3.4 COMPETENT PERSON

The Contractor shall have a competent person (as defined by Cal/OSHA) onsite to supervise and oversee all activities which may disturb materials containing lead. This person must be a CDPH Certified Lead Supervisor if trigger tasks will be performed as described in 8 CCR 1532.1 (d)(2). Trigger tasks include but are not limited to, manual demolition, scraping and sanding, using heat guns, power tool cleaning with or without dust collection systems, abrasive blasting, welding, cutting, torch burning, and debris clean-up.

3.5 WORK SITE PREPARATION

Preparation of the work area at the site must be completed using 6-mil polyethylene (poly) sheeting placed over floors, asphalt, concrete, soil, vegetation, and other surfaces in the immediate work area.

3.5.1 EXTERIOR WORK SITE PREPARATION

For exterior work site preparation, one layer of 6-mil poly sheeting should be placed on the ground extending at least 20 feet beyond the perimeter of surfaces included in the work. Depending on wind conditions, the poly may need to be extended further than twenty foot minimum. The poly on the ground must be adequate to catch all paint chips, dust and debris that is released by the work.

Do not anchor ladder feet on top of plastic (puncture the plastic to anchor ladders securely to ground). For all other exterior painted surfaces, protect the poly sheeting with boards to prevent puncture from falling debris, nails, etc., if necessary. Secure the plastic to the side of the building with tape, or other anchoring system, so there is no gap between the plastic and the

building. Weight all plastic sheets down using wooden two-by-fours or similar objects. If water blasting is to be performed raise edges of the plastic to create a catch basin to prevent runoff of contaminated water.

The exterior of all windows located within ten feet of any disturbance of lead must be sealed by covering them with at least one layer of six mil thick poly sheeting. All ventilation machinery within 20 feet of the disturbance should be sealed by at least one layer of six mil thick poly sheeting. Keep all windows within 20 feet of working surfaces closed, including windows of adjacent structures.

Should the disturbance of paint involve removing paint from the exterior of a window, then the Contractor must seal the inside of the window with two layers of 6 mil thick poly. There shall be no gaps between the interior wall and the material. THE OWNER may choose to waive the requirement to seal the inside of the window with two layers of poly if the disturbance of lead involves less than 5% of the painted surface area of an exterior window.

Those in adjacent areas must be kept a sufficient distance from any chance of encountering lead dust and debris. Therefore, the Contractor shall erect barrier tape at a 20-foot perimeter outside the edge of the containment area poly sheeting. This barrier tape shall comply with 8 CCR 1532.1 (m) and read WARNING, LEAD WORK AREA, POISON, NO SMOKING OR EATING.

The barrier tape must not be directly adjacent to poly sheeting used to contain dust and debris. There must be a buffer zone between the poly sheeting and the barrier tape. In summary, if the poly sheeting extends ten feet out from the surface being disturbed, the barrier tape must be placed 30 feet away from the surface being disturbed. If however, the poly sheeting extends to 20 feet out, then the barrier tape must be at least 40 feet out from the surface being disturbed. The area off the poly sheeting, but inside of the barrier tape, is still part of the regulated area but is not allowed to have any lead dust or debris present at any time.

THE OWNER recognizes that the distances described in developing the containment may not be feasible in certain situations. However, compromises in these requirements must be specifically approved by THE OWNER prior to their implementation.

The Contractor shall not conduct exterior work if wind speeds are greater than 20 miles per hour.

Work must stop and cleanup occur before rain begins.

The Contractor shall not leave debris or poly sheeting out overnight. The Contractor shall keep all debris, stored in metal barrels if hazardous waste, in a secured area until final disposal.

3.5.2 INTERIOR SITE PREPARATION

For interior work site preparation, one layer of 6-mil poly sheeting must be placed on the entire floor. However, the entire floor area need not be covered by poly for large interior areas where the disturbance of lead is limited to the perimeter of the area. If the entire floor area is not covered with poly, the poly must extend out a minimum of ten feet from those areas where lead

will be disturbed. The poly sheeting must be secured to the floor using tape so there is no gap between the floor and the wall.

If individual rooms are being worked in, seal all doorways with a primitive airlock flap to prevent contamination of other areas of the building. Post Lead Warning Signs at the building exterior near main and all secondary entryways. All ventilation systems must be turned off or sealed off in the room or interior space where lead will be disturbed. Any exceptions to this must be approved by THE OWNER. Ventilation system ducts and/or registers must be sealed with poly if they are within 20 feet of the disturbance of lead even if they are turned off. If furniture or other equipment are to remain in place, cover with a single layer of poly sheeting. All cleanup of the work area shall be performed using a HEPA vacuum and wet washing techniques.

3.6 WET WORK PRACTICES

If scraping or sanding is to be performed, this work must be done using wet methods unless a vacuum recovery system is used that includes HEPA filtration.

3.7 ABRASIVE BLASTING

Where abrasive blasting is performed by the Contractor, a negative pressure enclosure must be constructed using at a minimum six mil thick poly sheeting. The Contractor shall utilize air filtration units equipped with HEPA filtration to establish a negative pressure within the work area. Sufficient make-up air ports shall be installed with flapped openings and pre-filters to assist in providing outside air for dilution of airborne particulate. The integrity of the negative pressure enclosure shall be maintained at all times during the abrasive blasting work to prevent fugitive emissions.

3.8 OMITTED

3.9 LEAD WASTE MANAGEMENT

Waste disposal of all materials is the responsibility of the Contractor. The Contractor must plan the work in order to minimize the generation of hazardous waste during the demolition operation. The Contractor must create separate waste streams as necessary. This particularly includes the separation of any loose paint chips or flakes from other construction debris. All waste streams must be identified by the Contractor before the work begins and separated during the course of the project to minimize costs of disposal. The Contractor is responsible for all costs associated with the testing, removal, packing, loading, shipping, and disposal of lead containing waste generated during this project. (This does not include wastewater testing done to determine if power washing is permitted.)

The Contractor is required to comply with all regulations in Title 8 Section 1532.1 Lead in Construction, Cal/EPA Title 22 for waste classification and disposal.

3.9.1 LEAD WASTE TESTING

The Contractor must conduct appropriate waste stream characterization testing and/or filtering prior to disposal of waste products such as water, sand, paint chips, vacuum debris, and filters

generated during surface preparation activities. Once completed, the test analysis results must be submitted to THE OWNER for review. The Contractor is responsible for all costs associated with waste stream testing.

The Contractor may not remove or dispose of the identified materials from the job site until this review has been completed and the Contractor has been informed by THE OWNER of their concurrence that the materials have been properly tested and meet the requirements allowing the materials to be classified as non-hazardous. This process does not apply to any waste assumed or determined to meet levels of lead requiring the waste to be disposed of as hazardous waste.

3.9.2 WASTE MANIFESTS

The Contractor is responsible for obtaining and properly completing any Uniform Hazardous Waste Manifests needed for the disposal of lead containing waste. However, the Contractor SHALL NOT sign any Uniform Hazardous Waste Manifests for the Owner.

The Contractor SHALL contact THE OWNER in advance of the scheduled pick-up time and date so the waste materials can be visually inspected for proper packing. At that time the Contractor will deliver the Uniform Hazardous Waste Manifest to THE OWNER so it can be properly signed by THE OWNER.

3.10 DECONTAMINATION PROCEDURES

Decontamination procedures shall be established by the Contractor depending upon the airborne concentrations of lead, and shall, at a minimum, be in compliance with 8 CCR 1532.1 (i)(1-5). As stated in 8 1532.1 (i)(1-5), the Contractor shall assure that these decontamination facilities are used by the supervisor and workers. For work that does not exceed the PEL, the Contractor must assure that a hand-washing station is available and used by the supervisor and workers.
For work that exceeds the PEL, or is assumed to exceed the PEL, the Contractor must provide a shower facility.

3.10.1 AVOIDING CONTAMINATION OF ADJACENT AREAS BY PROPER DECONTAMINATION

The Contractor must ensure that no lead-contaminated dust or debris is tracked out of the regulated, contained area on the clothes or footwear of those allowed in the work area. Footwear worn out of the work area must have been covered by protective booties if worn in the work area. Following removal of the protective covering over the footwear, all footwear worn in the work area must be HEPA vacuumed before allowing it to be worn out of the regulated area. Footwear that can be washed before leaving the work area does not need to be covered by protective booties as long as the exterior of the footwear is thoroughly washed prior to being worn outside of the regulated area.

Should THE OWNER discover that an occupant of the regulated area leaves the regulated area without properly decontaminating, the Contractor will be required to clean the adjacent areas that in the opinion of THE OWNER may have been exposed to lead dust or debris from this

action. Failure to properly decontaminate is demonstrated by wearing protective clothing outside the regulated area that was previously worn in the area or by wearing footwear outside the regulated area that was not properly covered and/or decontaminated. The failure to adequately decontaminate will trigger the following cleaning. In all areas determined necessary by THE OWNER, the Contractor will be required to HEPA vacuum, then wet wash, then HEPA vacuum again all potentially contaminated areas and items to the satisfaction of THE OWNER. THE OWNER will not need to demonstrate the need for this cleaning by the presence of visible dust and will not need to collect settled dust samples in order to require the Contractor to implement the cleaning routine.

3.11 ENSURING EFFECTIVENESS OF CONTAINMENT

The containment system use by the Contractor must be designed to eliminate any lead dust or debris from leaving the regulated work area in an uncontrolled, uncontained fashion. Should the interior and exterior site preparation described in this section not be adequate at controlling the release of lead dust and debris, the Contractor must stop work and design a more effective containment system. The Contractor is responsible for designing an effective containment system. Should that require a different type of Containment than described in the compliance work plan provided THE OWNER, the Contractor must obtain approval from THE OWNER to implement the proposed replacement type of containment. All costs associated with developing an effective containment system are the responsibility of the Contractor.

3.11.1 WORK PRACTICES DONE TO ENSURE EFFECTIVENESS OF THE CONTAINMENT

The Contractor shall ensure the prompt cleanup of dust and debris created by the work. At a minimum, this means the work area must be cleaned of any visible dust and debris prior to any work stoppage (such as for breaks and/or lunch, or, if the containment is for an interior space, prior to the end of the work shift.)

The Contractor shall not allow significant amounts of paint chips and debris to gather on the poly sheeting and be trampled by the workers feet.

The Contractor shall ensure that at least one worker is assigned to chase down any paint chips or debris that might be blown off the containment. This is particularly necessary for any work done on the exterior of multi-story buildings.

3.11.2 WORK INVOLVING WHOLE COMPONENT REMOVAL

Prior to whole building components being removed, or demolition activities being started, loose peeling and flaking paint must first be either removed from the component surfaces or stabilized. Any paint flakes generated during this work must be separated into appropriate waste streams and handled as a hazardous waste, or as deemed appropriate based on results of proper analytical testing results.

3.11.3 AIR SAMPLING DONE TO ASSURE EFFECTIVENESS OF THE CONTAINMENT

The Contractor should design engineering controls and barriers in order to ensure that the work does not generate an airborne release of lead more than 1 ug/m^3 above background levels as

measured by THE OWNER at the perimeter of the work.

THE OWNER may also choose to collect area air samples within the regulated area. Should these samples indicate an airborne lead level that is more than half of the Action Level (15 ug/m^3 as determined by an eight-hour time-weighted average), the Contractor shall change the engineering controls and/or work practices in order to ensure that future area air samples results drop below 15 ug/m^3.

3.12 SUBMITTAL REQUIREMENTS

The following documents shall be provided to THE OWNER prior to, during, and at the completion of the work. Additional documents may be required by THE OWNER. This form is developed for the convenience of the Contractor and does not necessarily represent all the documentation needed for all jobs.

3.12.1 LEAD-RELATED WORK PRE-CONSTRUCTION SUBMITTALS

1. Current Training Records for Lead

    A. Lead-Related Construction Training
    Compliance with 8 CCR 1532.1 (l)(2) for all supervisors and workers

    B. Lead-Related Construction Certification by CDPH
    Certification as specified by 8 CCR 1532.1 (l)(3) if required by these specifications or by project conditions.

Summary of specification requirements: All supervisors/workers must meet Cal/OSHA training requirements for those exposed over the Action Level. Supervisors must be CDPH certified as Lead Supervisors if they will supervise the implementation of trigger tasks on lead-containing paint.

Workers do not have to be CDPH Certified Lead Workers unless CDPH regulations are triggered. The intent of the supervisor being CDPH certified is to assure the contractor supervisor has sufficient experience to manage a project of this size and complexity.

2. Written Compliance Plan

3. Written Respiratory Protection Program

4. Current Worker Related Documentation

    A. Copies of Recent BLL and ZPP Analysis Reports for Workers (Performed Within Previous 12 Months)

    B. Medical Evaluation Stating each Employee is Cleared for Respirator Use (Performed Within the Previous 12 Months)

    C. Respiratory Fit Tests for Each Employee (Current by OSHA and Cal/OSHA

Standards)

5. Written Notification to Cal/OSHA to comply with 8 CCR 1532.1 (p) Pre-Work Job Notification

The following documents shall be provided to THE OWNER prior to, during, and at the completion of the work. Additional documents may be required by THE OWNER. This form is developed for the convenience of the Contractor and does not necessarily represent all the documentation needed for all jobs.

3.12.2 LEAD-RELATED INTERIM CONSTRUCTION SUBMITTALS

1. Waste Stream Characterization Testing Results (prior to removal of waste from the site and generated during work impacting materials containing lead. This does not include whole architectural components.)

2. Exposure Assessment (Air Monitoring) Results of Employees Performing Trigger Tasks (Within 72 Hours of Sample Collection)

3. DOP Testing Documentation

4. Worker Documentation for New Workers Assigned to the Project or Workers with Documentation on File Which Expired During the Project.

The following documents shall be provided to THE OWNER prior to, during, and at the completion of the work. Additional documents may be required by THE OWNER. This form is developed for the convenience of the Contractor and does not necessarily represent all the documentation needed for all jobs.

3.12.3 LEAD-RELATED POST CONSTRUCTION SUBMITTALS

Contractor shall provide the following post-construction submittals to THE OWNER through the designated channels within thirty (30) days of completion of lead-related work.

1. Completed Uniform Hazardous Waste forms for lead waste disposal (if applicable with reference in the final letter that all waste forms have been submitted to the Owner through proper channels).

2. Letter stating that all documentation has been submitted to THE OWNER through proper channels or stating the Contractor and their sub-contractors did not generate lead waste during the performance of their work.

Note: Any item on this list submitted during the course of the project and received by THE OWNER will not need to be submitted again, unless specifically requested.

Other Hazardous Materials
General Requirements

OTHER HAZARDOUS MATERIALS SPECIFCATIONS

SECTION I - DEFINITIONS

Abatement - Procedures beyond a special operations and maintenance program to control fiber release from PCB-containing materials. Includes removal, encapsulation, enclosure, repair.

ACGIH - American Conference of Governmental Industrial Hygienists

AIHA - American Industrial Hygiene Association

Air Filtration Device - A portable exhaust system equipped with HEPA filtration and capable of maintaining a constant low velocity air flow into contaminated areas from adjacent uncontaminated areas. At a minimum, the air intake for the air filtration device, must have a pre-filter on it which can be changed within the containment area.

Airlock - A system for permitting ingress and egress with minimum air movement between a contaminated area and an uncontaminated area. The airlock shall consist of a minimum of two curtained Z-flap doorways separated by a distance of at least three (3) feet such that one passes through one doorway into the airlock, allowing the doorway sheeting to overlap and close off the opening before proceeding through the second doorway, thereby preventing flow-through contamination.

Air Monitoring - The process of measuring the fiber content of a known volume of air collected during a specific period of time. The procedure normally utilized for asbestos follows the NIOSH Standard Analytical Method for Asbestos in Air Method 7400. For clearance air monitoring, transmission electron microscopy methods may be utilized for detection of smaller fibers and specific fiber identification.

Air Sampling Professional - The professional contracted or employed by the Owner to supervise and/or conduct air monitoring and analysis schemes. The air sampling professional must be a Cal/OSHA Certified Asbestos Consultant or Certified Site Surveillance Technician. This individual shall not be affiliated in any way other with the contractor performing the abatement work.

Ambient Air - The air outside buildings and structures or the air as it normally exists in a space prior to abatement.

Amended Water - Water to which a surfactant has been added.

ANSI - American National Standards Institute

Approval/Acceptance - A written means of approving/accepting a product, containment set-up, work practice. Approval/Acceptance by PMP, Inc. Project Manager may be given verbally, if followed in written format. Failure of PMP, Inc. Project Manager to address an issue either verbally or in writing does not imply Approval/Acceptance.

Asbestos - Means the asbestiform varieties of serpentine (chrysotile), riebeckite (crocidolite), cummingtonite grunerite (amosite), anthophyllite, actinolite, and tremolite.

Project Manager - An individual who is qualified by virtue of experience and education, designated as the Owner's representative and responsible for overseeing the abatement portion of the project. This person is generally the same as the PMP, Inc. Project Manager.

ASTM - American Society for Testing and Materials

Authorized Visitor - The Owner (and any designated representative) and any representative of a regulatory or other agency having jurisdiction over the project.

Bidder - A duly licensed and accredited asbestos contractor who has submitted a bid. If bid walk is mandatory, bidder must attend the walk-in order for bid to be considered responsive.

Cal/OSHA - California Division of Occupational Safety and Health. Acronym of DOSH is interchangeable with this term.

Certified Industrial Hygienist (CIH) - An industrial hygienist certified in Comprehensive Practice by the American Board of Industrial Hygiene.

Cleaning Barriers - Cleaning barriers are used in addition to critical barriers and are primarily to aid in the decontamination of the area after the completion of asbestos removal work. Cleaning barriers are normally comprised of plastic sheeting placed over non-asbestos-containing surfaces (e.g. walls, floors, ceilings, casework, etc.), and asbestos-containing surfaces not scheduled for removal, in the regulated area.

Clean Room - An uncontaminated area or room which is a part of the worker decontamination enclosure system with provisions for storage of workers' street clothes and clean protective equipment. Also, the term includes uncontaminated area or room of a Waste Transfer Airlock.

Competent Person - The Contractor's employee who meets the requirements of and is responsible for the activities of the Competent Person as described in Title 8 CCR 1529. The includes but is not limited to an individual who has current AHERA Contractor/Supervisor accreditation and has the responsibility and authority to ensure that the Contractor's employees comply with the contract documents and all relevant Cal/OSHA regulations.

Containment - The temporary isolation of the work area from the rest of the building to prevent escape of asbestos fibers.

Contractor - The Contractor is the person or entity identified as such in the Contract Documents; references to "Contractor" include the Contractor's authorized representative.

Critical Barrier - Critical Barriers used to restrict water and air flow. Critical Barriers are the barriers placed over openings in the walls and ceilings of a work area to ensure that airborne fibers cannot escape the work area via these openings. The Contractor will construct impermeable barriers at all exits or openings, including doorways, duct chases, mechanical shafts, elevator shafts, floor openings, drains, and the like, so that all possible exit or entrance

routes are effectively barricaded and sealed. Unless otherwise specified in the Contract documents, critical barriers shall be constructed of at least one layer of 6-mil thick poly.

Critical Barrier Negative Pressure Test - Required test for negative pressure with only critical barriers and air filtration units installed. This test must be conducted prior to the installation of cleaning barriers but may be conducted with or without the decontamination unit in place.

Curtained Doorway, Z-Flapped - A device to allow ingress or egress from one room to another while permitting minimal air movement between spaces (such as the various rooms of the decontamination chamber). Each Curtained Doorway will consist of three sheets of poly. The first barrier will be a sheet of poly covering the entire passage and taped to the ceiling, walls, and floor. This sheet will be slit vertically in order for the workers to pass through it. Another sheet of poly will cover the first sheet but be taped only to the ceiling (or top of the first barrier) and down one wall. The third sheet of poly will be placed on the opposite side of the slit poly from the second sheet. The third sheet of poly will be attached in a similar manner as the second sheet except the wall attachment will be to the opposite wall. Each barrier must be weighted at the bottom in order to ensure that it will lay flat against the slit sheet opening should the negative pressure system fail. Please see diagram:

Other designs are permissible, if approved by the PMP, Inc. onsite project manager.

Decontamination Enclosure System - (Also known as Decon or Waste Transfer Decon) A series of connected rooms designed for the decontamination of workers and equipment that is separated from the work area and from each other by z-flapped curtained doorways. This unit shall be constructed with at least two layers of six-mil poly for the floors, walls, and ceiling. The floor of the dirty room shall consist of two layers of six-mil poly plus a third layer of poly, four-mil or thicker, to be used as a removable drop layer. Drop layer is to be removed as needed, but not less than daily. All decontamination enclosure systems used for worker entry and exit shall be equipped with a shower. At no time shall z-flaps of Decontaminations Enclosure System chambers be taped, held or otherwise blocked open.

DOP - Dioctyl phthalate particles which are normally used as an agent for testing the efficiency of HEPA filters.

Demolition - The wrecking or taking out of any load-supporting structural member, casework, items or surfaces of a facility together with any related handling operations and disposal.

Dust or Debris - Material visible to the PMP, Inc. Project Manager. Dust and debris may be contaminated with asbestos, and may affect the asbestos work practices, containment or clearance air samples required on this project, whether contaminated with asbestos or not.

Encapsulant, Bridging/Penetrating - A liquid material which can be applied to asbestos-containing material to control the possible release of asbestos fibers from a material either by creating a membrane over the surface (bridging encapsulant) or by penetrating the material and binding its components together (penetrating encapsulant).

Encapsulant, Lock-down - A liquid product designed to mist the air within a contained area after the containment has passed visual clearance by the PMP, Inc. Project Manager. Lock-down

encapsulant is designed to bind asbestos fibers together and to create a tacky surface causing non-visible asbestos fibers, settling out of the air, to adhere to containment poly.

U.S. EPA - U.S. Environmental Protection Agency

Equipment Decontamination Enclosure System - That portion of a decontamination enclosure system designed for controlled transfer of materials and equipment into or out of the work area, consisting of a clean room, washroom and holding area.

Equipment Room - A contaminated area or room which is part of the worker/equipment decontamination enclosure system with provisions for storage of contaminated clothing and equipment.

Exterior of Containment HEPA Filtered Pressure Differential Unit - An air-purifying unit positioned outside, rather than inside the regulated work area. The face, or filter portion of the unit is integrated within the work area, and the remainder of the unit (housing, wheels, rivets, control panel, etc.) is located outside of the work area. This allows filters on the air intake to be changed from within the regulated area but access to the machine itself is available to those outside the area. Pressure differential units which pass DOP testing across the HEPA filter, but fail at rivets, control panels, wheels, etc. may be used in this fashion as long as the failure point of the unit can remain on the exterior of containment while the face of the unit and filters are inside containment.

Facility - Any institutional, commercial, or industrial structure, installation, or building.

Facility Component - Any item (pipe, duct, boiler, tank, reactor, turbine, furnace, etc.) at or in a facility, any portion of a facility or any structural member in or at a facility.

Federal OSHA or OSHA - Federal Occupational Safety and Health Administration.

Fixed object - A piece of equipment or furniture in the work area which cannot be removed, or will not be removed by Owner’s decision, from the work area.

HVAC - Heating, ventilation, and air conditioning system.

HEPA Filter - A high efficiency particulate air filter capable of removing particles 0.3 microns in diameter from an air stream with 99.97% efficiency.

HEPA Vacuum - A vacuum system equipped with HEPA filtration.

PMP Project Manager - An individual, employed by (or subcontracted to) PMP Environmental Consulting, Inc., who is qualified by virtue of experience and education, designated as the Owner’s representative and responsible for overseeing the abatement, and/or other activities.

Holding Area - A clean space where clean supplies and equipment are stored before being placed into containment. Also, a contaminated space, adjacent to a shower or equipment washing chamber, where dirty equipment or packaged waste is stored prior to removal from containment.

Lock-down - To mist the air and to wet surfaces with an agent designed to bind asbestos fibers together and to create a tacky surface causing non-visible asbestos fibers, settling out of the air, to adhere to containment poly.

Magnehelic Gauge - Instrument for measuring the static air-pressure differential across a barrier.

Manometer - See "Magnehelic gauge". This project requires at least one properly calibrated and fully functioning recording manometer.

Mil - An abbreviation for millimeter. Generally used when referring to the thickness of plastic (poly) sheeting used to contain the regulated area.

Mini-Enclosures - Mini-enclosures may be used where glovebag setups are not feasible. The use of them must be approved by the PMP, Inc. Project Manager. Mini-enclosures shall be constructed of six-mil polyethylene (attached with tape and/or glue to walls and floors) and shall be small enough for a maximum of two workers who can enter the enclosure one time, complete the abatement exercise, pass out the containerized debris and exit. The workers shall have available a change room contiguous to the work area where they can remove their coveralls prior to leaving the area.

Monitoring - May include:
a) Visual inspection for the presence of visible emissions; or
b) Air monitoring performed in accordance with accepted methods.
c) Collecting core samples of encapsulated or bridged materials.
d) Collecting other bulk samples during and following abatement.
e) Sampling substrata following abatement.
Inspection of abatement contractor's, and contractor's employees, work practices for compliance to these and other specifications and applicable regulations.

NVLAP - National Voluntary Laboratory Accreditation Program.

NESHAP - The National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61, Nov. 20, 1990)

NIOSH - The National Institute for Occupational Safety and Health

Owner - The Owner includes the individual or entity that owns the property and, unless otherwise stated, the Owner's authorized representatives, including the PMP, Inc. Project Manager, the Owner's Board of Trustees and the Owner's officers, employees, agents and representatives.

Poly - Polyethylene sheeting.

Pre-start Meeting - Meeting held before the beginning of the project in which final details of the project are discussed and Contractor provides Project Monitor with pre-job submittal packet.

Regulated Area - An area established by a contractor to demarcate areas where the contractor's employees may conduct Class 1, 2, or 3 work as described in 8 CCR 1529 or airborne concentrations of asbestos exceed, or there is a reasonable possibility they may exceed, the permissible exposure limit. Additionally, "regulated area" means any measure used to restrict access to an area where personnel impacting asbestos-containing materials are required to wear respiratory protection and/or protective clothing by the project specifications, or applicable regulations, regardless of airborne asbestos concentration levels.

Regulations - shall include all relevant federal, state, and local regulations including but not limited to:

a. U.S. Environmental Protection Agency Regulations for Asbestos (Title 40, Code of Federal Regulations, Part 61, Subparts A & B)
b. Title 8, Chapter 4, Subchapters 1 through 21, California Administrative Code, General Industry Safety orders, Section 5208 "Asbestos" or the applicable sections of the Federal Asbestos Regulations. Cal/OSHA Construction Safety Orders, Section 1529.
c. "Asbestos Hazard Emergency Response Act", U. S. Environmental Protection Agency, 40 CFR, Part 763. Final Rule and Notice.
d. Applicable local county Air Pollution Control District and Air Quality Management District or other local NESHAPs Enforcement.

Removal - The stripping of any asbestos-containing materials from surfaces, substrates, or components of a facility. As per various regulations, the ground is considered a substrate.

Renovation - Altering in any way one or more facility components.

Scope of Work - Job specific information and specifications used in combination with these Asbestos General
Requirements. If conflicts exist between the Scope of Work and these specifications, the stricter requirement will be enforced unless the conflict is specifically addressed in writing in the Scope of Work for this project.

Shower Room - A room between the clean room and the equipment room in the decontamination enclosure with hot and cold or warm running water controllable at the tap and suitably arranged for complete showering during decontamination. The shower room must be equipped with an overflow pan to contain water splashed, leaked or spilled out of the shower unit.

Staging Area - The secured area outside of containment where clean equipment and supplies are stored. Waste must not be stored within the staging area unless placed within an additional lockable container or area approved by the PMP, Inc. Project Manager.

Strip - To take off friable asbestos materials from any part of a facility.

Structural Member - Any load-supporting member of a facility, such as beams and load-supporting walls or any non-load-supporting member, such as ceilings and non-load supporting walls.

Submittals - Pre, in-progress and post job documents submitted by contractor to Owner's representative as indicated in General Requirements and Bidding Requirements.

Surfactant - A chemical wetting agent added to water to improve penetration.

Visible Emissions - Any emissions, whether containing particulate or not, that are visually detectable without the aid of instruments. This does not include condensed uncombined water vapor.

Waste Load-out/Transfer System - A decontamination system utilized for transferring containerized waste from inside to outside of the work area. A series of three connected rooms used for the load-out of asbestos-containing materials that have been properly containerized. The waste loadout chamber system shall normally consist of three connected chambers adjacent to the work area. Each chamber shall be constructed with at least two layers of six-mil thick poly for the floors, walls, and ceiling. The chamber located closest to the work area is known as the dirty chamber, and in addition to the two layers of six-mil thick poly on the floor, shall also have a third layer of poly, four-mil or thicker, to be used as a removable drop layer. The drop layer is to be removed as needed but at least daily. The chamber located closest to the outside the work area is known as the clean chamber. See Section 15 for proper use of waste Load-out/Transfer System.

Wet cleaning - The process of eliminating asbestos contamination and visible dust and debris from building surfaces and objects by using cloths, mops, or other utensils which have been dampened with water and afterwards thoroughly decontaminating them or disposing of them as asbestos contaminated waste.

Work area - Designated rooms, spaces, or areas of the project in which asbestos abatement actions are to be undertaken or which may become contaminated as a result of such abatement actions. A contained work area or temporary enclosure is a work area that is isolated from the rest of the facility using critical barriers and cleaning barriers, a decontamination system, and additional means of signs and barriers to reduce access by unauthorized persons. The work area includes all decontamination chambers, waste transfer system and the abatement area. A non-contained work area is an isolated or controlled-access work area which has not had poly installed nor been equipped with a decontamination enclosure system.

Worker - A person who successfully completed an initial U.S. EPA and/or state-approved four-day AHERA-accreditation course and who has maintained that training through approved annual refresher training, and possesses current and valid AHERA-accreditation documentation as a AHERA-accredited asbestos worker.

SECTION II - POLYCHLORINATED BIPHENYLS (PCB's)

2.1 PCB Light Ballasts

The Contractor may be instructed to remove light fixtures which contain light ballasts during demolition/ renovation activities specified in the contract documents. These light ballasts typically contain PCBs in the oil used as coolant and lubricant. Any ballast containing PCBs is to be considered a "Hazardous Waste", and the Contractor is responsible for ensuring personnel who perform PCB related work (inspection, removal, clean-up) are trained and qualified to do so. All workers must also follow current OSHA regulations including 29 CFR 1910.120 and 8 CCR 5192, as well as other applicable federal, state, and local laws and regulations.

All light ballasts manufactured through 1978 are magnetic ballasts which contain PCBs. Installation of ballasts manufactured prior to 1978 continued for several more years. As a result, it can be expected that any building constructed before 1980 which has not had a complete lighting retrofit is likely to have PCB containing ballasts. Therefore, unless the ballast is electronic (this type is PCB free), determined by testing not to contain PCBs, or the manufacturers label on the ballast states "No PCBs", it is assumed all light ballasts on this site contain PCB's, and must therefore be handled as a hazardous waste by the Contractor. The Contractor may have other options for disposal of any light ballasts found not to contain PCB's.

Light Ballast Inspection

Contractor should disconnect all power and de-energize all electrical equipment to be impacted prior to performing inspection of electrical devices scheduled for removal or replacement. This de-energizing should be performed by or under the supervision of a licensed electrician. Contractor shall inspect each ballast prior to its removal to determine if the ballast is leaking, if oily residue is present on the exterior of the ballast, or the ballast has been damaged resulting in a leak. Upon discovering and prior to removal of any oil coated, leaking, or damaged ballast Contractor shall contact Owner's representative to discuss work procedures, waste requirements, etc.

Handling Work Practices of Undamaged Light Ballasts

Handling of ballasts shall be consistent with existing ballast conditions. While a ballast may not initially indicate any damage or leakage to be present, it may become damaged or begin to leak for any number of reasons during the removal and handling process. Any skin contact will probably constitute overexposure to PCBs since they are easily absorbed through the skin. It is recommended any personnel who will perform PCB related work should at a minimum wear protective clothing, including chemically resistant gloves, goggles, boots, and disposable coveralls.

Handling Work Practices of Damaged Light Ballasts

Handling of damaged ballasts shall be performed in a manner consistent with existing and current federal, state, and local laws and regulations. Clean-up of spills, or contaminated surfaces will require the use of specifically trained and properly protected personnel utilizing state of the art work practices, removal equipment, and materials. The Owner's representative must be notified prior to the performance of this type of work.

2.2 PCB Containing Waste

All PCB containing light ballasts, removed by the Contractor, shall be placed in leak tight approved containers (metal barrels) until they are removed from the site by a waste transporter permitted to haul hazardous materials. Barrels must not be loaded more than their approved capacity. For most barrels this is 750 pounds. No other materials except, an enough absorbent packing material, shall be included with the light ballasts.

The Contractor should contact their waste hauler prior to the start of work for information pertaining to recommendations, or the waste haulers stated requirements, for packing PCB containing ballasts. However, at a minimum, the absorbent packing material should be added to the bottom of the waste barrel prior to the first ballast. Absorbent packing material should then be added intermittently as necessary to encase the ballasts as the waste barrel is being filled. When the waste barrel is filled, or no more light ballasts will be added, additional absorbent packing material should be added to completely cover the ballasts and the container then sealed.

Contractor is also responsible for appropriate labeling of waste barrels and securing of lids to meet federal and/or state requirements while being stored on the site.

All leaking or damaged ballasts must be handled in accordance with federal and state disposal requirements and shall be separated from undamaged ballasts in preparation for incineration at an appropriately licensed facility.

The Contractor is responsible for all costs associated with the removal, packing, loading, shipping, and disposal of each barrel of waste generated during this project. The Contractor is also responsible for obtaining and properly completing any Uniform Hazardous Waste Manifests needed for the disposal of PCB waste. However, the Contractor SHALL NOT sign any Uniform Hazardous Waste Manifests for the Owner.

2.3 Bulk PCB Materials

For projects involving buildings constructed or remodeled between 1950 and 1979, it is important to ensure that the PCB abatement activities are conducted safely and in accordance with Environmental Protection Agency (EPA) and the Occupational Safety and Health Administration (OSHA).

2.4 Personal Protective Equipment (PPE)

Chemical-resistant gloves made of nitrile butadiene rubber and Tyvek coveralls.

All workers should wear safety glasses or protective goggles.

Respirators with combination organic vapor and HEPA cartridges when working with dust generating activities or solvents.

Worker hygiene - Eating, drinking, and smoking should be prohibited in the work site. Showers and separate changing areas for work clothing and everyday clothing should be provided for work involving dust generation.

2.5 Containment and removal

Containment area must be constructed using 4-6 mil poly to minimize the spread of PCB dust to other surrounding areas.

Contractor must regularly clean the work area, including tools and machinery, with a HEPA vacuum and mopping, or hand wiping, to remove dust.

The HVAC system should be shut down and remain off until PCB abatement is complete. The abatement areas should be isolated from the HVAC system always.

2.6 Visual Inspection and Clearance

A third-party consultant shall conduct a visual inspection of the containment area to determine if additional decontamination is warranted or if the area is ready for clearance.

PMP, Inc. will collect wipe samples from surfaces within the containment after decontamination is complete. A sufficient number of wipe samples will be collected to ensure that the area is fully decontaminated. The number of samples and location will be determined in accordance with 40 CFR 761 Subpart O or Subpart P. A minimum of three samples shall be collected. These samples will be collected on horizontal surfaces.

2.7 Disposal

The contractor shall properly store removed PCB-contaminated materials at the place of removal. Materials should be placed in tightly-locking, stable containers (e.g., fiber drums or polyethylene buckets with polyethylene lining).

No person may avoid any provision specifying a PCB concentration by diluting the PCBs, unless otherwise specifically provided.

All PCB waste must be characterized/profiled to determine the proper disposal requirements and waste facility.

When caulk with PCB concentrations equal to or greater than 50 parts per million (ppm) is removed along with any attached PCB containing building materials, it must all be disposed of in accordance with the methods provided in 40 CFR 761.62

SECTION III - UNIVERSAL WASTE LAMP HANDLING PROCEDURES

The Contractor may be instructed to remove light fixtures which contain lamps which are designated as “Universal Waste” during demolition/renovation activities specified in the contract documents. If the Contractor is instructed to remove such fixtures the following handling procedures shall be followed.

3.1 Universal Wastes

Universal wastes are hazardous wastes that are more common and pose a lower risk to people and the environment than other hazardous wastes. Federal and State regulations identify

universal wastes. The regulations, called the “Universal Waste Rule,” are in the California Code of Regulations (CCR), title 22, division 4.5, chapter 23.

3.2 Universal Waste Lamps

Universal Waste Lamp, also referred to as “lamp” is defined as the bulb or tube portion of an electric lighting device. A lamp is specifically designed to produce radiant energy, most often in the ultraviolet, visible, and infra-red regions of the electromagnetic spectrum. Examples of common universal waste electric lamps include, but are not limited to, fluorescent, high intensity discharge, neon, mercury vapor, high pressure sodium, and metal halide lamps. Any lamp which is not spent and has been designated to be reused is not classified as a waste and does not meet the requirements of a hazardous waste or a universal waste.

3.3 Mercury-added lamps (effective February 9, 2004)

Fluorescent tubes and several other types of lamps (not incandescent light bulbs) contain a small amount of mercury that is necessary for their operation. Currently, most fluorescent lamps contain enough mercury to be a hazardous waste. Metallic mercury is liquid at room temperature but can easily evaporate from liquid to vapor. Mercury vapor is colorless and odorless. Fluorescent bulbs contain mostly mercury vapor but can contain small amounts of liquid mercury.

3.4 Universal Waste Lamp Disposal

Spent lamps typically contain concentrations of mercury exceeding the established Total Threshold Limit Concentration and/or the Soluble Threshold Limit Concentration values. Therefore, these lamps must be sent to an authorized recycle facility, or to a universal waste consolidator for shipment to an authorized recycling facility.

At a minimum the lamps must be packaged in boxes/packages/containers which are structurally sound, adequate to prevent breakage, and compatible with the content of the lamps. These packages must remain closed and be free of damage which could cause leakage under reasonably foreseeable conditions.

Each container shall be labeled or marked clearly with one of the following phrases: “Universal Waste– Lamp(s),” or “Waste Lamp(s).” or “Used Lamp(s)”.

Documentation in the form of a log, invoice, manifest, bill of lading or other shipping document is required to be submitted to PMP, Inc. for each shipment of waste from the project site. This documentation shall include name and address of generator, address of site waste is generated on, quantity of lamps to be shipped, date of shipment, name and address of hauler, and name and address of waste facility receiving the waste.

3.5 Hazardous Waste Designation

Any lamp which is not designated for recycling or continued use in a different fixture for which the lamp is manufactured for use in must be handled, managed, and disposed of as a hazardous waste in accordance with Cal/EPA Title 22. Since all spent lamps are required to be recycled, the Owner will not approve of the disposal of lamps as hazardous without consultation and review of the specific circumstances which warrant this change in designation.

3.6 Additional Waste Management Requirements

The Contractor is responsible for managing lamps in a manner which prevents release of any universal waste or component of a universal waste to the environment. The Contractor is also responsible for the immediate clean-up of materials (mercury or other hazardous constituents) released by a lamp broken during removal, or otherwise damaged while being handled, into a container, or containers, designed to accommodate the resulting waste and its contents.

The Contractor is responsible for training employees in proper handling, packaging, storing, and labeling the universal waste, as well as, how to respond to releases (66273.13). This may be accomplished by providing employees written instructions or posting these instructions in the area where the universal waste lamps are being stored.

The Contractor is responsible for all costs associated with the removal, packing, loading, shipping, clean up, and disposal of hazardous materials removed during this project, and any waste generated due to breakage during this project. The Contractor is also responsible for obtaining and properly completing any Uniform Hazardous Waste Manifests needed for the disposal of lamp waste. However, the Contractor SHALL NOT sign any Uniform Hazardous Waste Manifests for the Owner.

It SHALL be the responsibility of the Contractor to contact the Owner in advance of the scheduled pick-up time and date, so the waste materials can be visually inspected for proper packing, and to have the Uniform Hazardous Waste Manifest properly signed by an Owner representative.

SECTION IV - MERCURY

4.1 Mercury Switches

Thermostat switches that contain mercury are considered a hazardous waste if removed and disposed. Where the contract requires removal of thermostat switches, the Contractor SHALL follow all requirements for packaging and disposal of these mercury containing wastes.

4.2 Mercury Flooring

In the 1960's, many companies began manufacturing and installing a thin layer of synthetic, polyurethane flooring on top of concrete sub-floors, to provide a resilient and rubberlike surface. Typically, proprietary liquid polyurethane was poured on top of the sub-floor and organo-mercuric salts were incorporated to catalyze the polymerization/curing process. Mercury-containing polyurethane floors were widely installed in school gymnasiums and sports tracks across the US, until being discontinued in the mid-1980s due to concerns of their emissions of mercury vapor.

Mercury is a bio-accumulative toxic chemical. Bioaccumulation occurs when mercury is absorbed into your body at a faster rate than which the mercury can be lost by catabolism and excretion. At room temperature, this heavy metal is liquid that readily emits vapor, and mercury vapor is a neurotoxin. The United States Protection Agency has set a minimum risk level of 0.3 micrograms of mercury vapor per cubic meter of air.

4.3 Containment

The doors, windows, and penetrations into the rooms shall be sealed with 6 mil polyethylene. All ventilation systems shall be locked-out and sealed as critical barriers. An attached three

stage decon with operational shower is required. The Scope of Work may require more chambers depending upon the project size.

Walls shall be covered with a minimum of two layers of 4-mil polyethylene sheeting. Plastic shall be sized to minimize seams. Seams shall be staggered and separated by a distance of at least six feet (6'). DO NOT locate any seams at wall/floor joints. Wall sheeting shall overlap floor sheeting by at least twelve inches (12") beyond the wall/floor joint to provide a better seal against water damage and for pressure differential maintenance. Wall sheeting shall be secured adequately to prevent it from falling away from the walls.

HEPA filters scrubbed the air and exhausting to the exterior of the building. Charcoal pre-filter is required for all mercury work.

Signage prevented unauthorized individuals from entering the containment areas must be posted at all entrances/exits.

4.4 Training
All contractors entering the containment area are required to complete a 40-hour hazwoper training.

4.5 Personal Protective Equipment (PPE)
Personal Protective Equipment shall consist of full body coveralls, gloves, face shields and/or glasses to prevent skin and eye contact, and a minimum of half face respirators with mercury cartridges.

It should be noted that mercury flooring cannot be cleaned using a HEPA vacuum or brooms (sweeping). These methods will cause the mercury to spread and increase mercury levels in the air. A special vacuum cleaner designed to collect mercury should be used.

4.6 Removal and Clearance
All removal work must be done using proper dust control techniques. No visible emission shall be seen in containment.

Daily clean-up of loose dust and debris is mandatory before breaks and leaving the site.

Final visual inspection will be conducted at the end of the abatement process.

To clear the area of mercury contamination, a Jerome Mercury Vapor Analyzer must be used to test floors and other surface areas for mercury contamination. The area will be cleared when concentrations are found to be below 0.3 µg/m³ for mercury vapor or below the established baseline prior to the start of work.

SECTION V - SMOKE DETECTORS WHICH MAY CONTAIN A RADIOACTIVE ELEMENT

The Contractor shall be responsible for the removal of all smoke detectors which may contain a radioactive element, which may be present in the building. These types of detectors are easily identified by reviewing the label which is usually found on the back of the detector. Older units may display the international radiation symbol (three bladed propeller) and the radioactive

content. Newer units state the radioactive content and their Nuclear Regulatory Agency (NRC) license number.

The Contractor shall be responsible for contacting the manufacturer of any smoke detector with a radioactive element present to determine their return policies. The California Department of Toxic Substance Control (DTSC) has stated that it is a condition of the manufacturers NRC license that they must accept returned units for disposal. The Contractor shall be responsible for all costs associated with removing, packaging, and shipping of the detectors in compliance with the manufacturers policies and procedures.

Contractor shall submit to the Owner a letter from the manufacturer which includes the number of units received, date received, and acceptance of the shipment for disposal by that manufacturer.

SECTION VI - FREON AND REFRIGERANT RECOVERY

40 CFR 273.13 (d)(2) Waste Management (11/24/04) States refrigerant gas recovery must be conducted by a licensed refrigerant recovery technician. All Contractors are liable for the payment of any/all fines issued to the client for improper release of refrigerants to the atmosphere. These fines can be $10,000 or more, per release.

SECTION VII - SILICA

It should be noted that silica is not a hazardous material, but that regulation 8 CCR 1532.3 (Cal/OSHA Construction) and 8 CCR 5204 (General Industry) regarding the disturbance of silica containing materials (cement containing materials, stone, rock, gypsum, false ceiling panels, etc.) must be conducted per the requirements of the regulation enforce at the time of the work.

7.1 Specified Exposure Control Methods

The following control methods and corresponding work practices, engineering controls and personal protective equipment use must be followed, or improved on, by all contractors handling materials that may contain crystalline silica – whether the activity of construction based or a general industry activity (Table 1 Copied from Cal/OSHA):

7.2 Table 1 - Specified Exposure Control Methods When Working with Materials Containing Crystalline Silica

		Required respiratory	
		protection and minimum	
		assigned protection factor	
Equipment/task	*Engineering and work practice control methods*	*(APF)*	
		≤ 4 hours/ shift	*> 4 hours/ shift*
(i) Stationary masonry saws	Use saw equipped with integrated water delivery system that	None	None.
	continuously feeds water to the blade		
	Operate and maintain tool in accordance with manufacturer's		
	instructions to minimize dust emissions		
(ii) Handheld power saws (any blade diameter)	Use saw equipped with integrated water delivery system that		
	continuously feeds water to the blade		
	Operate and maintain tool in accordance with manufacturer's		
	instructions to minimize dust emissions:		
	-When used outdoors	None	APF 10.
	-When used indoors or in an enclosed area	APF 10	APF 10.
(iii) Handheld power saws for cutting	For tasks performed outdoors only: Use saw equipped with	None	None.
fiber-cement board (with blade	commercially available dust collection system		
diameter of 8 inches or less)			

	Operate and maintain tool in accordance with manufacturer's		
	instructions to minimize dust emissions		
	Dust collector must provide the air flow recommended by the tool		
	manufacturer, or greater, and have a filter with 99% or greater		
	efficiency		
(iv) Walk-behind saws	Use saw equipped with integrated water delivery system that		
	continuously feeds water to the blade		
	Operate and maintain tool in accordance with manufacturer's		
	instructions to minimize dust emissions:		
	-When used outdoors	None	None.
	-When used indoors or in an enclosed area	APF 10	APF 10.
(v) Drivable saws	For tasks performed outdoors only:		
	Use saw equipped with integrated water delivery system that	None	None.
	continuously feeds water to the blade		
	Operate and maintain tool in accordance with manufacturer's		
	instructions to minimize dust emissions		
(vi) Rig-mounted core saws or drills	Use tool equipped with integrated water delivery system that	None	None.
	supplies water to cutting surface		
	Operate and maintain tool in accordance with manufacturer's		
	instructions to minimize dust emissions		

(vii) Handheld and stand-mounted	Use drill equipped with commercially available shroud or cowling	None	None.
drills (including impact and rotary	with dust collection system		
hammer drills)			
	Operate and maintain tool in accordance with manufacturer's		
	instructions to minimize dust emissions		
	Dust collector must provide the air flow recommended by the tool		
	manufacturer, or greater, and have a filter with 99% or greater		
	efficiency and a filter-cleaning mechanism		
	Use a HEPA-filtered vacuum when cleaning holes		
(viii) Dowel drilling rigs for concrete	For tasks performed outdoors only:		
	Use shroud around drill bit with a dust collection system. Dust	APF 10	APF 10.
	collector must have a filter with 99% or greater efficiency and a		
	filter-cleaning mechanism		
	Use a HEPA-filtered vacuum when cleaning holes		
(ix) Vehicle-mounted drilling rigs for	Use dust collection system with close capture hood or shroud around	None	None.
rock and concrete	drill bit with a low-flow water spray to wet the dust at the discharge		
	point from the dust collector		
	OR		

	Operate from within an enclosed cab and use water for dust	None	None.
	suppression on drill bit		
(x) Jackhammers and handheld	Use tool with water delivery system that supplies a continuous stream		
powered chipping tools	or spray of water at the point of impact:		
	-When used outdoors	None	APF 10.
	-When used indoors or in an enclosed area	APF 10	APF 10.
	OR		
	Use tool equipped with commercially available shroud and dust		
	collection system		
	Operate and maintain tool in accordance with manufacturer's		
	instructions to minimize dust emissions		
	Dust collector must provide the air flow recommended by the tool		
	manufacturer, or greater, and have a filter with 99% or greater		
	efficiency and a filter-cleaning mechanism:		
	-When used outdoors	None	APF 10.
	-When used indoors or in an enclosed area	APF 10	APF 10.
(xi) Handheld grinders for mortar	Use grinder equipped with commercially available shroud and dust	APF 10	APF 25.
removal (*i.e.,* tuckpointing)	collection system		
	Operate and maintain tool in accordance with manufacturer's		
	instructions to minimize dust emissions		

	Dust collector must provide 25 cubic feet per minute (cfm) or greater		
	of airflow per inch of wheel diameter and have a filter with 99% or		
	greater efficiency and a cyclonic pre-separator or filter-cleaning		
	mechanism		
(xii) Handheld grinders for uses	For tasks performed outdoors only: Use grinder equipped with	None	None.
other than mortar removal	integrated water delivery system that continuously feeds		
	water to the grinding surface		
	Operate and maintain tool in accordance with manufacturer's		
	instructions to minimize dust emissions		
	OR		
	Use grinder equipped with commercially available shroud and dust		
	collection system		
	Operate and maintain tool in accordance with manufacturer's		
	instructions to minimize dust emissions		
	Dust collector must provide 25 cubic feet per minute (cfm) or greater		
	of airflow per inch of wheel diameter and have a filter with 99% or		
	greater efficiency and a cyclonic pre-separator or		
	filter-cleaning mechanism:		
	-When used outdoors	None	None.
	-When used indoors or in an enclosed area	None	APF 10.

(xiii) Walk-behind milling machines	Use machine equipped with integrated water delivery system that	None	None.
and floor grinders	continuously feeds water to the cutting surface		
	Operate and maintain tool in accordance with manufacturer's		
	instructions to minimize dust emissions		
	OR		
	Use machine equipped with dust collection system recommended by	None	None.
	the manufacturer		
	Operate and maintain tool in accordance with manufacturer's		
	instructions to minimize dust emissions		
	Dust collector must provide the air flow recommended by the		
	manufacturer, or greater, and have a filter with 99% or greater		
	efficiency and a filter-cleaning mechanism		
	When used indoors or in an enclosed area, use a HEPA-filtered		
	vacuum to remove loose dust in between passes		
(xiv) Small drivable milling	Use a machine equipped with supplemental water sprays designed to	None	None.
machines (less than half-lane)	suppress dust. Water must be combined with a surfactant		
	Operate and maintain machine to minimize dust emissions		
(xv) Large drivable milling machines	For cuts of any depth on asphalt only: Use machine equipped with	None	None.
(half-lane and larger)	exhaust ventilation on drum enclosure and supplemental water sprays		

	designed to suppress dust		
	Operate and maintain machine to minimize dust emissions		
	For cuts of four inches in depth or less on any substrate:		
	Use machine equipped with exhaust ventilation on drum enclosure	None	None.
	and supplemental water sprays designed to suppress dust		
	Operate and maintain machine to minimize dust emissions		
	OR		
	Use a machine equipped with supplemental water spray designed to	None	None.
	suppress dust. Water must be combined with a surfactant		
	Operate and maintain machine to minimize dust emissions		
(xvi) Crushing machines	Use equipment designed to deliver water spray or mist for dust	None	None.
	suppression at crusher and other points where dust is generated (*e.g.,*		
	hoppers, conveyers, sieves/sizing or vibrating components, and		
	discharge points)		
	Operate and maintain machine in accordance with manufacturer's		
	instructions to minimize dust emissions		
	Use a ventilated booth that provides fresh, climate-controlled air to		
	the operator, or a remote-control station		
(xvii) Heavy equipment and utility	Operate equipment from within an enclosed cab When employees	None	None.

vehicles used to abrade or	outside of the cab are engaged in the task, apply water and/or		
fracture silica-containing materials (*e.g.,* hoe-ramming, rock ripping)	dust suppressants as necessary to minimize dust emissions		
or used during demolition activities			
involving silica-containing			
materials			
(xviii) Heavy equipment and utility	Apply water and/or dust suppressants as necessary to minimize dust	None	None.
vehicles for tasks such as grading	emissions OR		
and excavating but not including:			
Demolishing, abrading, or fracturing	When the equipment operator is the only employee engaged in the	None	None.
silica-containing materials	task, operate equipment from within an enclosed cab		

7.3 Demarcation

Contractor shall demarcate regulated areas from the rest of the workplace in a manner that minimizes the number of employees exposed to respirable crystalline silica within the regulated area.

Contractor shall post signs at all entrances to regulated areas that bear the legend specified in subsection 8 CCR 5204 (j)(2):

DANGER
RESPIRABLE CRYSTALLINE SILICA
MAY CAUSE CANCER
CAUSES DAMAGE TO LUNGS
WEAR RESPIRATORY PROTECTION IN THIS AREA

7.4 Training

Contractors must have a minimum of one-hour training on the hazards of Silica. The training must cover the six bullet points within the regulation and must be performed by a competent person.

When required to use a respirator, Contractor must also have a valid medical and respirator fit test.

7.5 Respirators

Contractor shall provide each employee and the employee's designated representative entering a regulated area with an appropriate respirator equipped with HEPA cartridges (or a single use filtering face piece respirator rated at P-100) and shall require each employee and the employee's designated representative to use the respirator while in a regulated area.

7.6 Air monitoring

Contractor shall make and maintain an accurate record of all exposure measurements taken to assess employee exposure to respirable crystalline silica.

This record shall include at least the following information:
1. The date of measurement for each sample taken
2. The task monitored
3. Sampling and analytical methods used
4. Number, duration, and results of samples taken
5. Identity of the laboratory that performed the analysis
6. Type of personal protective equipment, such as respirators, worn by the employees monitored
7. Name, social security number, and job classification of all employees represented by the monitoring, indicating which employees were monitored.

7.7 Housekeeping

Dry sweeping or dry brushing where such activity could contribute to employee exposure to respirable crystalline silica is prohibited. The Contractor shall use techniques such as, wet sweeping, HEPA-filtered vacuuming or other methods that minimize the likelihood of exposure.

Compressed air shall not be used to clean clothing or surfaces where such activity could contribute to employee exposure to respirable crystalline silica unless the compressed air is used in conjunction with a ventilation system that effectively captures the dust cloud created by the compressed air. (Leaf blowers moving leaves around would likely be okay, leaf blowers used to move soil, dust or dirt could cause significant exposures).

Hazardous Material Survey Reports

PMP Environmental Consulting
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October 28, 2025

Mr. Noe Ramos
Kitchell CEM
c/o Solano Community College District
4000 Suisun Valley Road
Fairfield, CA 9434

Dear Mr. Ramos,

This letter contains the results of a limited asbestos and lead inspection performed in Mechanical Rooms in Buildings 200-1000, and 1200-1800A/B, located at 4000 Suisun Valley Road, Fairfield, California on the Solano Community College Campus. This survey was performed for hydronic line replacement project. A list of suspect materials identified and sampled are included in this report. The limited inspection was conducted on October 13 & 16, 2025, by Shannon Johanson and Mason Johanson. Mrs. Johanson is a Cal/OSHA Certified Asbestos Consultant and EPA-accredited Building Inspector and California Department of Public Health Certified Inspector Assessor and Project Monitor. Mr. Johanson is an EPA-accredited Building Inspector and California Department of Public Health Certified Lead Sampling Technician. See attached personnel certifications.

Procedures – Asbestos

A walkthrough and visual inspection of accessible building materials was performed in each building listed above. The inspection methods used in the federal AHERA regulations (40 CFR, Part 763) as a guideline. While AHERA is only directly applicable to public schools, the principles presented under the Final Rule are generally accepted as the industry standard for ACM inspections. Suspect ACMs were also physically assessed for friability, condition, and possible disturbance factors.

Bulk samples of identified homogeneous areas were collected in building areas that may be impacted by the planned renovation activities. Samples were collected of each separate homogeneous area. A homogeneous area is defined as a surfacing material, thermal system insulation, or miscellaneous material that is uniform in use, color, and texture.

The suspect ACMs were sampled using a knife or other similar coring device suitable to the type of material sampled to cut through its entire thickness and to ensure that a cross-section of the material was obtained. The material was then placed in an appropriately labeled container that was sealed and submitted to Eurofins Built Laboratories, Inc. in Folsom, California for analysis. Eurofins Built is accredited by the Environmental Laboratory Accreditation Program (ELAP) and the National Institute of Science and Technology's (NIST) National Voluntary Laboratory Accreditation Program (NVLAP). Eurofins Built participates in the National Institute for Occupational Safety and Health (NIOSH) Proficiency Analytical Testing Program and has substantial experience in the analysis of asbestos. A unique sample number was assigned to each sample.

Results – Asbestos

A total of 133 samples were collected from 55 identified suspect material. Seven materials were found to contain asbestos through bulk sampling. See the following table for additional information.

Asbestos Results

Sample No.	Sample Description	Asbestos Content	EPA Category
01H, T, U	Stucco-Gray Buildings 700, 1700A	<1% Chrysotile	RACM
43A-B	Drywall with Joint Compound Building 600	2% Chrysotile Texture & Joint Compound	RACM
46A-B	Drywall with Joint Compound Building 1400	2% Chrysotile Texture & Joint Compound	RACM
47A-B	Drywall with Joint Compound Building 1700A & B	2% Chrysotile Texture & Joint Compound	RACM
48A-B	Drywall with Joint Compound Building 1800A & B	2% Chrysotile Texture & Joint Compound	RACM
53D	White Sealant w/Black Building 800 Roof	5% Chrysotile	CAT II
54C-D	White Coating w/Gray & Black Building 1500 Roof	<1% Chrysotile Black Mastic 2% Chrysotile Silver Sealant	CAT II

Historical data from prior inspections

Building 300

Sample No.	Material Description/Location	Asbestos Content	EPA Category
1021-02A	Orange Peel Texture Sheetrock & Joint Compound Various Areas Throughout Building 300	0.18% Chrysotile (Confirmed by Point Count)	N/A
1021-04A	Unfinished Sheetrock w/Joint Compound Building 300	0.14% Chrysotile (Confirmed by Point Count)	N/A
1021-05A	Plaster Building 300	<0.25% Chrysotile (Confirmed by Point Count)	N/A

Building 300 continued

Sample No.	Material Description/Location	Asbestos Content	EPA Category
1021-06C	Duct Seam Tape Building 300 Attic Space above FCP	3% Chrysotile	CAT II

Building 500

Sample No.	Material Description/Location	Asbestos Content	EPA Category
05A-G	Drywall with Joint Compound-Orange Peel Texture - Throughout	1-5-2.25% Chrysotile (400 Point Count)	RACM
	Duct seam tape- attic space at metal ducts and joints	2% Chrysotile	CAT II
	Beige HVAC putty	5-10% Chrysotile	CAT II

Building 700

Sample No.	Material Description/Location	Results	EPA Category
07A-E	Drywall with Wallpaper and Joint Compound Corridors, Classroom	2% Chrysotile (Joint Compound) None Detected (Drywall) 2% Chrysotile (Texture)	RACM
08A-G	Drywall Light Texture and Joint Compound Offices, Staff Room, etc.	2% Chrysotile (Joint Compound) None Detected (Drywall) 2% Chrysotile (Texture)	RACM
15A-C	Gray Window Putty Interior/Exterior Windows	<1% Chrysotile	CAT II

Building 700 Continued

Sample No.	Material Description/Location	Asbestos Content	EPA Category
	Duct seam tape-plenum Building 700	2% Chrysotile	CAT II
	Yellow HVAC putty Building 700	5-10% Chrysotile	CAT II

Building 800

Sample No.	Material Description/Location	Asbestos Content	EPA Category
15A-D	White Joint Compound on Fiberglass Insulation, Mechanical Room 810	2-3% Chrysotile	CAT II
17A-B	Window Putty Building 800, Interior/Exterior Windows	3% Chrysotile	CAT II

Building 1500

Sample No.	Material Description/Location	Asbestos Content	EPA Category
01A-F	Drywall with Joint Compound-Orange Peel Texture Throughout	2% Chrysotile (Texture) 2% Chrysotile (Joint Compound) None Detected (Drywall)	RACM
18A-B	Brown Window Putty & Beige Coating Interior/Exterior Windows	2% Chrysotile Beige Coating None Detected (Putty)	CAT II

Building 1600

Sample ID	Material	Asbestos Content	EPA Category	Approximate Square Footage
01A-E	Sheetrock w/Wallpaper Covering w/Joint Compound	2% Chrysotile Joint Compound 2% Chrysotile (Texture)	RACM	Unknown
02A-G	Sheetrock - Smooth	2% Chrysotile Joint Compound	RACM	Unknown
26A-C	Brown Window Frame Sealant-Interior	<1% Chrysotile	CAT II	500 LF
31A-B	Brown Window Putty-Exterior	<1% Chrysotile	CAT II	500 LF
32A-C	Brown Concrete Expansion Joint at Windows	2% Chrysotile	CAT II	50 LF
43A-C	Red Tile Seam Sealant	2% Chrysotile	CAT II	Unknown

The following materials may be impacted without regard to asbestos work practices:

Stucco-Buildings 200-600, 800-1600, and 1800A & B
Gray seam sealant
Black foam wrap
Black foam wrap w/white coating
Silver foil tape
Tan sealant
White pipe paint on fiberglass wrap
White tape on fiberglass wrap
Black pipe coating
White TSI on hot water-Building 800
Tan pipe wrap debris
White tape and pipe paint on fiberglass wrap
Canvas wrap on Styrofoam insulation
White pipe paint on foam wrap
Canvas wrap on fiberglass insulation
Cement pipe
TSI on hydronic hot water-Building 1800B
Red fire caulking
Green flange gasket
White duct seam tape
Silver sealant
Gray/black Mastic

The following materials may be impacted without regard to asbestos work practices (continued):

Gray rolled roofing
Drywall-Building 200
Drywall-Building 400
Drywall-Building 800
Drywall-Building 900
Drywall-Building 1200
Drywall-Building 1800A
White TPO Roofing-Building 700
White TPO roofing-Building 800
White sealant

All the samples were analyzed using Polarized Light Microscopy with Dispersion Staining (PLM/DS) techniques in accordance with the methodology approved by the U.S. Environmental Protection Agency (EPA). The percentage of asbestos present in the samples was determined based on a visual area estimation. The EPA defines asbestos-containing materials (ACM) as any material containing more than one percent (1%) asbestos as determined using the method specified in Appendix A, Subpart F, 40 CFR Part 763, Section 1, Polarized Light Microscopy (PLM). 40 CFR Part 763 identifies the lower limit of reliable quantification for asbestos using the PLM method as approximately one percent (1%) by volume. Regulations in California (CAL/OSHA Title 8 CCR 1529) define asbestos-containing construction materials (ACCM) as those materials having asbestos content of greater than one tenth of one percent (> 0.1%). Therefore, for the purpose of this survey, any amount of asbestos detected will be considered positive. In addition to the percentages, the types of asbestos minerals are also reported. The PLM method is the standard method used to analyze asbestos bulk samples.

When "None Detected" (ND) appears in the laboratory results, it should be interpreted as meaning asbestos was not observed in the sample material.

Recommendations and Requirements – Asbestos

Disturbance of any asbestos-containing material (ACM) or asbestos-containing construction material (ACCM) that could generate airborne asbestos fibers is regulated by the California Division of Occupational Safety and Health (CAL OSHA).

The Contractor is required to have DOSH Registration for abatement activities involving more than 100 square feet.

For compliance with Title 8, California Administrative Code, Construction Safety Order 1529, Asbestos Regulations, the asbestos abatement contractor must send written notice at least one day (24 hours) prior to start of any work which will impact any asbestos. The contractor also must perform all work in accordance with Cal OSHA requirements (8 CCR 1529)

The US EPA National Emissions Standard for Hazardous Air Pollutants (NESHAP) regulation, as enforced by the Bay Area Air Quality Management District (BAAQMD), requires the abatement of

materials containing more than 1% asbestos prior to any demolition or renovation work that may cause the materials to become friable.

A written notification is required to be filed with the US EPA and CARB at least 10 working days prior to renovation activities impacting more than 100 square feet of regulated asbestos.

Lead

A total of 17 paint chip samples were collected of paints found in areas that may be impacted by the upcoming hydronic pipe replacement project.

The paint chip samples were collected by scraping paint from the surface down to the substrate while taking care not to include substrate in the sample. All paint layers were included in each sample collected. A razor, knife or other similar tool was used, and the tools were cleaned after sample collection.

The following paints were found to be lead-containing by Flame AA analysis:

- White paint on drywall walls-Buildings 300, 600, 1400, 1500,
- Gray paint on stucco-Building 400
- Light brown paint on drywall walls-Building 800, 1700A
- Green paint on pipe wrap
- White paint on stucco-Building 1700B
- Light gray paint on drywall-Building 1800B
- White coating on exhaust units-Roofs
- Black paint on support post-Roof wind screens

The following paint were found to be below the limit of detection for lead by Flame AA analysis:

- Beige paint on drywall walls
- White paint on drywall-Building 133
- White paint on stucco-Building 1300 exterior
- White paint on Stucco-Building 1400
- White paint on drywall walls-1800A

The lead survey was not a comprehensive lead-based paint or building material survey as detailed in the *"Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing"* by The National Center for Lead-Safe Housing for Housing and Urban Development (HUD).

Cal/OSHA, in Title 8 CCR Section 1532.1, Lead in Construction Standard which implements California labor code 8716-6717, regulates all construction work where an employee may be occupationally exposed to lead. Paint or materials with any detectable level of lead is considered lead-containing by Cal/OSHA.

The U.S. EPA, U.S. Department of Housing and Urban Development (HUD), and CDPH define lead-based paints (LBPs) as paints containing greater than 0.5% lead by weight, 5,000 parts per million (ppm), or 5,000 milligrams per kilogram (mg/kg), or 1.0 milligram per square centimeter (mg/cm^2) total lead. The OSHA and Cal/OSHA regulations (Lead Construction Standard) do not provide a definition for LBP, but refer to the U.S. EPA, HUD, and CDPH criteria mentioned above.

Cal/OSHA is primarily concerned with worker protection and therefore regulates any amount of lead contained within painted/coated building components.

For purposes of this report, materials containing lead shall be defined as materials that contain lead at levels greater than the limit of detection for lead by weight using Flame AA laboratory analysis.

Construction work impacting materials with detectable levels of lead is subject to Cal/OSHA requirements.

Construction activities, sometimes referred to as trigger tasks, impacting materials containing any amount of lead require an initial exposure assessment. Trigger tasks are defined in Cal/OSHA 1532.1, section (d) (2) and include but are not limited to such tasks as: manual demolition, manual scraping, manual sanding, lead burning, abrasive blasting, welding, cutting, and torch burning.

If any new materials are discovered during the renovation work. All work should be stopped until the material has been sampled and proven to be none detected.

Lead Recommendations

The Cal/OSHA Lead in Construction Standard (8 CCR 1532.1) should be followed for any activities that will disturb the painted coatings in the project area that are listed as lead-containing. This is recommended as the standard applies to lead-related construction activities containing any detectable amount of lead. It's recommended that the contractor use HEPA shrouded equipment when sanding, cutting, etc. to eliminate the potential for lead dust and worker exposure. The contractor shall dismantle equipment whenever feasible to eliminate potential exposure to lead.

Torch cutting is not permitted unless lead paint has been stripped of the substrate first. Local exhaust should be installed when torch cutting materials that had lead paints/coatings.

Roof samples were patched with Henry's mastic or white PVC and marked with an orange dot for easy identification. PMP, Inc. is not a roofer, so these patches are temporary and not expected to last.

This inspection is limited to the conditions and practices observed and information made available. The methods, conclusions and recommendations provided are based on PMP's judgment, expertise and the standard of practice for professional service. As with all environmental investigations, this investigation is limited to the defined scope and does not purport to set forth all hazards, nor indicate that other hazards do not exist.

Thank you for the opportunity to perform this inspection. If you have any questions, please contact me at (916) 628-5124 or via e-mail at pmpenvconsulting@gmail.com.

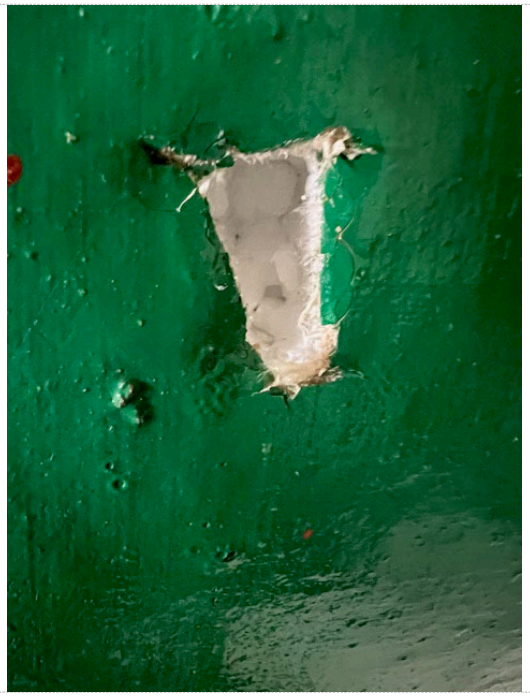
Sincerely,

Shannon Johanson

Shannon Johanson
President
CAC 14-5310
CDPH IA, PM 00003375 & 3374

PMP

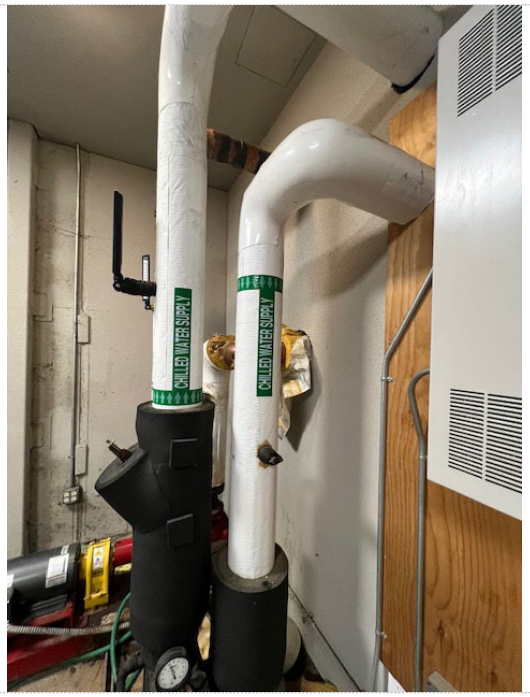
Photographs

	
Building 1800A	Building 1800A
	
Building 1400	Building 1400

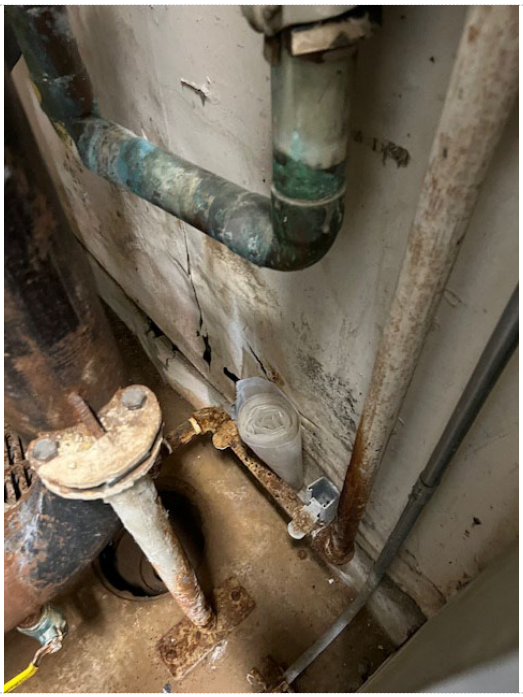
Building 1700A

Building 1700B

Building 200



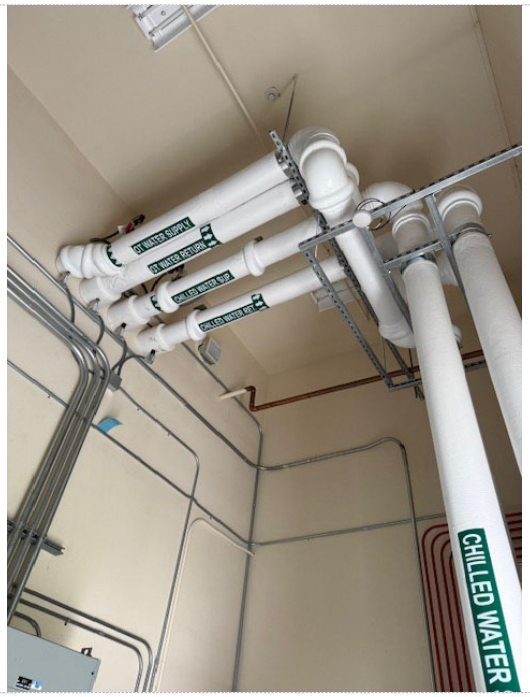
Building 400 DSP Garage



Building 300

Building 1500

Building 600



Building 1200

	
Each Sample Location Marked with Orange Dot	White TPO Roofing
	
Building 900	Building 900

PMP

Certifications
(Consultant and Lab)

United States Department of Commerce
National Institute of Standards and Technology

Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 600300-0

Eurofins EMLab P&K

Folsom, CA

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Asbestos Fiber Analysis

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2022-07-01 through 2023-06-30

Effective Dates

For the National Voluntary Laboratory Accreditation Program

National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

Eurofins EMLab P&K
180 Blue Ravine Road
Folsom, CA 95630
Dan Shelby
Phone: 623-298-1015
Email: dan.shelby@et.eurofinsus.com
http://www.emlab.com

ASBESTOS FIBER ANALYSIS **NVLAP LAB CODE 600300-0**

Bulk Asbestos Analysis

Code	***Description***
18/A01	EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

For the National Voluntary Laboratory Accreditation Program

United States Department of Commerce
National Institute of Standards and Technology

Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 200945-0

Eurofins Built Environment Testing West- Glendale, CA

Glendale, CA

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Asbestos Fiber Analysis

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique on ISO/IEC 17025).

2025-07-01 through 2026-06-30

Effective Dates

For the National Voluntary Laboratory Accreditation Program

National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

Eurofins Built Environment Testing West- Glendale, CA
1010 North Central Ave., Suite 460
Glendale, CA 91202
Quynh Nguyen
Phone: 800-651-4802
Email: quynh.nguyen@et.eurofinsus.com
https://www.eurofinsus.com/environment-testing/built-environment

ASBESTOS FIBER ANALYSIS **NVLAP LAB CODE 200945-0**

Bulk Asbestos Analysis

Code	***Description***
18/A01	EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

For the National Voluntary Laboratory Accreditation Program

CALIFORNIA
Water Boards
STATE WATER RESOURCES CONTROL BOARD
REGIONAL WATER QUALITY CONTROL BOARDS

CALIFORNIA STATE

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

CERTIFICATE OF ENVIRONMENTAL LABORATORY ACCREDITATION

Is hereby granted to

Eurofins Built Environment Testing West - Glendale, CA

1010 N. Central Avenue Suite 460

Glendale, CA 91202

Scope of the certificate is limited to the
"Fields of Accreditation"
which accompany this Certificate.

Continued accredited status depends on compliance with applicable laws and regulations, proficiency testing studies, and payment of applicable fees.

This Certificate is granted in accordance with provisions of Section 100825, et seq. of the Health and Safety Code.

Certificate No.: **3065**

Effective Date: **7/1/2025**

Expiration Date: **6/30/2027**

Sacramento, California
subject to forfeiture or revocation

Christine Sotelo, Program Manager
Environmental Laboratory Accreditation Program

CALIFORNIA STATE
ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM
Fields of Accreditation

Eurofins Built Environment Testing West - Glendale, CA

1010 N. Central Avenue Suite 460
Glendale, CA 91202
Phone: 8334655857

Certificate Number: 3065
Expiration Date: 6/30/2027

Field of Accreditation: 121 - Bulk Asbestos Analysis of Hazardous Waste

121.010	001	Bulk Asbestos	EPA 600/M4-82-020
121.020	001	Bulk Asbestos	EPA 600/R-93-116

As of 7/1/2025 , this list supersedes all previous lists for this certificate number.
Customers: Please verify the current accreditation standing with the State.

Certificate of Training

This Certifies that

Mason Johanson

has successfully completed 24 hours training entitled

Asbestos Building Inspector Initial

Toxic Substances Control Act, Title II (AHERA)

This is an annual certification. It must be renewed.

Environmental
Safety
Training
Professionals Ltd.

3140 Gold Camp Drive #160
Rancho Cordova, CA 95670
Phone 916 638-5550
Fax 916 638-5551
Division Approval #CA-006-05

By: Brandy Snider

Authorized Signature: Brandy Snider

I.D. #:	1725
Certification #:	41609
Course Dates:	06/23/25 to 06/25/25
Exam Date:	06/25/25
Expiration Date:	06/25/26

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC HEALTH

LEAD-RELATED CONSTRUCTION CERTIFICATE

INDIVIDUAL:	CERTIFICATE TYPE:	NUMBER:	EXPIRATION DATE:
 **Mason Johanson**	Lead Sampling Technician	LRC-00014481	7/23/2026

Disclaimer: This document alone should not be relied upon to confirm certification status. Compare the individual's photo and name to another valid form of government issued photo identification. Verify the individual's certification status by searching for Lead-Related Construction Professionals at www.cdph.ca.gov/programs/clppb or calling (800) 597-LEAD

STATE OF CALIFORNIA
DEPARTMENT OF INDUSTRIAL RELATIONS
Division of Occupational Safety and Health-Asbestos & Carcinogen Unit
1750 Howe Avenue, Suite 460
Sacramento, CA 95825
(916) 574-2993 Office http://www.dir.ca.gov/dosh/asbestos.html actu@dir.ca.gov

Gavin Newsom, Governor

410035310C

9/24/2025

PMP Environmental Consulting, Inc.
Shannon Johanson
5325 Elkhorn Boulevard #360
Sacramento CA 95842

Dear Certified Asbestos Consultant or Technician:

Enclosed is your certification card. **To maintain your certification, you must abide by the rules printed on the back of the certification card.**

Your certification is valid for a period of one year. If you wish to renew your certification, you must apply for renewal at least 60 days before the expiration date shown on your card. [8 CCR 341.15(h)(1)].

Please hold and do not send copies of your required AHERA refresher renewal certificates to our office until you apply for renewal of your certification.

Certificates must be kept current if you are actively working as a CAC or CSST. The grace period is only for those who are not actively working as an asbestos consultant or site surveillance technician.

Please contact our office at the above address or email w any changes in your contact/mailing information within 15 days of the change.

Sincerely,

Dean Mochrie, CAC
Senior Safety Engineer

Attachment: Certification Card

cc: File

Renewal – Card Attached (08/24)


State of California
Division of Occupational Safety and Health
Certified Asbestos Consultant
Shannon M Johanson
Name
Certification No. **14-5310**
Expires on **10/15/2026**
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
DEPARTMENT OF PUBLIC HEALTH

LEAD-RELATED CONSTRUCTION CERTIFICATE

INDIVIDUAL:	CERTIFICATE TYPE:	NUMBER:	EXPIRATION DATE:
	Lead Inspector/Assessor	LRC-00003375	11/16/2025
	Lead Project Monitor	LRC-00003374	11/16/2025

Shannon Johanson

Disclaimer: This document alone should not be relied upon to confirm certification status. Compare the individual's photo and name to another valid form of government issued photo identification. Verify the individual's certification status by searching for Lead-Related Construction Professionals at www.cdph.ca.gov/programs/clppb or calling (800) 597-LEAD

Shannon Johanson

PMP

Laboratory Reports and Chain of Custody

eurofins | Built Environment Testing

Report for:

Shannon Johanson
PMP Environmental Consulting- Contracts Account
5325 Elkhorn Blvd #360
Sacramento, CA 95842

Regarding: Eurofins Built Environment Testing West, LLC
Project: 25-191; Campus Hydronic Line Replacement
EML ID: 4266871

Approved by:

Approved Signatory
James Schatz

Dates of Analysis:
Asbestos PLM: 10-14-2025 and 10-15-2025

Service SOPs: Asbestos PLM (EPA 40CFR App E to Sub E of Part 763 & EPA METHOD 600/R-93-116, SOP EB-AS-S-1267)
NVLAP Lab Code 600255-0

Eurofins Built Environment Testing West, LLC
180 Blue Ravine Rd, Folsom, CA 95630
(833) 465-5857 www.eurofinsus.com/Built

Client: PMP Environmental Consulting- Contracts Account
C/O: Shannon Johanson
Re: 25-191; Campus Hydronic Line Replacement

Date of Sampling: 10-13-2025
Date of Receipt: 10-13-2025
Date of Report: 10-16-2025

ASBESTOS PLM REPORT

Total Samples Submitted:	127
Total Samples Analyzed:	127
Total Samples with Layer Asbestos Content > 1%:	5

Location: 01A, Stucco - Building 200, Near Side Entrance Lab ID-Version‡: 21348235-1

Sample Layers	Asbestos Content
Beige Stucco with Paint	ND
Sample Composite Homogeneity:	Good

Location: 01B, Stucco - Building 300, Exterior by Mechanical Room Lab ID-Version‡: 21348236-1

Sample Layers	Asbestos Content
Beige Stucco with Paint	ND
White Stucco	ND
Sample Composite Homogeneity:	Good

Location: 01C, Stucco - Building 400, Exterior at Pipes Lab ID-Version‡: 21348237-1

Sample Layers	Asbestos Content
Gray Stucco with Paint	ND
Sample Composite Homogeneity:	Good

Location: 01D, Stucco - Building 400, Garage 407 N at Pipes Lab ID-Version‡: 21348238-1

Sample Layers	Asbestos Content
Gray Stucco	ND
Sample Composite Homogeneity:	Good

All components not quantified as asbestos content and non-asbestos content are considered to be non-fibrous matrix components. Matrix components may include, but are not limited to, gypsum, paint, silicate minerals, vinyl, binder, calcium carbonate, tar, and foam.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins Built Environment Testing West, LLC
180 Blue Ravine Rd, Folsom, CA 95630
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Client: PMP Environmental Consulting- Contracts Account
C/O: Shannon Johanson
Re: 25-191; Campus Hydronic Line Replacement

Date of Sampling: 10-13-2025
Date of Receipt: 10-13-2025
Date of Report: 10-16-2025

ASBESTOS PLM REPORT

Location: 01E, Stucco - Building 500, Exterior Lab ID-Version‡: 21348239-1

Sample Layers	Asbestos Content
White Stucco	ND
Sample Composite Homogeneity:	Good

Location: 01F, Stucco - Building 600 Exterior Lab ID-Version‡: 21348240-1

Sample Layers	Asbestos Content
Brown Stucco with Paint	ND
Sample Composite Homogeneity:	Good

Location: 01G, Stucco - Building 600, Exterior Near Mechanical Room Lab ID-Version‡: 21348241-1

Sample Layers	Asbestos Content
Brown Stucco with Paint	ND
Sample Composite Homogeneity:	Good

Location: 01H, Stucco - Building 700, Mechanical Room Lab ID-Version‡: 21348242-1

Sample Layers	Asbestos Content
Yellow Stucco	ND
Gray Stucco	< 1% Chrysotile
Sample Composite Homogeneity:	Moderate

Location: 01I, Stucco - Building 800, Experior Pipes Lab ID-Version‡: 21348243-1

Sample Layers	Asbestos Content
Brown Stucco with Paint	ND
Sample Composite Homogeneity:	Good

All components not quantified as asbestos content and non-asbestos content are considered to be non-fibrous matrix components. Matrix components may include, but are not limited to, gypsum, paint, silicate minerals, vinyl, binder, calcium carbonate, tar, and foam.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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(833) 465-5857 www.eurofinsus.com/Built

Client: PMP Environmental Consulting- Contracts Account
C/O: Shannon Johanson
Re: 25-191; Campus Hydronic Line Replacement

Date of Sampling: 10-13-2025
Date of Receipt: 10-13-2025
Date of Report: 10-16-2025

ASBESTOS PLM REPORT

Location: 01J, Stucco - Building 900, Near Entrance Lab ID-Version‡: 21348244-1

Sample Layers	Asbestos Content
Brown Stucco with Paint	ND
Sample Composite Homogeneity:	Good

Location: 01K, Stucco - Building 1000, Exterior at Pipes Lab ID-Version‡: 21348245-1

Sample Layers	Asbestos Content
Brown Stucco with Paint	ND
Sample Composite Homogeneity:	Good

Location: 01L, Stucco - Building 1000, at Exterior Panel Lab ID-Version‡: 21348246-1

Sample Layers	Asbestos Content
Brown Stucco with Paint	ND
Gray Stucco	ND
Sample Composite Homogeneity:	Good

Location: 01M, Stucco - Building 1200, Near 1248 Lab ID-Version‡: 21348247-1

Sample Layers	Asbestos Content
Brown Stucco with Paint	ND
Sample Composite Homogeneity:	Good

Location: 01N, Stucco - Building 1200, Near 1248 Lab ID-Version‡: 21348248-1

Sample Layers	Asbestos Content
Brown Stucco with Paint	ND
Sample Composite Homogeneity:	Good

All components not quantified as asbestos content and non-asbestos content are considered to be non-fibrous matrix components. Matrix components may include, but are not limited to, gypsum, paint, silicate minerals, vinyl, binder, calcium carbonate, tar, and foam.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins Built Environment Testing West, LLC
180 Blue Ravine Rd, Folsom, CA 95630
(833) 465-5857 www.eurofinsus.com/Built

Client: PMP Environmental Consulting- Contracts Account
C/O: Shannon Johanson
Re: 25-191; Campus Hydronic Line Replacement

Date of Sampling: 10-13-2025
Date of Receipt: 10-13-2025
Date of Report: 10-16-2025

ASBESTOS PLM REPORT

Location: 01O, Stucco - Building 1300, Exterior Courtyard Lab ID-Version‡: 21348249-1

Sample Layers	Asbestos Content
Beige Stucco with Paint	ND
Sample Composite Homogeneity:	Good

Location: 01P, Stucco - Building 1300, Exterior Courtyard Lab ID-Version‡: 21348250-1

Sample Layers	Asbestos Content
Beige Stucco with Paint	ND
Sample Composite Homogeneity:	Good

Location: 01Q, Stucco - Building 1800A, Near Side Entrance Lab ID-Version‡: 21348251-1

Sample Layers	Asbestos Content
Brown Stucco with Paint	ND
Sample Composite Homogeneity:	Good

Location: 01R, Stucco - Building 1400, Exterior Lab ID-Version‡: 21348252-1

Sample Layers	Asbestos Content
Brown Stucco with Paint	ND
Sample Composite Homogeneity:	Good

Location: 01S, Stucco - Building 1400, Exterior Lab ID-Version‡: 21348253-1

Sample Layers	Asbestos Content
Brown Stucco with Paint	ND
Sample Composite Homogeneity:	Good

All components not quantified as asbestos content and non-asbestos content are considered to be non-fibrous matrix components. Matrix components may include, but are not limited to, gypsum, paint, silicate minerals, vinyl, binder, calcium carbonate, tar, and foam.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins Built Environment Testing West, LLC
180 Blue Ravine Rd, Folsom, CA 95630
(833) 465-5857 www.eurofinsus.com/Built

Client: PMP Environmental Consulting- Contracts Account
C/O: Shannon Johanson
Re: 25-191; Campus Hydronic Line Replacement

Date of Sampling: 10-13-2025
Date of Receipt: 10-13-2025
Date of Report: 10-16-2025

ASBESTOS PLM REPORT

Location: 01T, Stucco - Building 1700A, Mechanical Room Lab ID-Version‡: 21348254-1

Sample Layers	Asbestos Content
Yellow Stucco	ND
Gray Stucco	< 1% Chrysotile
Sample Composite Homogeneity:	Moderate

Location: 01U, Stucco - Building 1700A, Mechanical Room Lab ID-Version‡: 21348255-1

Sample Layers	Asbestos Content
Yellow Stucco	ND
Gray Stucco	< 1% Chrysotile
Sample Composite Homogeneity:	Moderate

Location: 01V, Stucco - Building 1700B, Exterior Lab ID-Version‡: 21348256-1

Sample Layers	Asbestos Content
White Stucco with Paint	ND
Sample Composite Homogeneity:	Good

Location: 01W, Stucco - Building 1700B, Exterior Lab ID-Version‡: 21348257-1

Sample Layers	Asbestos Content
Beige Stucco with Paint	ND
Sample Composite Homogeneity:	Good

Location: 01X, Stucco - Building 1800B, Near 1850 Lab ID-Version‡: 21348258-1

Sample Layers	Asbestos Content
Brown Stucco with Paint	ND
Sample Composite Homogeneity:	Good

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Client: PMP Environmental Consulting- Contracts Account
C/O: Shannon Johanson
Re: 25-191; Campus Hydronic Line Replacement

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ASBESTOS PLM REPORT

Location: 01Y, Stucco - Building 1800B Near Exterior Pipes Lab ID-Version‡: 21348259-1

Sample Layers	Asbestos Content
Brown Stucco with Paint	ND
Sample Composite Homogeneity:	Good

Location: 02A, Gray Seam Sealant on Metal Jacketing - Building 600, Exterior Lines Lab ID-Version‡: 21348260-1

Sample Layers	Asbestos Content
Gray Sealant with Paint	ND
Brown Stucco	ND
Sample Composite Homogeneity:	Moderate

Location: 02B, Gray Seam Sealant on Metal Jacketing - Building 700, Exterior Lines Lab ID-Version‡: 21348261-1

Sample Layers	Asbestos Content
Gray Sealant	ND
Sample Composite Homogeneity:	Good

Location: 02C, Gray Seam Sealant on Metal Jacketing - Building 800, Exterior lines Lab ID-Version‡: 21348262-1

Sample Layers	Asbestos Content
Gray Sealant	ND
Sample Composite Homogeneity:	Good

Location: 02D, Gray Seam Sealant on Metal Jacketing - Building 1200, Near 1248 Exterior Lines Lab ID-Version‡: 21348263-1

Sample Layers	Asbestos Content
Gray Sealant	ND
Sample Composite Homogeneity:	Good

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ASBESTOS PLM REPORT

Location: 02E, Gray Seam Sealant on Metal Jacketing - Building 1300, Exterior Lines Lab ID-Version‡: 21348264-1

Sample Layers	Asbestos Content
Gray Sealant	ND
Sample Composite Homogeneity:	Good

Location: 02F, Gray Seam Sealant on Metal Jacketing - Building 1400, Exterior Lines Lab ID-Version‡: 21348265-1

Sample Layers	Asbestos Content
Gray Sealant with Paint	ND
Brown Stucco	ND
Sample Composite Homogeneity:	Moderate

Location: 02G, Gray Seam Sealant on Metal Jacketing - Building 1700B, Exterior Lines

Lab ID-Version‡: 21348266-1

Sample Layers	Asbestos Content
Gray Sealant	ND
Sample Composite Homogeneity:	Good

Location: 02H, Gray Seam Sealant on Metal Jacketing - Building 1800A, Exterior Lines

Lab ID-Version‡: 21348267-1

Sample Layers	Asbestos Content
Gray Sealant	ND
Sample Composite Homogeneity:	Good

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ASBESTOS PLM REPORT

Location: 03A, Black Foam Wrap on Supply - Building 400 Lab ID-Version‡: 21348268-1

Sample Layers	Asbestos Content
Black Foam	ND
Composite Non-Asbestos Content:	10% Synthetic Fibers
Sample Composite Homogeneity:	Good

Location: 03B, Black Foam Wrap - Building 600, Mechanical Room Lab ID-Version‡: 21348269-1

Sample Layers	Asbestos Content
Black Foam	ND
Sample Composite Homogeneity:	Good

Location: 03C, Black Foam Wrap - Building 1700A, Mechanical room Lab ID-Version‡: 21348270-1

Sample Layers	Asbestos Content
Black Foam	ND
Sample Composite Homogeneity:	Good

Location: 03D, Black Foam Wrap - Building 1800A, Mechanical room Lab ID-Version‡: 21348271-1

Sample Layers	Asbestos Content
Black Foam	ND
Sample Composite Homogeneity:	Good

Location: 04A, Black Foam Wrap w/ White Coating - Building 1300, Mechanical Room

Lab ID-Version‡: 21348272-1

Sample Layers	Asbestos Content
White Coating	ND
Black Foam	ND
Sample Composite Homogeneity:	Moderate

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ASBESTOS PLM REPORT

Location: 04B, Black Foam Wrap w/ White Coating - Building 1300, Mechanical Room

Lab ID-Version‡: 21348273-1

Sample Layers	Asbestos Content
White Coating	ND
Black Foam	ND
Sample Composite Homogeneity:	Moderate

Location: 04C, Black Foam Wrap w/ White Coating - Building 1800B, Exterior

Lab ID-Version‡: 21348274-1

Sample Layers	Asbestos Content
White Coating	ND
Black Foam	ND
Sample Composite Homogeneity:	Moderate

Location: 04D, Black Foam Wrap w/ White Coating - Building 1800B

Lab ID-Version‡: 21348275-1

Sample Layers	Asbestos Content
White Coating	ND
Black Foam	ND
Sample Composite Homogeneity:	Moderate

Location: 05A, Silver Foil Tape - Building 600, Exterior Lines

Lab ID-Version‡: 21348276-1

Sample Layers	Asbestos Content
Silver Tape	ND
White Non-Fibrous Material	ND
Sample Composite Homogeneity:	Good

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ASBESTOS PLM REPORT

Location: 05B, Silver Foil Tape - Building 800, Exterior Near Mechanical Room Lab ID-Version‡: 21348277-1

Sample Layers	Asbestos Content
Silver Tape	ND
White Adhesive	ND
Sample Composite Homogeneity:	Moderate

Location: 05C, Silver Foil Tape - Building 900, Roof Penthouse Lab ID-Version‡: 21348278-1

Sample Layers	Asbestos Content
Silver Tape	ND
White Adhesive	ND
Sample Composite Homogeneity:	Moderate

Location: 05D, Silver Foil Tape - Building 1000, Custodial / Boiler Lab ID-Version‡: 21348279-1

Sample Layers	Asbestos Content
Silver Tape	ND
Gray Adhesive	ND
Sample Composite Homogeneity:	Moderate

Location: 06A, Tan Sealant - Buiding 800, Mechanical Room Lab ID-Version‡: 21348280-1

Sample Layers	Asbestos Content
Multicolored Wrap	ND
White Adhesive	ND
Yellow Insulation	ND
Composite Non-Asbestos Content:	30% Glass Fibers 20% Cellulose
Sample Composite Homogeneity:	Poor

Comments: No sealant present for analysis

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ASBESTOS PLM REPORT

Location: 06B, Tan Sealant - Buiding 1400, Mechanical on Hot Water Lines Lab ID-Version‡: 21348281-1

Sample Layers	Asbestos Content
Tan Sealant	ND
Multicolored Wrap	ND
Composite Non-Asbestos Content:	5% Cellulose 3% Glass Fibers 2% Synthetic Fibers
Sample Composite Homogeneity:	Moderate

Location: 06C, Tan Sealant - Buiding 1400, Mechanical on Hot Water Lines Lab ID-Version‡: 21348282-1

Sample Layers	Asbestos Content
Tan Sealant	ND
Multicolored Wrap	ND
Composite Non-Asbestos Content:	5% Cellulose 3% Glass Fibers 2% Synthetic Fibers
Sample Composite Homogeneity:	Moderate

Location: 07A, White Pipe Paint on Fiberglass Wrap - Building200, Mechanical Room Lab ID-Version‡: 21348283-1

Sample Layers	Asbestos Content
White Paint	ND
White Tape	ND
Silver Wrap	ND
White Non-Fibrous Material	ND
Composite Non-Asbestos Content:	15% Cellulose 5% Glass Fibers
Sample Composite Homogeneity:	Poor

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ASBESTOS PLM REPORT

Location: 07B, White Pipe Paint on Fiberglass Wrap - Building 200 Mechanical Room Lab ID-Version‡: 21348284-1

Sample Layers	Asbestos Content
White Paint	ND
White Tape	ND
Silver Wrap	ND
Composite Non-Asbestos Content:	20% Cellulose 5% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 08A, White Tape on Fiberglass Wrap - Building 200, Mechanical Room Lab ID-Version‡: 21348285-1

Sample Layers	Asbestos Content
White Tape	ND
Silver Wrap	ND
Yellow Adhesive	ND
Composite Non-Asbestos Content:	15% Cellulose 5% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 08B, White Tape on Fiberglass Wrap - Building 200, Mechanical Room Lab ID-Version‡: 21348286-1

Sample Layers	Asbestos Content
White Tape	ND
Silver Wrap	ND
Yellow Adhesive	ND
Composite Non-Asbestos Content:	15% Cellulose 5% Glass Fibers
Sample Composite Homogeneity:	Poor

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ASBESTOS PLM REPORT

Location: 09A, White Pipe Paint in Fiberglass Wrap - Building 300, 314 on Hot Water Lines

Lab ID-Version‡: 21348287-1

Sample Layers	Asbestos Content
Tan Sealant	ND
White Fibrous Material	ND
White Non-Fibrous Material	ND
Yellow Adhesive	ND
Composite Non-Asbestos Content:	10% Glass Fibers 5% Synthetic Fibers
Sample Composite Homogeneity:	Poor

Comments: No paint present for analysis

Location: 09B, White Pipe Paint in Fiberglass Wrap - Building 300, 314 on Hot Water Lines

Lab ID-Version‡: 21348288-1

Sample Layers	Asbestos Content
Tan Sealant	ND
White Fibrous Material	ND
White Non-Fibrous Material	ND
Yellow Adhesive	ND
Composite Non-Asbestos Content:	10% Glass Fibers 5% Synthetic Fibers
Sample Composite Homogeneity:	Poor

Location: 10A, White Pipe Paint in Fiberglass Wrap - Building 300, 314 on Cold Water Lines

Lab ID-Version‡: 21348289-1

Sample Layers	Asbestos Content
White Tape	ND
Yellow Adhesive	ND
Silver Wrap	ND
Yellow Insulation	ND
Composite Non-Asbestos Content:	30% Glass Fibers 25% Cellulose
Sample Composite Homogeneity:	Poor

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ASBESTOS PLM REPORT

Location: 10B, White Pipe Paint in Fiberglass Wrap - Building 300, 314 on Cold Water Lines Lab ID-Version‡: 21348290-1

Sample Layers	Asbestos Content
White Tape	ND
Yellow Adhesive	ND
Silver Wrap	ND
Yellow Insulation	ND
Composite Non-Asbestos Content:	30% Glass Fibers 25% Cellulose
Sample Composite Homogeneity:	Poor

Location: 11A, Black Pipe Coating - Building 400, Garage at Cold Water Lines Lab ID-Version‡: 21348291-1

Sample Layers	Asbestos Content
Black Coating	ND
Composite Non-Asbestos Content:	25% Cellulose 10% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 12A, White Tape on Fiberglass Wrap - Building 400, Fire Riser Room Lab ID-Version‡: 21348292-1

Sample Layers	Asbestos Content
White Tape	ND
Silver Wrap	ND
Composite Non-Asbestos Content:	25% Cellulose 10% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 12B, White Tape on Fiberglass Wrap - Building 400, Fire Riser Room Lab ID-Version‡: 21348293-1

Sample Layers	Asbestos Content
White Tape	ND
Silver Wrap	ND
Composite Non-Asbestos Content:	25% Cellulose 10% Glass Fibers
Sample Composite Homogeneity:	Moderate

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ASBESTOS PLM REPORT

Location: 13A, White Pipe Paint on Fiberglass Wrap - Building 400, Fire Riser Room on Cold Water

Lab ID-Version‡: 21348294-1

Sample Layers	Asbestos Content
White Paint	ND
Multicolored Wrap	ND
Composite Non-Asbestos Content:	15% Cellulose 5% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 13B, White Pipe Paint on Fiberglass Wrap - Building 400, Fire Riser Room on Cold Water

Lab ID-Version‡: 21348295-1

Sample Layers	Asbestos Content
White Paint	ND
Multicolored Wrap	ND
Composite Non-Asbestos Content:	15% Cellulose 5% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 14A, Black Coating on Fiberglass Wrap - Building 600, Exterior Lines

Lab ID-Version‡: 21348296-1

Sample Layers	Asbestos Content
Black Coating	ND
Sample Composite Homogeneity:	Good

Location: 14B, Black Coating on Fiberglass Wrap - Building 600, Exterior Lines

Lab ID-Version‡: 21348297-1

Sample Layers	Asbestos Content
Black Coating	ND
Yellow Foam	ND
Sample Composite Homogeneity:	Moderate

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ASBESTOS PLM REPORT

Location: 15A, White TSI on Hot Water Return - Building 800, Mechanical at Flange Gasket

Lab ID-Version‡: 21348298-1

Sample Layers	Asbestos Content
White Insulation	ND
Composite Non-Asbestos Content:	3% Mineral Wool
Sample Composite Homogeneity:	Good

Location: 15B, White TSI on Hot Water Return - Building 800, Mechanical at Flange Gasket

Lab ID-Version‡: 21348299-1

Sample Layers	Asbestos Content
White Insulation	ND
Composite Non-Asbestos Content:	3% Mineral Wool
Sample Composite Homogeneity:	Good

Location: 16A, Tan Pipe Wrap Debris - Building 800, Mechanical

Lab ID-Version‡: 21348300-1

Sample Layers	Asbestos Content
Brown Paper	ND
Brown Fibrous Material	ND
Composite Non-Asbestos Content:	60% Cellulose 40% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 17A, White Tape & Pipe Paint on Fiberglass Wrap - Building 900, Roof Penthouse

Lab ID-Version‡: 21348301-1

Sample Layers	Asbestos Content
White Paint	ND
Yellow Insulation	ND
Composite Non-Asbestos Content:	30% Glass Fibers 2% Cellulose
Sample Composite Homogeneity:	Moderate

Comments: No tape present for analysis

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ASBESTOS PLM REPORT

Location: 17B, White Tape & Pipe Paint on Fiberglass Wrap - Building 900, Roof Penthouse

Lab ID-Version‡: 21348302-1

Sample Layers	Asbestos Content
White Paint	ND
Yellow Insulation	ND
Composite Non-Asbestos Content:	30% Glass Fibers 2% Cellulose
Sample Composite Homogeneity:	Moderate

Comments: No tape present for analysis

Location: 18A, White Tape & Pipe Paint on Fiberglass Wrap - Building 1200, Mechanical

Lab ID-Version‡: 21348303-1

Sample Layers	Asbestos Content
White Paint	ND
White Tape	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 18B, White Tape & Pipe Paint on Fiberglass Wrap - Building 1200, Mechanical

Lab ID-Version‡: 21348304-1

Sample Layers	Asbestos Content
White Paint	ND
Yellow Insulation	ND
Composite Non-Asbestos Content:	30% Glass Fibers 3% Cellulose
Sample Composite Homogeneity:	Moderate

Comments: No tape present for analysis

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ASBESTOS PLM REPORT

Location: 19A, White Tape on Fiberglass Wrap - Building 1300, Mechanical Room Lab ID-Version‡: 21348305-1

Sample Layers	Asbestos Content
White Tape	ND
Silver Wrap	ND
Composite Non-Asbestos Content:	30% Cellulose 20% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 20A, Canvas Wrap on Styrofoam Insultaion - Building 1400, Mechanical Lab ID-Version‡: 21348306-1

Sample Layers	Asbestos Content
White Wrap with Paint	ND
Beige Wrap with Paint	ND
Yellow Adhesive	ND
White Insulation	ND
Composite Non-Asbestos Content:	55% Cellulose
Sample Composite Homogeneity:	Poor

Location: 21A, White Pipe Paint on Fiberglass Wrap - Building 1400, Mechanical Lab ID-Version‡: 21348307-1

Sample Layers	Asbestos Content
White Paint	ND
Silver Wrap	ND
Composite Non-Asbestos Content:	15% Cellulose 8% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 21B, White Pipe Paint on Fiberglass Wrap - Building 1400, Mechanical Lab ID-Version‡: 21348308-1

Sample Layers	Asbestos Content
White Paint	ND
Yellow Insulation	ND
Composite Non-Asbestos Content:	45% Glass Fibers
Sample Composite Homogeneity:	Moderate

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ASBESTOS PLM REPORT

Location: 22A, White Tape on Fiberglass Wrap - Builing 1500, 1518

Lab ID-Version‡: 21348309-1

Sample Layers	Asbestos Content
White Tape	ND
Silver Wrap	ND
Composite Non-Asbestos Content:	55% Cellulose 15% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 22B, White Tape on Fiberglass Wrap - Builing 1500, 1518 on Hot Water Lines

Lab ID-Version‡: 21348310-1

Sample Layers	Asbestos Content
Brown Tape	ND
Silver Wrap	ND
Composite Non-Asbestos Content:	45% Cellulose 15% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 23A, White Pipe Paint on Fiberglass Wrap - Builing 1500, 1518 on Hot Water Lines

Lab ID-Version‡: 21348311-1

Sample Layers	Asbestos Content
White Paint	ND
Sample Composite Homogeneity:	Good

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ASBESTOS PLM REPORT

Location: 23B, White Pipe Paint on Fiberglass Wrap - Builing 1500, 1518 on Hot Water Lines

Lab ID-Version‡: 21348312-1

Sample Layers	Asbestos Content
White Paint	ND
White Tape	ND
Yellow Adhesive	ND
Silver Wrap	ND
Composite Non-Asbestos Content:	20% Cellulose 5% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 24A, White Pipe Paint on Foam Wrap (Metal Jacket) - Building 17ooB, Exterior

Lab ID-Version‡: 21348313-1

Sample Layers	Asbestos Content
White Paint	ND
Yellow Foam	ND
Sample Composite Homogeneity:	Moderate

Location: 24B, White Pipe Paint on Foam Wrap (Metal Jacket) - Building 17ooB, Exterior

Lab ID-Version‡: 21348314-1

Sample Layers	Asbestos Content
White Paint	ND
Yellow Foam	ND
Sample Composite Homogeneity:	Moderate

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ASBESTOS PLM REPORT

Location: 25A, White Tape w/ Pipe Paint on Fiberglass Wrap - Building 1700A, Mechanical

Lab ID-Version‡: 21348315-1

Sample Layers	Asbestos Content
White Paint	ND
White Tape	ND
Yellow Adhesive	ND
Silver Wrap	ND
Yellow Insulation	ND
Composite Non-Asbestos Content:	10% Cellulose 3% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 25B, White Tape w/ Pipe Paint on Fiberglass Wrap - Building 1700A, Mechanical

Lab ID-Version‡: 21348316-1

Sample Layers	Asbestos Content
White Paint	ND
White Tape	ND
Silver Wrap	ND
Yellow Insulation	ND
Composite Non-Asbestos Content:	12% Cellulose 3% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 26A, Canvas on Fiberglass Insulation - Building 1700A, Mechanical Hot Water Lines

Lab ID-Version‡: 21348317-1

Sample Layers	Asbestos Content
Beige Wrap with Paint	ND
Yellow Insulation	ND
Composite Non-Asbestos Content:	50% Glass Fibers 35% Cellulose
Sample Composite Homogeneity:	Moderate

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ASBESTOS PLM REPORT

Location: 26B, Canvas on Fiberglass Insulation - Building 1700A, Mechanical Hot Water Lines

Lab ID-Version‡: 21348318-1

Sample Layers	Asbestos Content
Beige Wrap with Paint	ND
Yellow Insulation	ND
Composite Non-Asbestos Content:	50% Glass Fibers 35% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 27A, White Pipe Paint on Fiberglass Wrap - Building 1800A, 1812 Mech

Lab ID-Version‡: 21348319-1

Sample Layers	Asbestos Content
White Paint	ND
Yellow Insulation	ND
Composite Non-Asbestos Content:	30% Glass Fibers 2% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 27B, White Pipe Paint on Fiberglass Wrap - Building 1800A, 1812 Mech

Lab ID-Version‡: 21348320-1

Sample Layers	Asbestos Content
White Paint	ND
White Tape	ND
Silver Wrap	ND
Yellow Insulation	ND
Composite Non-Asbestos Content:	25% Glass Fibers 15% Cellulose
Sample Composite Homogeneity:	Poor

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ASBESTOS PLM REPORT

Location: 28A, White Tape on Fiberglass Wrap - Building 1800B, 1850 Lab ID-Version‡: 21348321-1

Sample Layers	Asbestos Content
White Tape	ND
Silver Wrap	ND
Composite Non-Asbestos Content:	55% Cellulose 10% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 28B, White Tape on Fiberglass Wrap - Building 1800B, 1850 Lab ID-Version‡: 21348322-1

Sample Layers	Asbestos Content
White Tape	ND
Silver Wrap	ND
Composite Non-Asbestos Content:	55% Cellulose 10% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 29A, Cement Pipe - Building 1800A, 1812 at Floor Lab ID-Version‡: 21348323-1

Sample Layers	Asbestos Content
White Fiberglass Reinforced Plastic Like	ND
Composite Non-Asbestos Content:	3% Glass Fibers
Sample Composite Homogeneity:	Good

Comments: No cement present for analysis

Location: 29B, Cement Pipe - Building 1800A, 1812 at Floor Lab ID-Version‡: 21348324-1

Sample Layers	Asbestos Content
White Fiberglass Reinforced Plastic Like	ND
Composite Non-Asbestos Content:	3% Glass Fibers
Sample Composite Homogeneity:	Good

Comments: No cement present for analysis

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ASBESTOS PLM REPORT

Location: 30A, White Tape on Fiberglass Wrap - Building 1800A, 1812 Lab ID-Version‡: 21348325-1

Sample Layers	Asbestos Content
White Tape	ND
Yellow Adhesive	ND
Silver Wrap	ND
Composite Non-Asbestos Content:	30% Cellulose 5% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 30B, White Tape on Fiberglass Wrap - Building 1800A, 1812 Lab ID-Version‡: 21348326-1

Sample Layers	Asbestos Content
White Tape	ND
Yellow Adhesive	ND
Silver Wrap	ND
Composite Non-Asbestos Content:	30% Cellulose 5% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 31A, TSI on Hydronic Hot Water Line - Building 1800B, 1812 Lab ID-Version‡: 21348327-1

Sample Layers	Asbestos Content
Off-White Wrap with Paint	ND
Off-White Insulation	ND
Composite Non-Asbestos Content:	30% Cellulose 2% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 31B, TSI on Hydronic Hot Water Line - Building 1800B, 1812 Lab ID-Version‡: 21348328-1

Sample Layers	Asbestos Content
Off-White Wrap with Paint	ND
Off-White Insulation	ND
Composite Non-Asbestos Content:	30% Cellulose 2% Glass Fibers
Sample Composite Homogeneity:	Moderate

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ASBESTOS PLM REPORT

Location: 31C, TSI on Hydronic Hot Water Line - Building 1800B, 1812 Lab ID-Version‡: 21348329-1

Sample Layers	Asbestos Content
Off-White Wrap with Paint	ND
Off-White Insulation	ND
Composite Non-Asbestos Content:	30% Cellulose 2% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 32A, Red Fire Caulking - Building 600, Mechanical Lab ID-Version‡: 21348330-1

Sample Layers	Asbestos Content
Red Fire Stop	ND
Brown Paper	ND
Composite Non-Asbestos Content:	20% Cellulose 2% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 32B, Red Fire Caulking - Building 1800A, 1812 Lab ID-Version‡: 21348331-1

Sample Layers	Asbestos Content
Red Fire Stop	ND
Brown Paper	ND
Composite Non-Asbestos Content:	20% Cellulose 2% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 32C, Red Fire Caulking - Building 1800A, 1812 Ceiling Lab ID-Version‡: 21348332-1

Sample Layers	Asbestos Content
Red Fire Stop	ND
White Powdery Material	ND
Composite Non-Asbestos Content:	20% Cellulose 2% Glass Fibers
Sample Composite Homogeneity:	Moderate

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ASBESTOS PLM REPORT

Location: 33A, Green Flange Gaster - Building 400, Fire Riser Room Lab ID-Version‡: 21348333-1

Sample Layers	Asbestos Content
Green Gasket	ND
Composite Non-Asbestos Content:	12% Cellulose
Sample Composite Homogeneity:	Good

Location: 34A, White Duct Seam Tape - Building 200, Mechanical Lab ID-Version‡: 21348334-1

Sample Layers	Asbestos Content
Off-White Tape	ND
Composite Non-Asbestos Content:	55% Cellulose
Sample Composite Homogeneity:	Good

Location: 34B, White Duct Seam Tape - Building 200, Mechanical Lab ID-Version‡: 21348335-1

Sample Layers	Asbestos Content
Off-White Tape	ND
Composite Non-Asbestos Content:	55% Cellulose
Sample Composite Homogeneity:	Good

Location: 35A, Silver Sealant - Building 1800B, Exterior Lines Lab ID-Version‡: 21348336-1

Sample Layers	Asbestos Content
Silver Sealant	ND
Sample Composite Homogeneity:	Good

Location: 36A, Gray/Black Mastic - Building 900, Roof at Pipe Lab ID-Version‡: 21348337-1

Sample Layers	Asbestos Content
Gray Mastic	ND
Sample Composite Homogeneity:	Good

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ASBESTOS PLM REPORT

Location: 36B, Gray/Black Mastic - Building 900, Roof at Pipe Lab ID-Version‡: 21348338-1

Sample Layers	Asbestos Content
Gray Mastic	ND
Black Mastic	ND
Sample Composite Homogeneity:	Moderate

Location: 37A, Gray Rolled Roofing - Building 900 Roof Lab ID-Version‡: 21348339-1

Sample Layers	Asbestos Content
Gray/Black Roofing Material	ND
Composite Non-Asbestos Content:	5% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 37B, Gray Rolled Roofing - Building 900 Roof Lab ID-Version‡: 21348340-1

Sample Layers	Asbestos Content
Gray/Black Roofing Material	ND
Composite Non-Asbestos Content:	5% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 37C, Gray Rolled Roofing - Building 900 Roof Lab ID-Version‡: 21348341-1

Sample Layers	Asbestos Content
Gray/Black Roofing Material	ND
Composite Non-Asbestos Content:	5% Glass Fibers
Sample Composite Homogeneity:	Moderate

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ASBESTOS PLM REPORT

Location: 40A, Drywall w/ Joint Compound - Building 200, Mechanical Room Lab ID-Version‡: 21348342-1

Sample Layers	Asbestos Content
White Compound with Paint	ND
Cream Tape	ND
White Joint Compound	ND
Brown Drywall with Brown/Green Paper	ND
Composite Non-Asbestos Content:	15% Cellulose 2% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 40B, Drywall w/ Joint Compound - Building 200, Mechanical Room Lab ID-Version‡: 21348343-1

Sample Layers	Asbestos Content
Cream Tape with Paint	ND
White Joint Compound	ND
Brown Drywall with Brown/Green Paper	ND
Composite Non-Asbestos Content:	20% Cellulose 2% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 41A, Drywall w/ Joint Compound - Building 400, Fire Rider Room Lab ID-Version‡: 21348344-1

Sample Layers	Asbestos Content
White Compound with Paint	ND
Cream Tape	ND
White Joint Compound	ND
Brown/White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	15% Cellulose < 1% Glass Fibers
Sample Composite Homogeneity:	Poor

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ASBESTOS PLM REPORT

Location: 41B, Drywall w/ Joint Compound - Building 400, Fire Rider Room Lab ID-Version‡: 21348345-1

Sample Layers	Asbestos Content
Brown/White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	20% Cellulose 2% Glass Fibers
Sample Composite Homogeneity:	Moderate

Comments: No joint compound present for analysis

Location: 42A, Drywall w/ Joint Compound - Building 300, 314 Lab ID-Version‡: 21348346-1

Sample Layers	Asbestos Content
Brown/White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	20% Cellulose 2% Glass Fibers
Sample Composite Homogeneity:	Moderate

Comments: No joint compound present for analysis

Location: 42B, Drywall w/ Joint Compound - Building 300, 314 Lab ID-Version‡: 21348347-1

Sample Layers	Asbestos Content
White Joint Compound	ND
Brown/White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	10% Cellulose < 1% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 43A, Drywall - Smooth (Field) - Building 600, Mechnical Lab ID-Version‡: 21348348-1

Sample Layers	Asbestos Content
Brown/White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	20% Cellulose 2% Glass Fibers
Sample Composite Homogeneity:	Moderate

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ASBESTOS PLM REPORT

Location: 43B, Drywall - Smooth w/ Joint Compound - Building 600 Mechanical Lab ID-Version‡: 21348349-1

Sample Layers	Asbestos Content
White Compound with Paint	2% Chrysotile
Cream Tape	ND
White Joint Compound	2% Chrysotile
Brown/White Drywall with Brown Paper	ND
Sample Composite Homogeneity:	Poor

Location: 44A, Drywall w/ Large Knockdown - Building 1200, Mechanical Lab ID-Version‡: 21348350-1

Sample Layers	Asbestos Content
White Joint Compound with Paint	ND
Brown/White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	10% Cellulose < 1% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 44B, Drywall w/ Large Knockdown - Building 1200, Mechanical Lab ID-Version‡: 21348351-1

Sample Layers	Asbestos Content
White Joint Compound with Paint	ND
Brown/White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	10% Cellulose < 1% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 45A, Drywall - Smooth - Building 1200, Mechanical Lab ID-Version‡: 21348381-1

Sample Layers	Asbestos Content
Brown/White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	20% Cellulose 2% Glass Fibers
Sample Composite Homogeneity:	Moderate

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Client: PMP Environmental Consulting- Contracts Account
C/O: Shannon Johanson
Re: 25-191; Campus Hydronic Line Replacement

Date of Sampling: 10-13-2025
Date of Receipt: 10-13-2025
Date of Report: 10-16-2025

ASBESTOS PLM REPORT

Location: 45B, Drywall - Smooth - Building 1200, Mechanical

Lab ID-Version‡: 21348382-1

Sample Layers	Asbestos Content
White Compound with Paint	ND
Cream Tape	ND
White Joint Compound	ND
Brown/White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	15% Cellulose < 1% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 46A, Drywall w/ Joint Compound - Building 1400, Mechanical

Lab ID-Version‡: 21348383-1

Sample Layers	Asbestos Content
Beige Compound with Paint	2% Chrysotile
Cream Tape	ND
White Joint Compound	2% Chrysotile
Brown/White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	15% Cellulose < 1% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 46B, Drywall (Field) - Building 1400, Mechanical

Lab ID-Version‡: 21348384-1

Sample Layers	Asbestos Content
Brown/White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	20% Cellulose 2% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 47A, Drywall Ceiling - Building 1700A, Mechanical

Lab ID-Version‡: 21348385-1

Sample Layers	Asbestos Content
White Joint Compound with Paint	2% Chrysotile
Brown/White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	10% Cellulose < 1% Glass Fibers
Sample Composite Homogeneity:	Moderate

All components not quantified as asbestos content and non-asbestos content are considered to be non-fibrous matrix components. Matrix components may include, but are not limited to, gypsum, paint, silicate minerals, vinyl, binder, calcium carbonate, tar, and foam.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins Built Environment Testing West, LLC
180 Blue Ravine Rd, Folsom, CA 95630
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Client: PMP Environmental Consulting- Contracts Account
C/O: Shannon Johanson
Re: 25-191; Campus Hydronic Line Replacement

Date of Sampling: 10-13-2025
Date of Receipt: 10-13-2025
Date of Report: 10-16-2025

ASBESTOS PLM REPORT

Location: 47B, Drywall Ceiling - Building 1700A, Mechanical

Lab ID-Version‡: 21348386-1

Sample Layers	Asbestos Content
White Compound with Paint	2% Chrysotile
Cream Tape	ND
White Joint Compound	2% Chrysotile
Brown/White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	15% Cellulose < 1% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 48A, Drywall w/ Joint Compound - Building 1800A, 1812 Near Water Heater

Lab ID-Version‡: 21348387-1

Sample Layers	Asbestos Content
White Joint Compound with Paint	ND
Cream Tape	ND
Brown/White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 48B, Drywall w/ Joint Compound - Building 1800A, 1812

Lab ID-Version‡: 21348388-1

Sample Layers	Asbestos Content
White Joint Compound with Paint	ND
Cream Tape	ND
Brown/White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 49A, Drywall - Building 1800B, 1850

Lab ID-Version‡: 21348389-1

Sample Layers	Asbestos Content
Brown/White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	20% Cellulose 2% Glass Fibers
Sample Composite Homogeneity:	Moderate

All components not quantified as asbestos content and non-asbestos content are considered to be non-fibrous matrix components. Matrix components may include, but are not limited to, gypsum, paint, silicate minerals, vinyl, binder, calcium carbonate, tar, and foam.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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Client: PMP Environmental Consulting- Contracts Account
C/O: Shannon Johanson
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Date of Sampling: 10-13-2025
Date of Receipt: 10-13-2025
Date of Report: 10-16-2025

ASBESTOS PLM REPORT

Location: 49B, Drywall w/ Joint Compound - Building 1800B

Lab ID-Version‡: 21348390-1

Sample Layers	Asbestos Content
White Compound with Paint	2% Chrysotile
Cream Tape	ND
White Joint Compound	2% Chrysotile
Brown/White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	15% Cellulose < 1% Glass Fibers
Sample Composite Homogeneity:	Poor

All components not quantified as asbestos content and non-asbestos content are considered to be non-fibrous matrix components. Matrix components may include, but are not limited to, gypsum, paint, silicate minerals, vinyl, binder, calcium carbonate, tar, and foam.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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Date of Sampling: 10-13-2025
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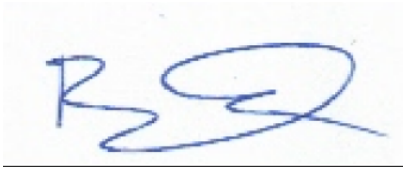
ASBESTOS PLM REPORT

PROJECT ANALYST AND SIGNATORY REPORT

Project Analyst



Analyst: Brittany Quiring

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

PMP Environmental Consulting
5325 Elkhorn Blvd., Sacramento, CA 95642
(916) 628-5124 • PMPEnvConsulting@gmail.com

004266871

Bulk Request Analysis Form-Contracts

Client: Solano College
Job Site: Campus Hydronic Line Replacement
Project ID: 25-191
Project Shannon Johanson
Date Collected: 10/10-13/25
Collected by: Shannon Johanson
Date Submitted: 10/13/25
Laboratory: Eurofins Built

Analysis Requested:

_x___ PLM with Dispersion Staining __ Flame AA

____ TEM (Bulk) ____ Other:

Turnaround Time: ____ Same Day ____ 24 Hour
X Other: 3 Day Standard

Special Instructions:

____ Please fax results to
__x__ Please email results to: pmpenvconsulting@gmail.com
____ Other:

	SAMPLE #	MATERIAL DESCRIPTION/LOCATION	SQUARE FOOTAGE
1	01A	Stucco Building 200, Near Side Entrance	
2	01B	Stucco Building 300, Exterior by Mechanical Room	
3	01C	Stucco Building 400, Exterior at Pipes	
4	01D	Stucco Building 400, Garage 407N at Pipes	
5	01E	Stucco Building 500, Exterior	
6	01F	Stucco Building 600, Exterior	
7	01G	Stucco Building 600, Exterior Near Mechanical Room	
8	01H	Stucco Building 700, Mechanical Room	
9	01I	Stucco Building 800, Exterior Pipes	
10	01J	Stucco Building 900, Near Entrance	

Submitted by: Shannon Johanson Date: 10/13/25

Submitted via: X Dropoff ___ FedEx ___ Courier ___ Other:

Received by: B. Quiring Date: 10/13/25 3PM

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Bulk Request Analysis Form-Contracts

Client: Solano College
Job Site: Campus Hydronic Line Replacement
Project ID: 25-191
Project Shannon Johanson
Date Collected: 10/10-13/25
Collected by: Shannon Johanson
Date Submitted: 10/13/25
Laboratory: Eurofins Built

Analysis Requested:

_x___ PLM with Dispersion Staining __ Flame AA

____ TEM (Bulk) ____ Other:

Turnaround Time: ____ Same Day __x__ 24 Hour

____ Other: _____

Special Instructions:

____ Please fax results to

__x__ Please email results to: pmpenvconsulting@gmail.com

____ Other: _____

	SAMPLE #	MATERIAL DESCRIPTION/LOCATION	SQUARE FOOTAGE
11	01K	Stucco Building 1000, Exterior at Pipes	
12	01L	Stucco Building 1000, at Exterior Panel	
13	01M	Stucco Building 1200, Near 1248	
14	01N	Stucco Building 1200, Near 1248	
15	01O	Stucco Building 1300, Exterior Courtyard	
16	01P	Stucco Building 1300, Exterior Courtyard	
17	01Q	Stucco Building 1800A, Near Side Entrance	
18	01R	Stucco Building 1400, Exterior	
19	01S	Stucco Building 1400, Exterior	
20	01T	Stucco Building 1700A, Mechanical Room	

Submitted by: Shannon Johanson Date: 10/13/25

Submitted via: X Dropoff ___ FedEx ___ Courier ___Other:

Received by: B. Quinn Date: 10/13/25 3PM

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Bulk Request Analysis Form-Contracts

Client: Solano College
Job Site: Campus Hydronic Line Replacement
Project ID: 25-191
Project Date Collected: Shannon Johanson 10/10-13/25
Collected by: Shannon Johanson
Date Submitted: 10/13/25
Laboratory: Eurofins Built

Analysis Requested:
_x___ PLM with Dispersion Staining __ Flame AA
____ TEM (Bulk) ____ Other:
Turnaround Time: ____ Same Day __x__ 24 Hour
____ Other: _____
Special Instructions:
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__x__ Please email results to: pmpenvconsulting@gmail.com
____ Other: _____

	SAMPLE #	MATERIAL DESCRIPTION/LOCATION	SQUARE FOOTAGE
21	01U	Stucco Building 1700A, Mechanical Room	
22	01V	Stucco Building 1700B, Exterior	
23	01W	Stucco Building 1700B, Exterior	
24	01X	Stucco Building 1800B, Near 1850	
25	01Y	Stucco Building 1800B, Near Exterior Pipes	
26	02A	Gray Seam Sealant on Metal Jacketing Building 600, Exterior Lines	
27	02B	Gray Seam Sealant on Metal Jacketing Building 700, Exterior Lines	
28	02C	Gray Seam Sealant on Metal Jacketing Building 800, Exterior Lines	
29	02D	Gray Seam Sealant on Metal Jacketing Building 1200, Near 1248 Exterior Lines	
30	02E	Gray Seam Sealant on Metal Jacketing Building 1300, Exterior Lines	

Submitted by: Shannon Johanson Date: 10/13/25

Submitted via: X Dropoff ___ FedEx ___ Courier ___ Other:

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Bulk Request Analysis Form-Contracts

Client: Solano College
Job Site: Campus Hydronic Line Replacement
Project ID: 25-191
Project Shannon Johanson
Date Collected: 10/10-13/25
Collected by: Shannon Johanson
Date Submitted: 10/13/25
Laboratory: Eurofins Built

Analysis Requested:

_x___ PLM with Dispersion Staining __ Flame AA

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Turnaround Time: ____ Same Day __x__ 24 Hour

____ Other: _____

Special Instructions:

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____ Other: _____

	SAMPLE #	MATERIAL DESCRIPTION/LOCATION	SQUARE FOOTAGE
31	02F	Gray Seam Sealant on Metal Jacketing Building 1400, Exterior Lines	
32	02G	Gray Seam Sealant on Metal Jacketing Building 1700B, Exterior Lines	
33	02H	Gray Seam Sealant on Metal Jacketing Building 1800A, Exterior Lines	
34	03A	Black Foam Wrap on Supply Building 400	
35	03B	Black Foam Wrap Building 600, Mechanical Room	
36	03C	Black Foam Wrap Building 1700A, Mechanical Room	
37	03D	Black Foam Wrap Building 1800A, Mechanical Room	
38	04A	Black Foam Wrap w/White Coating Building 1300, Mechanical Room	
39	04B	Black Foam Wrap w/White Coating Building 1300, Mechanical Room	
40	04C	Black Foam Wrap w/White Coating Building 1800B, Exterior	

Submitted by: Shannon Johanson Date: 10/13/25

Submitted via: X Dropoff ___ FedEx ___ Courier ___ Other:

Received by: B. Quiring Date: 10/13/25 3PM

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Date Collected: 10/10-13/25
Collected by: Shannon Johanson
Date Submitted: 10/13/25
Laboratory: Eurofins Built

Analysis Requested:
_x___ PLM with Dispersion Staining ___ Flame AA
____ TEM (Bulk) ____ Other:
Turnaround Time: ____ Same Day __x__ 24 Hour
____ Other: _____
Special Instructions:
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____ Other: _____

	SAMPLE #	MATERIAL DESCRIPTION/LOCATION	SQUARE FOOTAGE
41	04D	Black Foam Wrap w/White Coating Building 1800B	
42	05A	Silver Foil Tape Building 600, Exterior Lines	
43	05B	Silver Foil Tape Building 800, Exterior Near Mechanical Room	
44	05C	Silver Foil Tape Building 900, Roof Penthouse	
45	05D	Silver Foil Tape Building 1000, Custodial/Boiler	
46	06A	Tan Sealant Building 800, Mechanical Room	
47	06B	Tan Sealant Building 1400, Mechanical on Hot Water Lines	
48	06C	Tan Sealant Building 1400, Mechanical on Hot Water Lines	
49	07A	White Pipe Paint on Fiberglass Wrap Building 200, Mechanical Room	
50	07B	White Pipe Paint on Fiberglass Wrap Building 200 Mechanical Room	

Submitted by: Shannon Johanson Date: 10/13/25

Submitted via: X Dropoff ___ FedEx ___ Courier ___ Other:

Received by: B. Quiring Date: 10/13/25 3PM

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Laboratory: Eurofins Built

Analysis Requested:

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____ TEM (Bulk) ____ Other:

Turnaround Time: ____ Same Day __x__ 24 Hour

____ Other: _____

Special Instructions:

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____ Other: _____

	SAMPLE #	MATERIAL DESCRIPTION/LOCATION	SQUARE FOOTAGE
51	08A	White Tape on Fiberglass Wrap Building 200, Mechanical Room	
52	08B	White Tape on Fiberglass Wrap Building 200, Mechanical Room	
53	09A	White Pipe Paint on Fiberglass Wrap Building 300, 314 on Hot Water Lines	
54	09B	White Pipe Paint on Fiberglass Wrap Building 300, 314 on Hot Water Lines	
55	10A	White Tape on Fiberglass Wrap Building 300, 314 on Cold Water Lines	
56	10B	White Tape on Fiberglass Wrap Building 300, 314 on Cold Water Lines	
57	11A	Black Pipe Coating Building 400, Garage at Cold Water Lines	
58	12A	White Tape on Fiberglass Wrap Building 400, Fire Riser Room	
59	12B	White Tape on Fiberglass Wrap Building 400, Fire Riser Room	
60	13A	White Pipe Paint on Fiberglass Wrap Building 400, Fire Riser Room on Cold Water	

Submitted by: Shannon Johanson Date: 10/13/25

Submitted via: X Dropoff ___ FedEx ___ Courier ___ Other:

Received by: B. Quinn Date: 10/13/25 3pm

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Bulk Request Analysis Form-Contracts

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_x___ PLM with Dispersion Staining __ Flame AA

____ TEM (Bulk) ____ Other:

Turnaround Time: ____ Same Day __x__ 24 Hour

____ Other: _____

Special Instructions:

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____ Other: _____

	SAMPLE #	MATERIAL DESCRIPTION/LOCATION	SQUARE FOOTAGE
61	13B	White Pipe Paint on Fiberglass Wrap Building 400, Fire Riser Room on Cold Water	
62	14A	Black Coating on Fiberglass Wrap Building 600, Exterior Lines	
63	14B	Black Coating on Fiberglass Wrap Building 600, Exterior Lines	
64	15A	White TSI on Hot Water Return Building 800, Mechanical at Flange Gasket	
65	15B	White TSI on Hot Water Return Building 800, Mechanical at Flange Gasket	
66	16A	Tan Pipe Wrap Debris Building 800, Mechanical	
67	17A	White Tape & Pipe Paint on Fiberglass Wrap Building 900, Roof Penthouse	
68	17B	White Tape & Pipe Paint on Fiberglass Wrap Building 900, Roof Penthouse	
69	18A	White tape & Pipe Paint on Fiberglass Wrap Building1200, Mechanical	
70	18B	White Tape & Pipe Paint on Fiberglass Wrap Building 1200 Mechanical	

Submitted by: Shannon Johanson Date: 10/13/25

Submitted via: X Dropoff ___ FedEx ___ Courier ___ Other:

Received by: B. Gunning Date: 10/13/25 3PM

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Laboratory: Eurofins Built

Analysis Requested:

_x___ PLM with Dispersion Staining __ Flame AA

____ TEM (Bulk) ____ Other:

Turnaround Time: ____ Same Day __x__ 24 Hour

____ Other: _____

Special Instructions:

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__x__ Please email results to: pmpenvconsulting@gmail.com

____ Other: _____

	SAMPLE #	MATERIAL DESCRIPTION/LOCATION	SQUARE FOOTAGE
71	19A	White Tape on Fiberglass Wrap Building 1300, Mechanical Room	
72	20A	Canvas Wrap on Styrofoam Insulation Building 1400, Mechanical	
73	21A	White Pipe Paint on Fiberglass Wrap Building 1400, Mechanical	
74	21B	White Pipe Paint on Fiberglass Wrap Building 1400, Mechanical	
75	22A	White Tape on Fiberglass Wrap Building 1500, 1518	
76	22B	White Tape on Fiberglass Wrap Building 1500, 1518 on Hot Water Lines	
77	23A	White Pipe Paint on Fiberglass Wrap Building 1500, 1518 at Hot Water Lines	
78	23B	White Pipe Paint on Fiberglass Wrap Building 1500, 1518 at Hot Water Lines	
79	24A	White Pipe Paint on Foam Wrap (Metal Jacket) Building 1700B, Exterior	
80	24B	White Pipe Paint on Foam Wrap (Metal Jacket) Building 1700B, Exterior	

Submitted by: Shannon Johanson Date: 10/13/25

Submitted via: X Dropoff ___ FedEx ___ Courier ___Other:

Received by: B. Quinn Date: 10/13/25 3pm

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Bulk Request Analysis Form-Contracts

Client: Solano College
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Project ID: 25-191
Project Shannon Johanson
Date Collected: 10/10-13/25
Collected by: Shannon Johanson
Date Submitted: 10/13/25
Laboratory: Eurofins Built

Analysis Requested:

_x___ PLM with Dispersion Staining __ Flame AA

____ TEM (Bulk) ____ Other:

Turnaround Time: ____ Same Day __x__ 24 Hour

____ Other: _____

Special Instructions:

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____ Other: _____

	SAMPLE #	MATERIAL DESCRIPTION/LOCATION	SQUARE FOOTAGE
81	25A	White Tape w/Pipe Paint on Fiberglass Wrap Building 1700A, Mechanical	
82	25B	White Tape w/Pipe Paint on Fiberglass Wrap Building 1700A, Mechanical	
83	26A	Canvas on Fiberglass Insulation Building 1700A, Mechanical Hot Water Lines	
84	26B	Canvas on Fiberglass Insulation Building 1700A, Mechanical Hot Water Lines	
85	27A	White Pipe Paint on Fiberglass Wrap Building 1800A, 1812 Mech	
86	27B	White Pipe Paint on Fiberglass Wrap Building 1800A, 1812 Mech	
87	28A	White Tape on Fiberglass Wrap Building 1800B, 1850	
88	28B	White Tape on Fiberglass Wrap Building 1800B, 1850	
89	29A	Cement Pipe Building 1800A, 1812 at Floor	
90	29B	Cement Pipe Building 1800A, 1812 at Floor	

Submitted by: Shannon Johanson Date: 10/13/25

Submitted via: X Dropoff ___ FedEx ___ Courier ___Other:

Received by: B. Canning Date: 10/13/25 3PM

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Bulk Request Analysis Form-Contracts

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Special Instructions:

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____ Other: _____

	SAMPLE #	MATERIAL DESCRIPTION/LOCATION	SQUARE FOOTAGE
91	30A	White Tape on Fiberglass Wrap Building 1800A, 1812	
92	30B	White Tape on Fiberglass Wrap Building 1800A, 1812	
93	31A	TSI on Hydronic Hot Water Line Building 1800B, 1850	
94	31B	TSI on Hydronic Hot Water Line Building 1800B, 1850	
95	31C	TSI on Hydronic Hot Water Line Building 1800B, 1850	
96	32A	Red Fire Caulking Building 600, Mechanical	
97	32B	Red Fire Caulking Building 1800A, 1812	
98	32C	Red Fire Caulking Building 1800A, 1812 Ceiling	
99	33A	Green Flange Gasket Building 400, Fire Riser Room	
100	34A	White Duct Seam Tape Building 200, Mechanical	

Submitted by: Shannon Johnson Date: 10/13/25

Submitted via: X Dropoff ___ FedEx ___ Courier ___ Other:

Received by: B. Quinney Date: 10.13.25 3pm

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Bulk Request Analysis Form-Contracts

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Job Site: Campus Hydronic Line Replacement
Project ID: 25-191
Project Shannon Johanson
Date Collected: 10/10-13/25
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Laboratory: Eurofins Built

Analysis Requested:

_x___ PLM with Dispersion Staining __ Flame AA

____ TEM (Bulk) ____ Other:

Turnaround Time: ____ Same Day __x__ 24 Hour

____ Other: _____

Special Instructions:

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__x__ Please email results to: pmpenvconsulting@gmail.com

____ Other: _____

	SAMPLE #	MATERIAL DESCRIPTION/LOCATION	SQUARE FOOTAGE
101	34B	White Duct Seam Tape Building 200, Mechanical	
102	35A	Silver Sealant Building 1800B, Exterior Lines	
103	36A	Gray/Black Mastic Building 900, Roof at Pipe	
104	36B	Gray/Black Mastic Building 900, Roof at Pipe	
105	37A	Gray Rolled Roofing Building 900 Roof	
106	37B	Gray Rolled Roofing Building 900 Roof	
107	37C	Gray Rolled Roofing Building 900 Roof	
108	40A	Drywall w/Joint Compound Building 200, Mechanical Room	
109	40B	Drywall w/Joint Compound Building 200, Mechanical Room	
110	41A	Drywall w/Joint Compound Building 400, Fire Riser Room	

Submitted by: Shannon Johanson Date: 10/13/25

Submitted via: X Dropoff ___ FedEx ___ Courier ___ Other:

Received by: B. Quiring Date: 10/13/25
3pm

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_x___ PLM with Dispersion Staining __ Flame AA

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Turnaround Time: ____ Same Day __x__ 24 Hour

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____ Other: _____

	SAMPLE #	MATERIAL DESCRIPTION/LOCATION	SQUARE FOOTAGE
111	41B	Drywall w/Joint Compound Building 400, Fire Riser Room	
112	42A	Drywall w/Joint Compound Building 300, 314	
113	42B	Drywall w/Joint Compound Building 300, 314	
114	43A	Drywall -Smooth (Field) Building 600, Mechanical	
115	43B	Drywall-Smooth w/Joint compound Building 600, Mechanical	
116	44A	Drywall w/Large Knockdown Building 800, Mechanical	
117	44B	Drywall w/Large Knockdown Building 800, Mechanical	
118	45A	Drywall-Smooth Building 1200, Mechanical	
119	45B	Drywall-Smooth Building 1200, Mechanical	
120	46A	Drywall w/Joint Compound Building 1400, mechanical	

Submitted by: Shannon Johnson Date: 10/13/25

Submitted via: X Dropoff ___ FedEx ___ Courier ___ Other:

Received by: B. Quiring Date: 10/13/25 3pm

PMP Environmental Consulting
5325 Elkhorn Blvd., Sacramento, CA 95642
(916) 628-5124 • PMPEnvConsulting@gmail.com

Bulk Request Analysis Form-Contracts

Client: Solano College
Job Site: Campus Hydronic Line Replacement
Project ID: 25-191
Project Shannon Johanson
Date Collected: 10/10-13/25
Collected by: Shannon Johanson
Date Submitted: 10/13/25
Laboratory: Eurofins Built

Analysis Requested:

_x___ PLM with Dispersion Staining __ Flame AA

____ TEM (Bulk) ____ Other:

Turnaround Time: ____ Same Day __x__ 24 Hour
____ Other: _____

Special Instructions:

____ Please fax results to
__x__ Please email results to: pmpenvconsulting@gmail.com
____ Other: _____

	SAMPLE #	MATERIAL DESCRIPTION/LOCATION	SQUARE FOOTAGE
111	46B	Drywall (Field) Building 1400, Mechanical	
112	47A	Drywall Ceiling Building 1700A, Mechanical	
113	47B	Drywall Ceiling Building 1700A, Mechanical	
114	48A	Drywall w/Joint Compound Building 1800A, 1812 Near Water Heater	
115	48B	Drywall w/Joint Compound Building 1800A, 1812	
116	49A	Drywall Building 1800B, 1850	
117	49B	Drywall w/Joint Compound Building 1800B	

Submitted by: Shannon Johnson Date: 10/13/25

Submitted via: X Dropoff ___ FedEx ___ Courier ___ Other:

Received by: B. Quinn Date: 10/13/25 2PM

eurofins | Built Environment Testing

Report for:

Shannon Johanson
PMP Environmental Consulting- Contracts Account
5325 Elkhorn Blvd #360
Sacramento, CA 95842

Regarding: Eurofins Built Environment Testing West, LLC
Project: 25-191; Solano Community College, Mechanical Rooms
EML ID: 4272250

Approved by:

Approved Signatory
James Schatz

Dates of Analysis:
Asbestos PLM: 10-17-2025

Service SOPs: Asbestos PLM (EPA 40CFR App E to Sub E of Part 763 & EPA METHOD 600/R-93-116, SOP EB-AS-S-1267)
NVLAP Lab Code 600255-0

Eurofins Built Environment Testing West, LLC
180 Blue Ravine Rd, Folsom, CA 95630
(833) 465-5857 www.eurofinsus.com/Built

Client: PMP Environmental Consulting- Contracts Account
C/O: Shannon Johanson
Re: 25-191; Solano Community College, Mechanical Rooms

Date of Sampling: 10-16-2025
Date of Receipt: 10-16-2025
Date of Report: 10-17-2025

ASBESTOS PLM REPORT

Total Samples Submitted:	16
Total Samples Analyzed:	16
Total Samples with Layer Asbestos Content > 1%:	2

Location: 50A, White TPO Roofing Building 700, Roof, Northeast Corner Lab ID-Version‡: 21375713-1

Sample Layers	Asbestos Content
Black/White Roofing Material	ND
Yellow Adhesive	ND
Beige Insulation	ND
Composite Non-Asbestos Content:	15% Cellulose 3% Synthetic Fibers
Sample Composite Homogeneity:	Moderate

Location: 50B, White TPO Roofing Building 700, Roof, West side Lab ID-Version‡: 21375714-1

Sample Layers	Asbestos Content
Black/White Roofing Material	ND
Yellow Adhesive	ND
Beige Insulation	ND
Composite Non-Asbestos Content:	15% Cellulose 3% Synthetic Fibers
Sample Composite Homogeneity:	Moderate

Location: 51A, White TPO Roofing Building 800, Roof, Near Penthouse Lab ID-Version‡: 21375715-1

Sample Layers	Asbestos Content
Black/White Roofing Material	ND
Yellow Adhesive	ND
Beige Insulation	ND
Composite Non-Asbestos Content:	15% Cellulose 3% Synthetic Fibers
Sample Composite Homogeneity:	Moderate

All components not quantified as asbestos content and non-asbestos content are considered to be non-fibrous matrix components. Matrix components may include, but are not limited to, gypsum, paint, silicate minerals, vinyl, binder, calcium carbonate, tar, and foam.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins Built Environment Testing West, LLC
180 Blue Ravine Rd, Folsom, CA 95630
(833) 465-5857 www.eurofinsus.com/Built

Client: PMP Environmental Consulting- Contracts Account
C/O: Shannon Johanson
Re: 25-191; Solano Community College, Mechanical Rooms

Date of Sampling: 10-16-2025
Date of Receipt: 10-16-2025
Date of Report: 10-17-2025

ASBESTOS PLM REPORT

Location: 51B, White TPO Roofing Building 800, Roof, East Side Lab ID-Version‡: 21375716-1

Sample Layers	Asbestos Content
Black/White Roofing Material	ND
Beige Insulation	ND
Composite Non-Asbestos Content:	15% Cellulose 5% Synthetic Fibers
Sample Composite Homogeneity:	Moderate

Location: 52A, White TPO Roofing Building 700, Roof, East Side Lab ID-Version‡: 21375717-1

Sample Layers	Asbestos Content
Black/White Roofing Material	ND
White Drywall	ND
Composite Non-Asbestos Content:	10% Glass Fibers 5% Synthetic Fibers
Sample Composite Homogeneity:	Good

Location: 52B, White TPO Roofing Building 700, Roof, Southwest Near Support Lab ID-Version‡: 21375718-1

Sample Layers	Asbestos Content
Black/White Roofing Material	ND
White Drywall	ND
Composite Non-Asbestos Content:	10% Glass Fibers 5% Synthetic Fibers
Sample Composite Homogeneity:	Good

Location: 53A, White Sealant at Pipe, Building 700, East Side South End Lab ID-Version‡: 21375719-1

Sample Layers	Asbestos Content
White Sealant	ND
Gray Sealant	ND
Sample Composite Homogeneity:	Moderate

All components not quantified as asbestos content and non-asbestos content are considered to be non-fibrous matrix components. Matrix components may include, but are not limited to, gypsum, paint, silicate minerals, vinyl, binder, calcium carbonate, tar, and foam.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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Eurofins Built Environment Testing West, LLC
180 Blue Ravine Rd, Folsom, CA 95630
(833) 465-5857 www.eurofinsus.com/Built

Client: PMP Environmental Consulting- Contracts Account
C/O: Shannon Johanson
Re: 25-191; Solano Community College, Mechanical Rooms

Date of Sampling: 10-16-2025
Date of Receipt: 10-16-2025
Date of Report: 10-17-2025

ASBESTOS PLM REPORT

Location: 53B, White Sealant at at Metal Support Post Building 700, West Side Lab ID-Version‡: 21375720-1

Sample Layers	Asbestos Content
White Sealant	ND
Sample Composite Homogeneity:	Good

Location: 53C, White Sealant at Roof Jack Building 800, North End Lab ID-Version‡: 21375721-1

Sample Layers	Asbestos Content
White Sealant	ND
Sample Composite Homogeneity:	Good

Location: 53D, White Sealant at Roof Jack Building 800, East Side Lab ID-Version‡: 21375722-1

Sample Layers	Asbestos Content
White Sealant	ND
Black Mastic	5% Chrysotile
Sample Composite Homogeneity:	Moderate

Location: 53E, White Sealant at Roof Jack Building 1500 Roof, East Side of Hatch Lab ID-Version‡: 21375939-1

Sample Layers	Asbestos Content
White Sealant	ND
Sample Composite Homogeneity:	Good

Location: 54A, White Coating on Exhaust Unit Building 700, Roof, South End East Side

Lab ID-Version‡: 21375940-1

Sample Layers	Asbestos Content
White Coating	ND
Sample Composite Homogeneity:	Good

All components not quantified as asbestos content and non-asbestos content are considered to be non-fibrous matrix components. Matrix components may include, but are not limited to, gypsum, paint, silicate minerals, vinyl, binder, calcium carbonate, tar, and foam.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins Built Environment Testing West, LLC
180 Blue Ravine Rd, Folsom, CA 95630
(833) 465-5857 www.eurofinsus.com/Built

Client: PMP Environmental Consulting- Contracts Account
C/O: Shannon Johanson
Re: 25-191; Solano Community College, Mechanical Rooms

Date of Sampling: 10-16-2025
Date of Receipt: 10-16-2025
Date of Report: 10-17-2025

ASBESTOS PLM REPORT

Location: 54B, White Coating on Exhaust Unit Building 700, Roof, West Side Lab ID-Version‡: 21375941-1

Sample Layers	Asbestos Content
White Coating	ND
Sample Composite Homogeneity:	Good

Location: 54C, White Coating w/ Gray Sealant on Exhaust Unit Building 1500, Roof, North Side Lab ID-Version‡: 21375942-1

Sample Layers	Asbestos Content
White Coating	ND
Black Mastic	< 1% Chrysotile
Silver Sealant	2% Chrysotile
Sample Composite Homogeneity:	Good

Location: 54D, White Coating W/Black on Exhaust Unit Builing 1500, Roof, South End

Lab ID-Version‡: 21375943-1

Sample Layers	Asbestos Content
White Coating	ND
Black Mastic	< 1% Chrysotile
Sample Composite Homogeneity:	Good

Location: 55A, Gray Sealant, Building 700, Roof at Electrical Conduit Lab ID-Version‡: 21375944-1

Sample Layers	Asbestos Content
Gray Sealant	ND
Sample Composite Homogeneity:	Good

All components not quantified as asbestos content and non-asbestos content are considered to be non-fibrous matrix components. Matrix components may include, but are not limited to, gypsum, paint, silicate minerals, vinyl, binder, calcium carbonate, tar, and foam.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins Built Environment Testing West, LLC
180 Blue Ravine Rd, Folsom, CA 95630
(833) 465-5857 www.eurofinsus.com/Built

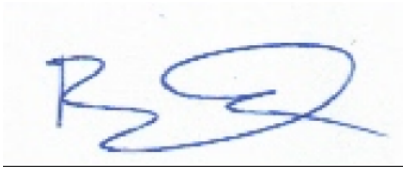
Client: PMP Environmental Consulting- Contracts Account
C/O: Shannon Johanson
Re: 25-191; Solano Community College, Mechanical Rooms

Date of Sampling: 10-16-2025
Date of Receipt: 10-16-2025
Date of Report: 10-17-2025

ASBESTOS PLM REPORT

PROJECT ANALYST AND SIGNATORY REPORT

Project Analyst



Analyst: Brittany Quiring

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

PMP Environmental Consulting
5325 Elkhorn Blvd., Sacramento, CA 95642
(916) 628-5124 • PMPEnvConsulting@gmail.com

004272250

Bulk Request Analysis Form-contracts

Client: Solano Community College
Job Site: Mechanical Rooms
Project ID: 25-191
Project Shannon Johanson
Date Collected: 10/16/25
Collected by: Shannon Johanson
Date Submitted: 10/16/25
Laboratory: Eurofins

Analysis Requested:
_x___ PLM with Dispersion Staining __ Flame AA
____ TEM (Bulk) ____ Other:
Turnaround Time: ____ Same Day __x__ 24 Hour
____ Other: _____
Special Instructions:
____ Please fax results to
__x__ Please email results to: pmpenvconsulting@gmail.com
____ Other: _____

	SAMPLE #	MATERIAL DESCRIPTION/LOCATION	SQUARE FOOTAGE
1	50A	White TPO Roofing Building 700, Roof, Northeast Corner	
2	50B	White TPO Roofing Building 700, Roof, West Side	
3	51A	White TPO Roofing Building 800, Roof, Near Penthouse	
4	51B	White TPO Roofing Building 800, Roof, East Side	
5	52A	White TPO Roofing Building 700, Roof, East Side	
6	52B	White TPO Roofing Building 700, Roof, Southwest Near Support	
7	53A	White Sealant at Pipe Building 700, East Side South End	
8	53B	White Sealant at Metal Support Post Building 700, West Side	
9	53C	White Sealant at Roof Jack Building 800, North End	
10	53D	White Sealant at Roof Jack Building 800, East Side	

Submitted by: Shannon Johanson Date: 10/16/25
Submitted via: X Dropoff ___ FedEx ___ Courier ___ Other:
Received by: Date: 10/16/25 3:28 PM

PMP Environmental Consulting
5325 Elkhorn Blvd., Sacramento, CA 95842
(916) 628-5124 • PMPEnvConsulting@gmail.com

004272250

Bulk Request Analysis Form-contracts

Client: Solano Community College
Job Site: Mechanical Rooms
Project ID: 25-191
Project Shannon Johanson
Date Collected: 10/16/25
Collected by: Shannon Johanson
Date Submitted: 10/16/25
Laboratory: Eurofins

Analysis Requested:

_x___ PLM with Dispersion Staining ___ Flame AA

____ TEM (Bulk) ____ Other:

Turnaround Time: ____ Same Day __x__ 24 Hour

____ Other:

Special Instructions:

____ Please fax results to

__x__ Please email results to: pmpenvconsulting@gmail.com

____ Other:

	SAMPLE #	MATERIAL DESCRIPTION/LOCATION	SQUARE FOOTAGE
11	53E	White Sealant at Roof Jack Building 1500 Roof, East Side of Hatch	
12	54A	White Coating on Exhaust Unit Building 700, Roof, South End East Side	
13	54B	White Coating on Exhaust Unit Building 700, Roof, West Side	
14	54C	White Coating w/Gray Sealant on Exhaust Unit Building 1500, Roof, North Side	
15	54D	White Coating W/Black on Exhaust Unit Building 1500, Roof, South End	
16	55A	Gray Sealant Building 700, Roof at Electrical Conduit	

Submitted by: Shannon Johanson Date: 10/16/25

Submitted via: X Dropoff ___FedEx ___Courier ___Other:

Received by: Date: 10/16/25
3:28 PM

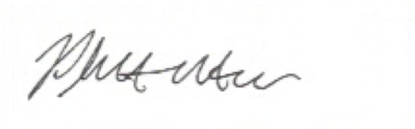
eurofins | Built Environment Testing

Report for:

Shannon Johanson
PMP Environmental Consulting- Contracts Account
5325 Elkhorn Blvd #360
Sacramento, CA 95842

Regarding: Eurofins Built Environment Testing West, LLC
Project: 25-191; Hydronic Line Replacement
EML ID: 4268031

Approved by:



Approved Signatory
Philip Newton

Dates of Analysis:
Lead - Flame AA: 10-15-2025

Service SOPs: Lead - Flame AA (EB-BC-S-8443)
AIHA LAP, LLC accredited service, Lab ID #178697

Eurofins Built Environment Testing West, LLC
2841 Dow Avenue, Suite 300, Tustin, CA 92780
(833) 465-5857 www.eurofinsus.com/Built

Client: PMP Environmental Consulting- Contracts Account
C/O: Shannon Johanson
Re: 25-191; Hydronic Line Replacement

Date of Sampling: 10-13-2025
Date of Receipt: 10-14-2025
Date of Report: 10-15-2025

LEAD: FLAME ATOMIC ABSORPTION SPECTROMETRY

Location:	01Pb: White Paint on Drywall Building 300, Mechanical Room	02Pb: Gray Paint on Stucco Building 400, Room 407N	03Pb: White Paint on Drywall Building 600, Mechanical Walls	04Pb: Light Brown Paint on Drywall Building 800, Mechanical
Comments (see below)	None	None	None	None
Lab ID-Version‡:	21357914-1	21357915-1	21357916-1	21357917-1
Analysis Date:	10/15/2025	10/15/2025	10/15/2025	10/15/2025
Sample type	Paint Chip sample	Paint Chip sample	Paint Chip sample	Paint Chip sample
Method*	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified
† Method Reporting Limit	39 ppm	39 ppm	40 ppm	39 ppm
Sample size	0.2570 grams	0.2583 grams	0.2505 grams	0.2565 grams
§Total Lead Result	140 ppm	55 ppm	120 ppm	52 ppm

Comments:

Sample results have not been corrected for blank values.

Bulk samples are not covered under the AIHA LAP, LLC service accreditation.

Wipe samples must meet ASTM E1792 criteria. Method Reporting Limits may not be valid for non-ASTM E1792 wipe samples.

Estimated accuracy is solely based on recovery data from internal laboratory control samples at the 95% confidence interval (k ~ 2) of the level of concern, derived from a 1,000-ppm certified lead reference.

*Sample preparation and analytical methods are based upon NIOSH 7082 and EPA 7000B.

† The Method Reporting Limit is the minimum concentration of Lead that the laboratory can confidently detect in the sample.

§ Total Lead Result has been rounded to two significant figures to reflect analytical precision.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins Built Environment Testing West, LLC
2841 Dow Avenue, Suite 300, Tustin, CA 92780
(833) 465-5857 www.eurofinsus.com/Built

Client: PMP Environmental Consulting- Contracts Account
C/O: Shannon Johanson
Re: 25-191; Hydronic Line Replacement

Date of Sampling: 10-13-2025
Date of Receipt: 10-14-2025
Date of Report: 10-15-2025

LEAD: FLAME ATOMIC ABSORPTION SPECTROMETRY

Location:	05Pb: Beige Paint on Drywall Building 1200, Mechanical Room	06Pb: White Paint on Drywall Building 1300, Ceramics Classroom	07Pb: White Paint on Stucco, Building 1300 Exerior	08Pb: Green Paint on Pipewarp Building 1400, Mechanical
Comments (see below)	None	None	None	None
Lab ID-Version‡:	21357918-1	21357919-1	21357920-1	21357921-1
Analysis Date:	10/15/2025	10/15/2025	10/15/2025	10/15/2025
Sample type	Paint Chip sample	Paint Chip sample	Paint Chip sample	Paint Chip sample
Method*	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified
† Method Reporting Limit	58 ppm	39 ppm	39 ppm	48 ppm
Sample size	0.1714 grams	0.2561 grams	0.2561 grams	0.2070 grams
§Total Lead Result	< 58 ppm	< 39 ppm	< 39 ppm	400 ppm

Comments:

Sample results have not been corrected for blank values.

Bulk samples are not covered under the AIHA LAP, LLC service accreditation.

Wipe samples must meet ASTM E1792 criteria. Method Reporting Limits may not be valid for non-ASTM E1792 wipe samples.

Estimated accuracy is solely based on recovery data from internal laboratory control samples at the 95% confidence interval (k ~ 2) of the level of concern, derived from a 1,000-ppm certified lead reference.

*Sample preparation and analytical methods are based upon NIOSH 7082 and EPA 7000B.

† The Method Reporting Limit is the minimum concentration of Lead that the laboratory can confidently detect in the sample.

§ Total Lead Result has been rounded to two significant figures to reflect analytical precision.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins Built Environment Testing West, LLC
2841 Dow Avenue, Suite 300, Tustin, CA 92780
(833) 465-5857 www.eurofinsus.com/Built

Client: PMP Environmental Consulting- Contracts Account
C/O: Shannon Johanson
Re: 25-191; Hydronic Line Replacement

Date of Sampling: 10-13-2025
Date of Receipt: 10-14-2025
Date of Report: 10-15-2025

LEAD: FLAME ATOMIC ABSORPTION SPECTROMETRY

Location:	09Pb: White Paint on Drywall Building 1400, Mechanical	10Pb: White Paint on Stucco Building 1400, Exterior	11Pb: White Paint on Drywall Building 1500, Room 1518 Mechanical Room	12Pb: Light Brown Paint on Drywall Building 1700A, Mechanical
Comments (see below)	None	None	None	None
Lab ID-Version‡:	21357922-1	21357923-1	21357924-1	21357925-1
Analysis Date:	10/15/2025	10/15/2025	10/15/2025	10/15/2025
Sample type	Paint Chip sample	Paint Chip sample	Paint Chip sample	Paint Chip sample
Method*	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified
† Method Reporting Limit	45 ppm	40 ppm	66 ppm	39 ppm
Sample size	0.2240 grams	0.2500 grams	0.1517 grams	0.2597 grams
§Total Lead Result	560 ppm	< 40 ppm	79 ppm	150 ppm

Comments:

Sample results have not been corrected for blank values.

Bulk samples are not covered under the AIHA LAP, LLC service accreditation.

Wipe samples must meet ASTM E1792 criteria. Method Reporting Limits may not be valid for non-ASTM E1792 wipe samples.

Estimated accuracy is solely based on recovery data from internal laboratory control samples at the 95% confidence interval (k ~ 2) of the level of concern, derived from a 1,000-ppm certified lead reference.

*Sample preparation and analytical methods are based upon NIOSH 7082 and EPA 7000B.

† The Method Reporting Limit is the minimum concentration of Lead that the laboratory can confidently detect in the sample.

§ Total Lead Result has been rounded to two significant figures to reflect analytical precision.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins Built Environment Testing West, LLC
2841 Dow Avenue, Suite 300, Tustin, CA 92780
(833) 465-5857 www.eurofinsus.com/Built

Client: PMP Environmental Consulting- Contracts Account
C/O: Shannon Johanson
Re: 25-191; Hydronic Line Replacement

Date of Sampling: 10-13-2025
Date of Receipt: 10-14-2025
Date of Report: 10-15-2025

LEAD: FLAME ATOMIC ABSORPTION SPECTROMETRY

Location:	13Pb: White Paint on Stucco 1700B, Exterior	14Pb: White Paint on Drywall Building 1800A, 1812	15Pb: Light Gray Paint on Drywall Building 1800B
Comments (see below)	None	None	None
Lab ID-Version‡:	21357926-1	21357927-1	21357928-1
Analysis Date:	10/15/2025	10/15/2025	10/15/2025
Sample type	Paint Chip sample	Paint Chip sample	Paint Chip sample
Method*	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified
† Method Reporting Limit	39 ppm	60 ppm	46 ppm
Sample size	0.2567 grams	0.1660 grams	0.2187 grams
§Total Lead Result	50 ppm	< 60 ppm	1900 ppm

Comments:

Sample results have not been corrected for blank values.

Bulk samples are not covered under the AIHA LAP, LLC service accreditation.

Wipe samples must meet ASTM E1792 criteria. Method Reporting Limits may not be valid for non-ASTM E1792 wipe samples.

Estimated accuracy is solely based on recovery data from internal laboratory control samples at the 95% confidence interval (k ~ 2) of the level of concern, derived from a 1,000-ppm certified lead reference.

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† The Method Reporting Limit is the minimum concentration of Lead that the laboratory can confidently detect in the sample.

§ Total Lead Result has been rounded to two significant figures to reflect analytical precision.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins Built Environment Testing West, LLC
2841 Dow Avenue, Suite 300, Tustin, CA 92780
(833) 465-5857 www.eurofinsus.com/Built

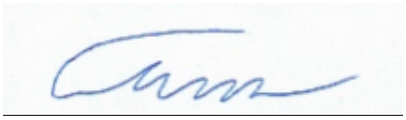
Client: PMP Environmental Consulting- Contracts Account
C/O: Shannon Johanson
Re: 25-191; Hydronic Line Replacement

Date of Sampling: 10-13-2025
Date of Receipt: 10-14-2025
Date of Report: 10-15-2025

LEAD: FLAME ATOMIC ABSORPTION SPECTROMETRY

PROJECT ANALYST AND SIGNATORY REPORT

Project Analyst



Analyst: Alex Nguyen

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

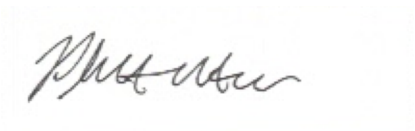
eurofins | Built Environment Testing

Report for:

Shannon Johanson
PMP Environmental Consulting
5325 Elkhorn Blvd #360
Sacramento, CA 95842

Regarding: Eurofins Built Environment Testing West, LLC
Project: 25-191; Hydronic Line Replacement
EML ID: 4273539

Approved by:



Approved Signatory
Philip Newton

Dates of Analysis:
Lead - Flame AA: 10-20-2025

Service SOPs: Lead - Flame AA (EB-BC-S-8443)
AIHA LAP, LLC accredited service, Lab ID #178697

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the samples as received and tested. Sample size, as it relates to Wipe samples only, is supplied by the client.

Eurofins Built Environment Testing West, LLC ("the Company"), a member of the Eurofins Built Environment Testing group of companies, shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.
Eurofins Built Environment Testing West, LLC's LabServe® reporting system includes automated fail-safes to ensure that all AIHA LAP, LLC quality requirements are met and notifications are added to reports when any quality steps remain pending.

Eurofins Built Environment Testing West, LLC
2841 Dow Avenue, Suite 300, Tustin, CA 92780
(833) 465-5857 www.eurofinsus.com/Built

Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 25-191; Hydronic Line Replacement

Date of Sampling: 10-10-2025
Date of Receipt: 10-17-2025
Date of Report: 10-20-2025

LEAD: FLAME ATOMIC ABSORPTION SPECTROMETRY

Location:	16Pb: White Coating on Exhaust Unit Building 700, Roof, South Side at East End	17Pb: Black Paint on Support Posts Building 1500, Roof Wind Screen Supports
Comments (see below)	None	None
Lab ID-Version‡:	21383726-1	21383727-1
Analysis Date:	10/20/2025	10/20/2025
Sample type	Paint Chip sample	Paint Chip sample
Method*	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified
† Method Reporting Limit	40 ppm	100 ppm
Sample size	0.2503 grams	0.0954 grams
§Total Lead Result	44 ppm	710 ppm

Comments:

Sample results have not been corrected for blank values.

Bulk samples are not covered under the AIHA LAP, LLC service accreditation.

Wipe samples must meet ASTM E1792 criteria. Method Reporting Limits may not be valid for non-ASTM E1792 wipe samples.

Estimated accuracy is solely based on recovery data from internal laboratory control samples at the 95% confidence interval (k ~ 2) of the level of concern, derived from a 1,000-ppm certified lead reference.

*Sample preparation and analytical methods are based upon NIOSH 7082 and EPA 7000B.

† The Method Reporting Limit is the minimum concentration of Lead that the laboratory can confidently detect in the sample.

§ Total Lead Result has been rounded to two significant figures to reflect analytical precision.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins Built Environment Testing West, LLC
2841 Dow Avenue, Suite 300, Tustin, CA 92780
(833) 465-5857 www.eurofinsus.com/Built

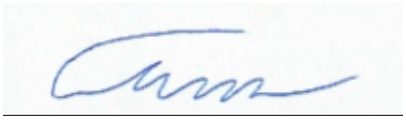
Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 25-191; Hydronic Line Replacement

Date of Sampling: 10-10-2025
Date of Receipt: 10-17-2025
Date of Report: 10-20-2025

LEAD: FLAME ATOMIC ABSORPTION SPECTROMETRY

PROJECT ANALYST AND SIGNATORY REPORT

Project Analyst



Analyst: Alex Nguyen

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

PMP Environmental Consulting
5325 Elkhorn Blvd., Sacramento, CA 95642
(916) 628-5124 • PMPEnvConsulting@gmail.com

004273539

Bulk Request Analysis Form

Client: Solano College
Job Site: Hydronic Line Replacement
Project ID: 25-191
Project Shannon Johanson
Date Collected: 10/10-13/25
Collected by: Shannon Johanson
Date Submitted: 10/13/25
Laboratory: Eurofins Built

Analysis Requested:
____ PLM with Dispersion Staining _x_ Flame AA
____ TEM (Bulk) ____ Other:
Turnaround Time: ____ Same Day __x__ 24 Hour
____ Other: _____
Special Instructions:
____ Please fax results to
__x__ Please email results to: pmpenvconsulting@gmail.com
____ Other: _____

	SAMPLE #	MATERIAL DESCRIPTION/LOCATION	CONDITION
1	16Pb	White Coating on Exhaust Unit Building 700, Roof, South Side at East End	Fair
2	17Pb	Black Paint on Support Posts Building 1500, Roof, Wind Screen Supports	Fair-Intact

Submitted by: Shannon Johanson Date: 10/16/25
Submitted via: ___ Dropoff X FedEx ___ Courier ___Other:
Received by: [illegible] Date: 10/17/25 9:00

PMP

Historical Sampling Data

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November 11, 2019

PMP Environmental Consulting
5325 Elkhorn Blvd #360
Sacramento, CA 95842

CLIENT PROJECT: Solano College-Bldg. 300, 19-1021
CEI LAB CODE: 6A190271

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on November 11, 2019. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP® TESTING
NVLAP LAB CODE 101768-0

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ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

PMP Environmental Consulting

CLIENT PROJECT: Solano College-Bldg. 300, 19-1021

LAB CODE: 6A190271

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 11/11/19

TOTAL SAMPLES ANALYZED: 46

SAMPLES >1% ASBESTOS: 3

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Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Solano College-Bldg. 300, 19-1021 **LAB CODE:** 6A190271

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
1021-01A		F193882	Tan	Stucco	None Detected
1021-01B		F193883	Tan	Stucco	None Detected
1021-01C		F193884	Tan	Stucco	None Detected
1021-01D		F193885	Tan	Stucco	None Detected
1021-01E		F193886	Tan	Stucco	None Detected
1021-01F		F193887	Tan	Stucco	None Detected
1021-01G		F193888	Tan	Stucco	None Detected
1021-02A	Layer 1	F193889	White	Orange Peel Texture	None Detected
	Layer 2	F193889	Off-white	Drywall/Joint Compound	Chrysotile <1%
1021-02B		F193890	White	Orange Peel Texture	None Detected
1021-02C		F193891	White	Orange Peel Texture	None Detected
1021-02D	Layer 1	F193892	White	Orange Peel Texture	None Detected
	Layer 2	F193892	Off-white	Drywall/Joint Compound	Chrysotile <1%
1021-02E	Layer 1	F193893	White	Orange Peel Texture	None Detected
	Layer 2	F193893	Off-white	Drywall/Joint Compound	Chrysotile <1%
1021-03A	Layer 1	F193894	White	Surface Material	None Detected
	Layer 2	F193894	Off-white	Drywall/Joint Compound	Chrysotile <1%
1021-04A		F193895	Off-white	Drywall/Joint Compound	Chrysotile <1%
1021-04B		F193896	Off-white	Drywall/Joint Compound	Chrysotile <1%
1021-04C		F193897	Off-white	Drywall/Joint Compound	Chrysotile <1%
1021-05A		F193898	Gray	Plaster	Chrysotile <1%
1021-05B		F193899	Gray	Plaster	Chrysotile <1%
1021-05C		F193900	Gray	Plaster	Chrysotile <1%
1021-06A		F193901	Beige	Duct Seam Tape	None Detected
1021-06B		F193902	Beige	Duct Seam Tape	None Detected
1021-06C	Layer 1	F193903	Beige	Duct Seam Tape	Chrysotile 3%
	Layer 2	F193903	Beige	Duct Seam Tape	None Detected
1021-07A		F193904	Beige	Floor Tile	None Detected
1021-07A.1		F193905	Yellow	Mastic	None Detected
1021-07B		F193906	Beige	Floor Tile	None Detected
1021-07B.1		F193907	Yellow	Mastic	None Detected

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Solano College-Bldg. 300, 19-1021 **LAB CODE:** 6A190271

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
1021-07C		F193908	Beige	Floor Tile	None Detected
1021-07C.1		F193909	Yellow	Mastic	None Detected
1021-08A		F193910	Blue	Floor Tile	None Detected
1021-08A.1		F193911	Yellow	Mastic	None Detected
1021-09A		F193912	Tan	Covebase Mastic	None Detected
1021-09B		F193913	Brown	Covebase Mastic	None Detected
1021-09C		F193914	Tan	Covebase Mastic	None Detected
1021-10A		F193915	Blue	Floor Tile	None Detected
1021-10A.1		F193916	Black	Mastic	Chrysotile 5%
1021-11A		F193917	White	Ceiling Tile	None Detected
1021-11B		F193918	White	Ceiling Tile	None Detected
1021-12A		F193919	Black	Counter Tops	None Detected
1021-13A		F193920	Gray	Window Sealant	None Detected
1021-14A		F193921	Gray	Transite	Chrysotile 15%
1021-15A		F193922	Tan	Grout	None Detected
1021-16A		F193923	Gray	Seam Sealant	Chrysotile <1%
1021-17A		F193924	Off-white	Frp Mastic	None Detected
1021-18A		F193925	Tan	Grout	None Detected
1021-19A		F193926	Black	Counter Tops	None Detected
1021-20A		F193927	White	Ceiling Tile	None Detected

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ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: PMP Environmental Consulting
5325 Elkhorn Blvd #360
Sacramento, CA 95842

Lab Code: 6A190271
Date Received: 11-11-19
Date Analyzed: 11-11-19
Date Reported: 11-11-19

Project: Solano College-Bldg. 300, 19-1021

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous		ASBESTOS %
1021-01A F193882	Stucco	Homogeneous Tan Non-fibrous Bound		40% 60%	Binder Silicates	None Detected
1021-01B F193883	Stucco	Homogeneous Tan Non-fibrous Bound		40% 60%	Binder Silicates	None Detected
1021-01C F193884	Stucco	Homogeneous Tan Non-fibrous Bound		40% 60%	Binder Silicates	None Detected
1021-01D F193885	Stucco	Homogeneous Tan Non-fibrous Bound		40% 60%	Binder Silicates	None Detected
1021-01E F193886	Stucco	Homogeneous Tan Non-fibrous Bound		40% 60%	Binder Silicates	None Detected
1021-01F F193887	Stucco	Homogeneous Tan Non-fibrous Bound		40% 60%	Binder Silicates	None Detected
1021-01G F193888	Stucco	Homogeneous Tan Non-fibrous Bound		40% 60%	Binder Silicates	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: PMP Environmental Consulting
5325 Elkhorn Blvd #360
Sacramento, CA 95842

Lab Code: 6A190271
Date Received: 11-11-19
Date Analyzed: 11-11-19
Date Reported: 11-11-19

Project: Solano College-Bldg. 300, 19-1021

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
1021-02A	Orange Peel Texture	Heterogeneous			10%	Paint	None Detected
Layer 1		White			35%	Calc Carb	
F193889		Non-fibrous			55%	Binder	
		Bound					
Layer 2	Drywall/Joint Compound	Heterogeneous	15%	Cellulose	5%	Calc Carb	<1% Chrysotile
F193889		Off-white			80%	Gypsum	
		Fibrous					
		Loosely Bound					
Lab Notes: 2% Chrysotile in Joint Compound, <1% Composite							
1021-02B	Orange Peel Texture	Heterogeneous			10%	Paint	None Detected
F193890		White			35%	Calc Carb	
		Non-fibrous			55%	Binder	
		Bound					
Lab Notes: No Sheetrock Present							
1021-02C	Orange Peel Texture	Heterogeneous			10%	Paint	None Detected
F193891		White			35%	Calc Carb	
		Non-fibrous			55%	Binder	
		Bound					
Lab Notes: No Sheetrock Present							
1021-02D	Orange Peel Texture	Heterogeneous			10%	Paint	None Detected
Layer 1		White			35%	Calc Carb	
F193892		Non-fibrous			55%	Binder	
		Bound					
Layer 2	Drywall/Joint Compound	Heterogeneous	15%	Cellulose	5%	Calc Carb	<1% Chrysotile
F193892		Off-white			80%	Gypsum	
		Fibrous					
		Loosely Bound					
Lab Notes: 2% Chrysotile in Joint Compound, <1% Composite							

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: PMP Environmental Consulting
5325 Elkhorn Blvd #360
Sacramento, CA 95842

Lab Code: 6A190271
Date Received: 11-11-19
Date Analyzed: 11-11-19
Date Reported: 11-11-19

Project: Solano College-Bldg. 300, 19-1021

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
1021-02E	Orange Peel Texture	Heterogeneous			10%	Paint	None Detected
Layer 1		White			35%	Calc Carb	
F193893		Non-fibrous			55%	Binder	
		Bound					
Layer 2	Drywall/Joint Compound	Heterogeneous	15%	Cellulose	5%	Calc Carb	<1% Chrysotile
F193893		Off-white			80%	Gypsum	
		Fibrous					
		Loosely Bound					
Lab Notes: 2% Chrysotile in Joint Compound, <1% Composite							
1021-03A	Surface Material	Heterogeneous	40%	Cellulose	60%	Binder	None Detected
Layer 1		White					
F193894		Fibrous					
		Bound					
Layer 2	Drywall/Joint Compound	Heterogeneous	15%	Cellulose	5%	Calc Carb	<1% Chrysotile
F193894		Off-white			80%	Gypsum	
		Fibrous					
		Loosely Bound					
Lab Notes: 2% Chrysotile in Joint Compound, <1% Composite							
1021-04A	Drywall/Joint Compound	Heterogeneous	15%	Cellulose	5%	Calc Carb	<1% Chrysotile
F193895		Off-white			80%	Gypsum	
		Fibrous					
		Loosely Bound					
Lab Notes: 2% Chrysotile in Joint Compound, <1% Composite							
1021-04B	Drywall/Joint Compound	Heterogeneous	15%	Cellulose	5%	Calc Carb	<1% Chrysotile
F193896		Off-white			80%	Gypsum	
		Fibrous					
		Loosely Bound					
Lab Notes: 2% Chrysotile in Joint Compound, <1% Composite							

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: PMP Environmental Consulting
5325 Elkhorn Blvd #360
Sacramento, CA 95842

Lab Code: 6A190271
Date Received: 11-11-19
Date Analyzed: 11-11-19
Date Reported: 11-11-19

Project: Solano College-Bldg. 300, 19-1021

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
1021-04C F193897	Drywall/Joint Compound	Heterogeneous Off-white Fibrous Loosely Bound	15%	Cellulose	5% 80%	Calc Carb Gypsum	<1% Chrysotile
Lab Notes: 2% Chrysotile in Joint Compound, <1% Composite							
1021-05A F193898	Plaster	Homogeneous Gray Non-fibrous Bound			40% 60%	Binder Silicates	<1% Chrysotile
1021-05B F193899	Plaster	Homogeneous Gray Non-fibrous Bound			40% 60%	Binder Silicates	<1% Chrysotile
1021-05C F193900	Plaster	Homogeneous Gray Non-fibrous Bound			40% 60%	Binder Silicates	<1% Chrysotile
1021-06A F193901	Duct Seam Tape	Heterogeneous Beige Fibrous Bound	40%	Cellulose	20% 5% 35%	Metal Foil Mastic Binder	None Detected
1021-06B F193902	Duct Seam Tape	Heterogeneous Beige Fibrous Bound	40%	Cellulose	60%	Binder	None Detected
1021-06C Layer 1 F193903	Duct Seam Tape	Heterogeneous Beige Fibrous Bound	5%	Cellulose	92%	Binder	**3% Chrysotile**

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: PMP Environmental Consulting
5325 Elkhorn Blvd #360
Sacramento, CA 95842

Lab Code: 6A190271
Date Received: 11-11-19
Date Analyzed: 11-11-19
Date Reported: 11-11-19

Project: Solano College-Bldg. 300, 19-1021

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
Layer 2 F193903	Duct Seam Tape	Heterogeneous Beige Fibrous Bound	40%	Cellulose	60%	Binder	None Detected
1021-07A F193904	Floor Tile	Homogeneous Beige Non-fibrous Bound			100%	Vinyl	None Detected
1021-07A.1 F193905	Mastic	Homogeneous Yellow Non-fibrous Bound			100%	Mastic	None Detected
1021-07B F193906	Floor Tile	Homogeneous Beige Non-fibrous Bound			100%	Vinyl	None Detected
1021-07B.1 F193907	Mastic	Homogeneous Yellow Non-fibrous Bound			100%	Mastic	None Detected
1021-07C F193908	Floor Tile	Homogeneous Beige Non-fibrous Bound			100%	Vinyl	None Detected
1021-07C.1 F193909	Mastic	Homogeneous Yellow Non-fibrous Bound			100%	Mastic	None Detected

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ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: PMP Environmental Consulting
5325 Elkhorn Blvd #360
Sacramento, CA 95842

Lab Code: 6A190271
Date Received: 11-11-19
Date Analyzed: 11-11-19
Date Reported: 11-11-19

Project: Solano College-Bldg. 300, 19-1021

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous	ASBESTOS %
1021-08A F193910	Floor Tile	Homogeneous Blue Non-fibrous Bound		100% Vinyl	None Detected
1021-08A.1 F193911	Mastic	Homogeneous Yellow Non-fibrous Bound		100% Mastic	None Detected
1021-09A F193912	Covebase Mastic	Homogeneous Tan Non-fibrous Bound		100% Mastic	None Detected
1021-09B F193913	Covebase Mastic	Homogeneous Brown Non-fibrous Bound		100% Mastic	None Detected
1021-09C F193914	Covebase Mastic	Homogeneous Tan Non-fibrous Bound		100% Mastic	None Detected
1021-10A F193915	Floor Tile	Homogeneous Blue Non-fibrous Bound		100% Mastic	None Detected
1021-10A.1 F193916	Mastic	Homogeneous Black Non-fibrous Bound		95% Mastic	**5% Chrysotile**

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ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: PMP Environmental Consulting
5325 Elkhorn Blvd #360
Sacramento, CA 95842

Lab Code: 6A190271
Date Received: 11-11-19
Date Analyzed: 11-11-19
Date Reported: 11-11-19

Project: Solano College-Bldg. 300, 19-1021

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
1021-11A F193917	Ceiling Tile	Heterogeneous White Fibrous Loosely Bound	50% 25%	Cellulose Fiberglass	5% 20%	Paint Perlite	None Detected
1021-11B F193918	Ceiling Tile	Heterogeneous White Fibrous Loosely Bound	50% 25%	Cellulose Fiberglass	5% 20%	Paint Perlite	None Detected
1021-12A F193919	Counter Tops	Homogeneous Black Non-fibrous Tightly Bound			25% 75%	Binder Silicates	None Detected
1021-13A F193920	Window Sealant	Homogeneous Gray Non-fibrous Tightly Bound			100%	Caulk	None Detected
1021-14A F193921	Transite	Homogeneous Gray Fibrous Tightly Bound			60% 25%	Binder Silicates	**15% Chrysotile**
1021-15A F193922	Grout	Homogeneous Tan Non-fibrous Bound			25% 75%	Binder Silicates	None Detected
1021-16A F193923	Seam Sealant	Heterogeneous Gray Non-fibrous Bound			75% 15% 10%	Binder Silicates Calc Carb	<1% Chrysotile

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: PMP Environmental Consulting
5325 Elkhorn Blvd #360
Sacramento, CA 95842

Lab Code: 6A190271
Date Received: 11-11-19
Date Analyzed: 11-11-19
Date Reported: 11-11-19

Project: Solano College-Bldg. 300, 19-1021

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
1021-17A F193924	Frp Mastic	Homogeneous Off-white Non-fibrous Bound			100%	Mastic	None Detected
1021-18A F193925	Grout	Homogeneous Tan Non-fibrous Bound			25% 75%	Binder Silicates	None Detected
1021-19A F193926	Counter Tops	Homogeneous Black Non-fibrous Tightly Bound			100%	Silicates	None Detected
1021-20A F193927	Ceiling Tile	Heterogeneous White Fibrous Loosely Bound	50% 25%	Cellulose Fiberglass	5% 20%	Paint Perlite	None Detected

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LEGEND: Non-Anth = Non-Asbestiform Anthophyllite
Non-Trem = Non-Asbestiform Tremolite
Calc Carb = Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORTING LIMIT: <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. *Estimated measurement of uncertainty is available on request.*

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Information provided by customer includes customer sample ID and sample description.

ANALYST: Danielle Carrier

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP® TESTING
NVLAP LAB CODE 101768-0

PMP Environmental Consulting

5325 Elkhorn Blvd., Sacramento, CA 95642

(916) 628-5124 • PMPEnvConsulting@gmail.com

6A1902721
F193882-927
(46)

Bulk Request Analysis Form

Client: Solano Community College Dist.
Job Site: Solano College-Bldg. 300
Project ID: 19-1021
Project Shannon Johanson
Date Collected: 11/9/19
Collected by: Shannon Johanson
Date Submitted: 11/10/19
Laboratory: Eurofins CEI

Analysis Requested:

_x___ PLM with Dispersion Staining __ Flame AA

____ TEM (Bulk) ____ Other:

Turnaround Time: ____ Same Day _x___ 24 Hour

____ Other: _____

Special Instructions:

____ Please fax results to

__x__ Please email results to: pmpenvconsulting@gmail.com

____ Other: _____

	SAMPLE #	MATERIAL DESCRIPTION/LOCATION	SQUARE FOOTAGE
1	1021-01A	Stucco Building 300, East Side at Center	13,120 SF
2	1021-01B	Stucco Building 300, North Side at West End	
3	1021-01C	Stucco Building 300, West Side Walkway Overhang at Center	
4	1021-01D	Stucco Building 300, West Side at South End	
5	1021-01E	Stucco Building 300, East Side at North End	
6	1021-01F	Stucco Building 300, South Side at East End	
7	1021-01G	Stucco Building 300, North Side Walkway Overhang at Center	
8	1021-02A	Orange Peel Textured Sheetrock w/Joint Compound Building 300, Office 345 at Southeast Corner	9,000 SF
9	1021-02B	Orange Peel Textured Sheetrock Building 300, South Wall of Corridor by Room 331	
10	1021-02C	Orange Peel Textured Sheetrock Building 300, Room 228 at North Wall	
11	1021-02D	Orange Peel Textured Sheetrock w/Joint Compound Building 300, Room 329 at Northwest Corner	
12	1021-02E	Orange Peel Textured Sheetrock w/Joint Compound Building 300, Classroom 321 Prep at South Wall	

PMP Environmental Consulting

5325 Elkhorn Blvd., Sacramento, CA 95642

(916) 628-5124 • PMPEnvConsulting@gmail.com

Bulk Request Analysis Form

Client: Solano Community College Dist.
Job Site: Solano College-Bldg. 300
Project ID: 19-1021
Project Shannon Johanson
Date Collected: 11/9/19
Collected by: Shannon Johanson
Date Submitted: 11/10/19
Laboratory: Eurofins CEI

Analysis Requested:

_x___ PLM with Dispersion Staining __ Flame AA

____ TEM (Bulk) ____ Other:

Turnaround Time: ____ Same Day _x___ 24 Hour

____ Other: _____

Special Instructions:

____ Please fax results to

__x__ Please email results to: pmpenvconsulting@gmail.com

____ Other: _____

	SAMPLE #	MATERIAL DESCRIPTION/LOCATION	SQUARE FOOTAGE
13	1021-03A	Hatch Pattern Sheetrock (Under Orange Peel Texture in most of Building) Building 300, Room 332, North Wall	
14	1021-04A	Unfinished Sheetrock w/Joint Compound Building 300, Room 328 Attic	3,000 SF
15	1021-04B	Unfinished Sheetrock w/Joint Compound Building 300, Room 304 at North Wall	
16	1021-04C	Unfinished Sheetrock w/Joint Compound Building 300, Room 304 Attic	
17	1021-05A	Plaster Building 300, Room 323 at West Wall	450 SF
18	1021-05B	Plaster Building 300, Room 323, West Wall	450 SF
19	1021-05C	Plaster Building 300, Room 323	450 SF
20	1021-06A	Duct Seam Tape Building 300, Room 328, West End	1,000 LF
21	1021-06B	Duct Seam Tape Building 300, Room 304, South End	
22	1021-06C	Duct Seam Tape Building 300, Room 304 Attic Space	
23	1021-07A	12" VFT Beige and Mastic Building 300, Lobby Corridor at Damage	7,000 SF

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Bulk Request Analysis Form

Client: Solano Community College Dist.
Job Site: Solano College-Bldg. 300
Project ID: 19-1021
Project Shannon Johanson
Date Collected: 11/9/19
Collected by: Shannon Johanson
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Analysis Requested:

_x___ PLM with Dispersion Staining __ Flame AA

____ TEM (Bulk) ____ Other:

Turnaround Time: ____ Same Day _x___ 24 Hour

____ Other: _____

Special Instructions:

____ Please fax results to

__x__ Please email results to: pmpenvconsulting@gmail.com

____ Other: _____

	SAMPLE #	MATERIAL DESCRIPTION/LOCATION	SQUARE FOOTAGE
24	1021-07A.1	Mastic Building 300, Lobby Corridor at Damage	
25	1021-07B	12" VFT Beige Building 300, Room 328 at North End	
26	1021-07B.1	Mastic Building 300, Room 328 at North End	
27	1021-07C	12" VFT Beige Building 300, Room 327, West End	
28	1021-07C.1	Mastic Building 300, Room 327, West End	
29	1021-08A	12" VFT Blue Building 300, Lobby Corridor at West Wall	2,000 SF
30	1021-08A.1	Mastic Building 300, Lobby Corridor at West Wall	
31	1021-09A	Cove Base Mastic Building 300, Room 327, West Wall	
32	1021-09B	Cove Base Mastic Building 300, Room 332, North Wall	
33	1021-09C	Cove Base Mastic Building 300, Room 305, South Wall	
34	1021-10A	9" Blue VFT Building 300, Room 332 Prep at Damage, North End	2,000 SF
35	1021-10A.1	Black Mastic Building 300, Room 332 Prep at Damage, North End	

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Bulk Request Analysis Form

Client: Solano Community College Dist.
Job Site: Solano College-Bldg. 300
Project ID: 19-1021
Project Shannon Johanson
Date Collected: 11/9/19
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Analysis Requested:

_x___ PLM with Dispersion Staining ___ Flame AA

____ TEM (Bulk) ____ Other:

Turnaround Time: ____ Same Day _x___ 24 Hour

____ Other: _____

Special Instructions:

____ Please fax results to

__x__ Please email results to: pmpenvconsulting@gmail.com

____ Other: _____

	SAMPLE #	MATERIAL DESCRIPTION/LOCATION	SQUARE FOOTAGE
36	1021-11A	2'x4' FCP-Pinhole/Gouge Building 300, Room 303	26,000 SF
37	1021-11B	2'x4' FCP-Pinhole/Gouge Building 300, Room 332 Prep	
38	1021-12A	Black Counter Tops Building 300, Classroom 327, Fume Hood #2 Counter	60 SF
39	1021-13A	Gray Window Sealant Building 300 Exterior, North Side	450 LF
40	1021-14A	Transite Building 300, Room 327, Fume Hoods	270 SF
41	1021-15A	Brown Ceramic Tile Grout Building 300, Unisex Restroom at Entry	40 SF
42	1021-16A	Gray Seam Sealant Building 300, Room 323, At Counter	
43	1021-17A	FRP Mastic Building 300, Custodial Closet, South Wall	88 SF
44	1021-18A	Brown Ceramic Tile Grout Building 300, Room 323 at Floor	180 SF
45	1021-19A	Black Counter Tops Building 300, Classroom 327	256 SF
46	1021-20A	2'x4' FCP-Pinhole/Fissure Building 300, Room 332, West End at Water Damage	

Submitted by: Shannon Johanson Date: 11-10-19

Submitted via: X Dropoff ___ FedEx ___ Courier ___Other:

Received by: _____ Date: _____

November 14, 2019

PMP Environmental Consulting
5325 Elkhorn Blvd #360
Sacramento, CA 95842

CLIENT PROJECT: Solano College-Bldg. 300, 19-1021
CEI LAB CODE: 6A190271A

Dear Customer:

Enclosed are asbestos analysis results for PLM bulk samples received at our laboratory on November 13, 2019. The samples were analyzed for asbestos using polarized light microscopy (PLM) point count per the EPA 600 Method.

Sample results containing > 1% asbestos are considered asbestos-containing materials (ACMs) per the EPA regulatory requirements. The detection limit for the EPA 600 method is 0.25% for 400 point counts, or 0.1% for 1,000 point counts.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

eurofins | CEI

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

PMP Environmental Consulting

CLIENT PROJECT: Solano College-Bldg. 300, 19-1021

LAB CODE: 6A190271A

TEST METHOD: PLM Point Count
EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 11/14/19

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

eurofins | CEI

Client: PMP Environmental Consulting
5325 Elkhorn Blvd #360
Sacramento, CA 95842

Lab Code: 6A190271A
Date Received: 11-13-19
Date Analyzed: 11-14-19
Date Reported: 11-14-19

Project: Solano College-Bldg. 300, 19-1021

ASBESTOS POINT COUNT PLM, EPA 600 METHOD

Client ID	Lab ID	Material Description	POINTS Total	POINTS Asbestos	ASBESTOS %	
1021-02A	F193889	Joint Compound (point Count)	400	14	**3.5%**	**Chrysotile**
	F193889	Drywall/Joint Compound (Composite Result from Point Count)	400		**0.18%**	**Chrysotile**
Lab Notes: Joint compound is 5% of the overall sample						
1021-02D	F193892	Joint Compound (point Count)	400	10	**2.5%**	**Chrysotile**
	F193892	Drywall/Joint Compound (Composite Result from Point Count)	400		**0.13%**	**Chrysotile**
Lab Notes: Joint compound is 5% of the overall sample						
1021-02E	F193893	Joint Compound (point Count)	400	8	**2.0%**	**Chrysotile**
	F193893	Drywall/Joint Compound (Composite Result from Point Count)	400		**0.10%**	**Chrysotile**
Lab Notes: Joint compound is 5% of the overall sample						
1021-03A	F193894	Joint Compound (point Count)	400	9	**2.3%**	**Chrysotile**
	F193894	Drywall/Joint Compound (Composite Result from Point Count)	400		**0.12%**	**Chrysotile**
Lab Notes: Joint compound is 5% of the overall sample						
1021-04A	F193895	Joint Compound (point Count)	400	11	**2.8%**	**Chrysotile**
	F193895	Drywall/Joint Compound (Composite Result from Point Count)	400		**0.14%**	**Chrysotile**
Lab Notes: Joint compound is 5% of the overall sample						
1021-04B	F193896	Joint Compound (point Count)	400	8	**2.0%**	**Chrysotile**
	F193896	Drywall/Joint Compound (Composite Result from Point Count)	400		**0.10%**	**Chrysotile**
Lab Notes: Joint compound is 5% of the overall sample						
1021-04C	F193897	Joint Compound (point Count)	400	9	**2.3%**	**Chrysotile**

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

eurofins | CEI

Client: PMP Environmental Consulting
5325 Elkhorn Blvd #360
Sacramento, CA 95842

Lab Code: 6A190271A
Date Received: 11-13-19
Date Analyzed: 11-14-19
Date Reported: 11-14-19

Project: Solano College-Bldg. 300, 19-1021

ASBESTOS POINT COUNT PLM, EPA 600 METHOD

Client ID	Lab ID	Material Description	POINTS Total	POINTS Asbestos	ASBESTOS %	
	F193897	Drywall/Joint Compound (Composite Result from Point Count)	400		**0.12%**	**Chrysotile**
Lab Notes: Joint compound is 5% of the overall sample						
1021-05A	F193898	Plaster	400	0	**<0.25%**	**Chrysotile**
Lab Notes: Chrysotile detected below limit of quantitation						
1021-05B	F193899	Plaster	400	0	**<0.25%**	**Chrysotile**
Lab Notes: Chrysotile detected below limit of quantitation						
1021-05C	F193900	Plaster	400	0	**<0.25%**	**Chrysotile**
Lab Notes: Chrysotile detected below limit of quantitation						

LEGEND: None

METHOD: EPA 600 / M4 / 82 / 020 (40 CFR Part 763, Sub. E, App. E)

REPORTING LIMIT: 0.25% by 400 points or 0.1% by 1,000 points

REGULATORY LIMIT: >1% by weight

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. *Estimated measurement of uncertainty is available on request.* This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Information provided by customer includes customer sample ID, location, volume and area as well as date and time of sampling.

ANALYST: Danielle Carrier

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

Taylor Metcalf

From: Shannon Johanson <pmpenvconsulting@gmail.com>
Sent: Wednesday, November 13, 2019 3:24 PM
To: #US73_Eurofins_CEI_Folsom
Subject: Re: Laboratory Report for Solano College-Bldg. 300, 19-1021 (6A190271)

Can you please point count all less than one percent sheet rock and plaster samples. I believe there are ten samples. The turn around time is 24 hrs.

Thanks

Sent from my iPhone

On Nov 12, 2019, at 8:17 AM, US73_Eurofins_CEI_Folsom@Eurofins.com <US73_Eurofins_CEI_Folsom@eurofins.com> wrote:

> Attached is the laboratory report for your recently submitted samples. Please print out a copy for your records.
>
> Thank you for choosing Eurofins CEI.
>
> Eurofins CEI
> 180 Blue Ravine Rd
> Folsom, CA 95630
> USA
> 916-496-5286
>
> Website: www.EurofinsUS.com/CEI
>
> By sending ECEI samples, you are agreeing to our general Terms and Conditions, unless otherwise negotiated.
>
> The contents contained in this email are confidential and legally protected. If you happen to receive this email in error, please call our office and delete immediately.
>
> Notify us here to report this email as spam.

<6A190271.pdf>

eurofins | Built Environment Testing

Report for:

Shannon Johanson
PMP Environmental Consulting
5325 Elkhorn Blvd #360
5325 Elkhorn Blvd, #360
Sacramento, CA 95842

Regarding: Eurofins EPK Built Environment Testing, LLC
Project: 23-017; Solano Community College Building 1600
EML ID: 3160244

Approved by:

Laboratory Manager
Danny Li

Dates of Analysis:
Lead - Flame AA: 02-09-2023

Service SOPs: Lead - Flame AA (EM-BC-S-8443)
AIHA-LAP, LLC accredited service, Lab ID #178697

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the samples as received and tested. Sample size, as it relates to Wipe samples only, is supplied by the client.

Eurofins EPK Built Environment Testing, LLC ("the Company"), a member of the Eurofins Built Environment Testing group of companies, shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.
Eurofins EPK Built Environment Testing, LLC's LabServe® reporting system includes automated fail-safes to ensure that all AIHA-LAP, LLC quality requirements are met and notifications are added to reports when any quality steps remain pending.

Eurofins EPK Built Environment Testing, LLC
2841 Dow Avenue, Suite 300, Tustin, CA 92780
(866) 888-6653 www.eurofinsus.com/Built

Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 23-017; Solano Community College Building 1600

Date of Sampling: 02-06-2023
Date of Receipt: 02-08-2023
Date of Report: 02-09-2023

LEAD: FLAME ATOMIC ABSORPTION SPECTROMETRY

Location:	01Pb: Beige Paint On Sheetrock Upper East Wall Of Corridor	02Pb: Beige Paint On Sheetrock Near Entry Of 1658	03Pb: Green Paint On Metal Door Frame Room 1658 Doorway	04Pb: 2" Ceramic Tile Staff Restroom At Drain
Comments (see below)	None	None	None	None
Lab ID-Version‡:	15284413-1	15284414-1	15284415-1	15284416-1
Analysis Date:	02/09/2023	02/09/2023	02/09/2023	02/09/2023
Sample type	Paint Chip sample	Paint Chip sample	Paint Chip sample	Bulk sample
Method*	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified
† Method Reporting Limit	68 ppm	59 ppm	470 ppm	39 ppm
Sample size	0.1461 grams	0.1684 grams	0.0213 grams	0.2586 grams
§Total Lead Result	< 68 ppm	< 59 ppm	< 470 ppm	< 39 ppm

Comments:

Sample results have not been corrected for blank values.

Bulk samples are not covered under the AIHA-LAP, LLC service accreditation.

Wipe samples must meet ASTM E1792 criteria. Method Reporting Limits may not be valid for non-ASTM E1792 wipe samples.

*Sample preparation and analytical methods are based upon NIOSH 7082 and EPA 7000B.

† The Method Reporting Limit is the minimum concentration of Lead that the laboratory can confidently detect in the sample.

§ Total Lead Result has been rounded to two significant figures to reflect analytical precision.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 23-017; Solano Community College Building 1600

Date of Sampling: 02-06-2023
Date of Receipt: 02-08-2023
Date of Report: 02-09-2023

LEAD: FLAME ATOMIC ABSORPTION SPECTROMETRY

Location:	05Pb: White Paint On Drywall Classroom 1638 At East Wall	06Pb: White Paint On Metal Door Frame Room 1638	07Pb: Blue Paint On Metal Door Frame 1616 Restroom (Classroom 1610)	08Pb: Yellow Laminate Countertop Classroom 1610 At Damaged Reception Top
Comments (see below)	None	None	None	None
Lab ID-Version‡:	15284417-1	15284418-1	15284419-1	15284420-1
Analysis Date:	02/09/2023	02/09/2023	02/09/2023	02/09/2023
Sample type	Paint Chip sample	Paint Chip sample	Paint Chip sample	Bulk sample
Method*	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified
† Method Reporting Limit	63 ppm	96 ppm	130 ppm	39 ppm
Sample size	0.1580 grams	0.1044 grams	0.0771 grams	0.2537 grams
§Total Lead Result	< 63 ppm	< 96 ppm	870 ppm	2400 ppm

Comments:

Sample results have not been corrected for blank values.

Bulk samples are not covered under the AIHA-LAP, LLC service accreditation.

Wipe samples must meet ASTM E1792 criteria. Method Reporting Limits may not be valid for non-ASTM E1792 wipe samples.

*Sample preparation and analytical methods are based upon NIOSH 7082 and EPA 7000B.

† The Method Reporting Limit is the minimum concentration of Lead that the laboratory can confidently detect in the sample.

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Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 23-017; Solano Community College Building 1600

Date of Sampling: 02-06-2023
Date of Receipt: 02-08-2023
Date of Report: 02-09-2023

LEAD: FLAME ATOMIC ABSORPTION SPECTROMETRY

Location:	09Pb: Green Paint On Wood Trim Classroom 1625 At Upper Wall	10Pb: Green Paint On Wood Panel 1629 Janitor Closet	11Pb: Beige Paint On Metal Door Frame Room 1627	12Pb: Beige Paint On Sheetrock 1638 Restroom
Comments (see below)	None	None	None	None
Lab ID-Version‡:	15284421-1	15284422-1	15284423-1	15284424-1
Analysis Date:	02/09/2023	02/09/2023	02/09/2023	02/09/2023
Sample type	Paint Chip sample	Paint Chip sample	Paint Chip sample	Paint Chip sample
Method*	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified
† Method Reporting Limit	93 ppm	55 ppm	220 ppm	150 ppm
Sample size	0.1074 grams	0.1832 grams	0.0460 grams	0.0680 grams
§Total Lead Result	2700 ppm	< 55 ppm	< 220 ppm	< 150 ppm

Comments:

Sample results have not been corrected for blank values.

Bulk samples are not covered under the AIHA-LAP, LLC service accreditation.

Wipe samples must meet ASTM E1792 criteria. Method Reporting Limits may not be valid for non-ASTM E1792 wipe samples.

*Sample preparation and analytical methods are based upon NIOSH 7082 and EPA 7000B.

† The Method Reporting Limit is the minimum concentration of Lead that the laboratory can confidently detect in the sample.

§ Total Lead Result has been rounded to two significant figures to reflect analytical precision.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins EPK Built Environment Testing, LLC
2841 Dow Avenue, Suite 300, Tustin, CA 92780
(866) 888-6653 www.eurofinsus.com/Built

Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 23-017; Solano Community College Building 1600

Date of Sampling: 02-06-2023
Date of Receipt: 02-08-2023
Date of Report: 02-09-2023

LEAD: FLAME ATOMIC ABSORPTION SPECTROMETRY

Location:	13Pb: White Paint On Upper Wall Classroom 1633	14Pb: Red Paint On Concrete Exterior 1600	15Pb: White/Light Gray Paint On Concrete Exterior Window Sill	16Pb: Gray Paint On Concrete/Stucco Exterior Building 1600
Comments (see below)	None	None	None	None
Lab ID-Version‡:	15284425-1	15284426-1	15284427-1	15284428-1
Analysis Date:	02/09/2023	02/09/2023	02/09/2023	02/09/2023
Sample type	Paint Chip sample	Paint Chip sample	Paint Chip sample	Paint Chip sample
Method*	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified
† Method Reporting Limit	43 ppm	40 ppm	50 ppm	97 ppm
Sample size	0.2312 grams	0.2505 grams	0.1996 grams	0.1034 grams
§Total Lead Result	530 ppm	< 40 ppm	< 50 ppm	< 97 ppm

Comments:

Sample results have not been corrected for blank values.

Bulk samples are not covered under the AIHA-LAP, LLC service accreditation.

Wipe samples must meet ASTM E1792 criteria. Method Reporting Limits may not be valid for non-ASTM E1792 wipe samples.

*Sample preparation and analytical methods are based upon NIOSH 7082 and EPA 7000B.

† The Method Reporting Limit is the minimum concentration of Lead that the laboratory can confidently detect in the sample.

§ Total Lead Result has been rounded to two significant figures to reflect analytical precision.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 23-017; Solano Community College Building 1600

Date of Sampling: 02-06-2023
Date of Receipt: 02-08-2023
Date of Report: 02-09-2023

LEAD: FLAME ATOMIC ABSORPTION SPECTROMETRY

Location:	17Pb: White Paint On Concrete Exterior Building 1600	18Pb: White Paint On Wood Exterior Gazebo	19Pb: Red Paint On Concrete/Stucco Exterior Building 1600	20Pb: Yellow Paint On Concrete/ Stucco Exterior Building 1600
Comments (see below)	None	None	None	None
Lab ID-Version‡:	15284429-1	15284430-1	15284431-1	15284432-1
Analysis Date:	02/09/2023	02/09/2023	02/09/2023	02/09/2023
Sample type	Paint Chip sample	Paint Chip sample	Paint Chip sample	Paint Chip sample
Method*	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified
† Method Reporting Limit	110 ppm	39 ppm	110 ppm	140 ppm
Sample size	0.0872 grams	0.2543 grams	0.0913 grams	0.0716 grams
§Total Lead Result	< 110 ppm	200 ppm	< 110 ppm	< 140 ppm

Comments:

Sample results have not been corrected for blank values.

Bulk samples are not covered under the AIHA-LAP, LLC service accreditation.

Wipe samples must meet ASTM E1792 criteria. Method Reporting Limits may not be valid for non-ASTM E1792 wipe samples.

*Sample preparation and analytical methods are based upon NIOSH 7082 and EPA 7000B.

† The Method Reporting Limit is the minimum concentration of Lead that the laboratory can confidently detect in the sample.

§ Total Lead Result has been rounded to two significant figures to reflect analytical precision.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins EPK Built Environment Testing, LLC
2841 Dow Avenue, Suite 300, Tustin, CA 92780
(866) 888-6653 www.eurofinsus.com/Built

Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 23-017; Solano Community College Building 1600

Date of Sampling: 02-06-2023
Date of Receipt: 02-08-2023
Date of Report: 02-09-2023

LEAD: FLAME ATOMIC ABSORPTION SPECTROMETRY

Location:	21Pb: Orange Paint On Metal Roof Ladder And Handrail	22Pb: Red Paint On Metal Flashing Middle Roof	23Pb: White Paint On Metal Flashing Roof	24Pb: White/Silver Paint Upper Roof Access Hatch
Comments (see below)	None	None	None	None
Lab ID-Version‡:	15284433-1	15284434-1	15284435-1	15284436-1
Analysis Date:	02/09/2023	02/09/2023	02/09/2023	02/09/2023
Sample type	Paint Chip sample	Paint Chip sample	Paint Chip sample	Paint Chip sample
Method*	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified
† Method Reporting Limit	52 ppm	40 ppm	40 ppm	39 ppm
Sample size	0.1927 grams	0.2514 grams	0.2508 grams	0.2555 grams
§Total Lead Result	< 52 ppm	24000 ppm	< 40 ppm	54 ppm

Comments:

Sample results have not been corrected for blank values.

Bulk samples are not covered under the AIHA-LAP, LLC service accreditation.

Wipe samples must meet ASTM E1792 criteria. Method Reporting Limits may not be valid for non-ASTM E1792 wipe samples.

*Sample preparation and analytical methods are based upon NIOSH 7082 and EPA 7000B.

† The Method Reporting Limit is the minimum concentration of Lead that the laboratory can confidently detect in the sample.

§ Total Lead Result has been rounded to two significant figures to reflect analytical precision.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

eurofins | Built Environment Testing

Report for:

Shannon Johanson
PMP Environmental Consulting
5325 Elkhorn Blvd #360
5325 Elkhorn Blvd, #360
Sacramento, CA 95842

Regarding: Eurofins EPK Built Environment Testing, LLC
Project: 23-017; Solano Community College Dist, Solano Community College Bldg 1600
EML ID: 3160770

Approved by:

Approved Signatory
Cecil Strait

Dates of Analysis:
Asbestos PLM: 02-10-2023 and 02-13-2023

Service SOPs: Asbestos PLM (EPA 40CFR App E to Sub E of Part 763 & EPA METHOD 600/R-93-116, SOP EM-AS-S-1267)
NVLAP Lab Code 600282-0

Eurofins EPK Built Environment Testing, LLC
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Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 23-017; Solano Community College Dist, Solano Community College Bldg 1600

Date of Sampling: 02-07-2023
Date of Receipt: 02-08-2023
Date of Report: 02-13-2023

ASBESTOS PLM REPORT

Total Samples Submitted:	122
Total Samples Analyzed:	122
Total Samples with Layer Asbestos Content > 1%:	23

Location: 01A, Sheetrock with wallpaper covering with joint compound, room 1633 at Northwest corner

Lab ID-Version‡: 15285365-1

Sample Layers	Asbestos Content
White Wallpaper	ND
Beige Adhesive	ND
Gray Wallpaper	ND
Off-White Joint Compound	2% Chrysotile
Cream Tape	ND
Off-White Joint Compound #2	2% Chrysotile
White Drywall with Brown Paper	ND
Composite Asbestos Fibrous Content:	< 1% Asbestos
Composite Non-Asbestos Content:	20% Cellulose < 1% Glass Fibers
Sample Composite Homogeneity:	Poor

Comments: Composite asbestos content provided is only for Drywall/Joint compound. Composite content provided for this analysis has been performed by following the NESHAP guidelines.

Location: 01B, Sheetrock with wallpaper covering with joint compound, room 1610 at Southeast corner

Lab ID-Version‡: 15285366-1

Sample Layers	Asbestos Content
White Wallpaper	ND
Beige Adhesive	ND
Gray Wallpaper	ND
Off-White Joint Compound	2% Chrysotile
White Drywall with Brown Paper	ND
Composite Asbestos Fibrous Content:	< 1% Asbestos
Composite Non-Asbestos Content:	20% Cellulose < 1% Glass Fibers
Sample Composite Homogeneity:	Poor

Comments: Composite asbestos content provided is only for Drywall/Joint compound. Composite content provided for this analysis has been performed by following the NESHAP guidelines.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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ASBESTOS PLM REPORT

Location: 01C, Sheetrock with wallpaper covering with joint compound, room 1642 at Southeast corner

Lab ID-Version‡: 15285367-1

Sample Layers	Asbestos Content
White Wallpaper	ND
White Joint Compound	ND
Beige Adhesive	ND
Off-White Joint Compound	ND
Cream Tape	ND
White Joint Compound #2	ND
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	20% Cellulose < 1% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 01D, Sheetrock with wallpaper covering, corridor at room 1638

Lab ID-Version‡: 15285368-1

Sample Layers	Asbestos Content
White Wallpaper	ND
Beige Adhesive	ND
White Joint Compound	ND
White Drywall	ND
Composite Non-Asbestos Content:	10% Cellulose < 1% Glass Fibers
Sample Composite Homogeneity:	Poor

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ASBESTOS PLM REPORT

Location: 01E, Sheetrock with wallpaper covering, field, classroom 1625, East wall Lab ID-Version‡: 15285369-1

Sample Layers	Asbestos Content
White Wallpaper	ND
Beige Adhesive	ND
Brown Fiberboard	ND
Composite Non-Asbestos Content:	80% Cellulose
Sample Composite Homogeneity:	Moderate

Comments: Drywall was not detected

Location: 02A, Sheetrock, smooth with joint compound, office 1626 at Northeast corner

Lab ID-Version‡: 15285370-1

Sample Layers	Asbestos Content
White Joint Compound with Paint	ND
Cream Tape	ND
White Joint Compound	ND
White Drywall	ND
Composite Non-Asbestos Content:	15% Cellulose < 1% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 02B, Sheetrock, smooth with joint compound, corridor upper wall at Southwest corner

Lab ID-Version‡: 15285371-1

Sample Layers	Asbestos Content
White Joint Compound with Paint	ND
Cream Tape	ND
White Drywall	ND
Composite Non-Asbestos Content:	15% Cellulose < 1% Glass Fibers
Sample Composite Homogeneity:	Poor

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ASBESTOS PLM REPORT

Location: 02C, Sheetrock, smooth, room 1615 ceiling

Lab ID-Version‡: 15285372-1

Sample Layers	Asbestos Content
Beige Joint Compound with Paint	2% Chrysotile
White Drywall	ND
Composite Asbestos Fibrous Content:	< 1% Asbestos
Composite Non-Asbestos Content:	2% Cellulose < 1% Glass Fibers
Sample Composite Homogeneity:	Poor

Comments: Composite asbestos content provided is only for Drywall/Joint compound. Composite content provided for this analysis has been performed by following the NESHAP guidelines.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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ASBESTOS PLM REPORT

Location: 02D, Sheetrock, smooth with joint compound, room 1629, janitor closet, Southeast corne

Lab ID-Version‡: 15285373-1

Sample Layers	Asbestos Content
Beige Joint Compound with Paint	2% Chrysotile
Cream Tape	ND
White Drywall	ND
Composite Asbestos Fibrous Content:	< 1% Asbestos
Composite Non-Asbestos Content:	15% Cellulose < 1% Glass Fibers
Sample Composite Homogeneity:	Poor

Comments: Composite asbestos content provided is only for Drywall/Joint compound. Composite content provided for this analysis has been performed by following the NESHAP guidelines.

Location: 02E, Sheetrock, smooth, field, room 1645 at upper wall

Lab ID-Version‡: 15285374-1

Sample Layers	Asbestos Content
White Joint Compound with Paint	ND
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	7% Cellulose < 1% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 02F, Sheetrock, smooth with joint compound, classroom 1638, Southwest corner

Lab ID-Version‡: 15285375-1

Sample Layers	Asbestos Content
White Joint Compound with Paint	ND
Cream Tape	ND
White Joint Compound	ND
Composite Non-Asbestos Content:	50% Cellulose
Sample Composite Homogeneity:	Moderate

Comments: Drywall was not detected

Location: 02G, Sheetrock, smooth, field, room 1658 at water damage South wall

Lab ID-Version‡: 15285376-1

Sample Layers	Asbestos Content
Beige Joint Compound	2% Chrysotile
Sample Composite Homogeneity:	Moderate

Comments: Drywall was not detected

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ASBESTOS PLM REPORT

Location: 03A, 2'x4' false ceiling panels, old fissure pattern, classroom 1633 Lab ID-Version‡: 15285377-1

Sample Layers	Asbestos Content
Beige Ceiling Tile with White Surface	4% Chrysotile
Composite Non-Asbestos Content:	65% Glass Fibers 10% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 03B, 2'x4' false ceiling panels, old fissure pattern, 1633 electrical/IT ceiling Lab ID-Version‡: 15285378-1

Sample Layers	Asbestos Content
Beige Ceiling Tile with White Surface	4% Chrysotile
Composite Non-Asbestos Content:	65% Glass Fibers 10% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 03C, 2'x4' false ceiling panels, old fissure pattern, classroom 1610 at center rooms Lab ID-Version‡: 15285379-1

Sample Layers	Asbestos Content
Beige Ceiling Tile with White Surface	4% Chrysotile
Composite Non-Asbestos Content:	65% Glass Fibers 10% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 03D, 2'x4' false ceiling panels, old fissure pattern, office 1620 Lab ID-Version‡: 15285380-1

Sample Layers	Asbestos Content
Beige Ceiling Tile with White Surface	4% Chrysotile
Composite Non-Asbestos Content:	65% Glass Fibers 10% Cellulose
Sample Composite Homogeneity:	Moderate

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ASBESTOS PLM REPORT

Location: 04A, 2'x4' false ceiling panels, pinhole/fissure pattern, office 1643 Lab ID-Version‡: 15285381-1

Sample Layers	Asbestos Content
Beige Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	45% Cellulose 5% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 04B, 2'x4' false ceiling panels, pinhole/fissure pattern, 1625 at South wall Lab ID-Version‡: 15285382-1

Sample Layers	Asbestos Content
Beige Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	45% Cellulose 5% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 04C, 2'x4' false ceiling panels, pinhole/fissure pattern, office 1644 Lab ID-Version‡: 15285383-1

Sample Layers	Asbestos Content
Beige Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	45% Cellulose 5% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 05A, Sheetrock, unfinished with joint compound, attic space of 1643 Lab ID-Version‡: 15285384-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	5% Cellulose < 1% Glass Fibers
Sample Composite Homogeneity:	Moderate

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ASBESTOS PLM REPORT

Location: 05B, Sheetrock, unfinished with joint compound, corridor above false ceiling Lab ID-Version‡: 15285385-1

Sample Layers	Asbestos Content
White Joint Compound	ND
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	5% Cellulose < 1% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 06A, Tan cove base mastic, room 1633, West wall Lab ID-Version‡: 15285387-1

Sample Layers	Asbestos Content
Beige Mastic	ND
White Woven Material (Mesh)	ND
Composite Non-Asbestos Content:	5% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 06B, Tan cove base mastic, classroom 1625 at exterior entry Lab ID-Version‡: 15285388-1

Sample Layers	Asbestos Content
Beige Mastic	ND
Sample Composite Homogeneity:	Moderate

Location: 06C, Tan cove base mastic, classroom 1635 at entry Lab ID-Version‡: 15285389-1

Sample Layers	Asbestos Content
Beige Mastic	ND
White Joint Compound with Paint	ND
Sample Composite Homogeneity:	Moderate

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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ASBESTOS PLM REPORT

Location: 06D, Tan cove base mastic, room 1645 at entry Lab ID-Version‡: 15285390-1

Sample Layers	Asbestos Content
Beige Mastic	ND
Sample Composite Homogeneity:	Moderate

Location: 06E, Tan cove base mastic, room 1638 at entry Lab ID-Version‡: 15285391-1

Sample Layers	Asbestos Content
Tan Baseboard	ND
Beige Mastic	ND
Sample Composite Homogeneity:	Moderate

Location: 07A, 12" VFT, white and mastic, classroom 1625 at damaged tile by entry Lab ID-Version‡: 15285392-1

Sample Layers	Asbestos Content
White Floor Tile	ND
Sample Composite Homogeneity:	Moderate

Comments: Mastic was not detected

Location: 07B, 12" VFT, white and mastic, room 1626 at entry Lab ID-Version‡: 15285393-1

Sample Layers	Asbestos Content
White Floor Tile	ND
Semi-Transparent Mastic	ND
Sample Composite Homogeneity:	Moderate

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ASBESTOS PLM REPORT

Location: 07C, 12" VFT, white and mastic, entry to 1640 Lab ID-Version‡: 15285394-1

Sample Layers	Asbestos Content
White Floor Tile	ND
Semi-Transparent Mastic	ND
Sample Composite Homogeneity:	Moderate

Location: 07D, 12" VFT, white and mastic, classroom 1645 at entry Lab ID-Version‡: 15285395-1

Sample Layers	Asbestos Content
White Floor Tile	ND
White Leveling Compound	ND
Sample Composite Homogeneity:	Moderate

Comments: Mastic was not detected

Location: 08A, 9" VFT, green/brown streaks and black mastic, classroom 1633 Lab ID-Version‡: 15285396-1

Sample Layers	Asbestos Content
Beige Floor Tile	< 1% Chrysotile
Black Mastic	3% Chrysotile
Yellow Mastic	ND
Sample Composite Homogeneity:	Poor

Location: 08B, 9" VFT, green/brown streaks and black mastic, room 1633 at West wall Lab ID-Version‡: 15285397-1

Sample Layers	Asbestos Content
Beige Floor Tile	< 1% Chrysotile
Sample Composite Homogeneity:	Poor

Comments: Mastic was not detected

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ASBESTOS PLM REPORT

Location: 09A, 9" VFT, brown streaks and black mastic, patch, classroom 1633 Lab ID-Version‡: 15285398-1

Sample Layers	Asbestos Content
Gray Floor Tile	ND
Black Mastic	3% Chrysotile
Sample Composite Homogeneity:	Moderate

Location: 10A, 9" VFT, beige and black mastic, classroom 1613 Lab ID-Version‡: 15285399-1

Sample Layers	Asbestos Content
Off-White Floor Tile	< 1% Chrysotile
Black Mastic	3% Chrysotile
Sample Composite Homogeneity:	Moderate

Location: 10B, 9" VFT, beige and black mastic, classroom 1610 at West side Lab ID-Version‡: 15285400-1

Sample Layers	Asbestos Content
Off-White Floor Tile	< 1% Chrysotile
Black Mastic	3% Chrysotile
Yellow Mastic	ND
Sample Composite Homogeneity:	Moderate

Location: 10C, 9" VFT, beige and black mastic, classroom 1610 closet by hair station Lab ID-Version‡: 15285401-1

Sample Layers	Asbestos Content
Off-White Floor Tile	< 1% Chrysotile
Black Mastic	3% Chrysotile
Yellow Mastic	ND
Sample Composite Homogeneity:	Moderate

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ASBESTOS PLM REPORT

Location: 11A, Yellow carpet glue, gray tile with lines, classroom 1635 in storage Lab ID-Version‡: 15285402-1

Sample Layers	Asbestos Content
Yellow Mastic with Grey Cementitious Material	ND
Sample Composite Homogeneity:	Moderate

Comments: Sample layers inseparable without cross contamination.

Location: 11B, Yellow carpet glue, gray tile with lines, classroom 1638 Lab ID-Version‡: 15285403-1

Sample Layers	Asbestos Content
Yellow Mastic with Grey Cementitious Material	ND
Sample Composite Homogeneity:	Moderate

Comments: Sample layers inseparable without cross contamination.

Location: 11C, Yellow carpet glue, gray tile with lines, office 1644 at damage Lab ID-Version‡: 15285404-1

Sample Layers	Asbestos Content
Yellow Mastic	ND
Multicolored Carpet	ND
Composite Non-Asbestos Content:	97% Synthetic Fibers
Sample Composite Homogeneity:	Moderate

Location: 12A, Yellow carpet glue, blue/gray/pink carpet, room 1640 Lab ID-Version‡: 15285405-1

Sample Layers	Asbestos Content
Yellow Glue	ND
Sample Composite Homogeneity:	Moderate

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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ASBESTOS PLM REPORT

Location: 12B, Yellow carpet glue, blue/gray/pink carpet, office 1620 at entry Lab ID-Version‡: 15285406-1

Sample Layers	Asbestos Content
Yellow Glue	ND
Multicolored Carpet	ND
Composite Non-Asbestos Content:	60% Synthetic Fibers
Sample Composite Homogeneity:	Moderate

Location: 13A, Yellow carpet glue, gray/blue carpet tiles, office 1643 at entry Lab ID-Version‡: 15285407-1

Sample Layers	Asbestos Content
Yellow Glue	ND
Sample Composite Homogeneity:	Moderate

Location: 13B, Yellow carpet glue, gray/blue carpet tiles, office 1622 at entry Lab ID-Version‡: 15285408-1

Sample Layers	Asbestos Content
Beige Mastic	ND
Sample Composite Homogeneity:	Moderate

Location: 14A, Brown grout associated with 2" tile, staff restroom at entry Lab ID-Version‡: 15285409-1

Sample Layers	Asbestos Content
Brown Grout	ND
Sample Composite Homogeneity:	Moderate

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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ASBESTOS PLM REPORT

Location: 14B, Brown grout associated with 2" tile, studen gender neutral restroom Lab ID-Version‡: 15285410-1

Sample Layers	Asbestos Content
Brown Grout	ND
White Ceramic Tile with Yellow Mastic	ND
Sample Composite Homogeneity:	Moderate

Comments: Some layers in the sample were inseparable without cross contamination.

Location: 15A, White grout associated with 2" tiles, staff restroom walls Lab ID-Version‡: 15285411-1

Sample Layers	Asbestos Content
Beige Grout	ND
Sample Composite Homogeneity:	Moderate

Location: 16A, Gray/brown grout associated with 2" brown tiles, 1628 restroom Lab ID-Version‡: 15285412-1

Sample Layers	Asbestos Content
Gray Grout	ND
Sample Composite Homogeneity:	Moderate

Location: 17A, 2" ceramic tile mortar, staff restroom floor Lab ID-Version‡: 15285413-1

Sample Layers	Asbestos Content
Brown Mortar	ND
White Ceramic Tile	ND
Sample Composite Homogeneity:	Moderate

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ASBESTOS PLM REPORT

Location: 18A, 4" ceramic tile grout, white, 1630 restroom walls Lab ID-Version‡: 15285414-1

Sample Layers	Asbestos Content
White Grout	ND
Sample Composite Homogeneity:	Moderate

Location: 18B, 4" ceramic tile grout, white, 1628 restroom walls Lab ID-Version‡: 15285415-1

Sample Layers	Asbestos Content
White Grout	ND
Sample Composite Homogeneity:	Moderate

Location: 18C, 4" ceramic tile grout, white, 1616 restroom, classroom 1610 Lab ID-Version‡: 15285416-1

Sample Layers	Asbestos Content
White Grout	ND
Sample Composite Homogeneity:	Moderate

Location: 19A, Dark gray grout associated with gray/pink tile, 1613 restroom Lab ID-Version‡: 15285417-1

Sample Layers	Asbestos Content
Gray Non-Fibrous Material	3% Chrysotile
Sample Composite Homogeneity:	Moderate

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Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 23-017; Solano Community College Dist, Solano Community College Bldg 1600

Date of Sampling: 02-07-2023
Date of Receipt: 02-08-2023
Date of Report: 02-13-2023

ASBESTOS PLM REPORT

Location: 19B, Dark gray grout associated with gray/pink tile, 1630 restroom Lab ID-Version‡: 15285418-1

Sample Layers	Asbestos Content
Gray Grout	ND
Sample Composite Homogeneity:	Moderate

Location: 20A, Black moisture barrier, staff restroom at damaged tile by drain Lab ID-Version‡: 15285419-1

Sample Layers	Asbestos Content
Gray Cementitious Material	ND
Sample Composite Homogeneity:	Moderate

Location: 21A, Brown cove base mastic, classroom 1610 Lab ID-Version‡: 15285420-1

Sample Layers	Asbestos Content
Brown Mastic	ND
Sample Composite Homogeneity:	Moderate

Location: 22A, Wallpaper glue, classroom 1610 at window Lab ID-Version‡: 15285421-1

Sample Layers	Asbestos Content
White Glue	ND
Tan Wallpaper	ND
Composite Non-Asbestos Content:	20% Synthetic Fibers
Sample Composite Homogeneity:	Moderate

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ASBESTOS PLM REPORT

Location: 23A, Gray concrete floor, 1658 mechanical room near entry Lab ID-Version‡: 15285422-1

Sample Layers	Asbestos Content
Gray Concrete	ND
Sample Composite Homogeneity:	Moderate

Location: 23B, Gray concrete floor, janitor closet by crack Lab ID-Version‡: 15285423-1

Sample Layers	Asbestos Content
Gray Concrete	ND
Sample Composite Homogeneity:	Moderate

Location: 24A, Accordion partition wall classroom 1610 Lab ID-Version‡: 15285424-1

Sample Layers	Asbestos Content
Beige Wallpaper	ND
Brown Paper	ND
Composite Non-Asbestos Content:	95% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 25A, White door frame sealant, interior classroom 1633 Lab ID-Version‡: 15285425-1

Sample Layers	Asbestos Content
White Sealant	ND
Sample Composite Homogeneity:	Moderate

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ASBESTOS PLM REPORT

Location: 26A, Brown window frame sealant, interior window of 1625 Lab ID-Version‡: 15285426-1

Sample Layers	Asbestos Content
Brown Sealant	< 1% Chrysotile
Sample Composite Homogeneity:	Moderate

Location: 26B, Brown window frame sealant, 1616 restroom at window, classroom 1610

Lab ID-Version‡: 15285427-1

Sample Layers	Asbestos Content
Brown Sealant	< 1% Chrysotile
Sample Composite Homogeneity:	Moderate

Location: 26C, Brown window frame sealant, classroom 1638 Lab ID-Version‡: 15285428-1

Sample Layers	Asbestos Content
Brown Sealant	< 1% Chrysotile
Sample Composite Homogeneity:	Moderate

Location: 27A, Gray sink coating, classroom 1645 Lab ID-Version‡: 15285429-1

Sample Layers	Asbestos Content
Gray Sink Undercoating	ND
Composite Non-Asbestos Content:	2% Cellulose
Sample Composite Homogeneity:	Moderate

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ASBESTOS PLM REPORT

Location: 28A, White fixture sealant, 1628 restroom at sink Lab ID-Version‡: 15285430-1

Sample Layers	Asbestos Content
White Sealant	ND
Sample Composite Homogeneity:	Moderate

Location: 28B, White fixture sealant, staff restroom at sink Lab ID-Version‡: 15285431-1

Sample Layers	Asbestos Content
White Sealant	ND
Sample Composite Homogeneity:	Moderate

Location: 29A, Yellow glue associated with yellow countertop, classroom 1610 reception area Lab ID-Version‡: 15285432-1

Sample Layers	Asbestos Content
Yellow Glue with Yellow Tile	ND
Sample Composite Homogeneity:	Moderate

Comments: Sample layers inseparable without cross contamination.

Location: 30A, Stucco, exterior 1600, at South end by entry Lab ID-Version‡: 15285433-1

Sample Layers	Asbestos Content
Gray Stucco with Paint	ND
Sample Composite Homogeneity:	Moderate

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ASBESTOS PLM REPORT

Location: 30B, Stucco, exterior 1600, near classroom 1635 Lab ID-Version‡: 15285434-1

Sample Layers	Asbestos Content
Brown Stucco with Paint	ND
Sample Composite Homogeneity:	Moderate

Location: 30C, Stucco, exterior 1600, near classroom 1625 Lab ID-Version‡: 15285435-1

Sample Layers	Asbestos Content
Brown Stucco with Paint	ND
Sample Composite Homogeneity:	Moderate

Location: 30D, Stucco, exterior 1600, East side near 1610 Lab ID-Version‡: 15285436-1

Sample Layers	Asbestos Content
Brown Stucco with Paint	ND
Sample Composite Homogeneity:	Moderate

Location: 30E, Stucco, exterior 1600, near 1646 Lab ID-Version‡: 15285437-1

Sample Layers	Asbestos Content
Brown Stucco with Paint	ND
Sample Composite Homogeneity:	Moderate

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ASBESTOS PLM REPORT

Location: 30F, Stucco, exterior North side 1645 Lab ID-Version‡: 15285438-1

Sample Layers	Asbestos Content
Brown Stucco with Paint	ND
Sample Composite Homogeneity:	Moderate

Location: 30G, Stucco, exterior South side of gazebo Lab ID-Version‡: 15285439-1

Sample Layers	Asbestos Content
Brown Stucco with Paint	ND
Sample Composite Homogeneity:	Moderate

Location: 31A, Brown window putty, exterior window 1625 Lab ID-Version‡: 15285440-1

Sample Layers	Asbestos Content
Tan Window Putty	< 1% Chrysotile
Sample Composite Homogeneity:	Moderate

Location: 31B, Brown window putty, exterior, North side by room 1625 Lab ID-Version‡: 15285441-1

Sample Layers	Asbestos Content
Tan Window Putty	< 1% Chrysotile
Sample Composite Homogeneity:	Moderate

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ASBESTOS PLM REPORT

Location: 32A, Gray/black concrete expansion joint at window, exterior West wall Lab ID-Version‡: 15285442-1

Sample Layers	Asbestos Content
Brown Expansion Joint	2% Chrysotile
Sample Composite Homogeneity:	Moderate

Location: 32B, Gray/black concrete expansion joint at window, exterior main entry at South end Lab ID-Version‡: 15285443-1

Sample Layers	Asbestos Content
Gray Expansion Joint	ND
Sample Composite Homogeneity:	Moderate

Location: 32C, Gray/black concrete expansion joint at window, exterior North wall at West end Lab ID-Version‡: 15285444-1

Sample Layers	Asbestos Content
Gray Expansion Joint	ND
Sample Composite Homogeneity:	Moderate

Location: 33A, Brown expansion joint at ground, exterior near 1646 Lab ID-Version‡: 15285445-1

Sample Layers	Asbestos Content
Brown Expansion Joint	ND
Composite Non-Asbestos Content:	90% Cellulose
Sample Composite Homogeneity:	Moderate

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ASBESTOS PLM REPORT

Location: 34A, Red flange gasket, mechanical room 1658 Lab ID-Version‡: 15285446-1

Sample Layers	Asbestos Content
Red Gasket	ND
Sample Composite Homogeneity:	Moderate

Location: 35A, Black flange gasket, mechanical room 1658 Lab ID-Version‡: 15285447-1

Sample Layers	Asbestos Content
Black Gasket	ND
Sample Composite Homogeneity:	Moderate

Location: 36A, White sealant on paperwrap joint TSI, mechanical room 1658 Lab ID-Version‡: 15285448-1

Sample Layers	Asbestos Content
White Sealant	ND
Sample Composite Homogeneity:	Moderate

Location: 36B, White sealant on paperwrap joint TSI, mechanical room 1658 Lab ID-Version‡: 15285449-1

Sample Layers	Asbestos Content
White Sealant	ND
Sample Composite Homogeneity:	Moderate

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ASBESTOS PLM REPORT

Location: 36C, White sealant on paperwrap joint TSI, mechanical room 1658 Lab ID-Version‡: 15285450-1

Sample Layers	Asbestos Content
White Sealant	ND
Sample Composite Homogeneity:	Moderate

Location: 37A, Tape on paperwrap fiberglass TSI, mechanical room 1658 Lab ID-Version‡: 15285451-1

Sample Layers	Asbestos Content
Silver Tape	ND
Composite Non-Asbestos Content:	90% Cellulose 3% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 37B, Tape on paperwrap fiberglass TSI, mechanical room 1658 Lab ID-Version‡: 15285452-1

Sample Layers	Asbestos Content
Silver Tape	ND
Composite Non-Asbestos Content:	90% Cellulose 3% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 37C, Tape on paperwrap fiberglass TSI, attic at center of corridor Lab ID-Version‡: 15285453-1

Sample Layers	Asbestos Content
Silver Tape	ND
Yellow Fibrous Material (Mesh)	ND
Composite Non-Asbestos Content:	90% Cellulose 10% Glass Fibers
Sample Composite Homogeneity:	Moderate

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ASBESTOS PLM REPORT

Location: 38A, White duct seam tape, attic of corridor, North end Lab ID-Version‡: 15285454-1

Sample Layers	Asbestos Content
White Tape	ND
Composite Non-Asbestos Content:	70% Synthetic Fibers
Sample Composite Homogeneity:	Moderate

Location: 38B, White duct seam tape, attic of corridor at center Lab ID-Version‡: 15285455-1

Sample Layers	Asbestos Content
White Tape	ND
Composite Non-Asbestos Content:	70% Synthetic Fibers
Sample Composite Homogeneity:	Moderate

Location: 38C, White duct seam tape, attic of corridor at South end Lab ID-Version‡: 15285456-1

Sample Layers	Asbestos Content
White Tape	ND
Composite Non-Asbestos Content:	70% Synthetic Fibers
Sample Composite Homogeneity:	Moderate

Location: 39A, Canvas wrap TSI, attic, North end of corridor Lab ID-Version‡: 15285457-1

Sample Layers	Asbestos Content
White Fibrous Material (Mesh)	ND
White Insulation	3% Chrysotile
Composite Non-Asbestos Content:	95% Synthetic Fibers
Sample Composite Homogeneity:	Moderate

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ASBESTOS PLM REPORT

Location: 39B, Canvas wrap TSI, attic, North end of corridor Lab ID-Version‡: 15285458-1

Sample Layers	Asbestos Content
White Insulation	10% Chrysotile
Sample Composite Homogeneity:	Moderate

Location: 39C, Canvas wrap TSI, attic, South end of corridor Lab ID-Version‡: 15285459-1

Sample Layers	Asbestos Content
White Insulation	10% Chrysotile
Sample Composite Homogeneity:	Moderate

Location: 39D, Canvas wrap TSI, attic space of corridor Lab ID-Version‡: 15285460-1

Sample Layers	Asbestos Content
White Insulation	10% Chrysotile
Sample Composite Homogeneity:	Moderate

Location: 40A, Brown door frame sealant, exterior South side door near 1625 Lab ID-Version‡: 15285461-1

Sample Layers	Asbestos Content
Brown Sealant	< 1% Chrysotile
Sample Composite Homogeneity:	Moderate

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ASBESTOS PLM REPORT

Location: 40B, Brown door frame sealant, exterior Norh side Lab ID-Version‡: 15285462-1

Sample Layers	Asbestos Content
Brown Sealant	< 1% Chrysotile
Sample Composite Homogeneity:	Moderate

Location: 41A, Black moisture barrier, classroom 1638 at window Lab ID-Version‡: 15285463-1

Sample Layers	Asbestos Content
Black Vapor Barrier	ND
Composite Non-Asbestos Content:	60% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 42A, Red tile mortar, North end of roof Lab ID-Version‡: 15285464-1

Sample Layers	Asbestos Content
Red Tile	ND
Sample Composite Homogeneity:	Moderate

Location: 42B, Red tile mortar, South side of roof Lab ID-Version‡: 15285465-1

Sample Layers	Asbestos Content
Red Tile	ND
Sample Composite Homogeneity:	Moderate

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ASBESTOS PLM REPORT

Location: 42C, Red tile mortar, East side of roof Lab ID-Version‡: 15285466-1

Sample Layers	Asbestos Content
Red Tile	ND
Sample Composite Homogeneity:	Moderate

Location: 43A, Red tile seam sealant, upper roof East side Lab ID-Version‡: 15285467-1

Sample Layers	Asbestos Content
Red Tile	ND
Red Sealant	2% Chrysotile
Sample Composite Homogeneity:	Moderate

Location: 43B, Red tile seam sealant, lower roof East side Lab ID-Version‡: 15285468-1

Sample Layers	Asbestos Content
Red Tile	ND
Red Sealant	2% Chrysotile
Sample Composite Homogeneity:	Moderate

Location: 43C, Red tile seam sealant, upper roof North side Lab ID-Version‡: 15285469-1

Sample Layers	Asbestos Content
Red Sealant	2% Chrysotile
Sample Composite Homogeneity:	Moderate

Comments: No tile was detected.

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ASBESTOS PLM REPORT

Location: 44A, White vibration dampener, upper roof at damage Lab ID-Version‡: 15285470-1

Sample Layers	Asbestos Content
White Semi-Fibrous Material	ND
Composite Non-Asbestos Content:	5% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 45A, Silver paint, upper roof at access hatch Lab ID-Version‡: 15285471-1

Sample Layers	Asbestos Content
Silver Paint	ND
Sample Composite Homogeneity:	Moderate

Location: 46A, White painted black penetration mastic, upper roof, roof vent Lab ID-Version‡: 15285472-1

Sample Layers	Asbestos Content
White Paint and Black Mastic	ND
Sample Composite Homogeneity:	Moderate

Comments: Sample layers inseparable without cross contamination.

Location: 46B, White painted black penetration mastic, middle roof, roof vent Lab ID-Version‡: 15285473-1

Sample Layers	Asbestos Content
White Paint and Black Mastic	ND
Sample Composite Homogeneity:	Moderate

Comments: Sample layers inseparable without cross contamination.

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ASBESTOS PLM REPORT

Location: 47A, Black coating on roof flashing, upper roof, South side Lab ID-Version‡: 15285474-1

Sample Layers	Asbestos Content
Black Coating	ND
Sample Composite Homogeneity:	Moderate

Location: 48A, Gray sealant at top of brick, roof, Norhwest corner Lab ID-Version‡: 15285475-1

Sample Layers	Asbestos Content
Gray Sealant with Red Cementitious Material	ND
Sample Composite Homogeneity:	Moderate

Comments: Sample layers inseparable without cross contamination.

Location: 48B, Gray sealant at top of brick, Norhwest corner Lab ID-Version‡: 15285476-1

Sample Layers	Asbestos Content
Gray Sealant with Red Cementitious Material	ND
Sample Composite Homogeneity:	Moderate

Comments: Sample layers inseparable without cross contamination.

Location: 49A, White sealant on roof ladder Lab ID-Version‡: 15285477-1

Sample Layers	Asbestos Content
White Sealant	ND
Sample Composite Homogeneity:	Moderate

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Eurofins EPK Built Environment Testing, LLC
750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016
(866) 888-6653 www.eurofinsus.com/Built

Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 23-017; Solano Community College Dist, Solano Community College Bldg 1600

Date of Sampling: 02-07-2023
Date of Receipt: 02-08-2023
Date of Report: 02-13-2023

ASBESTOS PLM REPORT

Location: 50A, Gray seam sealant, upper roof at HVAC ducting Lab ID-Version‡: 15285355-1

Sample Layers	Asbestos Content
Gray Sealant	ND
Black Mastic	ND
Sample Composite Homogeneity:	Moderate

Location: 50B, Gray seam sealant, upper roof at HVAC ducting Lab ID-Version‡: 15285356-1

Sample Layers	Asbestos Content
Gray Sealant	ND
Sample Composite Homogeneity:	Moderate

Location: 50C, Gray seam sealant, upper roof at HVAC ducting Lab ID-Version‡: 15285357-1

Sample Layers	Asbestos Content
Gray Sealant	ND
Sample Composite Homogeneity:	Moderate

Location: 51A, White PVC roofing, middle roof, Southeast corner Lab ID-Version‡: 15285358-1

Sample Layers	Asbestos Content
White Roofing Material	ND
Composite Non-Asbestos Content:	4% Glass Fibers
Sample Composite Homogeneity:	Moderate

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 23-017; Solano Community College Dist, Solano Community College Bldg 1600

Date of Sampling: 02-07-2023
Date of Receipt: 02-08-2023
Date of Report: 02-13-2023

ASBESTOS PLM REPORT

Location: 51B, White PVC roofing, middle roof, Northwest corner Lab ID-Version‡: 15285359-1

Sample Layers	Asbestos Content
White Roofing Material	ND
Composite Non-Asbestos Content:	4% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 51C, White PVC roofing, upper roof, near center Lab ID-Version‡: 15285360-1

Sample Layers	Asbestos Content
White Roofing Material	ND
Composite Non-Asbestos Content:	4% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 51D, White PVC roofing, middle roof at center Lab ID-Version‡: 15285361-1

Sample Layers	Asbestos Content
White Roofing Material	ND
Composite Non-Asbestos Content:	4% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 51E, White PVC roofing, lower roof at Southwest corner Lab ID-Version‡: 15285362-1

Sample Layers	Asbestos Content
White Roofing Material	ND
Composite Non-Asbestos Content:	4% Glass Fibers
Sample Composite Homogeneity:	Moderate

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 23-017; Solano Community College Dist, Solano Community College Bldg 1600

Date of Sampling: 02-07-2023
Date of Receipt: 02-08-2023
Date of Report: 02-13-2023

ASBESTOS PLM REPORT

Location: 52A, Black pipe penetration mastic, lower roof at pipe/vent Lab ID-Version‡: 15285363-1

Sample Layers	Asbestos Content
Black Mastic	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 53A, Clear vapor barrier, upper roof at red clay tiles Lab ID-Version‡: 15285364-1

Sample Layers	Asbestos Content
Transparent Non-Fibrous Material	ND
Sample Composite Homogeneity:	Moderate

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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eurofins | Built Environment Testing

Report for:

Shannon Johanson
PMP Environmental Consulting
5325 Elkhorn Blvd #360
5325 Elkhorn Blvd, #360
Sacramento, CA 95842

Regarding: Eurofins EPK Built Environment Testing, LLC
Project: 23-132B; Solano Community College, Solano College-Building 700
EML ID: 3472075

Approved by:

Approved Signatory
Marisa Braziel

Dates of Analysis:
Asbestos PLM: 12-08-2023

Service SOPs: Asbestos PLM (EPA 40CFR App E to Sub E of Part 763 & EPA METHOD 600/R-93-116, SOP EM-AS-S-1267)
NVLAP Lab Code 600266-0

Eurofins EPK Built Environment Testing, LLC
19515 North Creek Pkwy N, #100, Bothell, WA 98011
(800) 651-4802 www.eurofinsus.com/Built

Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 23-132B; Solano Community College, Solano College-Building 700

Date of Sampling: 11-28-2023
Date of Receipt: 12-05-2023
Date of Report: 12-08-2023

ASBESTOS PLM REPORT

Total Samples Submitted:	53
Total Samples Analyzed:	53
Total Samples with Layer Asbestos Content > 1%:	5

Location: 01A, 12" VFT, Yellow and Mastic, Building 700, Corridor 743-745 Lab ID-Version‡: 16923704-1

Sample Layers	Asbestos Content
Yellow Floor Tile	ND
Brown Mastic	ND
Composite Non-Asbestos Content:	2% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 01B, 12" VFT, Yellow and Mastic, Building 700, Corridor Near 741 at Broken Tile Lab ID-Version‡: 16923705-1

Sample Layers	Asbestos Content
Yellow Floor Tile	ND
Brown Mastic	ND
Composite Non-Asbestos Content:	2% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 01C, 12" VFT, Yellow and Mastic, Building 700, Corridor Near Restrooms Lab ID-Version‡: 16923706-1

Sample Layers	Asbestos Content
Yellow Floor Tile	ND
Brown Mastic	ND
Composite Non-Asbestos Content:	2% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 02A, 12" VFT, Red and Mastic, Building 700, Corridor at 719 Lab ID-Version‡: 16923707-1

Sample Layers	Asbestos Content
Red Floor Tile	ND
Brown Mastic	ND
Composite Non-Asbestos Content:	2% Cellulose
Sample Composite Homogeneity:	Moderate

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 23-132B; Solano Community College, Solano College-Building 700

Date of Sampling: 11-28-2023
Date of Receipt: 12-05-2023
Date of Report: 12-08-2023

ASBESTOS PLM REPORT

Location: 02B, 12" VFT, Red and Mastic, Building 700, Room 729 at Entry Lab ID-Version‡: 16923708-1

Sample Layers	Asbestos Content
Red Floor Tile	ND
Brown Mastic	ND
Composite Non-Asbestos Content:	2% Cellulose
Sample Composite Homogeneity:	Moderate

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 23-132B; Solano Community College, Solano College-Building 700

Date of Sampling: 11-28-2023
Date of Receipt: 12-05-2023
Date of Report: 12-08-2023

ASBESTOS PLM REPORT

Location: 02C, 12" VFT, Red and Mastic, Building 700, Classroom 743 at Entry Lab ID-Version‡: 16923709-1

Sample Layers	Asbestos Content
Red Floor Tile	ND
Brown Mastic	ND
Composite Non-Asbestos Content:	2% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 03A, 12" VFT, Blue and Mastic, Building 700, Classroom 712 Lab ID-Version‡: 16923710-1

Sample Layers	Asbestos Content
Blue Floor Tile	ND
Brown Mastic	ND
Composite Non-Asbestos Content:	2% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 03B, 12" VFT, Blue and Mastic, Building 700, Classroom 713 Lab ID-Version‡: 16923711-1

Sample Layers	Asbestos Content
Blue Floor Tile	ND
Brown Mastic	ND
Composite Non-Asbestos Content:	2% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 03C, 12" VFT, Blue and Mastic, Building 700, Entry to Office 717 Lab ID-Version‡: 16923712-1

Sample Layers	Asbestos Content
Blue Floor Tile	ND
Brown Mastic	ND
Composite Non-Asbestos Content:	2% Cellulose
Sample Composite Homogeneity:	Moderate

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Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 23-132B; Solano Community College, Solano College-Building 700

Date of Sampling: 11-28-2023
Date of Receipt: 12-05-2023
Date of Report: 12-08-2023

ASBESTOS PLM REPORT

Location: 04A, 4" Vinyl Cove Base, Blue and mastic, Building 700, Main Corridor Near Corridor 714-721 Lab ID-Version‡: 16923713-1

Sample Layers	Asbestos Content
Blue Cove Base	ND
White Mastic	ND
Sample Composite Homogeneity:	Moderate

Location: 04B, 4" Vinyl Cove Base, Blue and mastic, Building 700, Classroom 713 Lab ID-Version‡: 16923714-1

Sample Layers	Asbestos Content
Blue Cove Base	ND
White Mastic	ND
Composite Non-Asbestos Content:	2% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 04C, 4" Vinyl Cove Base, Blue and mastic, Building 700, Classroom 743 at Entry Lab ID-Version‡: 16923715-1

Sample Layers	Asbestos Content
Blue Cove Base	ND
White Mastic	ND
Black Mastic	ND
Composite Non-Asbestos Content:	2% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 05A, 2'x4' FCP Pinhole/Gouge, Building 700, North Side of Main Corridor Lab ID-Version‡: 16923716-1

Sample Layers	Asbestos Content
Gray Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	90% Cellulose 2% Glass Fibers
Sample Composite Homogeneity:	Moderate

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 23-132B; Solano Community College, Solano College-Building 700

Date of Sampling: 11-28-2023
Date of Receipt: 12-05-2023
Date of Report: 12-08-2023

ASBESTOS PLM REPORT

Location: 05B, 2'x4' FCP Pinhole/Gouge, Building 700, Classroom 712 Lab ID-Version‡: 16923717-1

Sample Layers	Asbestos Content
Gray Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	90% Cellulose 2% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 05C, 2'x4' FCP Pinhole/Gouge, Building 700, Office 750 Lab ID-Version‡: 16923718-1

Sample Layers	Asbestos Content
Gray Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	90% Cellulose 2% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 05D, 2'x4' FCP Pinhole/Gouge, Building 700, Classroom 714 Lab ID-Version‡: 16923719-1

Sample Layers	Asbestos Content
Gray Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	90% Cellulose 2% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 05E, 2'x4' FCP Pinhole/Gouge, Building 700, Server Room at Corridor Lab ID-Version‡: 16923720-1

Sample Layers	Asbestos Content
Gray Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	90% Cellulose 2% Glass Fibers
Sample Composite Homogeneity:	Moderate

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Client: PMP Environmental Consulting
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Re: 23-132B; Solano Community College, Solano College-Building 700

Date of Sampling: 11-28-2023
Date of Receipt: 12-05-2023
Date of Report: 12-08-2023

ASBESTOS PLM REPORT

Location: 06A, Blue/Purple Rolled Carpet and Mastic, Building 700, Classroom 719 Lab ID-Version‡: 16923721-1

Sample Layers	Asbestos Content
Purple Carpet	ND
Yellow Foam	ND
Brown Mastic	ND
Composite Non-Asbestos Content:	25% Synthetic Fibers 5% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 06B, Blue/Purple Rolled Carpet and Mastic, Building 700, Copy Room 727 Lab ID-Version‡: 16923722-1

Sample Layers	Asbestos Content
Purple Carpet	ND
Yellow Foam	ND
Brown Mastic	ND
Composite Non-Asbestos Content:	25% Synthetic Fibers 5% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 06C, Blue/Purple Rolled Carpet and Mastic and Tile, Building 700, Classroom 743 at Entry Lab ID-Version‡: 16923723-1

Sample Layers	Asbestos Content
Purple Carpet	ND
Yellow Foam	ND
Brown Mastic	ND
Blue Floor Tile	ND
Yellow Mastic	ND
Composite Non-Asbestos Content:	25% Synthetic Fibers 5% Cellulose
Sample Composite Homogeneity:	Poor

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 23-132B; Solano Community College, Solano College-Building 700

Date of Sampling: 11-28-2023
Date of Receipt: 12-05-2023
Date of Report: 12-08-2023

ASBESTOS PLM REPORT

Location: 06D, Blue/Purple Rolled Carpet and Mastic, Building 700, Room 753 at Entry

Lab ID-Version‡: 16923724-1

Sample Layers	Asbestos Content
Purple Carpet	ND
Yellow Foam	ND
Brown Mastic	ND
Composite Non-Asbestos Content:	25% Synthetic Fibers 5% Cellulose
Sample Composite Homogeneity:	Moderate

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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Client: PMP Environmental Consulting
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Re: 23-132B; Solano Community College, Solano College-Building 700

Date of Sampling: 11-28-2023
Date of Receipt: 12-05-2023
Date of Report: 12-08-2023

ASBESTOS PLM REPORT

Location: 07A, Drywall with Wallpaper, Building 700, Corridor East Exit at SW Corner

Lab ID-Version‡: 16923725-1

Sample Layers	Asbestos Content
White Texture	2% Chrysotile
Cream Tape	ND
White Joint Compound	2% Chrysotile
White Drywall with Brown Paper	ND
Composite Asbestos Fibrous Content:	< 1% Asbestos
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Moderate

Comments: Composite asbestos content provided is only for Drywall/Joint compound. Composite content provided for this analysis has been performed by following the NESHAP guidelines.

Location: 07B, Drywall with Wallpaper, Building 700, Near 746

Lab ID-Version‡: 16923726-1

Sample Layers	Asbestos Content
Brown Wallpaper	ND
Composite Non-Asbestos Content:	90% Cellulose
Sample Composite Homogeneity:	Good

Location: 07C, Drywall with Wallpaper, Building 700, Across From 719

Lab ID-Version‡: 16923727-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
Brown Wood	ND
Composite Non-Asbestos Content:	90% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 07D, Drywall with Wallpaper, Building 700, Room 743

Lab ID-Version‡: 16923728-1

Sample Layers	Asbestos Content
Brown Wallpaper	ND
Composite Non-Asbestos Content:	90% Cellulose
Sample Composite Homogeneity:	Good

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 23-132B; Solano Community College, Solano College-Building 700

Date of Sampling: 11-28-2023
Date of Receipt: 12-05-2023
Date of Report: 12-08-2023

ASBESTOS PLM REPORT

Location: 07E, Drywall with Wallpaper, Building 700, Corridor Near 702 Lab ID-Version‡: 16923729-1

Sample Layers	Asbestos Content
Gray Wallpaper with Paint	ND
Composite Non-Asbestos Content:	90% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 08A, Drywall Light Texture, Building 700, Room 731 Lab ID-Version‡: 16923730-1

Sample Layers	Asbestos Content
White Texture with Paint	2% Chrysotile
Cream Tape	ND
White Joint Compound	2% Chrysotile
White Drywall with Brown Paper	ND
Composite Asbestos Fibrous Content:	< 1% Asbestos
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Moderate

Comments: Composite asbestos content provided is only for Drywall/Joint compound. Composite content provided for this analysis has been performed by following the NESHAP guidelines.

Location: 08B, Drywall Light Texture with Joint Compound, Building 700, Staff Room 744 Southeast Corner Lab ID-Version‡: 16923731-1

Sample Layers	Asbestos Content
White Texture with Paint	2% Chrysotile
Cream Tape	ND
White Joint Compound	2% Chrysotile
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 08C, Drywall Light Texture, Field, , Building 700, FACP 741 Lab ID-Version‡: 16923732-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper with Paint	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Good

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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Client: PMP Environmental Consulting
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Re: 23-132B; Solano Community College, Solano College-Building 700

Date of Sampling: 11-28-2023
Date of Receipt: 12-05-2023
Date of Report: 12-08-2023

ASBESTOS PLM REPORT

Location: 08D, Drywall Light Texture, Building 700, Unisex Restroom Lab ID-Version‡: 16923733-1

Sample Layers	Asbestos Content
White Texture with Paint	ND
Cream Tape	ND
White Joint Compound	ND
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 08E, Drywall Light Texture with Joint Compound, , Building 700, Room 751, Southeast Corner Lab ID-Version‡: 16923734-1

Sample Layers	Asbestos Content
White Texture with Paint	2% Chrysotile
Cream Tape	ND
White Joint Compound	2% Chrysotile
White Drywall with Brown Paper	ND
Composite Asbestos Fibrous Content:	< 1% Asbestos
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Moderate

Comments: Composite asbestos content provided is only for Drywall/Joint compound. Composite content provided for this analysis has been performed by following the NESHAP guidelines.

Location: 08F, Drywall Light Texture with Joint Compound, , Building 700, Room 753 at Southwest Corner Lab ID-Version‡: 16923735-1

Sample Layers	Asbestos Content
White Texture with Paint	2% Chrysotile
Cream Tape	ND
White Joint Compound	2% Chrysotile
White Drywall with Brown Paper	ND
Composite Asbestos Fibrous Content:	< 1% Asbestos
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Moderate

Comments: Composite asbestos content provided is only for Drywall/Joint compound. Composite content provided for this analysis has been performed by following the NESHAP guidelines.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 23-132B; Solano Community College, Solano College-Building 700

Date of Sampling: 11-28-2023
Date of Receipt: 12-05-2023
Date of Report: 12-08-2023

ASBESTOS PLM REPORT

Location: 08G, Drywall Light Texture, Field, Building 700, Custodial 711 Lab ID-Version‡: 16923736-1

Sample Layers	Asbestos Content
White Joint Compound with Paint	ND
White Drywall	ND
Composite Non-Asbestos Content:	2% Cellulose
Sample Composite Homogeneity:	Moderate

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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Client: PMP Environmental Consulting
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ASBESTOS PLM REPORT

Location: 10A, White Joint Tape on Fiberglass TSI, Building 700, Mech 742, Hot Water Lines

Lab ID-Version‡: 16923737-1

Sample Layers	Asbestos Content
White Tape	ND
Composite Non-Asbestos Content:	90% Cellulose
Sample Composite Homogeneity:	Good

Location: 10B, White Joint Tape on Fiberglass TSI, Building 700, Mech 742, Cold Water Lines

Lab ID-Version‡: 16923738-1

Sample Layers	Asbestos Content
White Tar	ND
Composite Non-Asbestos Content:	90% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 11A, 4" Beige Ceramic Tile Grout, Building 700, Unisex Restroom 1, South Wall

Lab ID-Version‡: 16923739-1

Sample Layers	Asbestos Content
Beige Grout	ND
Composite Non-Asbestos Content:	2% Cellulose
Sample Composite Homogeneity:	Good

Location: 11B, 4" Beige Ceramic Tile Grout, Building 700, Women's Restroom, East Wall at Corner

Lab ID-Version‡: 16923740-1

Sample Layers	Asbestos Content
Beige Grout	ND
Composite Non-Asbestos Content:	2% Cellulose
Sample Composite Homogeneity:	Good

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins EPK Built Environment Testing, LLC
19515 North Creek Pkwy N, #100, Bothell, WA 98011
(800) 651-4802 www.eurofinsus.com/Built

Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 23-132B; Solano Community College, Solano College-Building 700

Date of Sampling: 11-28-2023
Date of Receipt: 12-05-2023
Date of Report: 12-08-2023

ASBESTOS PLM REPORT

Location: 11C, 4" Beige Ceramic Tile Grout, Building 700, Men's Restroom Wall Lab ID-Version‡: 16923741-1

Sample Layers	Asbestos Content
Beige Grout	ND
Composite Non-Asbestos Content:	2% Cellulose
Sample Composite Homogeneity:	Good

Location: 12A, 2" Brown Ceramic Floor Tile Grout, Building 700, Unisex Restroom 1 Lab ID-Version‡: 16923742-1

Sample Layers	Asbestos Content
Brown Grout	ND
Composite Non-Asbestos Content:	2% Cellulose
Sample Composite Homogeneity:	Good

Location: 12B, 2" Brown Ceramic Floor Tile Grout, Building 700, Women's Restroom at Drain Lab ID-Version‡: 16923743-1

Sample Layers	Asbestos Content
Brown Grout	ND
Composite Non-Asbestos Content:	2% Cellulose
Sample Composite Homogeneity:	Good

Location: 13A, 2" Brown Ceramic Floor Tile Mortar, Building 700, Unisex Restroom 2 at Drain Lab ID-Version‡: 16923744-1

Sample Layers	Asbestos Content
Brown Mortar	ND
Composite Non-Asbestos Content:	2% Cellulose
Sample Composite Homogeneity:	Good

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 23-132B; Solano Community College, Solano College-Building 700

Date of Sampling: 11-28-2023
Date of Receipt: 12-05-2023
Date of Report: 12-08-2023

ASBESTOS PLM REPORT

Location: 13B, 2" Brown Ceramic Floor Tile Mortar, Building 700, Women's Restroom at Broken Tile

Lab ID-Version‡: 16923745-1

Sample Layers	Asbestos Content
Brown Mortar	ND
Composite Non-Asbestos Content:	2% Cellulose
Sample Composite Homogeneity:	Good

Location: 14A, White Joint Compound on Fiberglass TSI, Building 700, Mech 742 at Hot Water Lines

Lab ID-Version‡: 16923746-1

Sample Layers	Asbestos Content
White Joint Compound with Paint	ND
Beige Insulation (Mesh)	ND
Composite Non-Asbestos Content:	25% Synthetic Fibers 2% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 14B, White Joint Compound on Fiberglass TSI, Building 700, Mech 742 at Cold Water Lines

Lab ID-Version‡: 16923747-1

Sample Layers	Asbestos Content
White Joint Compound with Paint	ND
Beige Insulation (Mesh)	ND
Composite Non-Asbestos Content:	25% Synthetic Fibers 2% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 14C, White Joint Compound on Fiberglass TSI, Building 700, 742 Mech at Hot Water Lines

Lab ID-Version‡: 16923748-1

Sample Layers	Asbestos Content
Beige Insulation	ND
Composite Non-Asbestos Content:	25% Synthetic Fibers 2% Cellulose
Sample Composite Homogeneity:	Moderate

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Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 23-132B; Solano Community College, Solano College-Building 700

Date of Sampling: 11-28-2023
Date of Receipt: 12-05-2023
Date of Report: 12-08-2023

ASBESTOS PLM REPORT

Location: 15A, Gray Window Putty, Building 700, Classroom 702 Lab ID-Version‡: 16923749-1

Sample Layers	Asbestos Content
Gray Window Putty	< 1% Chrysotile
Sample Composite Homogeneity:	Good

Location: 15B, Gray Window Putty, Building 700 at Classroom 701 Lab ID-Version‡: 16923750-1

Sample Layers	Asbestos Content
Gray Window Putty	< 1% Chrysotile
Sample Composite Homogeneity:	Good

Location: 15C, Gray Window Putty, Building 700, Office 730 Lab ID-Version‡: 16923751-1

Sample Layers	Asbestos Content
Gray Window Putty	< 1% Chrysotile
Sample Composite Homogeneity:	Good

Location: 16A, Clear Silicone, Building 700, Men's Restroom at Sink Lab ID-Version‡: 16923752-1

Sample Layers	Asbestos Content
Transparent Non-Fibrous Material	ND
Sample Composite Homogeneity:	Good

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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19515 North Creek Pkwy N, #100, Bothell, WA 98011
(800) 651-4802 www.eurofinsus.com/Built

Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 23-132B; Solano Community College, Solano College-Building 700

Date of Sampling: 11-28-2023
Date of Receipt: 12-05-2023
Date of Report: 12-08-2023

ASBESTOS PLM REPORT

Location: 16B, Clear Silicone, Building 700, Women's Restroom at Sink Lab ID-Version‡: 16923753-1

Sample Layers	Asbestos Content
Transparent Non-Fibrous Material	ND
Sample Composite Homogeneity:	Good

Location: 17A, Dark Gray Expansion Joint Sealant, Building 700 at Office 743 Lab ID-Version‡: 16923754-1

Sample Layers	Asbestos Content
Dark Gray Expansion Joint Sealant	ND
Sample Composite Homogeneity:	Good

Location: 17B, Dark Gray Expansion Joint Sealant, Building 700 at Office 750 Lab ID-Version‡: 16923755-1

Sample Layers	Asbestos Content
Dark Gray Expansion Joint Sealant	ND
Sample Composite Homogeneity:	Good

Location: 17C, Dark Gray Expansion Joint Sealant, Building 700 at Office 731 Lab ID-Version‡: 16923756-1

Sample Layers	Asbestos Content
Dark Gray Expansion Joint Sealant	ND
Sample Composite Homogeneity:	Good

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

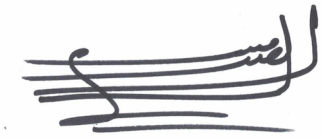
eurofins | Built Environment Testing

Report for:

Shannon Johanson
PMP Environmental Consulting
5325 Elkhorn Blvd #360
5325 Elkhorn Blvd, #360
Sacramento, CA 95842

Regarding: Eurofins EPK Built Environment Testing, LLC
Project: 23-132A; Solano College Building 500
EML ID: 3476364

Approved by:



Approved Signatory
Amin Suliman

Dates of Analysis:
Asbestos PLM: 12-11-2023

Service SOPs: Asbestos PLM (EPA 40CFR App E to Sub E of Part 763 & EPA METHOD 600/R-93-116, SOP EM-AS-S-1267)
NVLAP Lab Code 200728-0

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the samples as received and tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

Eurofins EPK Built Environment Testing, LLC
111 Anza Boulevard, Suite 122, Burlingame, CA 94010
(800) 651-4802 www.eurofinsus.com/Built

Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 23-132A; Solano College Building 500

Date of Sampling: 12-05-2023
Date of Receipt: 12-08-2023
Date of Report: 12-11-2023

ASBESTOS PLM REPORT

Total Samples Submitted:	6
Total Samples Analyzed:	6
Total Samples with Layer Asbestos Content > 1%:	0

Location: 26A, Stucco Building 500, Exterior South Side Lab ID-Version‡: 16946779-1

Sample Layers	Asbestos Content
Tan Stucco	ND
Sample Composite Homogeneity:	Good

Location: 26B, Stucco Building 500, Exterior Southeast Corner Lab ID-Version‡: 16946780-1

Sample Layers	Asbestos Content
Tan Stucco	ND
Sample Composite Homogeneity:	Good

Location: 26C, Stucco Building 500, Exterior East Side Lab ID-Version‡: 16946781-1

Sample Layers	Asbestos Content
Tan Stucco	ND
Sample Composite Homogeneity:	Good

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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111 Anza Boulevard, Suite 122, Burlingame, CA 94010
(800) 651-4802 www.eurofinsus.com/Built

Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 23-132A; Solano College Building 500

Date of Sampling: 12-05-2023
Date of Receipt: 12-08-2023
Date of Report: 12-11-2023

ASBESTOS PLM REPORT

Location: 26D, Stucco Building 500, Exterior North Side Lab ID-Version‡: 16946782-1

Sample Layers	Asbestos Content
Tan Stucco	ND
Sample Composite Homogeneity:	Good

Location: 26E, Stucco Building 500, Exterior West Side Lab ID-Version‡: 16946783-1

Sample Layers	Asbestos Content
Tan Stucco	ND
Sample Composite Homogeneity:	Good

Location: 27A, White Door Frame Sealant Building 500, custodial 531 Lab ID-Version‡: 16946784-1

Sample Layers	Asbestos Content
White Sealant	ND
Sample Composite Homogeneity:	Good

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

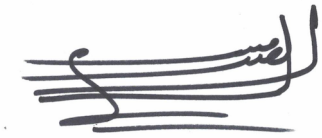
eurofins | Built Environment Testing

Report for:

Shannon Johanson
PMP Environmental Consulting
5325 Elkhorn Blvd #360
5325 Elkhorn Blvd, #360
Sacramento, CA 95842

Regarding: Eurofins EPK Built Environment Testing, LLC
Project: 23-132B
EML ID: 3476367

Approved by:



Approved Signatory
Amin Suliman

Dates of Analysis:
Asbestos PLM: 12-11-2023

Service SOPs: Asbestos PLM (EPA 40CFR App E to Sub E of Part 763 & EPA METHOD 600/R-93-116, SOP EM-AS-S-1267)
NVLAP Lab Code 200728-0

Eurofins EPK Built Environment Testing, LLC
111 Anza Boulevard, Suite 122, Burlingame, CA 94010
(800) 651-4802 www.eurofinsus.com/Built

Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 23-132B

Date of Sampling: 12-05-2023
Date of Receipt: 12-08-2023
Date of Report: 12-11-2023

ASBESTOS PLM REPORT

Total Samples Submitted:	6
Total Samples Analyzed:	6
Total Samples with Layer Asbestos Content > 1%:	0

Location: 18A, Stucco Building 700, Exterior South Side Lab ID-Version‡: 16946816-1

Sample Layers	Asbestos Content
Tan Stucco	ND
Sample Composite Homogeneity:	Good

Location: 18B, Stucco Building 700, Exterior Southwest Corner Lab ID-Version‡: 16946817-1

Sample Layers	Asbestos Content
Tan Stucco	ND
Sample Composite Homogeneity:	Good

Location: 18C, Stucco Building 700, Exterior West Side Lab ID-Version‡: 16946818-1

Sample Layers	Asbestos Content
Tan Stucco	ND
Sample Composite Homogeneity:	Good

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins EPK Built Environment Testing, LLC
111 Anza Boulevard, Suite 122, Burlingame, CA 94010
(800) 651-4802 www.eurofinsus.com/Built

Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 23-132B

Date of Sampling: 12-05-2023
Date of Receipt: 12-08-2023
Date of Report: 12-11-2023

ASBESTOS PLM REPORT

Location: 18D, Stucco Building 700, Exterior East Side Lab ID-Version‡: 16946819-1

Sample Layers	Asbestos Content
Tan Stucco	ND
Sample Composite Homogeneity:	Good

Location: 18E, Stucco Building 700, Exterior North Side Lab ID-Version‡: 16946820-1

Sample Layers	Asbestos Content
Tan Stucco	ND
Sample Composite Homogeneity:	Good

Location: 19A, Brown Window Putty Building 700, North Side, West End Lab ID-Version‡: 16946821-1

Sample Layers	Asbestos Content
Brown Window Putty	ND
Sample Composite Homogeneity:	Good

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

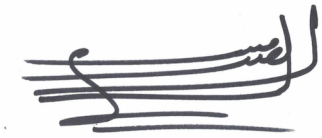
eurofins | Built Environment Testing

Report for:

Shannon Johanson
PMP Environmental Consulting
5325 Elkhorn Blvd #360
5325 Elkhorn Blvd, #360
Sacramento, CA 95842

Regarding: Eurofins EPK Built Environment Testing, LLC
Project: 23-132D; Solano Community College Dist., Solano College Big. 1500
EML ID: 3476380

Approved by:



Approved Signatory
Amin Suliman

Dates of Analysis:
Asbestos PLM: 12-11-2023 and 12-12-2023

Service SOPs: Asbestos PLM (EPA 40CFR App E to Sub E of Part 763 & EPA METHOD 600/R-93-116, SOP EM-AS-S-1267)
NVLAP Lab Code 200728-0

Eurofins EPK Built Environment Testing, LLC
111 Anza Boulevard, Suite 122, Burlingame, CA 94010
(800) 651-4802 www.eurofinsus.com/Built

Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 23-132D; Solano Community College Dist., Solano College Big. 1500

Date of Sampling: 12-06-2023
Date of Receipt: 12-08-2023
Date of Report: 12-13-2023

ASBESTOS PLM REPORT

Total Samples Submitted:	54
Total Samples Analyzed:	54
Total Samples with Layer Asbestos Content > 1%:	6

Location: 01A, Drywall-orange peel texture (field) building 1500, room 1505, near entry

Lab ID-Version‡: 16951668-1

Sample Layers	Asbestos Content
Yellow Mastic	ND
White Joint Compound with Paint	ND
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 01B, Drywall-orange peel texture (field) building 1500, corridor at south end

Lab ID-Version‡: 16951669-1

Sample Layers	Asbestos Content
White Joint Compound with Paint	ND
Cream Tape	ND
White Joint Compound	ND
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 01C, Drywall-orange peel texture with joint compound building 1500, room 1515, northwest corner

Lab ID-Version‡: 16951670-1

Sample Layers	Asbestos Content
Off-White Joint Compound with Paint	2% Chrysotile
Cream Tape	ND
Off-White Joint Compound	2% Chrysotile
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Moderate

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 23-132D; Solano Community College Dist., Solano College Big. 1500

Date of Sampling: 12-06-2023
Date of Receipt: 12-08-2023
Date of Report: 12-13-2023

ASBESTOS PLM REPORT

Location: 01D, Drywall-orange peel texture with joint compound building 1500, 1528, northwest corner

Lab ID-Version‡: 16951671-1

Sample Layers	Asbestos Content
White Joint Compound with Paint	2% Chrysotile
Off-White Joint Compound	2% Chrysotile
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Moderate

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 23-132D; Solano Community College Dist., Solano College Big. 1500

Date of Sampling: 12-06-2023
Date of Receipt: 12-08-2023
Date of Report: 12-13-2023

ASBESTOS PLM REPORT

Location: 01E, Drywall-orange peel texture with joint compound building 1500, 1521 staff restroom

Lab ID-Version‡: 16951672-1

Sample Layers	Asbestos Content
Off-White Joint Compound with Paint	ND
Cream Tape	ND
Off-White Joint Compound	2% Chrysotile
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 01F, Drywall-orange peel texture with joint compound building 1500, office 1504 at light switch

Lab ID-Version‡: 16951673-1

Sample Layers	Asbestos Content
Off-White Joint Compound with Paint	ND
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 02A, 4" black vinyl cove base and mastic building 1500, office 1505 near entry

Lab ID-Version‡: 16951674-1

Sample Layers	Asbestos Content
Yellow Mastic	ND
Black Cove Base	ND
Sample Composite Homogeneity:	Moderate

Location: 02B, 4" black vinyl cove base and mastic building 1500, near 1518

Lab ID-Version‡: 16951675-1

Sample Layers	Asbestos Content
Brown Mastic	ND
Tan Cove Base	ND
Sample Composite Homogeneity:	Moderate

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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111 Anza Boulevard, Suite 122, Burlingame, CA 94010
(800) 651-4802 www.eurofinsus.com/Built

Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 23-132D; Solano Community College Dist., Solano College Big. 1500

Date of Sampling: 12-06-2023
Date of Receipt: 12-08-2023
Date of Report: 12-13-2023

ASBESTOS PLM REPORT

Location: 02C, 4" black vinyl cove base and mastic building 1500, room 1528 Lab ID-Version‡: 16951676-1

Sample Layers	Asbestos Content
Tan Cove Base	ND
White Texture	ND
Sample Composite Homogeneity:	Moderate

Location: 03A, 12" VFT white and mastic building 1500, corridor at south entry Lab ID-Version‡: 16951677-1

Sample Layers	Asbestos Content
White Floor Tile	ND
Brown Mastic	ND
Sample Composite Homogeneity:	Good

Location: 03B, 12" VFT white and mastic building 1500, classroom 1528 at entry Lab ID-Version‡: 16951678-1

Sample Layers	Asbestos Content
White Floor Tile	ND
Brown Mastic	3% Chrysotile
Sample Composite Homogeneity:	Good

Location: 03C, 12" VFT white and mastic building 1500, classroom 1530 at entry Lab ID-Version‡: 16951679-1

Sample Layers	Asbestos Content
White Floor Tile	ND
Brown Mastic	ND
Gray Texture	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Good

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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111 Anza Boulevard, Suite 122, Burlingame, CA 94010
(800) 651-4802 www.eurofinsus.com/Built

Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 23-132D; Solano Community College Dist., Solano College Big. 1500

Date of Sampling: 12-06-2023
Date of Receipt: 12-08-2023
Date of Report: 12-13-2023

ASBESTOS PLM REPORT

Location: 04A, 12" VFT dark blue and mastic building 1500, corridor at south end Lab ID-Version‡: 16951680-1

Sample Layers	Asbestos Content
Blue Floor Tile	ND
Black Mastic	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Good

Location: 04B, 12" VFT dark blue and mastic building 1500, corridor near office 1504 Lab ID-Version‡: 16951681-1

Sample Layers	Asbestos Content
Blue Floor Tile	ND
Black Mastic	ND
Off-White Cementitious Material	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Good

Location: 05A, 12" VFT olive green and mastic building 1500, entry to office 1505 Lab ID-Version‡: 16951682-1

Sample Layers	Asbestos Content
Green Floor Tile	ND
Brown Mastic	ND
Composite Non-Asbestos Content:	5% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 05B, 12" VFT olive green and mastic building 1500, office 1515 Lab ID-Version‡: 16951683-1

Sample Layers	Asbestos Content
Green Floor Tile	ND
Brown Mastic	ND
Composite Non-Asbestos Content:	5% Cellulose
Sample Composite Homogeneity:	Moderate

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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Eurofins EPK Built Environment Testing, LLC
111 Anza Boulevard, Suite 122, Burlingame, CA 94010
(800) 651-4802 www.eurofinsus.com/Built

Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 23-132D; Solano Community College Dist., Solano College Big. 1500

Date of Sampling: 12-06-2023
Date of Receipt: 12-08-2023
Date of Report: 12-13-2023

ASBESTOS PLM REPORT

Location: 05C, 12" VFT olive green and mastic building 1500, entry to 1518 Lab ID-Version‡: 16951684-1

Sample Layers	Asbestos Content
Green Floor Tile	ND
Brown Mastic	ND
Composite Non-Asbestos Content:	5% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 06A, 12" VFT light blue and mastic building 1500, corridor at north end Lab ID-Version‡: 16951685-1

Sample Layers	Asbestos Content
Blue Floor Tile	ND
Brown Mastic	ND
Composite Non-Asbestos Content:	5% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 06B, 12" VFT light blue and mastic building 1500, 1525 entry Lab ID-Version‡: 16951686-1

Sample Layers	Asbestos Content
Blue Floor Tile	ND
Brown Mastic	ND
Composite Non-Asbestos Content:	5% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 06C, 12" VFT light blue and mastic building 1500, corridor at entry to mechanical Lab ID-Version‡: 16951687-1

Sample Layers	Asbestos Content
Blue Floor Tile	ND
Brown Mastic	ND
Composite Non-Asbestos Content:	5% Cellulose
Sample Composite Homogeneity:	Moderate

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Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 23-132D; Solano Community College Dist., Solano College Big. 1500

Date of Sampling: 12-06-2023
Date of Receipt: 12-08-2023
Date of Report: 12-13-2023

ASBESTOS PLM REPORT

Location: 07A, Drywall-smooth with joint compound building 1500, 1518 mechanical room

Lab ID-Version‡: 16951688-1

Sample Layers	Asbestos Content
White Paint	ND
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 07B, Drywall-smooth building 1500, east wall at damage

Lab ID-Version‡: 16951689-1

Sample Layers	Asbestos Content
White Joint Compound with Paint	ND
Cream Tape	ND
White Joint Compound	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 07C, Drywall-smooth building 1500, women's restroom ceiling

Lab ID-Version‡: 16951690-1

Sample Layers	Asbestos Content
White Joint Compound with Paint	ND
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 07D, Drywall-smooth with joint compound building 1500, corridor by south entry

Lab ID-Version‡: 16951691-1

Sample Layers	Asbestos Content
White Joint Compound with Paint	ND
Cream Tape	ND
White Joint Compound	ND
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Moderate

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ASBESTOS PLM REPORT

Location: 07E, Drywall-smooth with joint compound building 1500, staff restroom, at entry

Lab ID-Version‡: 16951692-1

Sample Layers	Asbestos Content
Off-White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 08A, Joint compound on fiberglass TSI building 1500, 1518 mechanical, hot water

Lab ID-Version‡: 16951693-1

Sample Layers	Asbestos Content
Silver Foil	ND
Yellow Fibrous Material	ND
Yellow Fibrous Material 2	ND
Composite Non-Asbestos Content:	40% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 08B, Joint compound on fiberglass TSI building 1500, 1518 mechanical, hot water

Lab ID-Version‡: 16951694-1

Sample Layers	Asbestos Content
Yellow Fibrous Material	ND
Composite Non-Asbestos Content:	40% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 08C, Joint compound on fiberglass TSI building 1500, 1518 mechanical, cold water

Lab ID-Version‡: 16951695-1

Sample Layers	Asbestos Content
Yellow Fibrous Material	ND
White Non-Fibrous Material	ND
Tan Non-Fibrous Material	ND
Composite Non-Asbestos Content:	40% Glass Fibers
Sample Composite Homogeneity:	Moderate

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Date of Sampling: 12-06-2023
Date of Receipt: 12-08-2023
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ASBESTOS PLM REPORT

Location: 09A, Tape on fiberglass TSI building 1500, mechanical 1518, cold water Lab ID-Version‡: 16951696-1

Sample Layers	Asbestos Content
Silver Foil	ND
Yellow Fibrous Material	ND
Composite Non-Asbestos Content:	50% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 09B, Tape on fiberglass TSI building 1500, mechanical 1518, cold water Lab ID-Version‡: 16951697-1

Sample Layers	Asbestos Content
Silver Foil	ND
Yellow Fibrous Material	ND
Beige Non-Fibrous Material	ND
Composite Non-Asbestos Content:	50% Glass Fibers 10% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 09C, Tape on fiberglass TSI building 1500, mechanical 1518, hot water Lab ID-Version‡: 16951698-1

Sample Layers	Asbestos Content
Silver Foil	ND
Yellow Fibrous Material	ND
Beige Non-Fibrous Material	ND
Composite Non-Asbestos Content:	50% Glass Fibers 10% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 10A, 2" brown ceramic tile floor grout building 1500, women's restroom at drain Lab ID-Version‡: 16951699-1

Sample Layers	Asbestos Content
Gray Ceramic Tile	ND
Sample Composite Homogeneity:	Good

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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ASBESTOS PLM REPORT

Location: 10B, 2" brown ceramic tile floor grout building 1500, men's restroom at corner

Lab ID-Version‡: 16951700-1

Sample Layers	Asbestos Content
Gray Ceramic Tile	ND
Sample Composite Homogeneity:	Good

Location: 10C, 2" brown ceramic tile floor grout building 1500, staff restroom at entry Lab ID-Version‡: 16951701-1

Sample Layers	Asbestos Content
Gray Ceramic Tile	ND
Sample Composite Homogeneity:	Good

Location: 11A, White fixture sealant building 1500, women's restroom at sink Lab ID-Version‡: 16951702-1

Sample Layers	Asbestos Content
White Sealant	ND
Sample Composite Homogeneity:	Good

Location: 11B, White fixture sealant building 1500, staff restroom at sink Lab ID-Version‡: 16951703-1

Sample Layers	Asbestos Content
White Sealant	ND
Sample Composite Homogeneity:	Good

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Date of Sampling: 12-06-2023
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ASBESTOS PLM REPORT

Location: 12A, White ceramic wall tile grout building 1500, women's restroom at door Lab ID-Version‡: 16951704-1

Sample Layers	Asbestos Content
White Ceramic Tile	ND
Sample Composite Homogeneity:	Good

Location: 12B, White ceramic wall tile grout building 1500, staff restroom walls Lab ID-Version‡: 16951705-1

Sample Layers	Asbestos Content
White Ceramic Tile	ND
Sample Composite Homogeneity:	Good

Location: 13A, 2'x4' FCP-pinhole/gouge building 1500, classroom 1521 Lab ID-Version‡: 16951706-1

Sample Layers	Asbestos Content
Red-Brown Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	65% Cellulose 25% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 13B, 2'x4' FCP-pinhole/gouge building 1500, classroom 1528 Lab ID-Version‡: 16951707-1

Sample Layers	Asbestos Content
Red-Brown Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	65% Cellulose 25% Glass Fibers
Sample Composite Homogeneity:	Good

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ASBESTOS PLM REPORT

Location: 13C, 2'x4' FCP-pinhole/gouge building 1500, corridor at north end Lab ID-Version‡: 16951708-1

Sample Layers	Asbestos Content
Red-Brown Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	65% Cellulose 25% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 13D, 2'x4' FCP-pinhole/gouge building 1500, office 1504 Lab ID-Version‡: 16951709-1

Sample Layers	Asbestos Content
Red-Brown Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	65% Cellulose 25% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 14A, Silver foil tape building 1500, attic of office 1504 Lab ID-Version‡: 16951710-1

Sample Layers	Asbestos Content
Silver Foil	ND
Yellow Insulation	ND
Composite Non-Asbestos Content:	15% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 14B, Silver foil tape building 1500, attic of corridor Lab ID-Version‡: 16951711-1

Sample Layers	Asbestos Content
Silver Foil	ND
Yellow Insulation	ND
Composite Non-Asbestos Content:	15% Glass Fibers
Sample Composite Homogeneity:	Good

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Re: 23-132D; Solano Community College Dist., Solano College Big. 1500

Date of Sampling: 12-06-2023
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ASBESTOS PLM REPORT

Location: 15A, Gray sealant building 1500, near 1522 Lab ID-Version‡: 16951712-1

Sample Layers	Asbestos Content
Silver Non-Fibrous Material	ND
Yellow Foam	ND
Sample Composite Homogeneity:	Moderate

Location: 15B, Gray sealant building 1500, near 1522 Lab ID-Version‡: 16951713-1

Sample Layers	Asbestos Content
Silver Non-Fibrous Material	ND
Yellow Foam	ND
Sample Composite Homogeneity:	Moderate

Location: 16A, Stucco building 1500, north side Lab ID-Version‡: 16951714-1

Sample Layers	Asbestos Content
Gray Stucco	ND
Sample Composite Homogeneity:	Good

Location: 16B, Stucco building 1500, south side Lab ID-Version‡: 16951715-1

Sample Layers	Asbestos Content
Gray Stucco	ND
Sample Composite Homogeneity:	Good

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Re: 23-132D; Solano Community College Dist., Solano College Big. 1500

Date of Sampling: 12-06-2023
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ASBESTOS PLM REPORT

Location: 16C, Stucco building 1500, west side Lab ID-Version‡: 16951716-1

Sample Layers	Asbestos Content
Gray Stucco	ND
Sample Composite Homogeneity:	Good

Location: 16D, Stucco building 1500, exterior door frame Lab ID-Version‡: 16951717-1

Sample Layers	Asbestos Content
Gray Stucco	ND
Sample Composite Homogeneity:	Good

Location: 17A, White sealant at window frame building 150, exterior east side Lab ID-Version‡: 16951718-1

Sample Layers	Asbestos Content
White Sealant	ND
Sample Composite Homogeneity:	Moderate

Location: 18A, Brown window putty building 1500, south side Lab ID-Version‡: 16951719-1

Sample Layers	Asbestos Content
Brown Putty	ND
Beige Coating	2% Chrysotile
Sample Composite Homogeneity:	Good

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Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 23-132D; Solano Community College Dist., Solano College Big. 1500

Date of Sampling: 12-06-2023
Date of Receipt: 12-08-2023
Date of Report: 12-13-2023

ASBESTOS PLM REPORT

Location: 18B, Brown window putty building 1500, south side Lab ID-Version‡: 16951720-1

Sample Layers	Asbestos Content
Brown Putty	ND
Beige Coating	2% Chrysotile
Sample Composite Homogeneity:	Good

Location: 19A, Gray expansion joint sealant building 1500, north side near door Lab ID-Version‡: 16951721-1

Sample Layers	Asbestos Content
White Coating	ND
Gray Sealant	ND
Sample Composite Homogeneity:	Moderate

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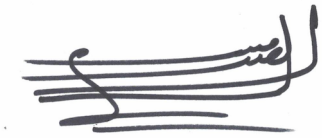
Report for:

Shannon Johanson
PMP Environmental Consulting
5325 Elkhorn Blvd #360
5325 Elkhorn Blvd, #360
Sacramento, CA 95842

Regarding: Eurofins EPK Built Environment Testing, LLC
Project: 23-132C; Solano Community College Dist, Solano College Building 800
EML ID: 3476401

Approved by:



Approved Signatory
Amin Suliman

Dates of Analysis:
Asbestos PLM: 12-12-2023 and 12-13-2023

Service SOPs: Asbestos PLM (EPA 40CFR App E to Sub E of Part 763 & EPA METHOD 600/R-93-116, SOP EM-AS-S-1267)
NVLAP Lab Code 200728-0

Eurofins EPK Built Environment Testing, LLC
111 Anza Boulevard, Suite 122, Burlingame, CA 94010
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Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 23-132C; Solano Community College Dist, Solano College Building 800

Date of Submittal: 12-07-2023
Date of Receipt: 12-08-2023
Date of Report: 12-13-2023

ASBESTOS PLM REPORT

Total Samples Submitted:	76
Total Samples Analyzed:	76
Total Samples with Layer Asbestos Content > 1%:	11

Location: 01A, Drywall with Wallpaper Covering Building 800, Classroom 803, Near Entry

Lab ID-Version‡: 16951962-1

Sample Layers	Asbestos Content
Beige Mastic	ND
Yellow Fibrous Material	ND
White Joint Compound	ND
White Drywall	ND
Composite Non-Asbestos Content:	15% Cellulose 15% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 01B, Drywall with Wallpaper Covering Building 800, Corridor by 811

Lab ID-Version‡: 16951963-1

Sample Layers	Asbestos Content
Tan Semi-Fibrous Material with Paint	ND
Tan Semi-Fibrous Material	ND
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	25% Glass Fibers 15% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 01C, Drywall with Wallpaper Covering Building 800, 805G Northwest Corner

Lab ID-Version‡: 16951964-1

Sample Layers	Asbestos Content
Tan Semi-Fibrous Material with Paint	ND
Tan Semi-Fibrous Material	ND
White Joint Compound	ND
Cream Tape	ND
White Joint Compound 2	ND
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	20% Glass Fibers 15% Cellulose
Sample Composite Homogeneity:	Poor

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 23-132C; Solano Community College Dist,
Solano College Building 800

Date of Submittal: 12-07-2023
Date of Receipt: 12-08-2023
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ASBESTOS PLM REPORT

Location: 01D, Drywall with Wallpaper Covering Building 800, Room 805E , South Wall

Lab ID-Version‡: 16951965-1

Sample Layers	Asbestos Content
Yellow Fibrous Material with Paint	ND
Yellow Fibrous Material	ND
White Joint Compound	ND
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	15% Cellulose 15% Glass Fibers
Sample Composite Homogeneity:	Moderate

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Re: 23-132C; Solano Community College Dist, Solano College Building 800

Date of Submittal: 12-07-2023
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ASBESTOS PLM REPORT

Location: 01E, Drywall with Wallpaper Covering Building 800, 807B, Northeast Corner

Lab ID-Version‡: 16951966-1

Sample Layers	Asbestos Content
Yellow Fibrous Material with Paint	ND
Yellow Fibrous Material	ND
White Joint Compound	ND
Cream Tape	ND
White Joint Compound 2	ND
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	15% Cellulose 15% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 01F, Drywall with Wallpaper Covering Building 800, Corridor Near 807B

Lab ID-Version‡: 16951967-1

Sample Layers	Asbestos Content
Yellow Fibrous Material with Paint	ND
Yellow Fibrous Material	ND
White Joint Compound	ND
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	15% Cellulose 15% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 01G, Drywall with Wallpaper Covering Building 800, Classroom 801, West Wall Near Entry

Lab ID-Version‡: 16951968-1

Sample Layers	Asbestos Content
Yellow Fibrous Material with Paint	ND
Yellow Fibrous Material	ND
White Joint Compound	ND
Brown Fibrous Material	ND
Composite Non-Asbestos Content:	65% Cellulose 15% Glass Fibers
Sample Composite Homogeneity:	Moderate

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Date of Submittal: 12-07-2023
Date of Receipt: 12-08-2023
Date of Report: 12-13-2023

ASBESTOS PLM REPORT

Location: 02A, 12" White VFT and Mastic, Building 800, Classroom 808, Near Entry Lab ID-Version‡: 16951969-1

Sample Layers	Asbestos Content
White Floor Tile	ND
Black Mastic	3% Chrysotile
Sample Composite Homogeneity:	Moderate

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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Date of Report: 12-13-2023

ASBESTOS PLM REPORT

Location: 02B, 12" White VFT and Mastic, Building 800, Classroom 808 at Corner Lab ID-Version‡: 16951970-1

Sample Layers	Asbestos Content
White Floor Tile	ND
Black Mastic	3% Chrysotile
Sample Composite Homogeneity:	Moderate

Location: 03A, 4" White Ceramic Tile Grout, Building 800, Women's Restroom, North wall Lab ID-Version‡: 16951971-1

Sample Layers	Asbestos Content
White Ceramic Tile	ND
Sample Composite Homogeneity:	Good

Location: 03B, 4" White Ceramic Tile Grout, Building 800, Men's Restroom Walls Lab ID-Version‡: 16951972-1

Sample Layers	Asbestos Content
White Ceramic Tile	ND
Sample Composite Homogeneity:	Good

Location: 04A, Clear Silicone, Building 800, Women's Restrooms at Sink Lab ID-Version‡: 16951973-1

Sample Layers	Asbestos Content
Transparent Non-Fibrous Material	ND
Sample Composite Homogeneity:	Good

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Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 23-132C; Solano Community College Dist, Solano College Building 800

Date of Submittal: 12-07-2023
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Date of Report: 12-13-2023

ASBESTOS PLM REPORT

Location: 05A, 12" VFT Yellow Mastic, Building 800, 800B Electrical Room Lab ID-Version‡: 16951974-1

Sample Layers	Asbestos Content
Yellow Floor Tile	ND
Yellow Mastic	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 05B, 12" VFT Yellow Mastic, Building 800, Corridor at North End Lab ID-Version‡: 16951975-1

Sample Layers	Asbestos Content
Yellow Floor Tile	ND
Yellow Mastic	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 05C, 12" VFT Yellow Mastic, Building 800, 805A at Entry to 805B Lab ID-Version‡: 16951976-1

Sample Layers	Asbestos Content
Yellow Floor Tile	ND
Yellow Mastic	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 05D, 12" VFT Yellow Mastic, Building 800, Entry to 800A Lab ID-Version‡: 16951977-1

Sample Layers	Asbestos Content
Yellow Floor Tile	ND
Yellow Mastic	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Moderate

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ASBESTOS PLM REPORT

Location: 06A, 12" VFT Blue and Mastic, Building 800, Corridor by Entry Lab ID-Version‡: 16951978-1

Sample Layers	Asbestos Content
Blue Floor Tile	ND
Yellow Mastic	ND
Sample Composite Homogeneity:	Moderate

Location: 06B, 12" VFT Blue and Mastic, Building 800, Classroom 801 at Entry Lab ID-Version‡: 16951979-1

Sample Layers	Asbestos Content
Blue Floor Tile	ND
Black Mastic	ND
Sample Composite Homogeneity:	Moderate

Location: 06C, 12" VFT Blue and Mastic, Building 800, Corridor at 805 Lab ID-Version‡: 16951980-1

Sample Layers	Asbestos Content
Blue Floor Tile	ND
Black Mastic	ND
Sample Composite Homogeneity:	Moderate

Location: 07A, 12" VFT Green and Mastic, Building 800, Entry to 800A Lab ID-Version‡: 16951981-1

Sample Layers	Asbestos Content
Gray Floor Tile	ND
Brown Mastic	ND
Composite Non-Asbestos Content:	5% Cellulose
Sample Composite Homogeneity:	Moderate

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ASBESTOS PLM REPORT

Location: 07B, 12" VFT Green and Mastic, Building 800, Corridor by 811 Lab ID-Version‡: 16951982-1

Sample Layers	Asbestos Content
Gray Floor Tile	ND
Brown Mastic	ND
Composite Non-Asbestos Content:	5% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 07C, 12" VFT Green and Mastic, Building 800, Corridor at Drink Fountain Lab ID-Version‡: 16951983-1

Sample Layers	Asbestos Content
Gray Floor Tile	ND
Brown Mastic	ND
Composite Non-Asbestos Content:	5% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 08A, 2'x4' FCP-Pinhole/Gouge, Building 800, Corridor Near 801 Lab ID-Version‡: 16951984-1

Sample Layers	Asbestos Content
White Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	90% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 08B, 2'x4' FCP-Pinhole/Gouge, Building 800, Classroom 803 Lab ID-Version‡: 16951985-1

Sample Layers	Asbestos Content
White Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	90% Glass Fibers
Sample Composite Homogeneity:	Good

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ASBESTOS PLM REPORT

Location: 08C, 2'x4' FCP-Pinhole/Gouge, Building 800, Classroom 812 Lab ID-Version‡: 16951986-1

Sample Layers	Asbestos Content
White Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	90% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 08D, 2'x4' FCP-Pinhole/Gouge, Building 800, Corridor at North End Lab ID-Version‡: 16951987-1

Sample Layers	Asbestos Content
White Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	90% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 09A, 2" Brown Ceramic Floor Tile Grout, Building 800, Men's Restroom at Drain Lab ID-Version‡: 16951988-1

Sample Layers	Asbestos Content
Brown Grout	ND
Sample Composite Homogeneity:	Good

Location: 09B, 2" Brown Ceramic Floor Tile Grout, Building 800, Women's Restroom at Drain Lab ID-Version‡: 16951989-1

Sample Layers	Asbestos Content
Brown Grout	ND
Sample Composite Homogeneity:	Good

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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ASBESTOS PLM REPORT

Location: 10A, Drywall Light Texture with Joint Compound, Building 800, Electrical Room 800B, Northwest Corner Lab ID-Version‡: 16951990-1

Sample Layers	Asbestos Content
White Joint Compound	ND
Cream Tape	ND
White Joint Compound 2	ND
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 10B, Drywall Light Texture with Joint Compound, Building 800, 803B Server Room Lab ID-Version‡: 16951991-1

Sample Layers	Asbestos Content
White Joint Compound	ND
Cream Tape	ND
White Joint Compound 2	ND
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 10C, Drywall Light Texture, Building 800, Classroom 801, West Wall Lab ID-Version‡: 16951992-1

Sample Layers	Asbestos Content
White Joint Compound	ND
Beige Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 10D, Drywall Light Texture, Building 800, Corridor South End, Near Entry Lab ID-Version‡: 16951993-1

Sample Layers	Asbestos Content
White Joint Compound	ND
Beige Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Moderate

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ASBESTOS PLM REPORT

Location: 10E, Drywall Light Texture with Joint Compound, Building 800, Room 801A, Northwest Corner

Lab ID-Version‡: 16951994-1

Sample Layers	Asbestos Content
White Joint Compound	ND
Cream Tape	ND
White Joint Compound 2	ND
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 10F, Drywall Light Texture with Joint Compound, Building 800, Women's Restroom, East Wall at Door

Lab ID-Version‡: 16951995-1

Sample Layers	Asbestos Content
White Joint Compound	ND
Cream Tape	ND
White Joint Compound 2	ND
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 11A, 4" Blue Cove Base and Mastic, Building 800, Classroom 803, Near Entry

Lab ID-Version‡: 16951996-1

Sample Layers	Asbestos Content
Blue Cove Base	ND
Beige Mastic	ND
Beige Mastic 2	ND
White Semi-Fibrous Material	ND
Composite Non-Asbestos Content:	15% Glass Fibers
Sample Composite Homogeneity:	Poor

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ASBESTOS PLM REPORT

Location: 11B, 4" Blue Cove Base and Mastic, Building 800, Room 805B at Entry Lab ID-Version‡: 16951997-1

Sample Layers	Asbestos Content
Blue Cove Base	ND
White Mastic	ND
Beige Mastic	ND
Composite Non-Asbestos Content:	15% Glass Fibers
Sample Composite Homogeneity:	Poor

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ASBESTOS PLM REPORT

Location: 11C, 4" Blue Cove Base and Mastic, Building 800, Classroom 804, West Wall

Lab ID-Version‡: 16951998-1

Sample Layers	Asbestos Content
Blue Cove Base	ND
Beige Mastic	ND
Composite Non-Asbestos Content:	15% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 12A, 2'x2' Blue Stripe Carpet Tile and Mastic, Building 800, Room 801, Near Entry

Lab ID-Version‡: 16951999-1

Sample Layers	Asbestos Content
Blue Carpet	ND
Gray Mastic	ND
Brown Foam	ND
Yellow Floor Tile	ND
Composite Non-Asbestos Content:	5% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 12B, 2'x2' Blue Stripe Carpet Tile and Mastic, Building 800, Classroom 812 at Entry

Lab ID-Version‡: 16952000-1

Sample Layers	Asbestos Content
Blue Carpet	ND
Gray Mastic	ND
Brown Foam	ND
Composite Non-Asbestos Content:	5% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 12C, 2'x2' Blue Stripe Carpet Tile and Mastic, Building 800, Classroom 812

Lab ID-Version‡: 16952001-1

Sample Layers	Asbestos Content
Blue Carpet	ND
Gray Mastic	ND
Brown Foam	ND
Composite Non-Asbestos Content:	5% Glass Fibers
Sample Composite Homogeneity:	Poor

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ASBESTOS PLM REPORT

Location: 13A, Drywall Large Knockdown with Joint Compound, Building 800, 800A Lab ID-Version‡: 16952002-1

Sample Layers	Asbestos Content
White Mastic with Paint	ND
Cream Tape	ND
White Mastic	ND
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 13B, Drywall Large Knockdown with Joint Compound, Building 800, 810 Mechanical Room Lab ID-Version‡: 16952003-1

Sample Layers	Asbestos Content
White Mastic with Paint	ND
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 13C, Drywall Large Knockdown, Field, Building 800, 810 Mechanical Room Lab ID-Version‡: 16952004-1

Sample Layers	Asbestos Content
White Mastic with Paint	ND
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 13D, Drywall Large Knockdown, Field, Building 800, Custodial 800A Lab ID-Version‡: 16952005-1

Sample Layers	Asbestos Content
White Mastic with Paint	ND
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Moderate

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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ASBESTOS PLM REPORT

Location: 14A, White Tape on Fiberglass Insulation, Building 800, Attic Near 800A Lab ID-Version‡: 16952006-1

Sample Layers	Asbestos Content
Silver Foil	ND
Tan Tape	ND
Beige Non-Fibrous Material	ND
Composite Non-Asbestos Content:	20% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 14B, White Tape on Fiberglass Insulation, Building 800, Attic Near 800E Lab ID-Version‡: 16952007-1

Sample Layers	Asbestos Content
Silver Foil	ND
Tan Tape	ND
Beige Non-Fibrous Material	ND
Composite Non-Asbestos Content:	20% Cellulose 15% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 14C, White Tape on Fiberglass Insulation, Building 800, 810 Mechanical Room, Cold Water Lines Lab ID-Version‡: 16952008-1

Sample Layers	Asbestos Content
Silver Foil	ND
Tan Tape	ND
Beige Non-Fibrous Material	ND
Composite Non-Asbestos Content:	20% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 14D, White Tape on Fiberglass Insulation, Building 800, 810 Mechanical Room, Hot Water Lines Lab ID-Version‡: 16952009-1

Sample Layers	Asbestos Content
Tan Tape	ND
Beige Fibrous Material	ND
Composite Non-Asbestos Content:	20% Cellulose
Sample Composite Homogeneity:	Moderate

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ASBESTOS PLM REPORT

Location: 14E, White Tape on Fiberglass Insulation, Building 800, 810 Mechanical Room, Cold Water

Lab ID-Version‡: 16952010-1

Sample Layers	Asbestos Content
Tan Tape	ND
Beige Fibrous Material	ND
Composite Non-Asbestos Content:	20% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 15A, White Joint Compound on Fiberglass Insulation, Building 800, Corridor Attic, Near Center

Lab ID-Version‡: 16952011-1

Sample Layers	Asbestos Content
White Joint Compound	ND
Yellow Insulation	ND
Composite Non-Asbestos Content:	80% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 15B, White Joint Compound on Fiberglass Insulation, Building 800, Near 800A Custodial Attic

Lab ID-Version‡: 16952012-1

Sample Layers	Asbestos Content
White Joint Compound	ND
Yellow Insulation	ND
Composite Non-Asbestos Content:	80% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 15C, White Joint Compound on Fiberglass Insulation, Building 800, Mechanical 810 Cold Water Line

Lab ID-Version‡: 16952013-1

Sample Layers	Asbestos Content
Tan Joint Compound with Paint	2% Chrysotile
Composite Non-Asbestos Content:	80% Glass Fibers
Sample Composite Homogeneity:	Moderate

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
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ASBESTOS PLM REPORT

Location: 15D, White Joint Compound on Fiberglass Insulation, Building 800, Mechanical 810 Hot Water Line Lab ID-Version‡: 16952014-1

Sample Layers	Asbestos Content
Tan Joint Compound with Paint	3% Chrysotile
Yellow Insulation	ND
Composite Non-Asbestos Content:	80% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 16A, Silver Foil Tape, Building 800, Attic Near 801 at Duct Lab ID-Version‡: 16952015-1

Sample Layers	Asbestos Content
Silver Tape	ND
Sample Composite Homogeneity:	Good

Location: 16B, Silver Foil Tape, Building 800, Attic Corridor Near 800E Lab ID-Version‡: 16952016-1

Sample Layers	Asbestos Content
Silver Tape	ND
Sample Composite Homogeneity:	Good

Location: 17A, Window Putty, Building 800, Near 802 Lab ID-Version‡: 16952017-1

Sample Layers	Asbestos Content
Black Window Putty	3% Chrysotile
Sample Composite Homogeneity:	Good

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ASBESTOS PLM REPORT

Location: 17B, Window Putty, Building 800, South Side Near 812 Lab ID-Version‡: 16952018-1

Sample Layers	Asbestos Content
Black Window Putty	3% Chrysotile
Sample Composite Homogeneity:	Good

Location: 18A, Gray Pipe Sealant, Building 800, Near 802 Lab ID-Version‡: 16952019-1

Sample Layers	Asbestos Content
Gray Sealant	ND
Sample Composite Homogeneity:	Good

Location: 18B, Gray Pipe Sealant, Building 800, Near 802 Lab ID-Version‡: 16952020-1

Sample Layers	Asbestos Content
Gray Sealant	ND
Yellow Insulation	ND
Composite Non-Asbestos Content:	35% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 19A, Stucoo, Building 800, North Side Lab ID-Version‡: 16952021-1

Sample Layers	Asbestos Content
Brown Stucco	ND
Sample Composite Homogeneity:	Good

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ASBESTOS PLM REPORT

Location: 19B, Stucoo, Building 800, West Side Lab ID-Version‡: 16952022-1

Sample Layers	Asbestos Content
Brown Stucco	ND
Sample Composite Homogeneity:	Good

Location: 19C, Stucoo, Building 800, South Side Lab ID-Version‡: 16952023-1

Sample Layers	Asbestos Content
Brown Stucco	ND
Sample Composite Homogeneity:	Good

Location: 19D, Stucoo, Building 800, East Side Lab ID-Version‡: 16952024-1

Sample Layers	Asbestos Content
Brown Stucco	ND
Sample Composite Homogeneity:	Good

Location: 19E, Stucoo, Building 800, Northeast Side Lab ID-Version‡: 16952025-1

Sample Layers	Asbestos Content
White Coating	ND
Brown Stucco	ND
Sample Composite Homogeneity:	Good

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins EPK Built Environment Testing, LLC
111 Anza Boulevard, Suite 122, Burlingame, CA 94010
(800) 651-4802 www.eurofinsus.com/Built

Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 23-132C; Solano Community College Dist, Solano College Building 800

Date of Submittal: 12-07-2023
Date of Receipt: 12-08-2023
Date of Report: 12-13-2023

ASBESTOS PLM REPORT

Location: 19F, Stucoo, Building 800, Southwest Side Lab ID-Version‡: 16952026-1

Sample Layers	Asbestos Content
White Coating	ND
Brown Stucco	ND
Sample Composite Homogeneity:	Good

Location: 20A, Gray Expansion Joint Sealant, Building 800, Near 802 Lab ID-Version‡: 16952027-1

Sample Layers	Asbestos Content
Gray Sealant	ND
Brown Wood	ND
Sample Composite Homogeneity:	Good

Location: 21A, Tan Sealant on Fiberglass Insulation, Building 800, 810 Mechanical, Hot Water Lab ID-Version‡: 16952028-1

Sample Layers	Asbestos Content
Tan Sealant	ND
White Fibrous Material	ND
Silver Foil	ND
Yellow Insulation	ND
Composite Non-Asbestos Content:	20% Glass Fibers 10% Cellulose
Sample Composite Homogeneity:	Poor

Location: 21B, Tan Sealant on Fiberglass Insulation, Building 800, 810 Mechanical, Hot Water Lab ID-Version‡: 16952029-1

Sample Layers	Asbestos Content
Tan Sealant	ND
White Fibrous Material	ND
Silver Foil	ND
Composite Non-Asbestos Content:	20% Glass Fibers 10% Cellulose
Sample Composite Homogeneity:	Poor

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 23-132C; Solano Community College Dist, Solano College Building 800

Date of Submittal: 12-07-2023
Date of Receipt: 12-08-2023
Date of Report: 12-13-2023

ASBESTOS PLM REPORT

Location: 22A, Pink/Black Insulation Wrap, Building 800, 810 Mechanical Lab ID-Version‡: 16952030-1

Sample Layers	Asbestos Content
Pink Foil	ND
Black Wrap	ND
Sample Composite Homogeneity:	Good

Location: 22B, Pink/Black Insulation Wrap, Building 800, 810 Mechanical Lab ID-Version‡: 16952031-1

Sample Layers	Asbestos Content
Pink Foil	ND
Black Wrap	ND
Sample Composite Homogeneity:	Good

Location: 23A, Black Expansion Joint Sealant, Building 800, Near Storage 806 Lab ID-Version‡: 16952032-1

Sample Layers	Asbestos Content
Black Sealant	ND
Sample Composite Homogeneity:	Good

Location: 24A, Gray Sink Coating, Building 800, 807A Sink Lab ID-Version‡: 16952033-1

Sample Layers	Asbestos Content
Gray Sink Undercoating	2% Chrysotile
Sample Composite Homogeneity:	Good

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 23-132C; Solano Community College Dist, Solano College Building 800

Date of Submittal: 12-07-2023
Date of Receipt: 12-08-2023
Date of Report: 12-13-2023

ASBESTOS PLM REPORT

Location: 24B, Gray Sink Coating, Building 800, 805G Sink Lab ID-Version‡: 16952034-1

Sample Layers	Asbestos Content
Gray Sink Undercoating	4% Chrysotile
Sample Composite Homogeneity:	Good

Location: 25A, Gray Multi-Colored Carpet and Mastic, Building 800, Room 807B at NE Corner Lab ID-Version‡: 16952035-1

Sample Layers	Asbestos Content
Multicolored Mastic	2% Chrysotile
Sample Composite Homogeneity:	Good

Location: 25B, Gray Multi-Colored Carpet and Mastic, Building 800, Room 807B at Entry Lab ID-Version‡: 16952036-1

Sample Layers	Asbestos Content
Multicolored Mastic	2% Chrysotile
Sample Composite Homogeneity:	Good

Location: 25C, Gray Multi-Colored Carpet and Mastic, Building 800, Room 805E at Entry Lab ID-Version‡: 16952037-1

Sample Layers	Asbestos Content
Multicolored Mastic	2% Chrysotile
Sample Composite Homogeneity:	Good

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

eurofins | Built Environment Testing

Report for:

Shannon Johanson
PMP Environmental Consulting
5325 Elkhorn Blvd #360
5325 Elkhorn Blvd, #360
Sacramento, CA 95842

Regarding: Eurofins EPK Built Environment Testing, LLC
Project: 23-132D; Solano College Building 1500
EML ID: 3476693

Approved by:

Approved Signatory
Andrew Arestegui

Dates of Analysis:
Lead - Flame AA: 12-13-2023

Service SOPs: Lead - Flame AA (EM-BC-S-8443)
AIHA-LAP, LLC accredited service, Lab ID #178697

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the samples as received and tested. Sample size, as it relates to Wipe samples only, is supplied by the client.

Eurofins EPK Built Environment Testing, LLC ("the Company"), a member of the Eurofins Built Environment Testing group of companies, shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.
Eurofins EPK Built Environment Testing, LLC's LabServe® reporting system includes automated fail-safes to ensure that all AIHA-LAP, LLC quality requirements are met and notifications are added to reports when any quality steps remain pending.

Eurofins EPK Built Environment Testing, LLC
2841 Dow Avenue, Suite 300, Tustin, CA 92780
(800) 651-4802 www.eurofinsus.com/Built

Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 23-132D; Solano College Building 1500

Date of Sampling: 12-06-2023
Date of Receipt: 12-08-2023
Date of Report: 12-13-2023

LEAD: FLAME ATOMIC ABSORPTION SPECTROMETRY

Location:	01Pb: Blue Paint on Drywall Walls Building 1500, Classroom 1528 East Wall	02Pb: Green Paint on Drywall Walls Building 1500, Office 1515	03Pb: White Paint on Drywall Walls Building 1500, Office
Comments (see below)	None	None	None
Lab ID-Version‡:	16951568-1	16951569-1	16951570-1
Analysis Date:	12/13/2023	12/13/2023	12/13/2023
Sample type	Paint Chip sample	Paint Chip sample	Paint Chip sample
Method*	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified
† Method Reporting Limit	39 ppm	52 ppm	39 ppm
Sample size	0.2590 grams	0.1923 grams	0.2585 grams
§Total Lead Result	46 ppm	< 52 ppm	180 ppm

Comments:

Sample results have not been corrected for blank values.

Bulk samples are not covered under the AIHA-LAP, LLC service accreditation.

Wipe samples must meet ASTM E1792 criteria. Method Reporting Limits may not be valid for non-ASTM E1792 wipe samples.

*Sample preparation and analytical methods are based upon NIOSH 7082 and EPA 7000B.

† The Method Reporting Limit is the minimum concentration of Lead that the laboratory can confidently detect in the sample.

§ Total Lead Result has been rounded to two significant figures to reflect analytical precision.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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Report for:

Shannon Johanson
PMP Environmental Consulting
5325 Elkhorn Blvd #360
5325 Elkhorn Blvd, #360
Sacramento, CA 95842

Regarding: Eurofins EPK Built Environment Testing, LLC
Project: 23-132D; Solano College Bldg 1500
EML ID: 3480836

Approved by:

Approved Signatory
Danny Li

Dates of Analysis:
Asbestos PLM: 12-14-2023

Service SOPs: Asbestos PLM (EPA 40CFR App E to Sub E of Part 763 & EPA METHOD 600/R-93-116, SOP EM-AS-S-1267)
NVLAP Lab Code 200757-0

Eurofins EPK Built Environment Testing, LLC
2841 Dow Avenue, Suite 300, Tustin, CA 92780
(800) 651-4802 www.eurofinsus.com/Built

Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 23-132D; Solano College Bldg 1500

Date of Sampling: 12-12-2023
Date of Receipt: 12-13-2023
Date of Report: 12-14-2023

ASBESTOS PLM REPORT

Total Samples Submitted:	3
Total Samples Analyzed:	3
Total Samples with Layer Asbestos Content > 1%:	0

Location: 20A, Duct Insulation with Joint Compound Building 1500, Attic Ductwork Near 1531

Lab ID-Version‡: 16975141-1

Sample Layers	Asbestos Content
White Duct Insulation	ND
White Tape	ND
Tan Glue	ND
Composite Non-Asbestos Content:	10% Cellulose 10% Synthetic Fibers
Sample Composite Homogeneity:	Moderate

Location: 21A, White Duct Seam Tape Building 1500, Attic Corridor

Lab ID-Version‡: 16975142-1

Sample Layers	Asbestos Content
White Tape	ND
Tan Glue	ND
Composite Non-Asbestos Content:	20% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 21B, White Duct Seam Tape Building 1500, Attic Corridor Near 1530

Lab ID-Version‡: 16975143-1

Sample Layers	Asbestos Content
White Tape	ND
Tan Glue	ND
Composite Non-Asbestos Content:	20% Cellulose
Sample Composite Homogeneity:	Moderate

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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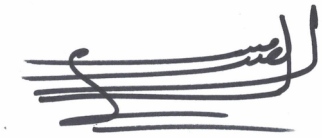
Report for:

Shannon Johanson
PMP Environmental Consulting
5325 Elkhorn Blvd #360
5325 Elkhorn Blvd, #360
Sacramento, CA 95842

Regarding: Eurofins EPK Built Environment Testing, LLC
Project: 24-174; Solano College- Bldg 900
EML ID: 3834670

Approved by:



Approved Signatory
Amin Suliman

Dates of Analysis:
Asbestos PLM: 10-30-2024

Service SOPs: Asbestos PLM (EPA 40CFR App E to Sub E of Part 763 & EPA METHOD 600/R-93-116, SOP EM-AS-S-1267)
NVLAP Lab Code 200728-0

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the samples as received and tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

Eurofins EPK Built Environment Testing, LLC
111 Anza Boulevard, Suite 122, Burlingame, CA 94010
(833) 465-5857 www.eurofinsus.com/Built

Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 24-174; Solano College- Bldg 900

Date of Sampling: 10-30-2024
Date of Receipt: 10-30-2024
Date of Report: 10-30-2024

ASBESTOS PLM REPORT

Total Samples Submitted:	7
Total Samples Analyzed:	7
Total Samples with Layer Asbestos Content > 1%:	0

Location: 01A, Drywall w/ JC, NE Lobby

Lab ID-Version‡: 18953470-1

Sample Layers	Asbestos Content
Off-White Skim Coat	ND
Cream Tape	ND
Off-White Joint Compound	ND
Off-White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Poor

Location: 01B, Drywall w/ JC, SE Lobby

Lab ID-Version‡: 18953471-1

Sample Layers	Asbestos Content
Off-White Skim Coat	ND
Cream Tape	ND
Off-White Joint Compound	ND
Off-White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Poor

Location: 01C, Drywall (Field) Hall

Lab ID-Version‡: 18953472-1

Sample Layers	Asbestos Content
Off-White Joint Compound	ND
Off-White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Good

All components not quantified as asbestos content and non-asbestos content are considered to be non-fibrous matrix components. Matrix components may include, but are not limited to, gypsum, paint, silicate minerals, vinyl, binder, calcium carbonate, tar, and foam.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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111 Anza Boulevard, Suite 122, Burlingame, CA 94010
(833) 465-5857 www.eurofinsus.com/Built

Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 24-174; Solano College- Bldg 900

Date of Sampling: 10-30-2024
Date of Receipt: 10-30-2024
Date of Report: 10-30-2024

ASBESTOS PLM REPORT

Location: 02A, 4" Cove Base & Mastic, Lobby

Lab ID-Version‡: 18953473-1

Sample Layers	Asbestos Content
Blue Cove Base	ND
Off-White Mastic	ND
Sample Composite Homogeneity:	Good

All components not quantified as asbestos content and non-asbestos content are considered to be non-fibrous matrix components. Matrix components may include, but are not limited to, gypsum, paint, silicate minerals, vinyl, binder, calcium carbonate, tar, and foam.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 24-174; Solano College- Bldg 900

Date of Sampling: 10-30-2024
Date of Receipt: 10-30-2024
Date of Report: 10-30-2024

ASBESTOS PLM REPORT

Location: 02B, 4" Cove Base & Mastic, Hall Lab ID-Version‡: 18953474-1

Sample Layers	Asbestos Content
Blue Cove Base	ND
Off-White Mastic	ND
Sample Composite Homogeneity:	Good

Location: 03A, 2x4 FCP, Lobby Lab ID-Version‡: 18953475-1

Sample Layers	Asbestos Content
Beige Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	20% Cellulose 20% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 03B, 2x4 FCP, Lobby Lab ID-Version‡: 18953476-1

Sample Layers	Asbestos Content
Beige Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	20% Cellulose 20% Glass Fibers
Sample Composite Homogeneity:	Good

All components not quantified as asbestos content and non-asbestos content are considered to be non-fibrous matrix components. Matrix components may include, but are not limited to, gypsum, paint, silicate minerals, vinyl, binder, calcium carbonate, tar, and foam.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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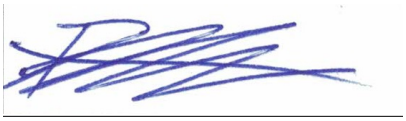
Client: PMP Environmental Consulting
C/O: Shannon Johanson
Re: 24-174; Solano College- Bldg 900

Date of Sampling: 10-30-2024
Date of Receipt: 10-30-2024
Date of Report: 10-30-2024

ASBESTOS PLM REPORT

PROJECT ANALYST AND SIGNATORY REPORT

Project Analyst



Analyst: Dimitri Arndt-Truong

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

CHAIN OF CUSTODY eurofins | Built Environment Testing
www.eurofinsus.com/Built

East: (866) 871-1984
Central: (800) 651-4802
West: (866) 888-6653

BACTERIAL ANAL[...] 003834670

CONTACT INFORMATION

Company:	PMP, Inc.	Address:	
Contact:	Shannon Johanson	Special Instructions:	
Phone:	916-628-5124		

PROJECT INFORMATION

Project ID:	24-174		
Project Description:	Solano College- Bldg 900		
Project Zip Code:		Sampling Date & Time:	10/30/24
PO Number:		Sampled By:	S. Johanson

TURN AROUND TIME CODES (TAT)

STD – Standard (DEFAULT)

ND – Next Business Day*

*Must be received by 5pm. Available for Total Coliform - *E. coli* P/A, Iron Bacteria P/A, and QuantiTray - Sewage Screen

Rushes received after 2pm or on weekends; will be considered received the next business day. Please alert us in advance of weekend analysis needs.

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume / Area (as applicable)	Notes (Time of day, Temp, RH, etc.)
01A	Drywall w/JC, NE lobby	Bulk	ASAP		
01B	Drywall w/JC, SE Lobby	"	|		
01C	Drywall (Field) Hall	"	|		
02A	4" Cove Base & mastic Lobby	"	|		
02B	" " " Hall	"	|		
03A	2x4 FCP, Lobby	"	|		
03B	" " "	"	|		

REQUESTED SERVICES (Check [...])

Air and Surface Samples

BioCassette™, Andersen, SAS, Swab, Water, Bulk, Dust, Soil, Contact Plates

Culturable Air Bacterial Total Count	Gram Stain and Counts	3-Genus ID	5-Genus ID	3-Species ID	5-Species ID	Total Coliform, *E. coli* (Presence/Absence)	Membrane Filtration (specify organism)	MPN Bacteria (specify organism)	*Legionella* ISO Method or CDC Method	QuantiTray - Sewage Screen	Heterotrophic Plate Count	Iron Bacteria (Presence/Absence)	Thermophilic actinomycetes	Sulfate Reducing Bacteria (Presence / Absence)	Slime Forming Bacteria	Endotoxin	P/E	
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☒	☐
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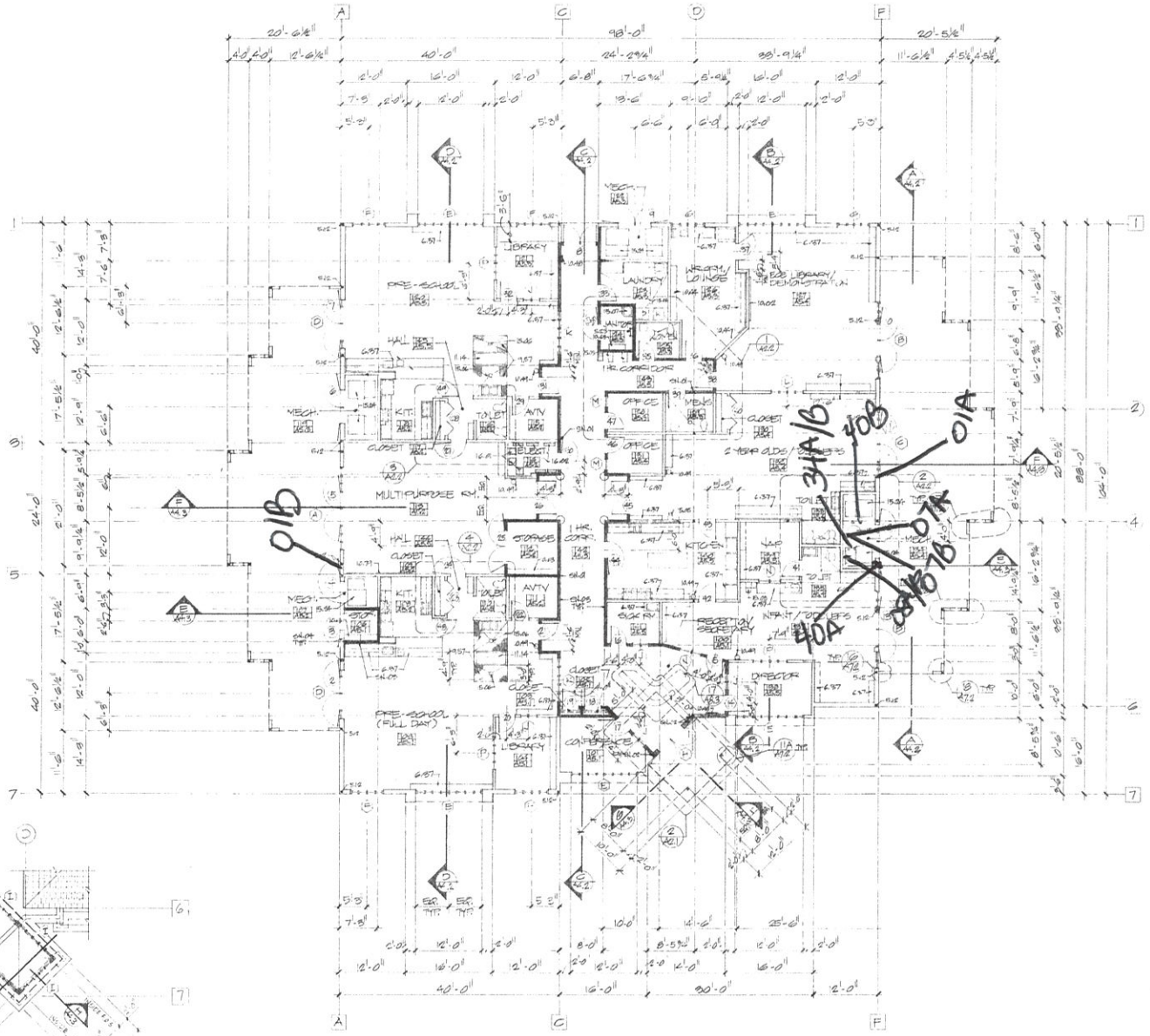
SAMPLE TYPE CODES		
BC – BioCassette ™	CP – Contact Plate	D – Dust
A1S – Anderson	SW – Swab	SO – Soil
SAS – Surface Air Sampler	B – Bulk	O – Other:
P – Potable Water	NP – Non-Potable Water	

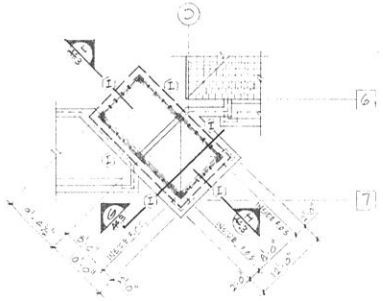
RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
Shannon Johanson	10/30/24 13[...]	[signature]	10/30/24 1344

By submitting this Chain of Custody, you agree to be bound by the terms and conditions set forth at: https://www.eurofinsus.com/environment-testing/built-environment/resources/sampling-guides-and-forms/

PMP

Sample Maps





KEYNOTES

5.12 TUBE STEEL
5.25 STEEL LADDER
6.97 CABINWORK
9.57 RUBBER MAT
10.02 DRY MARKERBOARD
10.44 INTERIOR LOCKERS: STAFF
10.68 METAL STORAGE SHELVING
10.71 MIRROR
10.48 FIRE EXTINGUISHER AND CABINET
10.99 FIRE EXTINGUISHER: WALL MOUNTED
11.14 STAINLESS STEEL SINK
15.05 DRINKING FOUNTAIN (ELECTRIC)
15.06 FLOOR DRAIN
15.07 SERVICE SINK
15.08 WATER HEATER
15.24 HVAC UNIT
16.01 ELECTRICAL EQUIPMENT
16.02 ELECTRICAL PANELS

SHEET NOTES

SN.01 1 HR. COLUMN (INT.) SEE 4/A7.4
SN.02 1 HR. COLUMN (EXT.) SEE 2/A7.4
SN.03 1 HR. WALL (INT.) SEE 1/A7.4
SN.04 1 HR. WALL (EXT.) SEE 2/A7.4

GENERAL NOTES

1. ALL WALLS SHALL BE 2X6 STUDS @ 16" O.C. UNLESS OTHERWISE NOTED.
2. SEE SHEET A2.6 FOR ADDITIONAL DIMENSIONS.

(2) CLERESTORY PLAN
1/8" = 1'-0"

Building 200

(1) FLOOR PLAN
CHILD CARE/DEVELOPMENT FACILITY
SCALE: 1/8" = 1'-0"

STAFFORD, KING & ASSOCIATES ARCHITECTS
JOHN STAFFORD C-7375
GORDON L KING L-5490
1210 G STREET (916)443 4899
SACRAMENTO CALIFORNIA 95814

APPROVAL

REVISIONS

NO.	DESCRIPTION	DATE

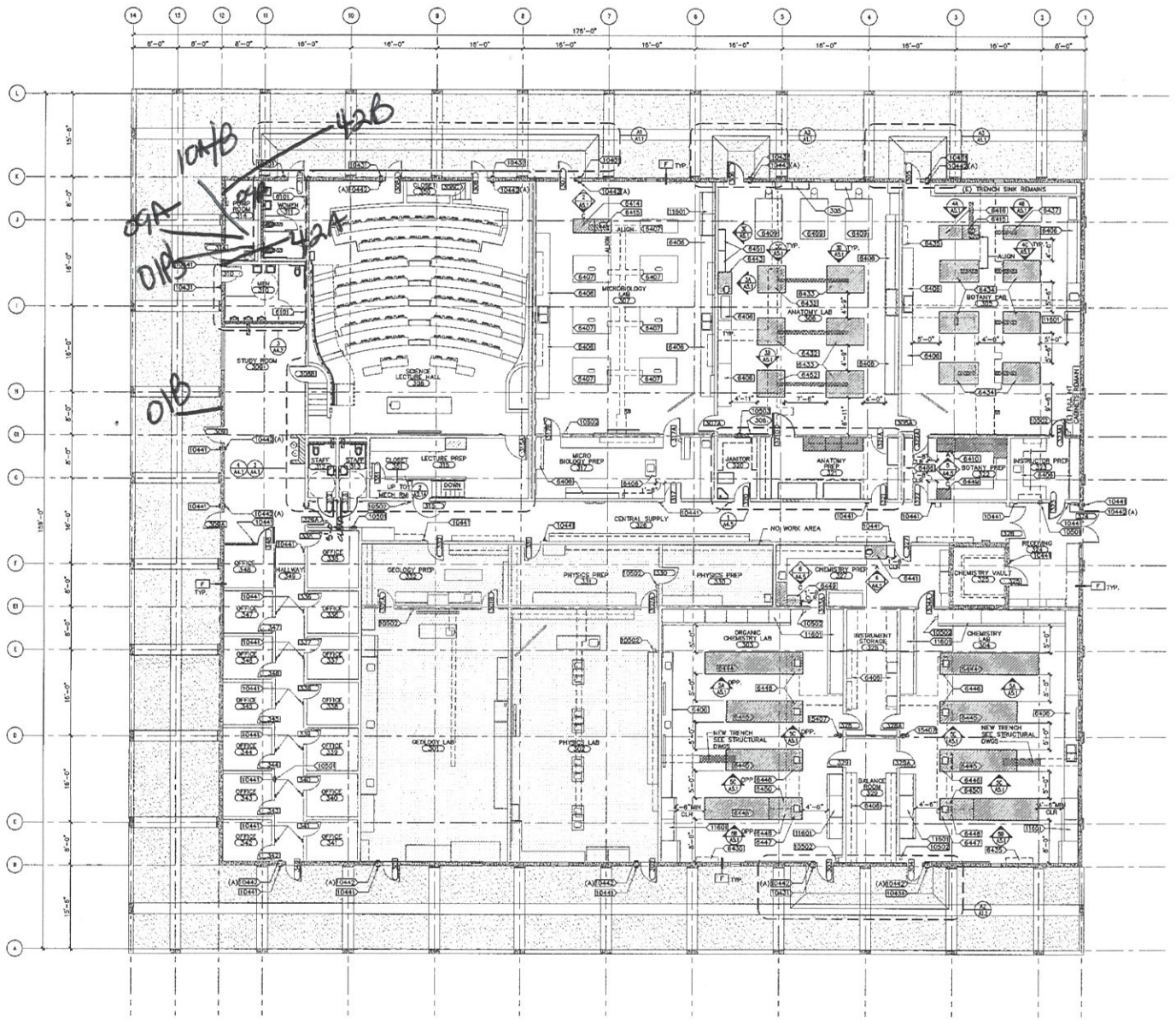
KEY PLAN

PROJECT TITLE
SOLANO COMMUNITY COLLEGE
CHILD CARE/DEVELOPMENT FACILITY
SOLANO COUNTY COMMUNITY COLLEGE DISTRICT
SUISUN, SOLANO COUNTY, CALIFORNIA

DRAWING TITLE
FLOOR PLAN

DRAWN BY	CHECKED BY	APPROVED BY
MH/LL	GK	

JOB NO. 2025 | DATE | DRAWING NO. A2.1
COMPUTER NO.
DATE



1 OVERALL FLOOR PLAN - BUILDING 300

1/8" = 1'-0"

WALL LEGEND:

(E) CONCRETE WALL (TO REMAIN)
(E) WOOD FRAME WALL (TO REMAIN)
(N) WOOD FRAME WALL TYP. (U.N.O.)
(N) 1 HOUR RATED OCCUPANCY SEPARATION WALL

WALL TYPE SYMBOL

B2
STUD SIZE
WALL TYPE

NOTE:
SEE SHEETS A3.2 FOR WALL TYPES.

ASSEMBLY FIRE RATING
MUST MEET REQUIREMENTS FOR UL ASSEMBLY LISTED IN WALL TYPES. SEE A3.2

KEY NOTES:

6101 RE-NAIL (E) SHEATHING PER STRUCTURAL DRAWINGS
6406 (E) CASEWORK, REMAINS
6407 (E) STUDENT ISLAND, REMAINS
6409 (E) CADAVER TABLE, TEMPORARILY MOVE FOR INSTALLATION OF VCT. FINAL RELOCATION BY OWNER
6410 39" WIDE x 30" DEEP x 36" HIGH BASE CABINET AND DOUBLE DRAWERS W/ EPOXY RESIN TOP AND BACKSPLASH
6414 ADA COMPLIANT TABLE 48" WIDE X 30" DEEP x 34" HIGH W/ EPOXY RESIN TOP WITH ELECTRIC AND DATA RECEPTACLES
6415 ADA COMPLIANT SINK CABINET 36" WIDE x 30" DEEP x 34" HIGH WITH EPOXY RESIN TOP, BACKSPLASH AND DECK MOUNTED HAND HELD EYEWASH
6416 ADA COMPLIANT TABLE W/ CABINET 50" WIDE X 30" DEEP x 34" HIGH W/ EPOXY RESIN TOP WITH ELECTRIC AND DATA RECEPTACLES
6417 1" THICK END SUPPORT PANEL
6418 ADA COMPLIANT TABLE 30" WIDE X 30" DEEP x 34" HIGH W/ EPOXY RESIN TOP
6432 FOUR STUDENT ISLAND UNIT, 60" WIDE X 60" DEEP X 36" HIGH WITH ELECTRIC AND DATA RECEPTACLES
6433 SIX STUDENT ISLAND UNIT, 84" WIDE X 60" DEEP X 36" HIGH WITH ELECTRIC AND DATA RECEPTACLES
6434 FOUR STUDENT ISLAND UNIT, 84" WIDE X 48" DEEP X 36" HIGH WITH ELECTRIC AND DATA RECEPTACLES
6435 (E) WALL MOUNTED STORAGE CUBICLES REMAIN
6437 TWO STUDENT ISLAND UNIT, 72" WIDE X 30" DEEP X 36" HIGH WITH ELECTRIC AND DATA RECEPTACLES
6441 ADA COMPLIANT TABLE 60" WIDE X 24" DEEP x 34" HIGH WITH ELECTRIC AND DATA RECEPTACLES, EPOXY RESIN TOP
6443 ADA COMPLIANT TABLE 48" WIDE X 30" DEEP x 34" HIGH WITH EPOXY RESIN SINK, DECK MOUNTED HAND HELD EYEWASH, AND BACKSPLASH.
6444 EIGHT STUDENT ISLAND UNIT 15'-0" WIDE x 48" DEEP x 36" HIGH WITH GAS, ELECTRIC AND DATA RECEPTACLES
6445 SIX STUDENT ISLAND UNIT 12'-0" WIDE x 48" DEEP x 36" HIGH WITH GAS, ELECTRIC AND DATA RECEPTACLES
6446 DOUBLE TABLE SERVICE HUB AND SINK 48" WIDE X 24" DEEP X 36" HIGH
6447 DOUBLE TABLE SERVICE HUB AND SINK 48" WIDE X 24" DEEP X 34" HIGH
6448 ADA COMPLIANT TABLE 48" WIDE X 24" DEEP x 34" HIGH W/ EPOXY RESIN TOP
6449 30" WIDE x 24" DEEP x 36" HIGH BASE CABINET AND DRAWER WITH EPOXY RESIN COUNTERTOP AND BACKSPLASH
6450 STUDENT WORKTABLE 48" WIDE X 24" DEEP X 34" HIGH W/ EPOXY RESIN TOP
6451 MICROSCOPE STORAGE CASE
6452 FOUR STUDENT ADA COMPLIANT UNIT, 60" WIDE X 60" DEEP X 36" HIGH WITH ELECTRIC AND DATA RECEPTACLES
10430 BUILDING ENTRANCE SIGNAGE, SEE DETAIL 18/A0.2
10432 DIRECTION ACCESSIBILITY SIGNAGE, SEE DETAIL A1/A0.2
10441 ROOM I.D. SIGNAGE, SEE DETAIL 18/A0.2
10442 EXIT SIGNAGE, SEE DETAIL 18/A0.2
10501 (E) FIRE EXTINGUISHER CABINET
10502 (E) WALL MOUNTED FIRE EXTINGUISHER
10503 (N) FIRE EXTINGUISHER CABINET, SEE SPECIFICATION SECTION 10520, TYP.
11601 (E) FUME HOOD(S) REMAIN
15407 NEW ADA EYEWASH AND EMERGENCY SHOWER

RELOCATION TAGS:

304 TWO FULL HEIGHT CABINETS (FROM WITHIN ANATOMY 306)
305 ONE FULL HEIGHT CABINET (FROM WITHIN ANATOMY 306)
306 48"W X 48"H BULLETIN BOARD (FROM ANATOMY 306)
326 ELECTRIC CLOCK (FROM LECTURE HALL 308)

LEGEND

NEW EPOXY RESIN COUNTERTOP
NEW UTILITY TRENCH, SEE 11/A5.1
NO WORK AREA

DREYFUSS+BLACKFORD
ARCHITECTS
1624 FOLSOM BOULEVARD
SACRAMENTO, CALIFORNIA 95816
TELEPHONE 916.442-1924
FACSIMILE 916.442-1928

GENERAL NOTES:

1. DO NOT SCALE DRAWINGS, WRITTEN DIME SHALL ESTABLISH LOCATION OF ALL PARTIT CONTRACTOR SHALL NOTIFY ARCHITECT OF DISCREPANCIES IN THE DRAWINGS BEFORE PROCEEDING WITH CONSTRUCTION.
2. PARTITIONS ARE DIMENSIONED FROM FAC FINISH.
3. PARTITIONS ARE PARALLEL OR PERPENDI TO COLUMN GRID, U.O.N.
4. NOTES TO ALIGN SHALL MEAN TO ALIGN FINISHED FACE OF PARTITION, U.O.N., AND HAVE PRIORITY OVER DIMENSIONED LOCATIO
5. SEE STRUCTURAL DRAWINGS (TYPICAL DE FOR WALL MOUNTED EQUIPMENT AND CASE BACKING. CONTRACTOR TO SELECT APPROP CONDITION BASED ON WEIGHT OF EQUIPMEN MOUNTED.
6. SEE TYPICAL DETAIL 4/A8.1 FOR ACOUSTI TREATMENT AT ELECTRIC BOXES AND SWITC RECESSED IN WALL.
7. SEE TYPICAL DETAIL 4/A8.1 FOR GYPSUM WALL BOARD INSTALLATION.
8. SEE ENLARGED RESTROOM PLANS FOR S FACILITY SIGNAGE.
9. SEE ELECTRICAL DRAWINGS FOR ILLUMIN EXIT SIGNAGE.
10. PATCH & REPAIR (E) GYP. BOARD DAM DURING DEMOLITION OF WALL COVERING OR CONSTRUCTION. APPLY A THIN SKIM COAT JOINT COMPOUND, SAND AND APPLY ORANG TEXTURE TO THE ENTIRE SURFACE.

CONSTRUCTION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
A#02-106804
AC 4 FLS 10 SS/CC
DATE 3-23-2005

REVISION	BY	DATE

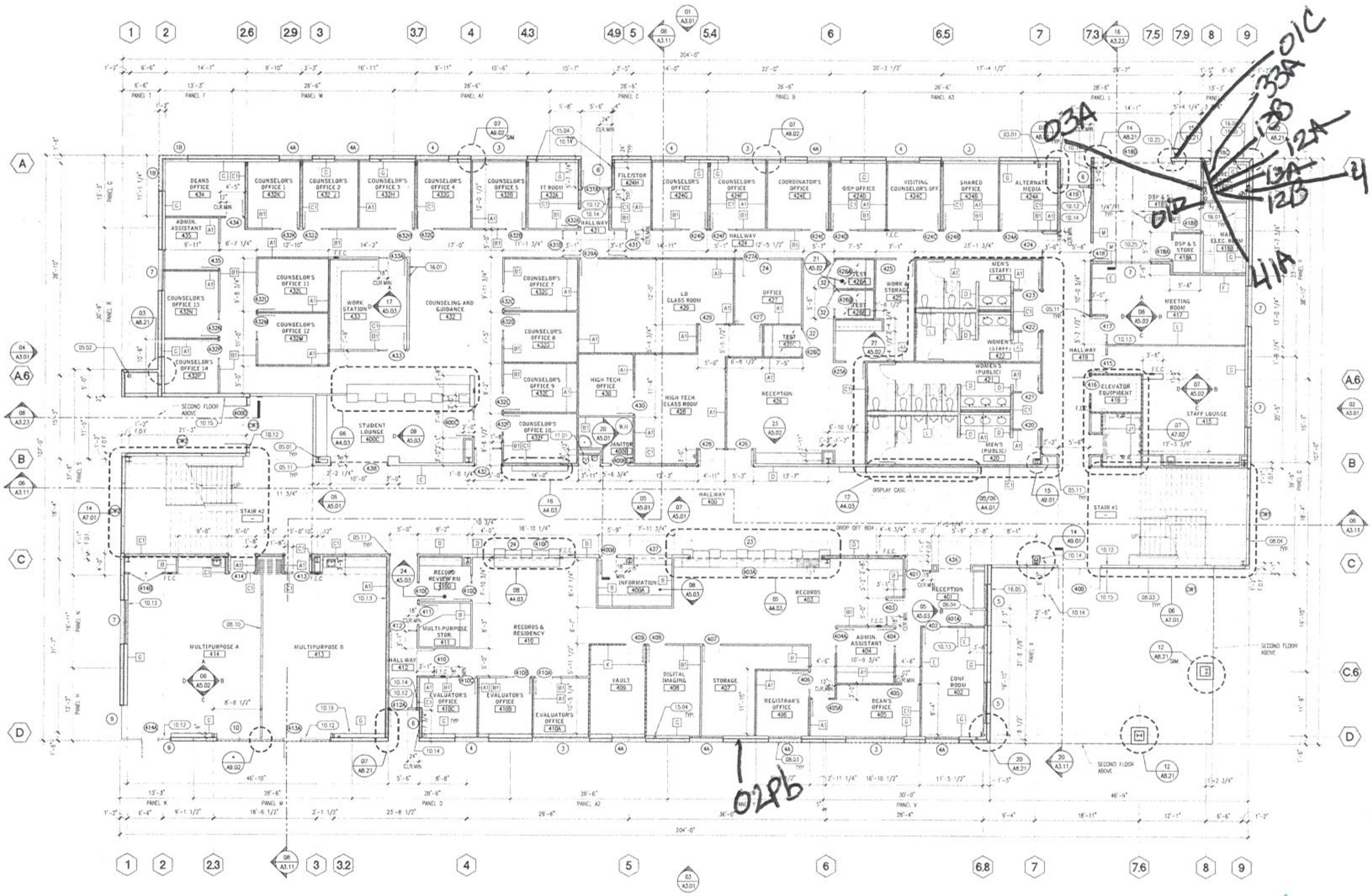
SOLANO COMMUNITY COLLEGE
BUILDINGS 300, 500, 1500 MODERNIZATION

BUILDING 300 FLOOR PLAN

A4745.02 - .04
1/8" = 1'-0"
21 MARCH 2005

NORTH

A2.1A



FIRST FLOOR PLAN | 08

KEYNOTES

- 03.01 CONCRETE TILT-UP PANEL
- 05.01 COLUMN SEE, STRUCTURAL DRAWINGS
- 05.02 STRUCTURAL TUBE STEEL SEE,STRUCTURAL DRAWINGS
- 05.11 STAINLESS CORNER GUARD, SEE 13/A9.05
- 06.04 PARTIAL HEIGHT PARTITION
- 08.03 STORE FRONT SYSTEM
- 08.04 CURTAIN WALL WINDOW SYSTEM
- 08.10 OPERABLE PARTITION WALL
- 10.12 TACTILE EXIT SIGNAGE, SEE 11/A10.01
- 10.13 ADA ASSISTIVE LISTENING SYMBOL, SEE 06/A10.01
- 10.14 POWER ASSISTED PUSH BUTTON, CENTER TO BE MOUNTED @ 36" A.F.F. SEE 10/A10.01 FOR BOLLARD MOUNTED
- 10.15 ACCESSIBLE WALL SIGNAGE, SEE 07/A10.01
- 10.19 MAX OCCUPANCY SIGNAGE, SEE 09/A10.01
- 10.25 SIGNAGE FOR ELECTRIC CARTS, SEE 17/A10.1
- 11.31 DRINKING FOUNTAINS, SEE 17/A9.05
- 15.04 4" RAIN WATER LEADER
- 15.08 FLOOR DRAIN SEE, 08/A9.05
- 16.01 ELECTRICAL PANELS
- 16.04 ALARM BELL, FOR MOUNTING HEIGHT, SEE E5.3
- 16.05 KNOX BOX

GENERAL NOTES

1. REFER TO A0.01 FOR NON-SHEET SPECIFIC GENERAL PROJECT NOTES
2. EXTERIOR DIMENSIONS ARE TO FACE OF CONCRETE TILT-UP, TYP., U.N.O. INTERIOR DIMENSIONS ARE TO FACE OF STUD, TYP., U.N.O.
3. COORDINATE ALL DIMENSIONS WITH STRUCTURAL FOUNDATION PLANS
4. VERIFY ALL WALL CONSTRUCTION & FRAMING SIZES WITH STRUCTURAL DWG'S
5. FOR TYPICAL CASEWORK DETAILS SEE SHEET A9.06
6. ALL DOOR & WINDOW DIMENSIONS ARE TO CENTERLINE OF DOOR / WINDOW, U.N.O. WHEN NO DIMENSION IS GIVEN FOR A DOOR, EDGE OF THE DOOR TO BE 4" OUT FROM PERPENDICULAR WALL, WHERE OCCURS
7. UNLESS OTHERWISE NOTED, THE TYPICAL PARTITION IS TYPE B
8. FOR WALL TYPES, SEE SHEET A9.01
9. PROVIDE 2" GROMMET AT ALL CASEWORK WITH COMPUTER STATIONS

WALL TYPE LEGEND

- A: 3-5/8" METAL STUDS @ 16" O.C. UP TO STRUCTURE ABOVE 5/8" GYP. BD. TYPE-X ON BOTH SIDES. SEE 06/A9.01
- A1: SAME AS 'A' WITH INSULATION. SEE 05/A9.01
- B: 3-5/8" METAL STUDS @ 16" O.C. 6" ABOVE CEILING LINE 5/8" GYP. BD. TYPE-X ON BOTH SIDES. SEE 06/A9.01
- B1: SAME AS 'B' WITH INSULATION. SEE 06/A9.01
- C: 6" METAL STUDS @ 16" O.C. UP TO STRUCTURE ABOVE 5/8" GYP. BD. TYPE-X ON BOTH SIDES. SEE 05/A9.01
- C1: SAME AS 'C' WITH INSULATION. SEE 05/A9.01
- D: 6" METAL STUDS @ 16" O.C. 6" ABOVE CEILING LINE. 5/8" GYP. BD. TYPE-X ON BOTH SIDES. SEE 06/A9.01
- D1: SAME AS 'D' WITH INSULATION. SEE 06/A9.01
- E: 3-5/8" METAL STUDS @ 16" O.C. UP TO STRUCTURE ABOVE 5/8" GYP. BD. TYPE-X 1 LAYER AND 2 LAYERS ON EACH SIDE WITH INSULATION "STC-50". SEE 07/A9.01
- E1: 3-5/8" METAL STUDS @ 16" O.C. UP TO STRUCTURE ABOVE 5/8" GYP. BD. TYPE-X 1 LAYER AND 2 LAYERS ON EACH SIDE WITH INSULATION "STC-52". SEE 07/A9.01
- G: 6" METAL STUDS @ 16" O.C. UP TO STRUCTURE ABOVE "EXTERIOR FURRING WALL AND MECHANICAL CHASE (NON-RATED). WITH THERMAL INSULATION. SEE 08/A9.01
  - 1 LAYER GYP. BD.
  - 6" ABOVE CEILING LINE.
- H: 6" METAL STUDS @ 16" O.C. UP TO STRUCTURE ABOVE. SEE 08/A9.01
  - 1 LAYER GYP. BD. FINISH
  - 6" ABOVE CEILING LINE.
  - EXTERIOR FURRING WALL WHERE RAIN WATER LEADER RUN THROUGH
- J: 4" CH STUDS @ 24" O.C. UP TO STRUCTURE ABOVE WITH ACOUSTICAL INSULATION.
  - 1 LAYER GYP. BD. FINISH AND 1" CORE-BOARD INSIDE
- J1: SAME AS 'J' - 1 HR. FIRE RATED (ELEVATOR SHAFT). SEE 09/A9.01
- F: 6" METAL STUDS @ 16" O.C. UP TO STRUCTURE ABOVE. 5/8" GYP. BD. TYPE-X ON BOTH SIDES WITH INSULATION. SEE 07/A9.01
- K: SAME AS 'A' - 1 HR. FIRE RATED. SEE 05/A9.01
- L: 11" METAL STUDS - 20GA. SEE 11/A9.01 (2- 3-5/8" AND 3-3/4" GAP)
- M: 6" METAL STUDS @ 16" O.C. UP TO STRUCTURE ABOVE. SEE 13/A9.01 3 COAT CEMENT PLASTER FINISH OVER 1/2" PLYWOOD SHEATHING AND 5/8" GYP. BD.

SYMBOLS LEGEND

- 20 GA. MTL. STUDS @ 16" O.C. - TO 6" ABOVE CEILING, SEE 06/A9.01
- 20 GA. MTL. STUDS @ 16" O.C. - TO BOT. OF ROOF STRUCTURE. SEE 01&02/A9.01
- 20 GA. MTL. STUDS @ 24" O.C. - ONE HOUR RATED WITH ACOUSTICAL BATT INSULATION
- F.E.C. SEMI-RECESSED FIRE EXTINGUISHER CABINET, SEE 18/A9.05
- FIRE RISER STANDPIPE
- WINDOW FRAME SYMBOL, REFER TO FRAME TYPE, SHEET A2.32 & A2.33
- DOOR SYMBOL, REFER TO DOOR SCHEDULE, SHEET A2.31
- SHADED AREAS INDICATE CASEWORK, REFER TO INTERIOR ELEVATIONS
- CORNER GUARD, SEE 13/A9.05

LPA

Architecture
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Landscape Architecture
Graphics

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Solano Community College
Student Services Center (SSC)
Building 400

4000 Suisun Valley Road
Fairfield, CA 94534

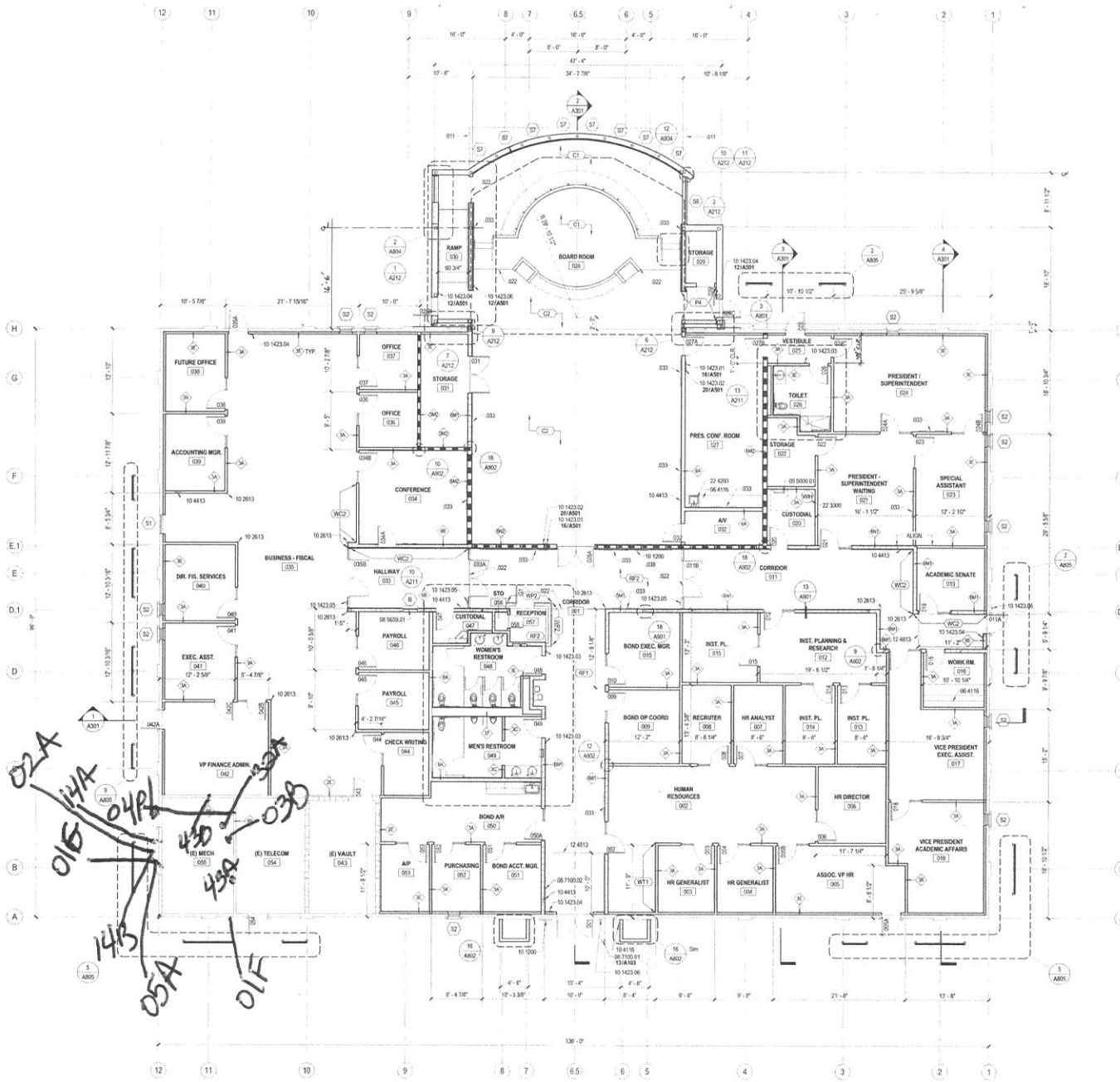
Developed for

Revision Description	Date
DSA SUBMITTAL	September 23, 05
DSA BACKCHECK	February 08, 2006

0 4 8 16

FIRST
FLOOR PLAN

A2.01



1 NEW WORK FLOOR PLAN

1/8" = 1'-0"

Building 600

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GENERAL NOTES

A. SEE SHEET A003 FOR CODE INFORMATION AND ASSEMBLY RATING LEGEND

WALL/PARTITION TAG LEGEND

FOR TYP. INTERIOR PARTITIONS SEE DRAWING "INTERIOR PARTITION DETAILS"

WALL/PARTITION SYMBOL

INDICATES WALL/PARTITION TYPE - SEE WALL & INTERIOR PARTITION DETAILS, SHEET A901

X9A1 — INDICATES ASSEMBLY FIRE RATING IN HOURS (NON RATED WHEN NO NUMBER IS INDICATED)

INDICATES STUD SIZE - SEE "STUD SIZE SCHEDULE" BELOW "X" INDICATES EXTERIOR WALL TYPE

STUD SIZE SCHEDULE

INDICATOR	METAL STUD SIZES
3	3 5/8"
5	5 1/2"
6	6"
8	8"

NOTES:

1. STUDS ARE AT 16" o.c. U.O.N.
2. FOR ADDITIONAL INFORMATION SEE 1/S7.0

REFERENCE KEYNOTES

Key Value	Description
05 5000.01	METAL LADDERS
06 4116	PLASTIC-LAMINATE-CLAD ARCHITECTURAL CABINETS
08 5659.01	ALUMINUM, FIXED TRANSACTION WINDOW
08 7100.01	ACTUATOR, BOLLARD-MOUNTED
08 7100.02	ACTUATOR, WALL-MOUNTED
10 1200	DISPLAY CASES
10 1423.01	PANEL SIGNAGE - ASSISTIVE LISTENING SYSTEM
10 1423.02	PANEL SIGNAGE - MAXIMUM OCCUPANCY SIGN
10 1423.03	PANEL SIGNAGE - TOILET ROOM WALL SIGN
10 1423.04	PANEL SIGNAGE - TACTILE EXIT SIGN
10 1423.05	PANEL SIGNAGE - TACTILE EXIT ROUTE SIGN
10 1423.06	PANEL SIGNAGE - ISA SIGN
10 2613	CORNER GUARDS
10 4116	EMERGENCY KEY CABINETS
10 4413	FIRE EXTINGUISHER CABINETS
12 4813	ENTRANCE FLOOR MATS AND FRAMES
22 3000	PLUMBING EQUIPMENT, S.P.D.
22 4200	COMMERCIAL PLUMBING FIXTURES - S.P.D.

DRAWING NOTES

011	LINE OF ROOF ABOVE
022	FLOOR FINISH TRANSITION
033	VIDEO MONITOR. PROVIDE BACKING, S.A.V.D., MAX. 4" PROTRUSION. TYP., SEE 2/A901
036	4" MAXIMUM PROJECTION FROM WALL

HA+A
HENLEY ARCHITECT + ASSOCIATE
190 S. Orchard Ave., Suite C
Vacaville, CA 95
P: 707.344.1
F: 707.446.1
www.henleyarch

LICENSED ARCHITECT — STATE OF CALIFORNIA

CONSULTA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL: 02-113343
FILE: 48-C1
DATE 4-2-2014

APPROV.

BID SI

PROJ

MODERNIZATION
EXPANSI

BUILDING 6(
ADMINISTRATIC

SOLANO COMMUNI
COLLEGE DISTRIC
FAIRFIELD, (

DESCRIPTION	DATE	M

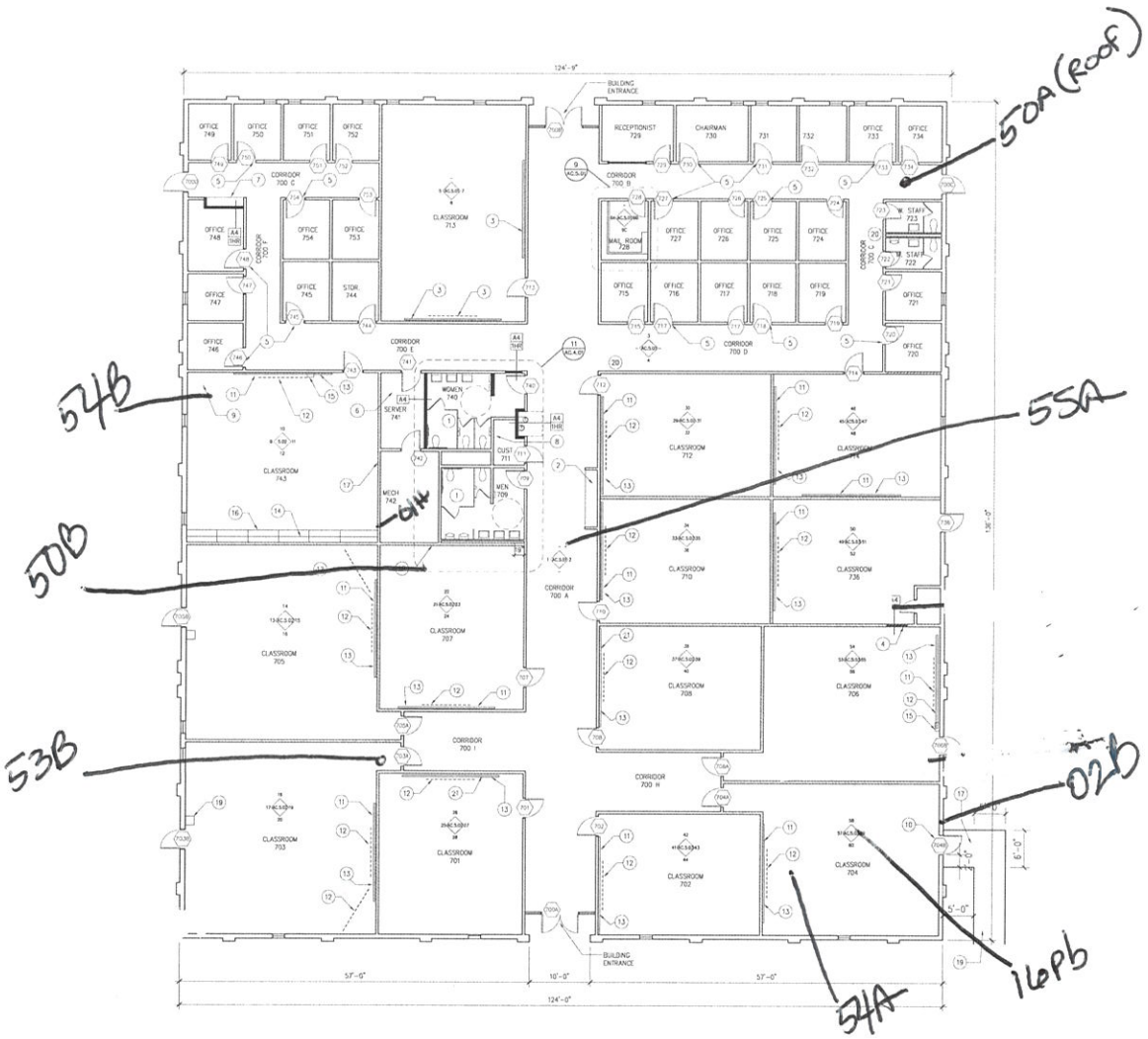
PROJECT NO: 1
DATE: 03/26
DRAWING FILE:
DRAWN BY:
CHECKED BY:

SHEET TI

NEW WORK FLOOR PL

SHEET

A20



BUILDING 700 FLOOR PLAN

1/8" = 1'-0"

1

GENERAL NOTES

A. PROVIDE NEW FINISH FLOORING THROUGHOUT – SEE FINISH SCHEDULE

B. EXTEND WALLS BETWEEN CLASS ROOMS TO ROOF DECK ABOVE WITH 2X4 STUDS AT 16" O.C. 5/8" GYP BOARD EACH SIDE.

C. CAULK PERIMETER OF ALL INTERIOR PARTITIONS FOR SOUND CONTROL

KEY NOTES

1. (N) / REMODELED ACCESSIBLE RESTROOM SEE 11/AC 4.01
2. EXISTING DISPLAY CASE TO REMAIN
3. DEMO (E) DOOR, FRAME AND PORTION OF WALL, TO ALLOW FOR NEW WALL INFILL AND FINISHES TO MATCH (E)
4. REMOVE (E) DOOR AND FILL IN
5. DEMO (E) DOOR AND FRAME, INSTALL NEW FRAMING AND HEADER AS REQUIRED TO ENLARGE DOOR TO A 3'-0" DOOR. PATCH AND REPAIR (E) FINISHES BOTH SIDES OF WALL TO MATCH (E)
6. CASEWORK TO BE REMOVED. PATCH WALL TO MATCH (E) FINISHES
7. TEN NEW LOCKERS SEE 18/A8.04
8. (N) ROOF ACCESS LADDER AND HATCH
9. (E) CABINET TO BE REMOVED. PATCH WALL TO MATCH (E) FINISHES
10. (N) EXTERIOR DOOR, DEMO (E) STUCCO AS REQUIRED, INSTALL NEW FRAMING/HEADER/WATER PROOFING AND DOOR. PATCH AND PAINT STUCCO TO MATCH (E)
11. (N) MARKER BOARD
12. (N) PULL – DOWN PROJECTION SCREEN
13. (E) MARKERBOARD TO BE REMOVED. PATCH AND REPAIR WALL FINISHES TO MATCH (E)
14. (N) PLASTIC LAMINATE COUNTER TOP
15. RELOCATE (E) ALARM ABOVE CEILING
16. (N) CABINETS SEE INTERIOR ELEVATION
17. (N) CONCRETE SIDEWALK. PROVIDE 60" x 60" MIN CLEAR AND LEVEL LANDING AT DOORS. MAX SLOPE IN ANY DIRECTION 1/4" : 1'-0"
18. PROVIDE ADDITIONAL LAYER OF 5/8" GYP. BOARD FLOOR TO ROOF ON CLASSROOM 707 SIDE OF PARTITION. INSTALL SOUND SEALANT AROUND PERIMETER AND AT ALL PENETRATIONS THRU WALL
19. SEE SITE PLAN FOR CONTINUATION OF SIDE WALK
20. INSTALL DIRECTIONAL SIGNAGE TO NEW ADA ACCESSIBLE RESTROOM SEE 4/A8.01
21. NEW CHALK BOARD

LEGEND

- EXISTING WALL TO REMOVE
- EXISTING WALL TO REMAIN
- NEW WALL

EXTEND (E) WOOD FRAME WALL PARTITIONS TO UNDERSIDE OF ROOF DECK. INSTALL SOUND INSULATION, SHEETROCK BOTH SIDES, TAPE & MUD. INSTALL SOUND SEALANT AT HEAD OF WALL AND AROUND ALL (E) AND (N) PENETRATIONS THRU WALL. SEE 6/A8.04

A4 — (N) 4" FULL HEIGHT WALL, 5/8" GYP BOTH SIDES, SOUND INSULATION, AND SOUND SEALANT TOP AND BOTTOM AND AROUND ALL PENETRATIONS. PROVIDE 6" CONCRETE CURB AT ALL RESTROOM AND JANITOR ROOM WALLS, SEE2/A8.03

A4 1HR — (N) 1HR 4" FULL HEIGHT WALL, 5/8" TYPE X GYP BOTH SIDES SOUND INSULATION, AND FIRE CAULKING TOP AND BOTTOM AND AROUND ALL PENETRATIONS. PROVIDE 6" CONCRETE CURB AT ALL RESTROOM AND JANITOR ROOM WALLS, SEE2/A8.03

Solano Community College
Buildings 700, & Annex
Suisun Valley Road, Fairfield, CA 94534

owner
Solano Community College District
4000 Suisun Valley Rd
Fairfield, CA 94534

architect
Steinberg Architects
60 Pierce Avenue
San Jose CA 95110

REGISTERED ARCHITECT JAMES V. HAN No. C13447 STATE OF CALIFORNIA

CERTIFICATION STAMP DSA / OFFICE OF REGULATION SERVICES APPL # 10 7508

rev	date	issue
1	02.01.06	DSA BACKCHECK SUBMITTAL
2	09.30.05	DSA SUBMITTAL
1	06.16.05	SCHEMATIC DESIGN

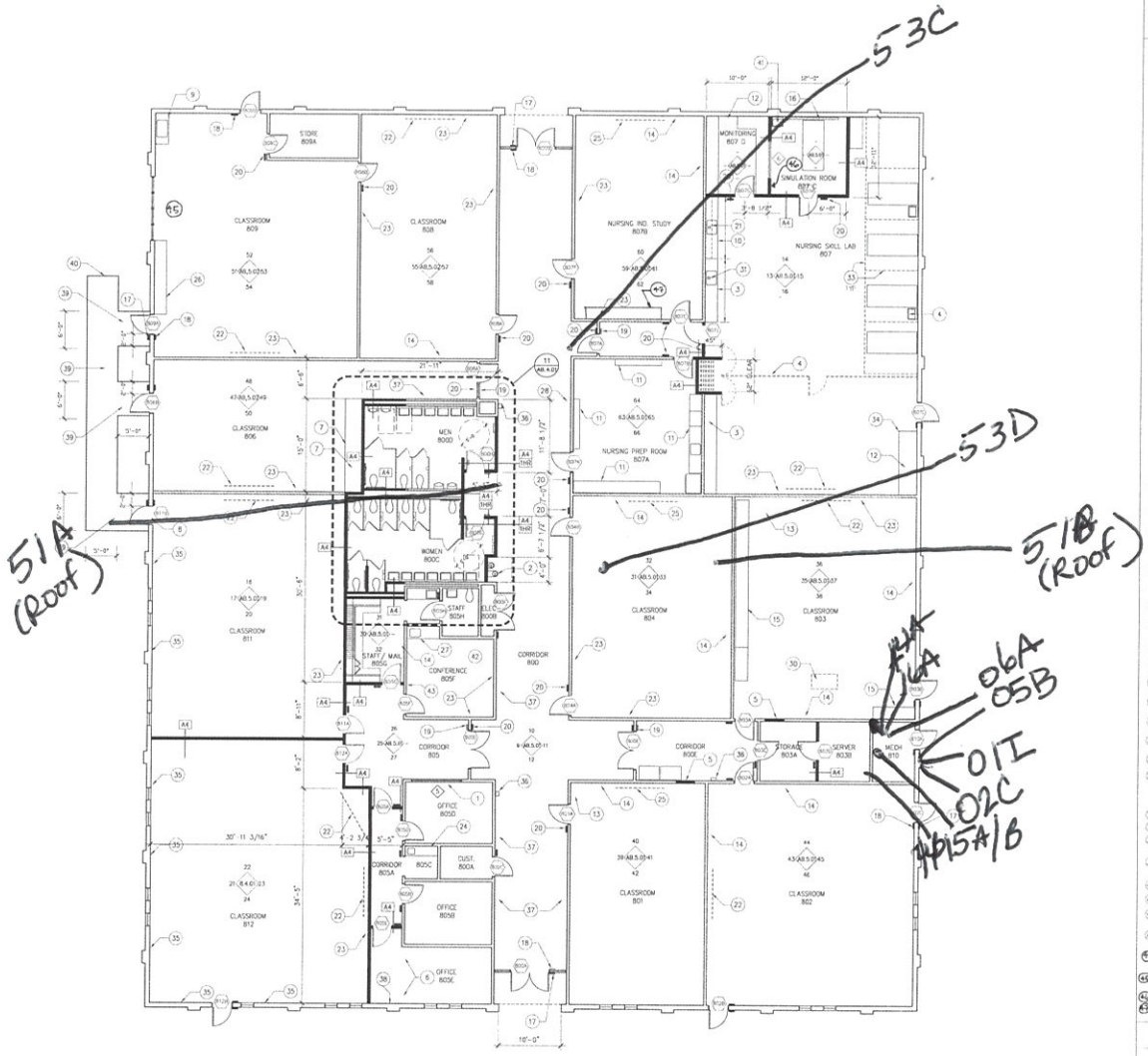
key plan

STEINBERGARCHITECTS

project no: 05-005 date: 02.01.06
drawn by: checked by: JVH
scale: 1/8"=1'-0"

BUILDING 700 FLOOR PLAN

AC-2.02



BUILDING 800 FLOOR PLAN
1/8"=1'-0" (1)

GENERAL NOTES

A. PROVIDE NEW FINISH FLOORING THRUOUHOUT – SEE FINISH SCHEDULE

B. EXTEND WALLS BETWEEN CLASS ROOMS TO ROOF DECK ABOVE WITH 2X4 STUDS AT 16" O.C. 5/8" GYP BOARD EACH SIDE.

C. CAULK PERIMETER OF ALL INTERIOR PARTITIONS FOR SOUND CONTROL

KEY NOTES

(1) (N) SLIDING WINDOW IN EXISTING WALL, DEMO SHEETROCK AS REQUIRED, INSTALL NEW HEADER AND WINDOW, INSTALL DRYWALL AND VINYL TO MATCH (E) AND PAINT PER SCHEDULE

(2) (N) HI-LOW DRINKING FOUNTAIN, SEE 6/A8.01

(3) REMOVE (E) CASEWORK AND REPLACE WITH NEW CASEWORK TO MATCH (E)

(4) (N) FOLDING PARTITION WITH ACCESS DOOR. CO-ORDINATE POCKET SIZE & DETAILS WITH MANUFACTURER BEFORE COMMENCING FRAMING. SEE STRUCTURAL DWGS FOR HEADER AND FRAMING DETAILS.

(5) REMOVE EXISTING DOOR AND FRAME. FRAME IN OPENING, INSTALL NEW SHEETROCK AND VINYL TO MATCH (E), PAINT PER SCHEDULE

(6) DEMO (E) WALL AND DOORS

(7) (N) CABINET

(8) (N) EXTERIOR DOOR, DEMO (E) STUCCO AS REQUIRED, INSTALL NEW FRAMING/HEADER/WATER PROOFING AND DOOR. PATCH AND PAINT STUCCO TO MATCH (E)

(9) (N) SINK AND CASEWORK, CONNECTED TO (E) PLUMBING

(10) (N) POST FORM TOP ON (E) CABINET

(11) (N) CASEWORK – SEE INTERIOR ELEVATIONS

(12) REMOVE (E) CABINET AND RELOCATE TO ROOM 809

(13) (E) CASEWORK TO BE REMOVED

(14) (E) MARKER BOARD TO REMAIN

(15) (E) CABINETS TO REMAIN

(16) (E) ELECTRICAL SIMULATION PANEL TO REMAIN AND RECEIVE NEW PAINT.

(17) (N) ROOM ID – BUILDING ENTRANCE SIGNAGE ISA – ONLY REQUIRED AT MAIN ENTRANCE

(18) (N) EXIT SIGN

(19) (N) EXIT ROUTE SIGNAGE, SEE 26/A8.01

(20) (N) ROOM ID SIGNAGE TYPICAL AT ALL INTERIOR DOORS SEE 22/A8.01

(21) INSTALL (E) SINK HERE, SEE KEY NOTE 31

(22) (N) PROJECTION SCREEN

(23) (N) MARKER BOARD

(24) DEMO (E) SINK & INSTALL (N) BAR SINK

(25) (E) PROJECTION SCREEN TO REMAIN

(26) RELOCATED FROM ROOM 807

(27) (N) FULL HEIGHT CABINET AND ADJUSTABLE SHELVES

(28) (N) DISPLAY CABINET 8'- WIDE x 8" DEEP SEE DETAIL SHEET

(29) (E) DRAWERS TO REMAIN

(30) REMOVE (E) TEACHING STATION

(31) (E) SINK TO BE RELOCATED

(32) RE – INSTALL (E) CURTAINS AND TRACK

(33) EXTEND WALL PARTITION TO ROOF ABOVE, TYPICAL, SEE ??????

(34) NEW STORAGE CABINET SEE DETAIL

(35) (E) WOOD PANELLING TO REMAIN. PROTECT PANELLING DURING CONSTRUCTION, ALL DAMAGE TO (E) PANELLING DURING CONSTRUCTION WILL BE REPLACED IN KIND BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE DISTRICT / OWNER

(36) (E) FIRE EXTINGUISHER

(37) (E) TACK BOARD TO REMAIN

(38) REMOVE (E) WOOD PANELLING ON THIS WALL, INSTALL NEW SHEETROCK & VINYL TO MATCH (E) AND PAINT AS SCHEDULED

(39) (N) CONCRETE SIDEWALK. PROVIDE 60" x 60" MIN CLEAR AND LEVEL LANDING AT DOORS. MAX SLOPE IN ANY DIRECTION 1/4" - 1'-0"

(40) CONFORM TO (E) SIDEWALK

(41) (E) SINK AND FAUCETS TO REMAIN

(42) PROVIDE NEW PORTABLE ASSISTIVE LISTENING SYSTEM FOR CONFERENCE ROOM

(43) NEW ASSISTIVE LISTENING SIGN, SEE 27/A8.01 FOR CONFERENCE ROOM

(44) CLEAN ALL (E) HVAC DIFFUSERS AND GRILLES – TYP. THROUGHOUT BUILDING 800.

(45) NEW ARMSTRONG ACOUSTICAL CEILING TILES OVER (E) CEILING.

(46) NEW PHONE AND DATA

(47) (E) COMPUTER WORKSTATION TO REMAIN.

LEGEND

- EXISTING WALL TO REMOVE
- EXISTING WALL TO REMAIN
- NEW FULL HEIGHT WALL, 5/8" SHEET ROCK BOTH SIDES, INSULATION AND SOUND SEALANT/FIRE CAULKING PER WALL CALL OUTS.
- EXISTING DOOR TO REMOVE
- EXTEND (E) WOOD FRAME WALL PARTITIONS TO UNDERSIDE OF ROOF DECK. INSTALL SOUND INSULATION, SHEETROCK BOTH SIDES, TAPE & MUD. INSTALL SOUND SEALANT AT HEAD OF WALL AND AROUND ALL (E) AND (N) PENETRATIONS THRU WALL. SEE 6/A8.04
- A4 — (N) 4" FULL HEIGHT WALL, 5/8" GYP BOTH SIDES, SOUND INSULATION, AND SOUND SEALANT TOP AND BOTTOM AND AROUND ALL PENETRATIONS. PROVIDE 6" CONCRETE CURB AT ALL RESTROOM AND JANITOR ROOM WALLS, SEE 2/A8.03
- A4 1HR — (N) 1HR 4" FULL HEIGHT WALL, 5/8" TYPE X GYP BOTH SIDES SOUND INSULATION, AND FIRE CAULKING TOP AND BOTTOM AND AROUND ALL PENETRATIONS. PROVIDE 6" CONCRETE CURB AT ALL RESTROOM AND JANITOR ROOM WALLS, SEE 2/A8.03

Solano Community College
Buildings 700, 800, & Annex
Suisun Valley Road, Fairfield, CA 94534

owner
Solano Community College District
4000 Suisun Valley Rd
Fairfield, CA 94534

architect
Steinberg Architects
[illegible]

REGISTERED ARCHITECT JAMES V. HAN No. C13447 STATE OF CALIFORNIA

rev	date	issue
3	02.01.06	DSA BACKCHECK SUBMITTAL
2	09.30.05	DSA SUBMITTAL
1	06.16.05	SCHEMATIC DESIGN

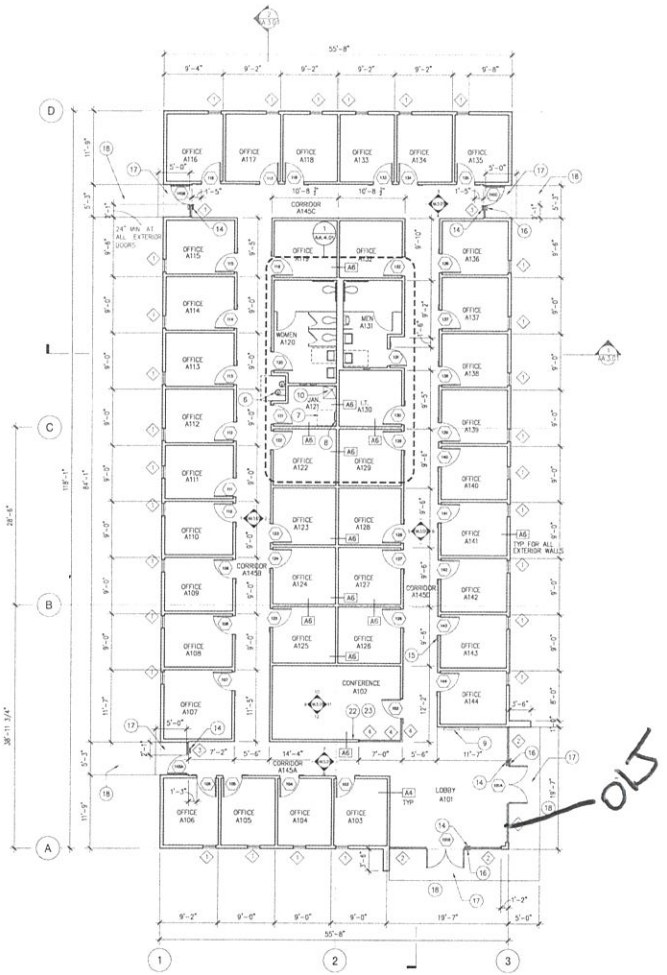
key plan

STEINBERGARCHITECTS

project no. 05-005 date 02.01.06
drawn by checked by JVH
scale 1" = 1'-0"

BUILDING 800 FLOOR PLAN

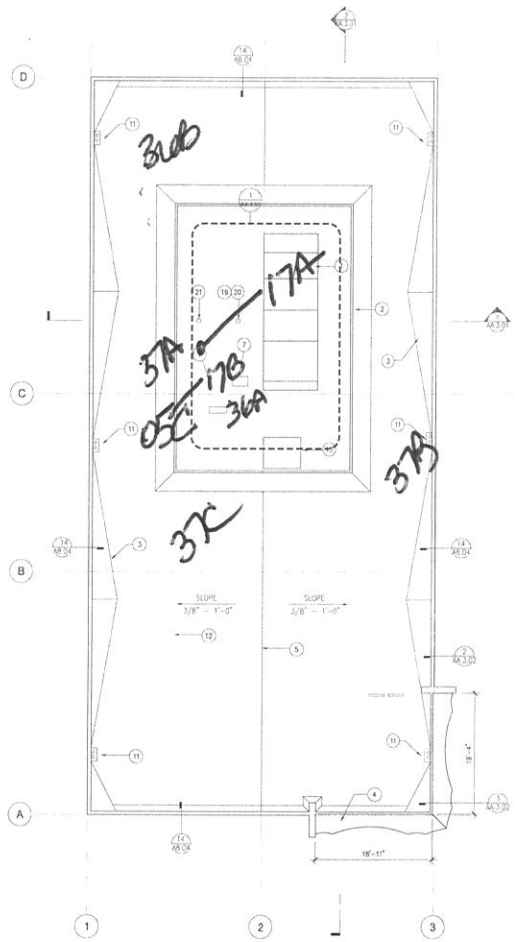
AB-2.02



FACULTY OFFICES FLOOR PLAN (NEW) 2

1/8" = 1'-0"

NOTE:
FOR ROOM ID SIGNAGE AND ENTRANCE SIGNAGE DETAIL SEE DRAWING NO. A8-01



FACULTY OFFICES ROOF PLAN 1

1/8" = 1'-0"

Building 900

GENERAL NOTES

KEY NOTES

1. MECHANICAL EQUIPMENT. SEE MECHANICAL DRAWINGS
2. METAL "TILE" MECHANICAL ROOF SCREEN SEE A8.05
3. TYPICAL CRICKET– COVER BOARD OVER TAPPERED INSULATION MIN SLOPE 3/8"–1'–0"
4. MANSARD ROOF – SEE SHEET AA–3.02
5. ROOF RIDGE LINE
6. HIGH–LOW DRINKING FOUNTAIN WITH GUARD RAILS SEE 21/A8.01, 6/A8.01,7/A8.01
7. 30"X36" ROOF HATCH SEE DETAIL 22/A8.04
8. ROOF LADDER SEE DETAIL 21/A8.04
9. 7# BUILDING DIRECTORY SIGN BOARDS
10. MOP SINK – SEE PLUMBING DRAWINGS
11. ROOF DRAIN & OVER FLOW SEE DETAIL 16/A8.04 AND PLUMBING DRAWINGS
12. BUILT UP ASPHALT ROOFING ASSEMBLY SEE 20/A8.04
13. HVAC PUMP PENTHOUSE, SEE MECHANICAL DRAWINGS FOR DETAIL SEE 25/A8.04 FOR CURB PLATFORM DETAIL
14. EXIT SIGN TYPICAL AT EXTERIOR DOORS – SEE 26/A8.01
15. ROOM ID SIGNAGE TYPICAL AT ALL INTERIOR DOORS – SEE 22/A8.01
16. ROOM ID – BUILDING ENTRANCE SIGNAGE ISA – ONLY REQUIRED AT MAIN ENTRANCE – SEE 18/A8.01
17. CLEAR AND LEVEL LANDING 60" IN DIRECTION OF DOOR SWING 1/A"1'–0" MAX SLOPE IN ANY DIRECTION
18. FOR CONTINUATION OF PATH OF TRAVEL SEE SITE PLAN A1.01
19. FOR CONDENSATE AND REFRIGERANT PIPING QUANTITIES AND FLASHING DETAILS SEE PLUMBING DRAWINGS AND SPECS
20. SEE 23/A8.04 FOR TYP VENT PIPE FLASHING DETAILS AND QUANTITIES . SEE ALSO PLUMBING DRAWINGS.
21. TYP ELECTRICAL ROOF PENENTRATION. SEE 19/A8.04 SEE ELECTRICAL DRAWINGS FOR QUANTITY.
22. PROVIDE NEW PORTABLE ASSISTIVE LISTENING SYSTEM FOR CONFERENCE ROOM
23. NEW ASSISTIVE LISTENING SIGN, SEE 27/A8.01 FOR CONFERENCE ROOM

A4 — ALL WALLS U.O.N ARE (N) 4" FULL HEIGHT WALLS, 5/8" GYP BOTH SIDES, INSTALL SOUND INSULATION, AND SOUND SEALANT TOP AND BOTTOM AND AROUND ALL PENETRATIONS INSTALL FIRE BLOCKING AT 8'–0" AFFL PROVIDE 6" CONCRETE CURB AT ALL RESTROOM AND JANITOR ROOM WALLS SEE 2/A8.03

A6 — ALL EXTERIOR WALLS AND THOSE NOTED ARE (N) 6" FULL HEIGHT WALLS, INSTALL SOUND INSULATION, AND SOUND SEALANT TOP AND BOTTOM AND AROUND ALL PENETRATIONS INSTALL FIRE BLOCKING AT 8'–0" AFFL SEE STRUCTURAL DRAWINGS FOR SHEAR PLY LOCATIONS. 5/8" GYP ON BOTH SIDE OF INTERIOR PARTITIONS AND INSIDE OF EXTERIOR WALLS PROVIDE 6" CONCRETE CURB AT ALL RESTROOM AND JANITOR ROOM WALLS SEE 2/A8.03

LEGEND

Solano Community College
Buildings 700, 800, & Annex
Suisun Valley Road, Fairfield, CA 94534

owner
Solano Community College District
4000 Suisun Valley Rd
Fairfield, CA 94534

architect
Steinberg Architects
60 Pierce Avenue
San Jose CA 95110

LICENSED ARCHITECT — TIMOTHY F. PARK — No. C13447 — REGISTERED PROFESSIONAL ARCHITECT — STATE OF CALIFORNIA

CERTIFICATION STAMP — DIV. OF THE STATE ARCHITECT — OFFICE OF REGULATION SERVICES — APPL # 10-7908

rev	date	issue
	02.01.06	DSA BACKCHECK SUBMITTAL
3	09.30.05	DSA SUBMITTAL
2	06.16.05	SCHEMATIC DESIGN

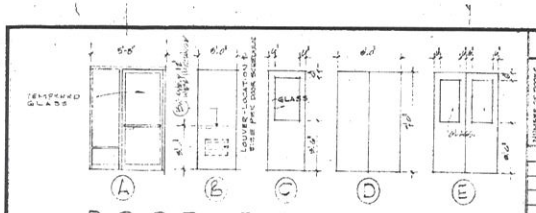
key plan

STEINBERGARCHITECTS

project no. 05–005 date 02.01.06
drawn by checked by
scale 1/8"=1'–0"

FACULTY OFFICE FLOOR PLAN
FACULTY OFICE ROOF PLAN

AA-2.01



DOOR SCHEDULE

DOOR NO.	SIZE	TYPE	DOOR MATERIAL	DOOR FINISH	FRAME	JAMB & HEAD DETAIL	HARDWARE GROUP	GLASS	REMARKS
901	3'-0" x 7'-0"	A	AL	①	AL		1	TEMP.	① ANODIZED AL.-BRONZE COLOR
901A	PR. 3'-0" x 7'-0"	B	HM	PAINT	HM		2	WIRE	
901B	3'-0" x 7'-0"	C	HM	PAINT	HM		3	WIRE	
902	3'-0" x 7'-0"	C	HM	PAINT	HM		4	WIRE	
902A	3'-0" x 7'-0"	C					5		FURNISHED W/GREEN HOUSE
903	3'-0" x 7'-0"	C					5		FURNISHED W/GREEN HOUSE
903A	5'-0" x 7'-0"	C					5		FURNISHED W/GREEN HOUSE
904	3'-0" x 7'-0"	B	WD	STAIN	HM		6		LOUVRE 1'-3" x 1'-3"
905	3'-0" x 7'-0"	B	WD	STAIN	HM		6		LOUVRE 1'-3" x 1'-3"
906	3'-0" x 7'-0"	B & C	WD	STAIN	HM		6 & 7		B & C = DUTCH DOOR W/ SHELF
906A	PR. 2'-5" x 7'-0"	D	HM	PAINT	HM		8		
906B	3'-0" x 7'-0"	B	HM	PAINT	HM		8		
907	3'-0" x 7'-0"	C	WD	STAIN	HM		6		WIRE
908	3'-0" x 7'-0"	B	HM	PAINT	HM		8		

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	CEILING	FLOOR	BASE	WALLS	CEILING	REMARKS
901	HEAD HOUSE	3	1	1	1	1	1. LOCATION OF PLASTER CEILING
902	PROPAGATION HOUSE	3	1	1	1	1	2. PLASTER CEILING WALLS ONLY
903	GREEN HOUSE	3	1	1	1	1	3. TILE - CERAMIC @ GYP. WAINSCOT
904	MAIN	3	1	1	1	1	
905	WOMEN	3	1	1	1	1	
906	STORAGE & ISSUE	3	1	1	1	1	4. VINYL CUSHION FLOOR
907	OFFICE	3	1	1	1	1	5. FURNISHED W/GREEN HOUSE
908	ENTRY	3	1	1	1	1	
909	HALL	3	1	1	1	1	
909	MECHANICAL	3	1	1	1	1	

DOOR TYPES

WOMEN — NORTH — SOUTH — WEST — EAST WING WALL 905

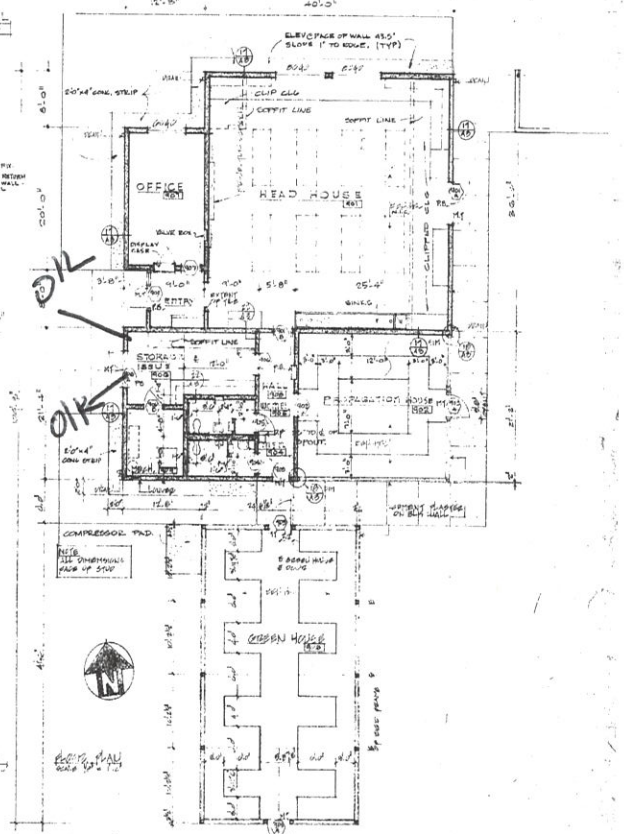
MEN — NORTH — SOUTH — EAST — WEST — WING WALL 904

STORAGE & ISSUE — NORTH — EAST — SOUTH — WEST 906

HEAD HOUSE — EAST — WEST 901

ENTRY — NORTH

HEAD HOUSE — NORTH — SOUTH 901



STATE OF CALIF. - DEPT. OF GEN. SERVICES OFFICE OF ARCHITECTURE & CONSTRUCTION APPROVED 1/1/76	APPROVED STATE FIRE MARSHAL STATE OF CALIFORNIA APPROVED	CONSULTANTS

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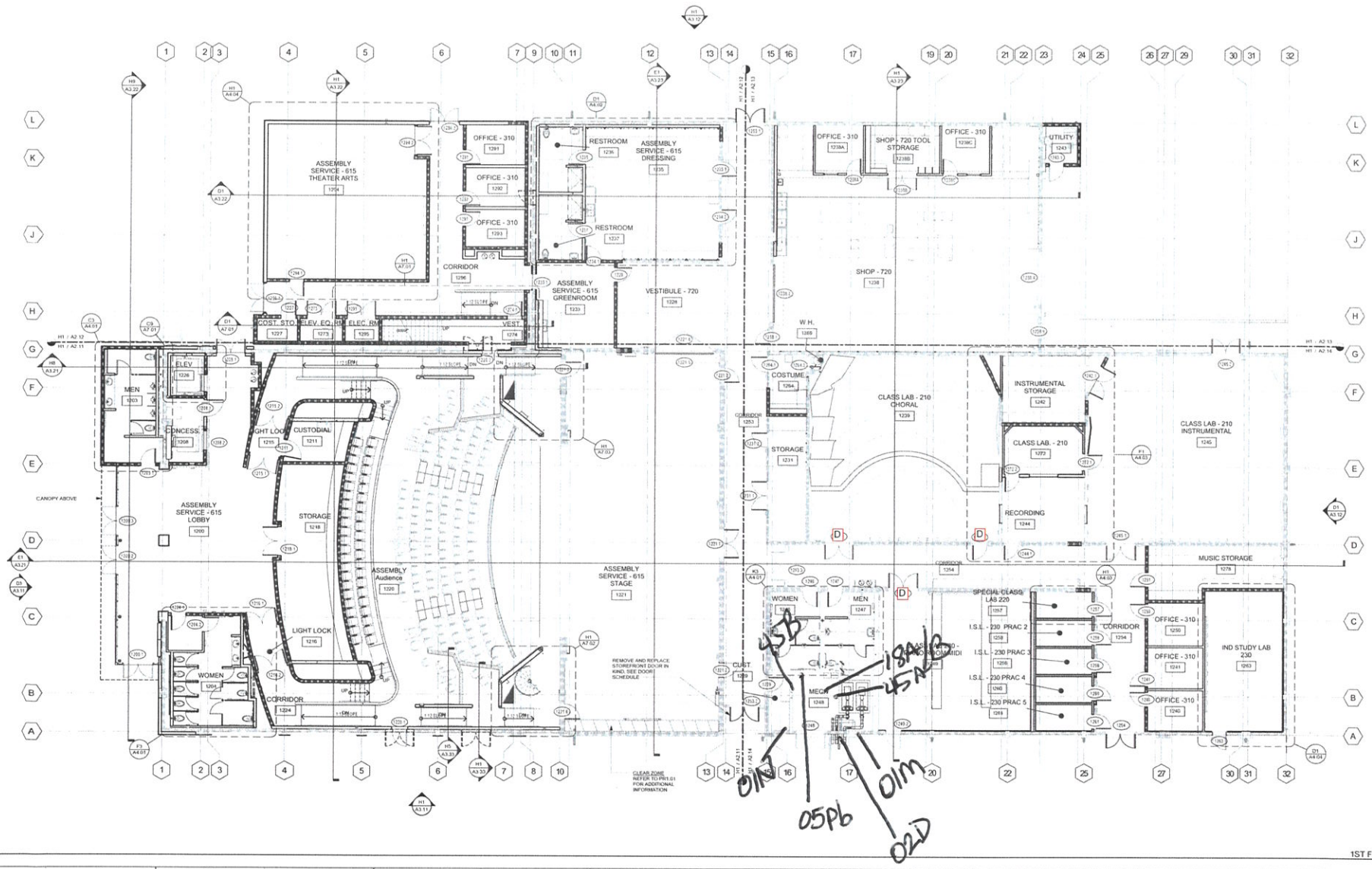
SOLANO COUNTY JUNIOR COLLEGE
SOLANO COUNTY JUNIOR COLLEGE DISTRICT
ARCHITECT | OWNER | CONTRACTOR

HORTICULTURE BUILDING # 900
FLOOR PLAN - INTERIOR ELEVATIONS

DATE 11-17-75
DRAWN
DWG. NO. A-03 of 5
JOB NO.



1ST FLOOR PLAN | H1
1/8" = 1'-0"

FLOOR PLAN LEGEND

- EXISTING
- NEW
- EXISTING 1-HR RATED
- NEW 1-HR RATED
- EXISTING 2-HR RATED
- NEW 2-HR RATED
- EXISTING 3-HR RATED
- NEW 3-HR RATED
- DOOR NUMBER, SEE DOOR SCHEDULE SHEET A2.01
- WINDOW/STOREFRONT NUMBER, SEE WINDOW SCHEDULE SHEET A2.02
- MATCHLINE
- WALL TYPE SEE SHEETS A9.10 - A9.11

NO.	ISSUE	DATE

SOLANO COMMUNITY COLLEGE

BUILDING 1200 THEATER RENOVATION

INCREMENT 2
4000 SUISUN VALLEY ROAD, FAIRFIELD,CA

ARCHITECT / CONSULTANT

APPROVAL

DSA FILE NO: 48-C1
INCREMENT 2
02-113590
DATE 9-3-15

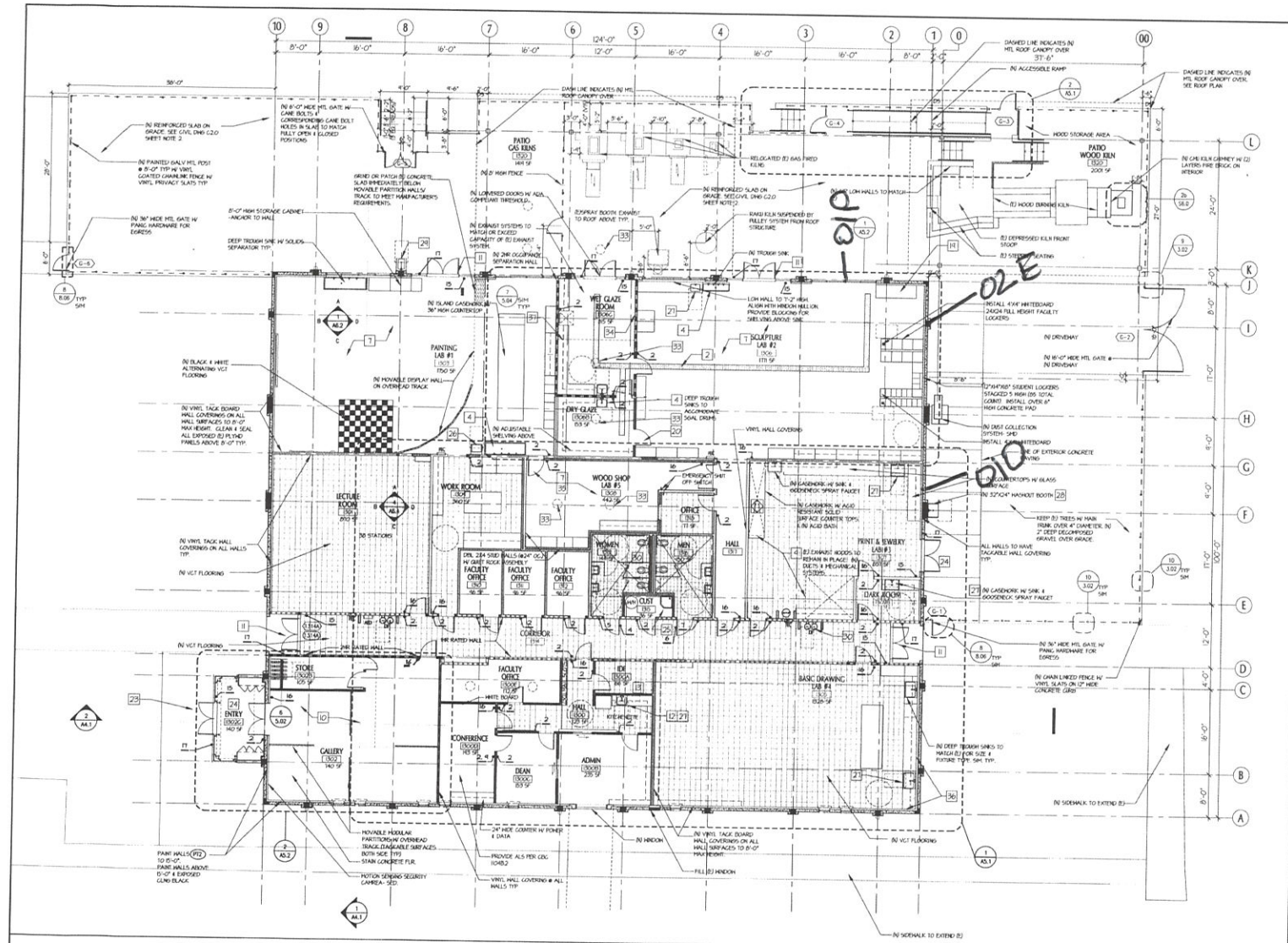
LPAS
2484 Natomas Park Drive Suite 100 Sacramento CA 95833
916 443 0335 lpasdesign.com Architecture + Design

FIRST FLOOR PLAN

SCCD PROJECT NO: 14-014
LPAS PROJECT NO: 764-0002
DATE: 04-22-2015
SHEET NO:

A2.10

CONSTRUCTION S



GENERAL NOTES

1. ALL DIMENSIONS ARE FROM GRIDLINE, FACE OF FRAMING OR FACE OF CONC./ CMU, U.O.N. VERIFY ALL DIMENSIONS IN THE FIELD.
2. WHEREVER AN ENLARGED PLAN DETAIL IS CALLED OUT, DETAIL KEYING ON LARGER PLAN DETAILS TAKE PRESCEDENCE. KEYING MAYBE OMMITTED ON SMALLER PLAN DETAIL WHEN THAT OCCURS.
3. TYPICAL CONDITIONS:
   TYPICAL DETAILS APPLY TO ALL CONSTRUCTION EXCEPT WHERE SHOWN DIFFERENTLY.
   SIMILARITY:
   IF CERTAIN FEATURES ARE NOT FULLY SHOWN OR CALLED FOR ON THE DRAWINGS OR SPECIFICATIONS, THEIR CONSTRUCTION WILL BE OF THE SAME CHARACTER FOR SIMILAR CONDITIONS THAT ARE SHOWN, DETAIL, MARKED, SPECIFIED OR CALLED FOR.
4. DO NOT SCALE DRAWINGS
5. CONTRACTOR TO NOTIFY ARCHITECT OF ANY ADJUSTMENT REQUIRED TO CLEAR STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL CONDITIONS AND WORK THAT OCCURS ADJACENT
6. CONTRACTOR TO VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO FABRICATION AND ASSEMBLY OF ALL ELEMENTS OF THE WORK.
7. WHERE (E) FRAMING + PARTITIONS ARE TO REMAIN (N) FINISHES, ACOUSTIC REQUIREMENTS + FIRE RATING WILL REQUIRE REPLACEMENT OF (E) GYPBD/ WALL BOARD/ SHEATHING TYP.

PLAN LEGEND

- ROOM — ROOM NAME
- 100 — ROOM NUMBER
- INTERNATIONAL SYMBOL OF ACCESSIBILITY
- 1 H - A — PARTITION TYPES - SEE A.01
- 100 — DOOR NUMBER - SEE SCHEDULE: B.01
- 100 — WINDOW NUMBER - SEE SCHEDULE: B.02
- 100 — LOUVER NUMBER - SEE SCHEDULE: B.02
- 100 — TOILET ACCESSORY SYMBOL
- 100 — EQUIPMENT SYMBOL
- 100 — FLOOR FINISH, SEE SCHEDULE: 10.01
- DEMO (E) LANDSCAPING
- DEMO (E) CONC. SLAB
- (E) PRECAST CONCRETE WALLS
- 1 HR. RATED WALL ASSEMBLY - SEE A.01
- 2 HR. RATED WALL ASSEMBLY - SEE A.01
- (N) WALL - INFILL
- EXISTING PARTITION TO BE DEMOLISHED
- F.E.C. — FIRE EXTINGUISHER CABINET, DIMENSIONED TO CENTERLINE
- SOUND DEADENING GYPBD. BOTH SIDE OF PARTITION TYP. RESTROOM WALLS TO BE SOUND INSULATED
- (E) POSTS
- STRUCTURAL SHEAR WALLS
- (N) CONCRETE WALKWAY
- AV / TV / IT / LCD INTERFACE
- DETAIL NUMBER - SEE DETAILS ON SHEET 11.01
- SIGNAGE SYMBOL

SHEET NOTES

1. TYPICAL LCD PROJECTORS - CEILING HUNG (SEISMIC MOUNT) CONNECTED TO CAMPUS NET + INSTRUCTOR STATION
2. TRENCH DRAIN W/ (CLAY) SOLIDS SEPARATOR
3. GLAZING BOOTH W/ FILTERS - EXHAUST TO ROOF.
4. ALL SINKS IN ROOMS 1303, 1306, 1306B + 1306 TO HAVE INDUSTRIAL SEDIMENTATION TRAP / SEPARATORS FOR SOLIDS - EASILY ACCESSIBLE FOR ROUTINE CLEANING
5. 110V OUTLETS OR OVERHEAD SUSPENDED GRID - W/ ES50 CORD PIGTAILS TO 7'-0" HEIGHT MIN. LOCK PLUG FOR POTTING HEIGHT CONNECTIONS.
6. PROJECTION SCREEN 10'-0" TYP U.O.N. (12'-0" MIDE MIN WHERE LARGER SCREENS INDICATED
7. DUST COLLECTION SYSTEM - SHD
8. TYP. MULTIMEDIA GRAPHICS STATIONS - FLR RECEPTACLES - 110V POWER DUPLEX EA) + DATA CONNECTION TO CAMPUS NET (LOT) - WALKER DUCT OR SIM. (NO HPS)
9. CANOPY HOODS W/ EXHAUST VENTILATION TO ROOF + SEISMICALLY BRACED HANGERS
10. CEILING HUNG TRACK LIGHTING GRID FOR WALL SPOTS + MODEL SPOTS @ ROOM CENTER - SWITCH / CONTROL SEPARATE WHERE INDICATED
11. (N) DOUBLE EXTERIOR DOORS W/ PANIC HARDWARE. REPLACE ALL (E) THRESHOLDS W/ ADA COMPLIANT THRESHOLDS
12. (N) KITCHEN W/ ACCESSIBLE SINK, REFRIGERATOR, MICROWAVE, COUNTERS, CASEWORK
13. CONDITIONED IDF ROOM - SPLIT SYSTEM TO ROOF
14. -
15. WHITE BOARD (TRIPLE LAYER VERTICALLY STAGGERD W/ TACKABLE SURFACE ON FINAL LAYER) + 10' PROJECTOR SCREEN TYP. U.O.N.
16. NOT USED
17. ROOM LIGHTING CONTROL AT INSTRUCTOR STATION TYP. - SED
18. DIMMABLE LIGHTING TYP. - SED
19. 7'-0" HIGH X 30" DEEP STAINLESS STL SHELVING RACKS TYP.
20. (N) DOOR W/ VISION PANEL + TRANSOM LIGHT ABOVE
21. LIBRARY SHELVES - FLOOR TO 8'-0" ABOVE FLOOR 14" DEEP
22. FLOOR OUTLETS W/ 50V / DATA OUTLETS FOR CONFERENCE TABLE + LCD INTERFACE - SED
23. (N) VESTIBULE ENTRANCE + WALKWAY TO GALLERY
24. (N) STOREFRONT ENTRANCE DOORS W/ PANIC HARDWARE
25. MOP SINK AT CUSTODIAL CLOSET
26. (N) WALL MOUNTED ACCESSIBLE SINK - SPD
27. ACCESSIBLE BASE CABINET + SINK - SEE DTL 9/A.02 + 14/A.02
28. WASHOUT BOOTH (KDL - 32" X 24")
29. (N) EXTERIOR SINK
30. (N) ADA COMPLIANT HI-LO DRINKING FOUNTAIN W/ WING WALL
31. INSTALL (N) FLR MOUNTED HC - SPD
32. FURR OUT (E) DOOR OPENING. INSTALL (N) DOOR AS SCHEDULED
33. 21" DIA. SOLATUBES FOR DAYLIGHTING. BRACED SEISMICALLY
34. (4) 220V 50amp OUTLETS FOR ELECTRIC KILNS - SED
35. INSTALL CENTRALIZED HOOD SHOP DUST COLLECTION SYSTEM - SHD.
36. FUR OUT WALL @ ALL EXTERIOR PRECAST CONCRETE WALLS TO ACCEPT NEW ELECTRICAL/ PLUMBING OR DATA OUTLETS AS NEEDED, TYP.
37. 55'LIL 18" DEEP COUNTERS W/ ADJUSTABLE SHELVING OVER + UNDER COUNTER

NOTE:
ALL NEW CONSTRUCTION TO ALIGN W/ + MATCH ADJACENT FINISHES U.O.N. TYP.

NORTH

0 1' 4' 8' 16' 24'

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tBP/Architecture
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Concord, CA 94520
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architec

consulta

Division of the State Architect
Sacramento Regional Office
1102 Q Street, Ste. 5200
Sacramento, California 95811
ph: (916) 445-8730
agenc

FINE ARTS -BUILDING 1300 ADDITION/ REMODEL

SOLANO COMMUNITY COLLEGE
FAIRFIELD, CALIFORNIA

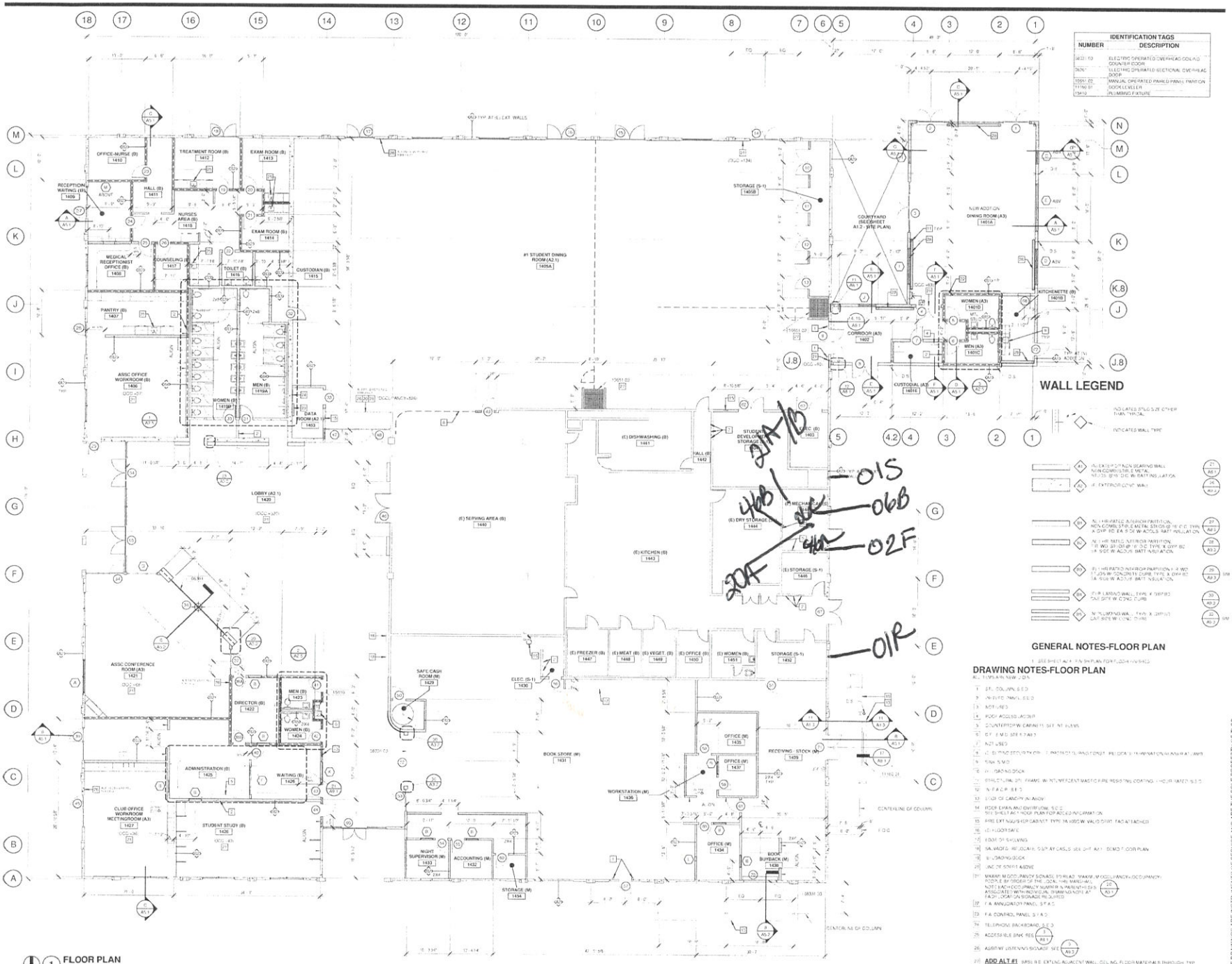
own

tBP project number : 206.14.01
file name: A02-01.DWG
drawn by: GL checked by:
date: 4/8/2011

Rev:	date:	description:

drawing title: 1300
FIRST FLOOR PLAN

drawing no:
A2.1
drawing of



FLOOR PLAN

TLCD ARCHITECTURE
2300 Boynton Avenue, Suite 102
Fairfield, CA 94533
707 421-8795
FAX 707 421-8799

LICENSED ARCHITECT STATE OF CALIFORNIA

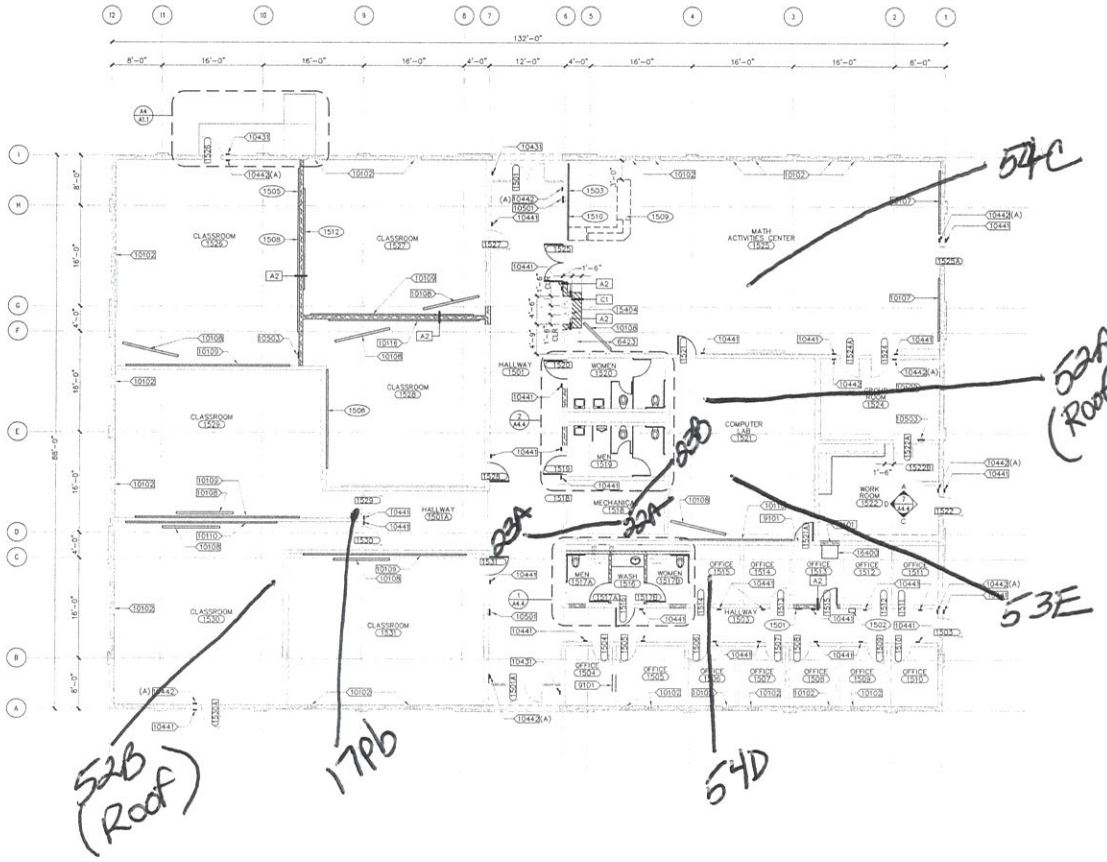
IDENTIFICATION STAMP
DIV OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL 02-108711
FILE 48-C1
ACTION 5/8 50
DATE JUL 3 1 2002

Solano Community College-Building 1400
4000 Suisun Valley Road
Fairfield, Ca. 94534

Solano Community College District
4000 Suisun Valley Road
Fairfield, California

PROJECT NUMBER:
DATE:
DRAWN BY:
CHECKED BY:
REVISIONS:

FLOOR PLAN
A2.2



1 OVERALL FLOOR PLAN - BUILDING 1500

1/8" = 1'-0"

WALL LEGEND:

(E) CONCRETE WALL (TO REMAIN)
(E) WOOD FRAME WALL (TO REMAIN)
(N) WOOD FRAME WALL, TYP. (U.N.O.)
(N) WOOD FRAME ACOUSTICAL WALL, TYP. (U.N.O.)

WALL TYPE SYMBOL

B2
STUD SIZE
WALL TYPE

NOTE:
SEE SHEETS A3.2 FOR WALL TYPES.

ASSEMBLY FIRE RATING
MUST MEET REQUIREMENTS FOR UL ASSEMBLY LISTED IN WALL TYPES, SEE A3.2

KEY NOTES:

- 6423 NEW PLASTIC LAMINATE COUNTERTOP, SEE FINISH SCHEDULE
- 10101 INFILL WALL OPENING, SEE DETAIL 1/10.1
- 10102 HORIZONTAL WINDOW BLINDS
- 10107 12'W X 4'H MARKERBOARD
- 10108 9'PROJECTION SCREEN
- 10109 26'W x 4'H WHITE MARKERBOARD
- 10110 20'W x 4'H WHITE MARKERBOARD
- 10116 24'W x 4'H WHITE MARKERBOARD
- 10120 18'W x 4'H WHITE MARKERBOARD
- 10431 BUILDING ENTRANCE SIGNAGE, SEE DETAIL N4 A8.5
- 10441 ROOM I.D. SIGNAGE, SEE DETAIL N5 A8.5
- 10442 EXIT SIGNAGE, SEE DETAIL N9 A8.5
- 10501 (E) FIRE EXTINGUISHER CABINET
- 10504 (N) FIRE EXTINGUISHER CABINET, SEE SPECIFICATION SECTION 10520, TYP. (E) A8.1
- 15404 NEW HI/LO STAINLESS STEEL REFRIGERATED FOUNTAIN
- 16405 (N) EMERGENCY LIGHTING INVERTER CABINET, SEE ELECTRICAL

RELOCATION NOTES:

- 1501 RECESSED FIRE EXTINGUISHER CABINET, SEE DETAIL (E) A8.1 (FROM HALLWAY 1503)
- 1502 SURFACE MOUNTED EMERGENCY TELEPHONE (FROM HALLWAY 1503)
- 1503 6'W X 4'H BULLETIN BOARD AND FRAME (FROM ROOM 1525)
- 1505 6'W x 4'H CHALKBOARD AND FRAME (FROM CLASSROOM 1528)
- 1506 12'W x 4'H CHALKBOARD AND FRAME (FROM CLASSROOM 1528)
- 1508 20'W x 4'H CHALKBOARD AND FRAME (FROM CLASSROOM 1526)
- 1509 RECEPTION DESK, FURNITURE (FROM ROOM 1525)
- 1510 6'W X 4'H BULLETINBOARD AND FRAME (FROM ROOM 1525)
- 1512 16'W X 4'H CHALKBOARD AND FRAME (STAYS WITHIN CLASSROOM 1527)

DREYFUSS & BLACKFORD
ARCHITECTS
324 FOLSOM BOULEVARD
SACRAMENTO, CALIFORNIA 95864
TELEPHONE 916 455-1936
FACSIMILE 916 455-1938

GENERAL NOTES:

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS SHALL ESTABLISH LOCATION OF ALL PARTITIONS. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN THE DRAWINGS BEFORE PROCEEDING WITH CONSTRUCTION.
2. PARTITIONS ARE DIMENSIONED FROM FACE OF FINISH.
3. PARTITIONS ARE PARALLEL OR PERPENDICULAR TO COLUMN GRID, U.O.N.
4. NOTES TO ALIGN SHALL MEAN TO ALIGN FINISHED FACE OF PARTITION, U.O.N., AND SHALL HAVE PRIORITY OVER DIMENSIONED LOCATION.
5. SEE STRUCTURAL DRAWINGS (TYPICAL DETAIL FOR WALL MOUNTED EQUIPMENT AND CASEWORK BACKING. CONTRACTOR TO SELECT APPROPRIATE CONDITION BASED ON WEIGHT OF EQUIPMENT TO BE MOUNTED.
6. SEE TYPICAL DETAIL CA A8.1/7 FOR ACOUSTICAL TREATMENT AT ELECTRIC BOXES AND SWITCHES RECESSED IN WALL.
7. SEE TYPICAL DETAIL CK A8.1/7 FOR GYPSUM WALL BOARD INSTALLATION.
8. SEE ENLARGED RESTROOM PLANS FOR SANITARY FACILITY SIGNAGE.
9. SEE ELECTRICAL DRAWINGS FOR ILLUMINATED EXIT SIGNAGE.
10. PATCH & REPAIR (E) GYP. BOARD DAMAGED DURING DEMOLITION OF WALL COVERING OR OTHER CONSTRUCTION. APPLY A THIN SKIM COAT OF JOINT COMPOUND, SAND AND APPLY ORANGE PEEL TEXTURE TO THE ENTIRE SURFACE.
11. MARKERBOARDS, TACKBOARDS AND BULLETIN BOARDS SHALL BE MOUNTED SO THE BOTTOM FACE ALIGNS WITH THE BOTTOM OF EXISTING BOARDS

CONSTRUCTION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
A#02-106804
DATE 3-22-2005

REVISION	BY	DATE

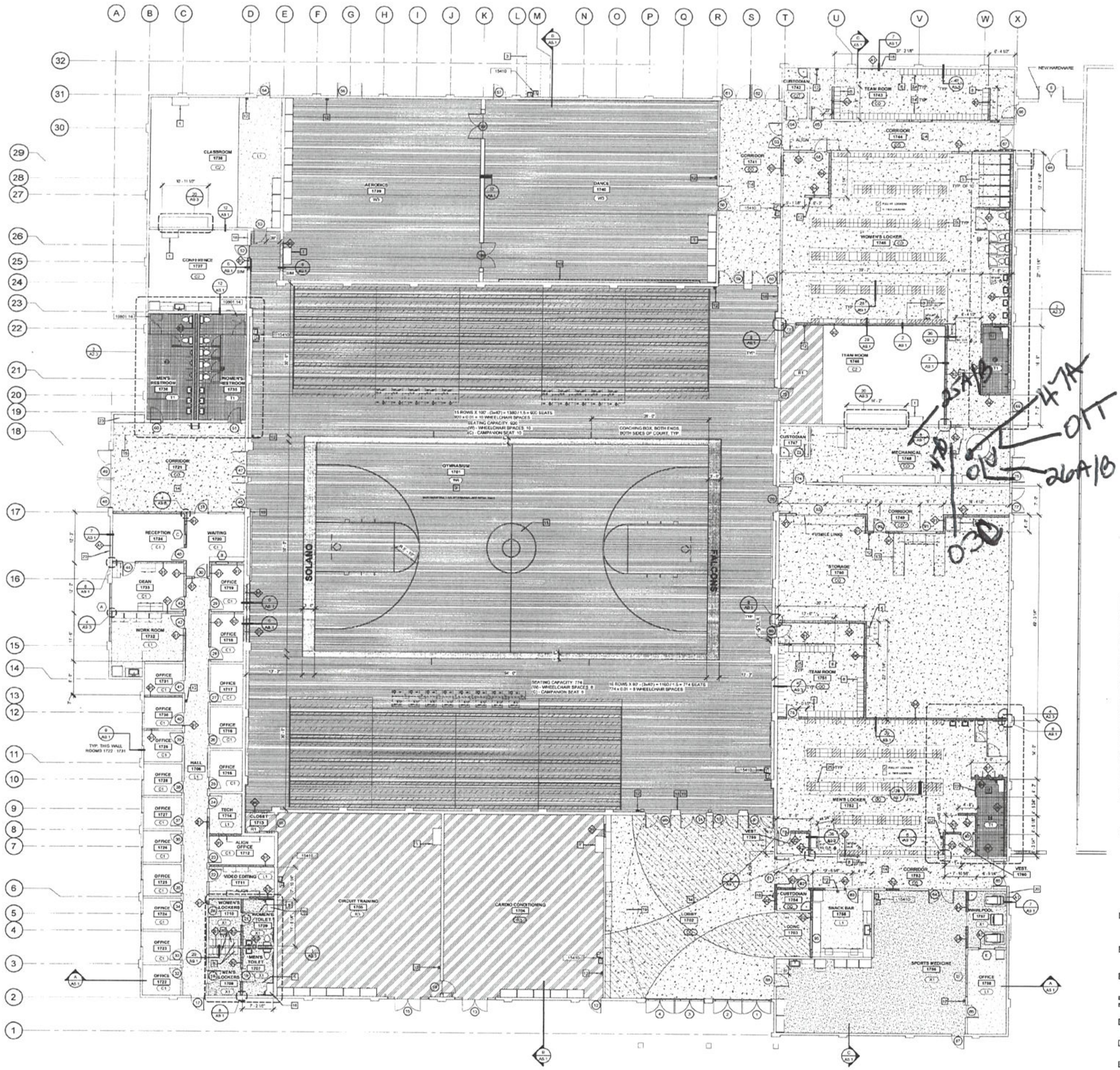
SOLANO COMMUNITY COLLEGE
BUILDINGS 300, 500, 1500
MODERNIZATION

BUILDING 1500
FLOOR PLAN

A4745.02 - .04
1/8" = 1'-0"
21 MARCH 2005

NORTH

A2.1C



3 FLOOR PLAN

KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
10801.14	CHANGING STATION
15410	PLUMBING FIXTURE

DRAWING NOTES

1. SMART PANEL LOCATION, N.I.C.
2. COURT STRIPING LAYOUT, SEE SHT. A2.3
3. REPLACE CONCRETE PAVING THIS AREA IN ORDER TO CONNECT TO SEWER
4. STL LADDER, COORDINATE LOCATION w/ STRUCTURE ABOVE 41/A9.2
5. CURTAIN ROD AND CURTAIN
6. HEAT EXCHANGER, S.M.D.
7. AREA OF (N) CONCRETE SLAB OVER BASE ROCK, S.S.D.
8. ADA LOCKER LOCATION
9. TICKET BOOTH, SEE
10. REINSTALL BALLET BARS
11. FALCON LOGO @ CENTER COURT
12. FIRE EXTINGUISHER, TYPE 2A10BC w/ VALID CERTIFICATION TAG ATTACHED
13. RECEPTION DESK AT STORAGE, SEE
14. CORRIDOR CONSTRUCTION, SEE 11/A9.3
15. NOT USED
16. ADA SHOWER STALL, SEE 35/A9.1
17. ADA SHOWER, SEE 34/A9.1
18. ASSISTIVE LISTENING SIGNAGE, SEE 27/A9.2 ALS RECEIVERS REQ. 2,382 x .04 = 96
19. PROVIDE MAX. OCCUPANCY SIGN TO READ: MAXIMUM OCCUPANCY: 1,694 PEOPLE BY ORDER OF THE STATE FIRE MARSHAL
20. EXTERIOR FINISH TO BE PLASTER, PAINT TO MATCH (E) ADJACENT COLOR
21. SOFFIT ABOVE, SEE REFLECTED CEILING PLAN
22. SIGNAGE TO SHOWER ROOM, SEE 12/A3.1 30/A3.1
23. (T) TROPHY CASE
24. ATHLETIC METAL LOCKERS: 12WX18DX72H
25. METAL LOCKERS, SEE LEGEND ON FLOOR PLAN AND INT. ELEVATIONS
26. METAL LOCKERS, DOUBLE TIER
27. NOT USED
28. SINK, SFD

GENERAL NOTES

1. SEE INTERIOR ELEVATIONS FOR ALL FINISHES AT WALL
2. DIMENSIONS ARE TO FACE OF STUD, U.O.N.
3. GENERAL CONTRACTOR TO COORDINATE LOCATION OF UNDER FLOOR CONDUIT AT NEW WOOD FLOOR w/ SLEEPERS, POLE SLEEVES, AND OTHER ITEMS
4. REFER TO DOOR SCHEDULE FOR INFORMATION ON EACH DOOR TYPE
5. PROVIDE NEW INSULATION AT ALL (E) AND (N) STUD WALL LOCATIONS

FLOOR FINISH LEGEND

- C — CARPET
- L — LINOLEUM
- R — RESILIENT FLOORING
- T — FLOOR TILE
- WD — (E) WOOD FLOOR, REFINISH
- NW — (N) WOOD FLOOR w/ WATERPROOF MEMBRANE, SEE 18/A9.1 39/A9.3 (INCLUDE SPACE UNDER BLEACHERS)
- R — RESINOUS FLOORING 41/A9.1
- CO — SEALED CONCRETE
- CO — SEALED CONCRETE OVERLAY-STAINED

WALL LEGEND

INDICATES STUD SIZE OTHER THAN TYPICAL
INDICATES WALL TYPE
INDICATES SOUND WALL

- A1 — (N) EXTERIOR CONC. WALL SSD w/ CEMENT PLASTER @ EXTERIOR 7/A9.1
- B1 — 1 HR RATED INTERIOR PARTITION, WD. STUDS @ 16" O.C. TYPE 'X' GYP. BD. EA. SIDE w/ BATT INSULATION 1/A9.1
- B2 — 1 HR RATED INTERIOR PARTITION WD. STUDS w/ CONCRETE CURB, TYPE 'X' GYP BD. EA. SIDE w/ BATT INSULATION 27/A9.1
- B3 — 1 HR. PLUMBING WALL, TYPE 'X' GYP BD. EACH SIDE w/ CONC. CURB 10/A9.1
- B4 — 7'-0" HIGH INTERIOR PARTITION w/ TYPE 'X' GYP. BD. EA. SIDE ON CONCRETE CURB 4/A9.1 5/AC.1
- B5 — 4 HR AREA SEPARATION CONCRETE INFILL WALL, S.S.D. 6/A9.1
- B6 — 1 HR OCCUPANCY SEPARATION WALL, TYPE 'X' GYP. BD. BOTH SIDES ON CURB 27/A9.1
- B7 — INTERIOR PARTITION w/ TYPE 'X' GYP. BD. EA. SIDE w/ CONCRETE CURB 3/A9.1

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL 02-108752
FILE 48-C1
AC GPP FLS TH SS
DATE 8-8-2007

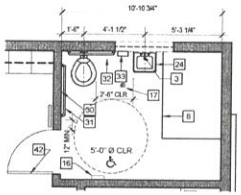
Solano Community College - Building 1700A Renovation
4000 Suisun Valley Road
Fairfield, California

SOLANO COMMUNITY COLLEGE DISTRICT
4000 Suisun Valley Road
Fairfield, CA

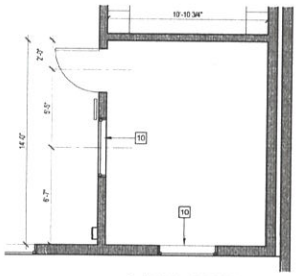
PROJECT NUMBER 06680.00
DATE August 6, 2007
DRAWN BY CC, MW
CHECKED BY CO, CC

FLOOR PLAN

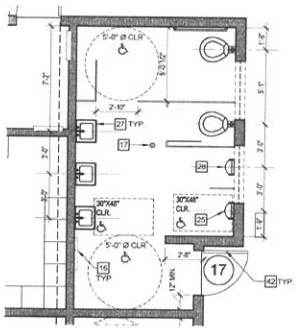
A2.2



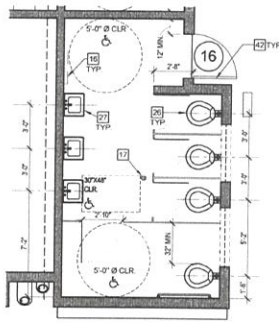
2 A.P.E. RESTROOM
1/4" = 1'-0"



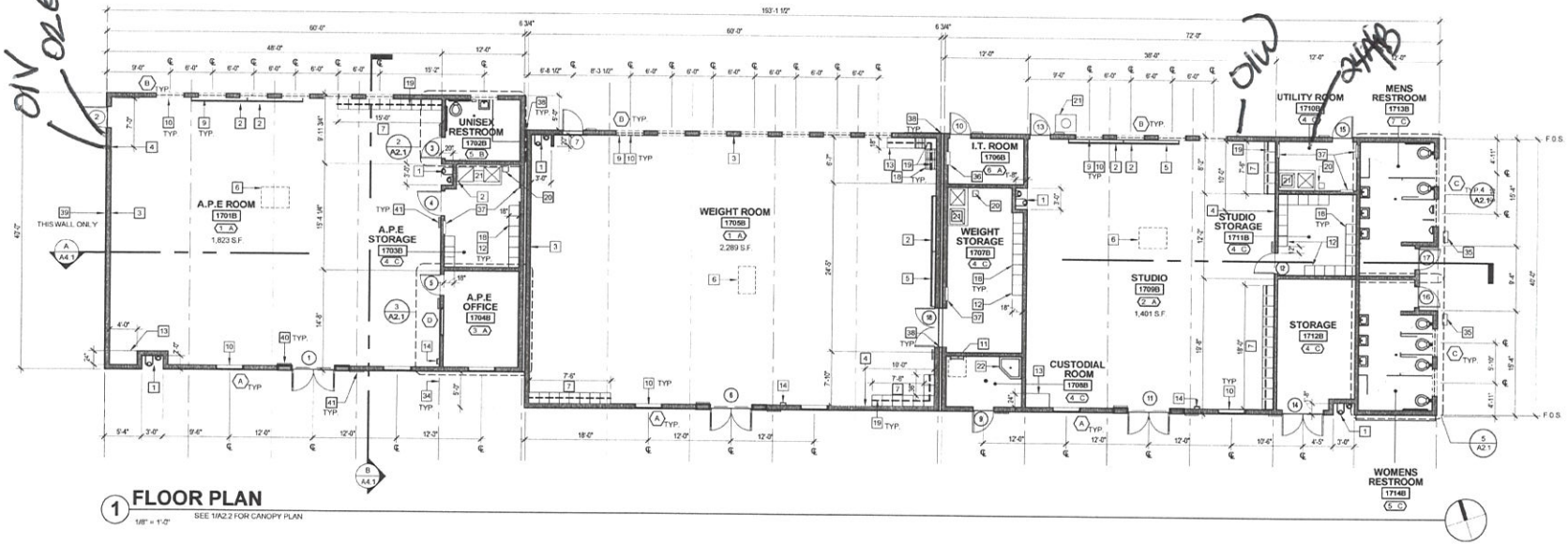
3 A.P.E. OFFICE
1/4" = 1'-0"



4 MEN'S RESTROOM
1/4" = 1'-0"



5 WOMEN'S RESTROOM
1/4" = 1'-0"



1 FLOOR PLAN
1/8" = 1'-0"
SEE 1/A2.2 FOR CANOPY PLAN

ASSEMBLY DESCRIPTION

C.B.C. TABLE 7-I-B, ITEM 18-1-3

7" + 4" (51 mm + 102 mm) wood studs 16" (406 mm) on center with 7/8" (22 mm) cement plaster (measured from the face of the studs) on the exterior surface with interior surface treatment as required for interior, nonbearing, noncombustible stud partitions in this table. Plaster mix 1:4 for scratch coat and 1:5 for brown coat, by volume, cement to sand.

7/8" CEMENT PLASTER w/ METAL LATH
PLYWOOD SHEATHING, S.S.D.
2x STUDS, S.S.D.
BATT INSULATION
5/8" TYPE 'X' GYP. BD.

NOTE: GYP. BD. TO EXTEND FROM FLOOR TO TOP PLATE AT ALL EXTERIOR WALLS

7 1 HOUR WALL - EXTERIOR
1 1/2" = 1'-0"

GENERAL NOTES

A. REFER TO MECHANICAL DRAWINGS FOR EXTENT OF MECHANICAL WORK

B. REFER TO PLUMBING DRAWINGS FOR EXTENT OF PLUMBING WORK

C. REFER TO ELECTRICAL DRAWING FOR EXTENT OF ELECTRICAL WORK

D. ALL DIMENSIONS AND GRID LINES TO FACE OF STUD U.O.N

E. ALL PLUMBING DIMENSIONS TO CENTERLINE OF PLUMBING FIXTURE

F. ALL 90 DEGREE WALLS SHALL RECEIVE CORNER GUARDS

G. ALL ADA-ACCESSIBLE BUILDING SIGNAGE TO BE SHOWN AND PROVIDED BY THE BUILDING MANUFACTURER AS PART OF THE INCREMENTS #2 SUBMITAL, SEE DETAILS 1 & 3 & 4 /A3

DRAWING NOTES

1. ACCESSIBLE HIGH-LOW DRINKING FOUNTAIN - S.P.D. - SEE DETAILS 8 & 12/A8.1
2. 4' -0" x 8' -0" MARKER BOARD
3. MIRROR, TYP. SEE INT. ELEVATIONS
4. "SMART CLASSROOM" PANEL - S.E.D.
5. PROJECTOR SCREEN - N.I.C
6. OVERHEAD PROJECTOR - N.I.C.
7. CUBBIES - SEE DETAIL
8. PLATFORM AND PAD - SEE DETAIL 14/A8.1
9. CLERESTORY WINDOW ABOVE
10. HORIZONTAL LOUVER BLIND
11. ROOF ACCESS LADDER - HATCH ABOVE
12. ADA COMPLIANT LOCKER LOCK
13. TALL STORAGE CABINETS - SEE DETAIL 15/A8.1
14. EXTINGUISHER CABINET WITH TYPE 2A10BC F.E. W/VALID CERTIFICATION TAG TYP., HANDLE @ 48" A.F.F. NOT TO PROTUDE MORE THAN 4" FROM F.O. WALL
15. CHAIR - N.I.C
16. HAND DRYER - S.E.D
17. FLOOR DRAIN S.P.D
18. WIRE LOCKER - SEE DETAIL 13/A8.1
19. BALL STORAGE RACKS - N.I.C
20. FLOOR SINK - S.P.D.
21. MECHANICAL UNIT - S.M.D.
22. FLOOR SINK - S.P.D. - COORDINATE W/ SLAB
23. ACCESSIBLE WATER CLOSET - S.P.D.
24. ACCESSIBLE LAVATORY - S.P.D.
25. ACCESSIBLE URINAL - S.P.D.
26. WATER CLOSET - S.P.D.
27. LAVATORY - S.P.D.
28. URINAL - S.P.D.
29. TOILET PARTITION
30. TOILET PAPER DISPENSER
31. 42" GRAB BAR
32. 36" GRAB BAR
33. SOAP DISPENSER
34. MODULE LINE
35. CLEAT CLEANER
36. FIRE ALARM CONTROL PANEL SEE FIRE ALARM DRAWINGS
37. ELECTRICAL PANEL - S.E.D.
38. SEISMIC SEPARATION GAP PER MODULAR MANUFACTURER - INCREMENT #2
39. 1-HR WALL CONSTRUCTION - SEE DETAIL 7/A2.1
40. TACTILE EXIT SIGNAGE, SEE DETAIL 4/A3.1, TYP. @ ALL EXIT DOORS
41. ROOM SIGNAGE, SEE DETAIL 1/A3.1, TYP. @ ALL ROOM DOORS
42. TOILET ROOM IDENTIFYING SYMBOLS, SEE DETAIL 3/A3.1, TYP. @ ALL TOILET ROOM

FINISH SCHEDULE

ROOM NAME
ROOM NUMBER — 101
FINISH TAG — X X
FLOOR FINISH
BASE

FLOOR
1. SEAMLESS RUBBER
2. SPORTS FLOORING
3. CARPET TILES
4. LINOLEUM
5. CERAMIC TILE
6. ESD STATIC CONTROL FLOORING
7. SEALED CONCRETE

BASE
A. RESILIENT CARPET BASE
B. TILE
C. 6" INTEGRAL COVE BASE

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LICENSED ARCHITECT
ROBERT L. HOLLIDAY
NO. C 16882
REN. 6-30-08
STATE OF CALIFORNIA

INC #1
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL 02-108713
AC FLS SS
DATE 5/30/07

SOLANO COMMUNITY COLLEGE BUILDING 1700B INCREMENT #1

4000 SUISUN VALLEY RD
FAIRFIELD, CALIFORNIA

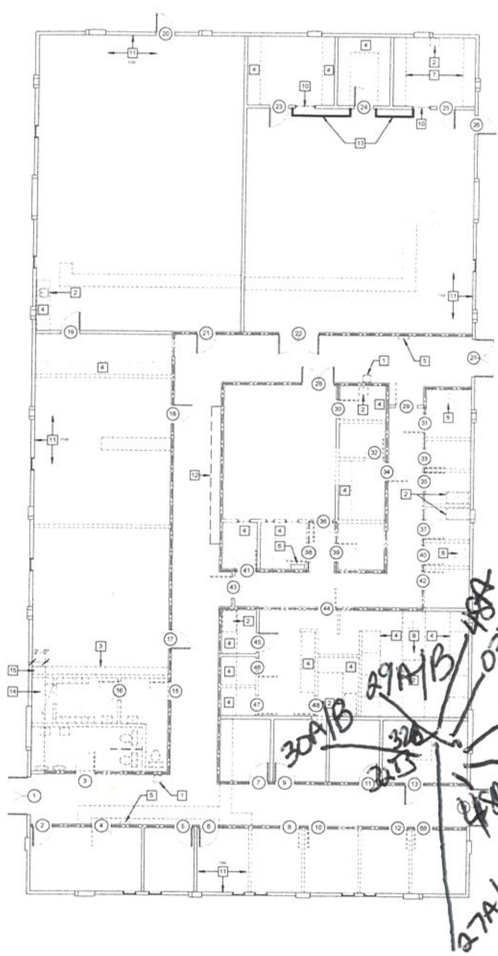
SOLANO COMMUNITY COLLEGE

PROJECT NUMBER
06046.00
DATE
JUNE 15, 2007
DRAWN BY:
JR
CHECKED BY
RH/MH
REVISIONS:

FLOOR PLAN

A2.1

Jul 09, 2007 - 12:16pm jmg P:\2006 Projects\06046 SCC 1700B Annex\Cadfiles\Pod_Sheets\A2-1.dwg



2 Demo Floor Plan

1/8" = 1'-0"

DEMOLITION WORK NOTES

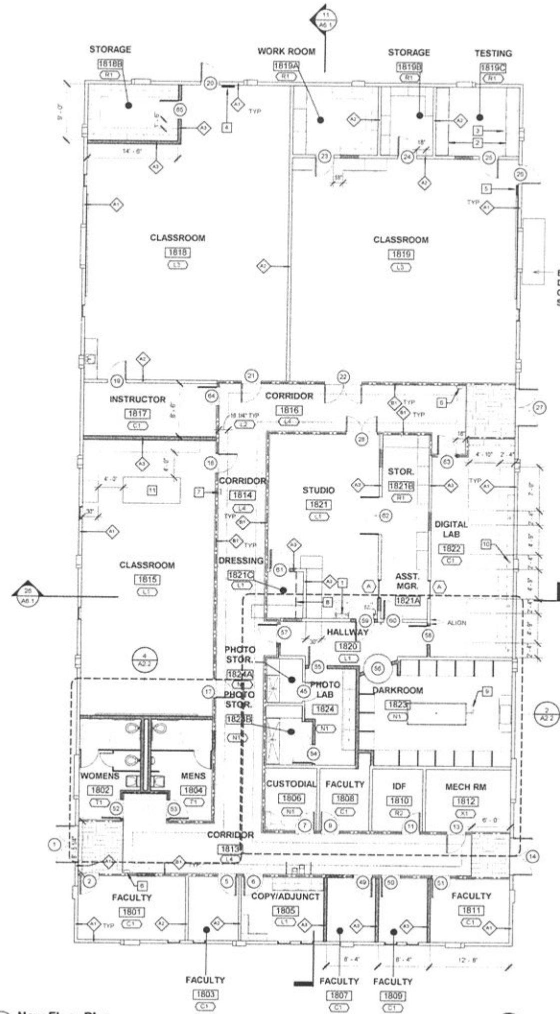
1. REMOVE (E) DRINKING FOUNTAINS. S.P.D.
2. REMOVE (E) SINKS. S.P.D.
3. AREA TO RECEIVE DEPRESSED SLAB. DEMO (E) TOILET ROOM COMPLETE. S.P.D. S.S.D.
4. REMOVE (E) CASEWORK. TYP.
5. REMOVE (E) FIRE EXTINGUISHER CABINETS, STORE AND REINSTALL. PAINT TO MATCH ADJ. WALLS
6. REMOVE (E) ROOF ACCESS LADDER & REINSTALL. SEE (N) WORK
7. REMOVE (E) STL. CASEWORK, COUNTERTOPS & HOOD. STORE AND REINSTALL
8. REMOVE (E) FLOOR SINKS. S.P.D. PATCH HOLE WITH CONCRETE
9. REMOVE (E) FLOOR DRAIN. S.P.D.
10. REMOVE (E) DOOR/WINDOW AND INFILL
11. (E) FURRED CONCRETE WALLS. REMOVE INTERIOR FINISH COMPLETE TO EXPOSE FURRING
12. DEMO LOCKERS COMPLETE
13. REMOVE (E) CONCRETE CURB FLUSH TO FLOOR
14. PORTION OF (E) SLAB TO REMAIN. PRESERVE (E) DOWELS @ FOOTING & PROTECT UNDER SLAB DRAINAGE. REMOVE (E) TILE FLOOR COMPLETE
15. PORTION OF SLAB TO REMAIN. BUSH HAMMER SHADED AREA OF SLAB DOWN TO MATCH (N) DEPRESSED SLAB ELEVATION

DEMOLITION LEGEND

- 1-HR. RATED WALLS. DEMO WHERE INDICATED
- (E) WALLS & ITEMS TO BE REMOVED
- (E) WALLS TO REMAIN. REMOVE ALL FINISHES TO STUDS, U.O.N.
- AREA OF (E) CONCRETE SLAB TO BE SAWCUT & REMOVED. VERIFY EXTENT AND COORDINATE WITH ALL TRADES AND DRAWINGS. S.S.D. S.P.D., S.E.D. SEE STRUCTURAL DRAWINGS FOR SLAB REPAIR DETAILS. SEE A2.2 FOR MORE INFORMATION ON EXTENT AND LOCATION OF TRENCHING

GENERAL DEMOLITION NOTES:

1. DEMOLITION SHALL NOT BE STARTED IN ANY AREA UNTIL POWER, GAS, WATER, AND OTHER PERTINENT UTILITIES HAVE BEEN DISCONNECTED.
2. THE DEMOLITION CONTRACTOR SHALL COORDINATE HIS WORK WITH THE GENERAL, ELECTRICAL, MECHANICAL, AND PLUMBING CONTRACTORS FOR THE PURPOSE OF DISCONNECTING POWER AND OTHER SERVICES WHICH MAY BE DISTURBED BY THE DEMOLITION.
3. IT SHALL BE THE RESPONSIBILITY OF THE DEMOLITION CONTRACTOR TO VISIT THE SITE PRIOR TO SUBMITTING A BID FOR THE WORK. ANY EXISTING CONDITIONS OBSERVED WHICH WILL AFFECT THE DEMOLITION NOT OTHERWISE INDICATED IN THESE DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
4. DEMOLITION PLANS ARE TO ASSIST THE CONTRACTOR IN THE GENERAL DETERMINATION OF THOSE ITEMS TO BE REMOVED AND RELOCATED. CONTRACTOR IS TO REVIEW ALL DRAWINGS AND SPECIFICATIONS TO DETERMINE THE COMPLETE SCOPE OF DEMOLITION.
5. REFER TO THE STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR THE EXTENT OF DEMOLITION WORK IN THOSE AREAS. EXISTING ITEMS ARE SHOWN AS ACCURATELY AS POSSIBLE WITH THE INFORMATION AVAILABLE. ANY DISCREPANCIES OR DISCOVERY OF UNFORESEEN ITEMS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE DEMOLITION PROCEEDS.
6. THE DEMOLITION CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING AND BRACING REQUIRED TO SUPPORT ADJACENT WALLS, CEILINGS, OR OTHER BUILDING ELEMENTS.
7. ALL EXISTING SURFACES, WALLS, DOORS, WINDOWS, FRAMES, HARDWARE, ETC. NOT SHOWN TO BE REMOVED OR ALTERED SHALL REMAIN. REMAINING SURFACES AND ITEMS SHALL BE PROTECTED FROM DAMAGE DURING DEMOLITION AND RECONSTRUCTION.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL DAMAGE TO EXISTING ITEMS TO REMAIN AS PART OF THE RECONSTRUCTION OF THIS BUILDING.
9. CAP ALL UTILITIES TO BE ABANDONED BEHIND THE FACE OF FINISH, I.E. AT WALLS, FLOORS, CEILINGS, FINISH GRADE, ETC. AND RECORD THE LOCATIONS ON THE RECORD DRAWINGS.
10. ALL ITEMS SCHEDULED TO BE REMOVED AND NOT RELOCATED ARE TO BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
11. A HAZARDOUS MATERIAL ABATEMENT PROGRAM HAS BEEN ESTABLISHED BY THE OWNER. REFER TO OWNER'S ABATEMENT CONSULTANT DOCUMENTS (PREPARED INDEPENDENT OF THE ARCHITECT'S SUPERVISION) FOR MATERIALS IN THE SCOPE OF WORK THAT ARE SUSPECTED TO BE HAZARDOUS AND MAY REQUIRE REMOVAL BY A CERTIFIED ABATEMENT CONTRACTOR.
12. COORDINATE THE EXTENT OF REMAINING DEMOLITION REQUIRED AS A RESULT OF ABATEMENT DEMOLITION DONE BY OTHERS UNDER THIS CONTRACT.
13. REMOVE ALL NAILS, PINS HANGERS, ETC. FROM THE EXISTING WALLS AND CEILINGS IN THE CORRIDORS, CLASSROOMS, OFFICES, WORKROOMS, TOILET ROOMS, ETC. PREPARE THE WALLS AND CEILINGS FOR THE WORK SCHEDULED FOR THOSE SPECIFIC AREAS.
14. REMOVE ALL WIRING, CABLING, ETC. ABANDONED BUT NOT SHOWN TO BE REMOVED ON THE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FROM THE EXISTING WALLS AND CEILINGS IN THE CORRIDORS, CLASSROOMS, OFFICES, WORKROOMS, TOILET ROOMS, ETC. PREPARE THE WALLS AND CEILINGS FOR THE WORK SCHEDULED FOR THOSE SPECIFIC AREAS.
15. ALL MOVABLE EQUIPMENT, STORAGE SHELVING, DESKS, ETC. IN THE WORK AREA WILL BE REMOVED BY THE OWNER PRIOR TO THE START OF CONSTRUCTION.
16. SEE SPECIFICATIONS FOR SELECTIVE DEMOLITION, SECTION 01732
17. PRIOR TO COMMENCEMENT OF NEW WORK, THE SLAB SHALL BE INSPECTED FOR FLATNESS THROUGHOUT. ALL HIGH SPOTS, RIDGES, ETC. THAT ARE GREATER THAN 1/8" IN RELATION TO THE ADJACENT AREA OR 1/4" OUT OF LEVEL IN 10'-0" SHALL BE PATCHED WITH A SUITABLE CONCRETE PATCHING PRODUCT. THE FLOOR SHALL BE INSPECTED BY THE FLOORING SUBCONTRACTOR FOR ACCEPTANCE PRIOR TO THE INSTALLATION OF ANY FLOORING MATERIAL.
18. AFTER REMOVAL OF INTERIOR FINISHES FROM WALLS TO REMAIN, INSPECT ALL WOOD FRAMING FOR MOISTURE DAMAGE AND REPAIR AS REQUIRED.



1 New Floor Plan

1/8" = 1'-0"

NEW WORK NOTES

1. REINSTALL ROOF ACCESS LADDER, PAINT TO MATCH ADJ. WALLS
2. REINSTALL STEEL CASEWORK, COMPLETE
3. REINSTALL EXISTING EXHAUST HOOD, COMPLETE
4. POST SIGN "THE MAXIMUM NUMBER OF OCCUPANTS SHALL NOT EXCEED 69 BY ORDER OF THE STATE FIRE MARSHAL."
5. POST SIGN "THE MAXIMUM NUMBER OF OCCUPANTS SHALL NOT EXCEED 65 BY ORDER OF THE STATE FIRE MARSHAL."
6. (E) F.E.C. W/ 2A10BC, REINSTALL. F.E. PROVIDED BY DISTRICT
7. (N) F.E.C. W/ 2A10BC, F.E. PROVIDED BY DISTRICT
8. (N) CLOSET POLE
9. (N) SINK MOUNTED EYEWASH. S.P.D.
10. 2-1/2" DIA. GROMMET. TYP.
11. ISLAND WORKSTATION. SEE 25/A9.1

NEW WORK LEGEND

- 1-HR. RATED WALLS
- (N) WALL OR INFILL, PER WALL LEGEND
- (E) WALLS, PER WALL LEGEND
- INDICATES FLOOR JUNCTION BOXES. S.E.D. VERIFY LOCATIONS

WALL LEGEND

- INDICATES STUD SIZE OTHER THAN TYPICAL
- INDICATES WALL TYPE
- A1 (E) FURRED CONCRETE WALL WITH (N) INT. FINISHES 26/A9.3
- A2 (E) INT. WALL WITH (N) FINISHES 28/A9.3
- A3 (N) INT. WALL 28/A9.3 SEE 29/A9.3 FOR WALLS ON CONC. CURBS
- A4 (N) PLUMBING CAVITY WALL 30/A9.3
- B1 (E) 1-HR RATED INT. WALL W/ (N) FINISHES 28/A9.3
- B2 (N) 1-HR RATED INT. WALL 28/A9.3

GENERAL NEW WORK NOTES:

1. SEE FURNITURE PLAN FOR ALL FURNISHINGS NOT DESIGNATED AS CASEWORK
2. SEE INTERIOR ELEVATIONS FOR ITEMS NOT SHOWN ON PLANS
3. AT INFILL WLL CONDITIONS, MATCH ADJACENT WALL CONSTRUCTION. ALSO SEE STRUCTURAL DRAWINGS FOR ADD'L. FRAMING INFORMATION

FLOOR FINISH LEGEND

L-1	LINOLEUM TILE FIELD	FORBO DUAL 629 EIGER
L-2	LINOLEUM SHEET ACCENT	FORBO DUAL 527 BRICK
L-3	LINOLEUM TILE CLASSROOM	FORBO DUAL 607 WHITE MARBLE
L-4	LINOLEUM SHEET FIELD	FORBO DUAL 629 EIGER
C-1	CARPET TILE	INTERFACE EARTH 4227 PLATEAU
C-2	CARPET TILE WALK-OFF	INTERFACE ENTRY LEVEL 7191 OLIVE
R-1	RESILIENT/QUARTZ	ALTRO COLOR 0115
R-2	RESILIENT/RUBBER	NORAPLAN STONE AL 1146 GRANITE
T-1	TILE 2 X 2	DAL TILE KEYSTONE D026 DARK GRAY
N-1	RESINOUS FLOORING	TERA-LITE TERA-GEM III DQ GRANITE
X-1	CONCRETE FLOORING	CLEAR FINISH

BASE FINISH LEGEND

B-1	RUBBER BASE	JOHNSONITE 63 BURNT UMBER
B-2	RUBBER BASE	JOHNSONITE 32 PEBBLE
B-3	SELF COVE BASE	MATCH FLOOR FINISH
B-4	COVE TILE BASE	MATCH WALL TILE
B-5	SELF COVE BASE	MATCH RESINOUS FLOORING

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL 02-108739
FILE 48-C1
PTN N/A
DATE 7-24-2007

LICENSED ARCHITECT
STATE OF CALIFORNIA

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2300 Boynton Avenue, Suite 102
Fairfield, CA 94533
707 421-8795
FAX 707 421-8799

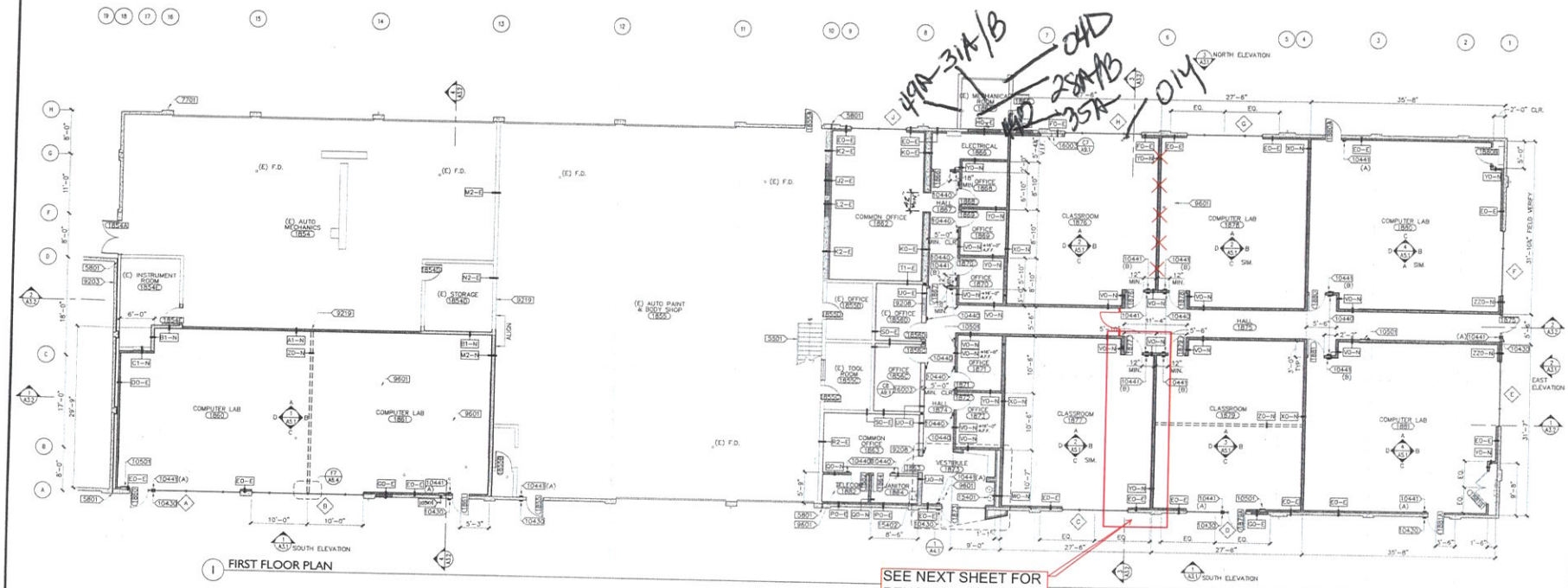
Solano Community College Building 1800A
4000 Suisun Valley Road
Fairfield, Ca

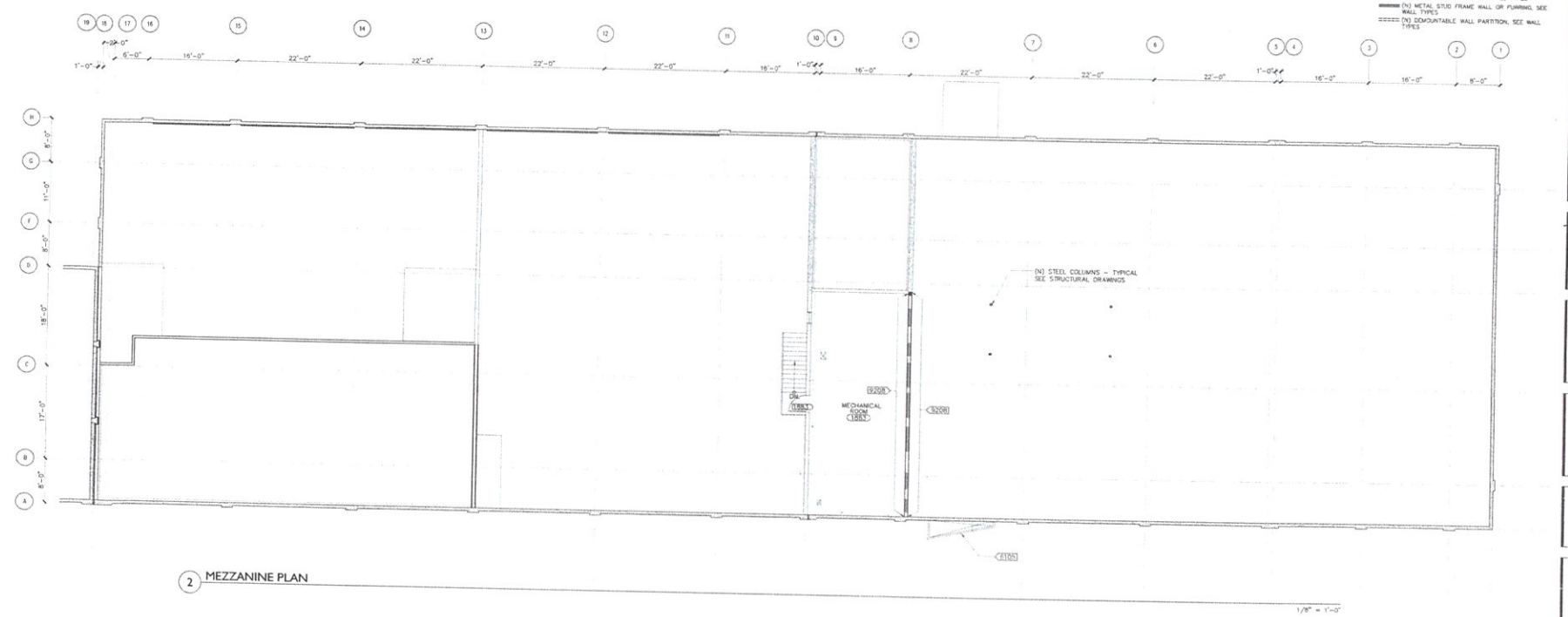
Solano Community College District
4000 Suisun Valley Road
Suisun, California

PROJECT NUMBER 06047.00
DATE 7/24/07
DRAWN BY SP
CHECKED BY CG

DEMO, NEW & FLOOR FINISH PLANS

A2.1





WALL LEGEND:
- (E) CONCRETE WALL (TO REMAIN)
- (N) WOOD FRAME WALL, SEE WALL TYPES
- (N) METAL STUD FRAME WALL OR FURRING, SEE WALL TYPES
- (N) DEMOUNTABLE WALL PARTITION, SEE WALL TYPES

DREYFUSS & BLACKFORD ARCHITECTS
3240 Folsom Boulevard
Sacramento, California 95816
Telephone 916.455.1113
Facsimile 916.452.1921

KEYNOTES:
- 3501 (E) METAL STAIR - TO REMAIN
- 3801 (E) EXPANSION JOINT ASSEMBLY
- 6101 (N) ROOF CANOPY - SEE DETAIL A1/A5.1
- 7201 (E) RAIN WATER LEADER - TYPICAL
- 9201 (E) 2 HR. RATED WALL
- 9208 (N) INFILL IN EXISTING WALL, SEE WALL TYPES U/SHEET A0.4
- 9219 WALL CONTROL JOINT @ 30'-0" O.C. SEE DETAIL A1H/A8.1
- 9601 APPLY SELF LEVEL CONCRETE @ (E) FLOOR DRAIN AREA TO ACHIEVE LEVEL FLOOR SURFACE PRIOR TO INSTALL FINISH FLOOR
- 10430 BUILDING ENTRANCE SIGNAGE, SEE DETAIL A7/A1.2
- 10431 DIRECTIONAL ACCESSIBILITY SIGNAGE, SEE DETAIL A6/A1.2
- 10440 ROOM I.D. SIGNAGE, SEE DETAIL A5/A1.2
- 10441 EXIT SIGNAGE, SEE DETAIL A5/A1.2
- 10500 (N) FIRE EXTINGUISHER CABINET, SEE DETAIL C8/A5.1
- 10401 (N) ACCESSIBLE HI-LOW DRINKING FOUN
- 15402 (N) LOCATION FOR (E) SINK
- 16003 (E) ELECTRICAL PANEL

WALL TYPE SYMBOL
- EI - N
- PARTITION CONDITION (NEW OR EXIS
- ASSEMBLY RATING IN HOURS
- WALL TYPE
- STUD HEIGHT

NOTE: SEE SHEETS A0.3 - A0.5 FOR WALL TYPES.

ASSEMBLY FIRE RATING
MUST MEET REQUIREMENTS FOR UL ASSEMBLY LISTED IN WALL TYPES, SEE A0.3 - A05

GENERAL NOTES:
1. SEE TYPICAL DETAILS: A8.1, A8.1, A8.1, A8.1, A8.1 FOR WALL MOUNTED EQUIPMENT BACKING. CONTRACTOR TO SELECT APPROPRIATE CONDITI BASED ON WEIGHT OF EQUIPMENT TO BE MOUN
2. SEE TYPICAL DETAIL A8.1 FOR ACOUSTICAL TREATMENT AT ELECTRIC BOXES AND SWITCHES RECESSED IN WALL.
3. SEE TYPICAL DETAILS: A8.1, A8.1, A8.1 FOR GYPSUM WALL BOARD INSTALLATION.

CERTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
TITLE 24 VERIFICATION STAMP
A# 02-106610
1/9/2009

REVISION | BY | DATE

SOLANO COMMUNITY COLLEGE
BUILDING 1800-B
SWING SPACE RENOVATIC
INCREMENT #1

FLOOR PLAN/
MEZZANINE PLAN

A4745.01
1/8" = 1'-0"
09 DECEMBER 2

A2.1

NORTH

PMP

CDPH Form

LEAD HAZARD EVALUATION REPORT

Section 1 — Date of Lead Hazard Evaluation October 13 & 16, 2025

Section 2 — Type of Lead Hazard Evaluation (Check one box only)

☐ Lead Inspection ☐ Risk assessment ☐ Clearance Inspection ☑ Other (specify) Lead Compliance with Lead in Construction

Section 3 — Structure Where Lead Hazard Evaluation Was Conducted

Address [number, street, apartment (if applicable)]	City	County	Zip Code
4000 Suisun Valley Road	Fairfield	Solano	94534

Construction date (year) of structure	Type of structure	Children living in structure?
unknown	☐ Multi-unit building ☐ School or daycare ☐ Single family dwelling ☑ Other College	☐ Yes ☑ No ☐ Don't Know

Section 4 — Owner of Structure (if business/agency, list contact person)

Name	Telephone number
Solano Community College District	707-864-7257

Address [number, street, apartment (if applicable)]	City	State	Zip Code
4000 Suisun Valley Road	Fairfield	CA	94534

Section 5 — Results of Lead Hazard Evaluation (check all that apply)

☑ No lead-based paint detected ☐ Intact lead-based paint detected ☐ Deteriorated lead-based paint detected

☑ No lead hazards detected ☐ Lead-contaminated dust found ☐ Lead-contaminated soil found ☐ Other

Section 6 — Individual Conducting Lead Hazard Evaluation

Name	Telephone number
Shannon Johanson	916-628-5124

Address [number, street, apartment (if applicable)]	City	State	Zip Code
5325 Elkhorn Blvd., #360	Sacramento	CA	95842

CDPH certification number	Signature	Date
I/A PM LRC-00003374/75		10/28/25

Name and CDPH certification number of any other individuals conducting sampling or testing (if applicable)

Mason Johanson LRC-00014481

Section 7 — Attachments

A. A foundation diagram or sketch of the structure indicating the specifc locations of each lead hazard or presence of lead-based paint;
B. Each testing method, device, and sampling procedure used;
C. All data collected, including quality control data, laboratory results, including laboratory name, address, and phone number.

First copy and attachments retained by inspector

Second copy and attachments retained by owner

Third copy only (no attachments) mailed or faxed to:

California Department of Public Health
Childhood Lead Poisoning Prevention Branch Reports
850 Marina Bay Parkway, Building P, Third Floor
Richmond, CA 94804-6403
Fax: (510) 620-5656