

12. Hazardous Materials

Overview

Hazardous materials site visits were performed on February 10 and 11, 2009 on typical floors 10, 15, 21; restricted floors 2, 3, 5, 17, 19; floor 1, and the parking garage. An additional site visit was performed on May 18, 2009 to complete a limited asbestos and lead-based paint (LBP) assessment screening survey. The hazardous material team visually assessed these floors for hazardous materials storage, and universal wastes (i.e. polychlorinated biphenyls [PCBs], mercury, Freon, radioactive sources, and batteries in various electrical components) at the site. In addition to the visual assessment, a limited screening assessment, including sample collection, was performed in an effort to evaluate suspect asbestos containing materials (ACMs) and suspect lead-based paint (LBP).

The following major concerns were uncovered:

- A comprehensive asbestos and LBP survey should be performed prior to any renovation or demolition activities at the site.
- One unlabeled drum was observed in the elevator equipment room on the first floor of the building. Stantec recommends that the contents of the drum be identified and the drum be properly labeled.
- Hydraulic oil appears to have leaked from the elevator equipment onto the concrete floor within the elevator equipment room in the parking garage. The source of the leak should be identified and fixed, and the contents be appropriately remediated.
- Diesel fuel appears to have leaked from the above-ground storage tank associated with the emergency generator within the secondary containment. The source of the leak should be identified and remediated.

A. Suspect Asbestos Containing Materials

Based on the age of construction of the Tower and associated first floor structures (print shop, mail distribution, day care center, cafeteria, etc.) at the site, it is not anticipated that there would be the presence of asbestos containing building materials. However, only comprehensive survey techniques (physical sample collection and laboratory analysis) can rebut the assumption of the presence of these materials. According to the DGS, there are no survey documents available to review for this property. Based on the lack of available building specific information regarding asbestos, Stantec has been requested to provide a limited screening assessment to evaluate for the presence of asbestos in a variety of suspect building materials present at the site. The screening assessment is not a comprehensive survey and this level of assessment is not meant to satisfy the requirements of applicable Federal, State, and/or local regulations regarding renovation, demolition, and/or worker protection.

Stantec performed a visual survey for suspect ACMs on floors 1, 2, 3, 5, 10, 15, 17, 19, 21, and the parking garage at the site. Samples of representative, readily accessible materials were collected from floors 1, 11, 22 as well as the mezzanine and penthouse levels, and parking garage. The visual survey and limited screening assessment were

performed by Mr. Dean Mochrie, State of California, Division of Occupational Safety and Health (DOSH) Certified Asbestos Consultant (CAC#05-3875) and Ms. Danielle Manning, DOSH Certified Site Surveillance Technician (CSST #03-3287). Suspect ACMs were observed throughout the site. The objective of the investigation was to identify, estimate quantities of, and assess the condition/friability of suspect ACMs at the site. Any sample collection performed as a part of this task was for screening purposes only and may not satisfy the requirements of applicable regulations.

In response to the National Emissions Standard for Hazardous Air Pollutants (NESHAP) requirements, Sacramento Metropolitan Air Quality Management District's (SMAQMD) implemented Rule 902 that pertains to demolition/renovation activities including the removal and associated disturbance of ACMs. These requirements include asbestos surveying, notification, ACM removal procedures, time schedules, ACM handling and cleanup procedures, storage, disposal, and landfill requirements for asbestos-containing waste materials. Rule 902 is applicable to owners and operators of any demolition or renovation activity and associated disturbance of ACMs. Failure to comply with Rule 902 requirements could result in violations that carry daily penalties (penalties assessment is based upon the size of the project and severity of noncompliance).

All suspect ACMs were observed to be in good condition, unless otherwise noted in Table 1 below. Table 1 below lists suspect ACMs observed and results of bulk sampling performed as a part of the limited screening assessment. Stantec does not guarantee that this list is all-inclusive of suspect ACMs at the site, and is only limited to those areas which were observed, and does not include materials which may be concealed within ceiling or wall spaces. It was explained during the site visit that the upper floors observed were similar in construction to the floors not observed. It is expected that the suspect ACMs on the floors not observed will be similar to those on the floors that were observed.

Table 1 – Suspect Asbestos-Containing Materials							
Suspect ACM	Material Location	Condition	Friable	Approx. Quantity	Sample No.	Analytical Result	Sample Location
Floor 1							
Carpet glue	Cafeteria, Lobby, Board Room, Daycare, Hallways	Good	No	18,500 SF	31	ND	Cafeteria
Drywall/Joint Compound	Throughout	Good	Yes	36,000 SF	32	ND	Electrical Room
2' x 4' Acoustic Ceiling Tile (ACT)	Cafeteria, Daycare, Printer Operations (Room 135)	Good	Yes	15,500 SF	25	ND	Mail Processing Room
2' x 2' ACT	Board Room	Good	Yes	2,500 SF	NS	ND	NA
Sink Undercoating	Daycare kitchen, Printer Operations (Room 135)	Good	No	10 SF	29	ND	Daycare Kitchen
12" x 12" Vinyl Floor Tile (VFT)	Daycare, Printing and Publishing Services (Room 139)	Good	No	5,800 SF	26, 27	ND	Mail Processing Room, Room 139

Table 1 – Suspect Asbestos-Containing Materials							
Suspect ACM	Material Location	Condition	Friable	Approx. Quantity	Sample No.	Analytical Result	Sample Location
Mastic associated with 12" x 12" VFT	Daycare, Printing and Publishing Services (Room 139)	Good	No	5,800 SF	26(A), 27(A)	ND	Mail Processing Room, Room 139
Cove Base Glue	Daycare, Cafeteria, Storage Area, Printer Operations Room 135, Printing and Publishing Services (Room 139)	Good	No	1,700 LF	30	ND	Cafeteria
Fireproofing	Throughout on metal ceiling deck and structural beams	Good	Yes	42,000 SF	33	ND	Electrical Room
Heating, Ventilation, and Air Conditioning (HVAC) Vibration Gaskets	Throughout	Good	No	40 EA	NS	NA	NA
HVAC Duct Mastic	Throughout	Good	No	50 EA	28	ND	Room 139
Typical Floors (2 through 24)							
Carpet glue	Throughout office areas and hallways	Good	No	457,000 SF	08	ND	Floor 11, Southwest Corner
Drywall/Joint Compound	Throughout	Good	Yes	250,000 SF	10	ND	Mechanical Floor
2' x 4' ACT	Throughout	Good	Yes	470,000 SF	01, 07	ND	Floor 22, Floor 11
12" x 12" VFT	Employee Break Rooms, Mezzanine	Good	No	3,800 SF	06, 11	ND	Floor 22 Storage Room, Mezzanine Restroom
Mastic associated with 12" x 12" VFT	Employee Break Rooms, Mezzanine	Good	No	3,800 SF	05, 11(A)	ND	Floor 22 Storage Room, Mezzanine Restroom
Cove Base Glue	Throughout	Good	No	32,800 LF	04	ND	Floor 22 Elevator Lobby
Fireproofing	Throughout on metal ceiling deck and structural columns and beams	Good	Yes	543,000 SF	02	ND	Floor 22
Vinyl Floor Sheeting	Janitorial Closets	Good	No	1,200 SF	03	ND	Floor 22 Janitorial Closet
HVAC Vibration Gaskets	Throughout	Good	No	480 each	12	ND	Mezzanine supply fan
HVAC Duct Mastic	Throughout	Good	No	1,150 EA	NS	NA	NA
Wall texture	Throughout Mezzanine	Good	Yes	5,000 SF	09	ND	Mezzanine level
Penthouse							
Drywall/Joint Compound	Throughout	Good	Yes	4,500 SF	17	ND	Storage Room
Vinyl Floor Tile and Mastic	Locker Room, Break room, Office	Good	No	200 SF	15	ND	Office
Wall Texture	Hallways, Locker Room, Office	Good	Yes	2,000 SF	16	ND	Locker Room
Fireproofing	Throughout on metal ceiling deck and structural beams	Good	Yes	11,500 SF	13	ND	Southeast column
Boiler Door Gasket	Boiler Room	Good	Yes	2 EA	14	ND	Boiler

Table 1 – Suspect Asbestos-Containing Materials							
Suspect ACM	Material Location	Condition	Friable	Approx. Quantity	Sample No.	Analytical Result	Sample Location
Parking Garage							
Carpet Glue	Exercise Room (Room 146)	Good	No	600 SF	19	ND	Exercise Room
2' x 4' ACT	Exercise Room (Room 146)	Good	Yes	600 SF	18	ND	Exercise Room
Cove Base Glue	Exercise Room (Room 146)	Good	No	100 LF	20	ND	Exercise Room
Drywall/Joint Compound	Exercise Room (Room 146), Storage Rooms	Good	Yes	1,600 SF	22	ND	Electrical room (mechanical area)
Expansion Pad	Garage Columns	Good	No	120 EA	21	ND	3 rd Floor Column adjacent to elevator
Plaster wall	Boiler Room	Damaged	Yes	500 SF	23	ND	Boiler room (mechanical area)
Fire Door	Stock in Mechanical area	Damaged	Yes	5 EA	24	ND	Dismantled door in main room

SF = Square feet
 LF = Linear feet
 EA = Each
 NS = Not Sampled
 NA = Not applicable
 ND = Non-detect for asbestos

Stantec was requested to provide a minimal level of effort in regards to the assessment of suspect asbestos containing materials in an effort to reduce the projected cost of abatement in regards to this Infrastructure Study Report. As such, survey techniques, analytical results, and reporting should not be construed as a comprehensive survey that would satisfy applicable regulatory requirements. It is recommended that a comprehensive asbestos survey be performed prior to any renovation and/or construction activities at the site.

B. Suspect Lead-Based Paint (LBP)

Based on the age of construction of the Tower and associated first floor structures (print shop, mail distribution, day care center, cafeteria, etc.) at the site, it is not anticipated that there would be the presence of LBP. However, only comprehensive survey techniques (x-ray fluorescence [XRF] and/or physical sample collection and laboratory analysis) can rebut the assumption of the presence of these materials. According to the DGS, there are no survey documents available to review for this property. Based on the lack of available building specific information regarding LBP, Stantec has been requested to provide a limited screening assessment to evaluate for the presence of LBP in a variety of painted components present at the site. The screening assessment is not a comprehensive survey and this level of assessment is not meant to satisfy the requirements of applicable Federal, State, and/or local regulations regarding renovation, demolition, and/or worker protection.

Stantec performed a visual survey for suspect LBP on floors 1, 2, 3, 5, 10, 15, 17, 19, 21, and the parking garage at the site. Samples of representative, readily accessible materials

were collected from floors 1 and 22 as well as the penthouse and parking garage. The visual survey and limited screening assessment were performed by Mr. Dean Mochrie, California Department of Public Health (CDPH), Lead-Related Construction Inspector/Assessor (LRCIA) # 6305 and Ms. Danielle Manning, CDPH LRCIA #14530. Painted surfaces throughout the site were visually inspected, and the condition and quantities of painted surfaces were noted. Any sample collection performed as a part of this task was for screening purposes only and may not satisfy the requirements of applicable regulations.

Lead is a hazardous substance. Although the Consumer Product Safety Commission (CPSC) banned the use of LBP in 1978, the ban was limited to the use of lead in residential paint. The ban did not extend to commercial and/or industrial applications. Additionally, the ban was limited to a lead content of greater than 0.5% by weight (5,000 parts per million) which meant that lesser amounts of lead in paint could still be manufactured. The condition, handling and disposal of lead paint are regulated by federal, state, and local agencies. Lead in paint generally does not pose a health threat unless the material is disturbed or sufficiently deteriorated to produce dust, which may become airborne and inhaled or ingested. Contractors working in the facility should be informed of the type and location of lead-containing materials. Applicable DOSH regulations may apply depending on the work being performed.

All painted surfaces were observed to be in intact condition, unless otherwise noted in Table 2 below. Table 2 lists suspect LBP observed and the results of the limited bulk sampling performed as a part of the limited screening assessment. Stantec does not guarantee that this list is all-inclusive of suspect LBP at the site, and is only limited to those areas which were observed. It was explained during the site visit that the upper floors observed were similar in construction to the floors not observed. It is expected that the suspect LBP on the floors not observed will be similar to those on the floors that were observed.

Table 2 -- Suspect Lead-Based Paint						
Suspect LBP Component	Location	Condition	Approx. Quantity	Sample #	Analytical Result	Sample Location
Floor 1						
Walls	Throughout	Intact	36,000 SF	P-11	<0.010%	Mail Processing
Ceilings	Restrooms, Janitorial Closets	Intact	2,100 SF	P-13	0.052%	Electrical Room
Doors and Doorframes	Throughout	Intact	2,900 SF	P-12	<0.010%	Daycare Kitchen
Typical Floors (Floors 2 through 24)						
Walls	Throughout	Intact	250,000 SF	P-03	<0.010%	Floor 22
Ceilings	Restrooms, Janitorial Closets	Intact	48,000 SF	P-04	<0.010%	Floor 22
Doors and Doorframes	Throughout	Intact	67,000 SF	P-01, P-02	<0.010%, <0.010%	Floor 22
Penthouse						
Walls	Throughout	Intact	4,500 SF	P-07	<0.010%	Near Elevator
Ceilings	Restrooms, Locker Rooms,	Intact	2,100 SF	NS	NA	NA

Table 2 – Suspect Lead-Based Paint						
Suspect LBP Component	Location	Condition	Approx. Quantity	Sample #	Analytical Result	Sample Location
	Janitorial Closets					
Structural Girders and Beams	Throughout	Intact/Poor	3,200 SF – Intact 300 – Poor along south and west sides	P-05	0.035%	South wall
Doors and Doorframes	Throughout	Intact	1,500 SF	P-06	<0.034%	Elevator door
Parking Garage						
Walls	Exercise Room (Room 146), Mechanical Rooms, Storage Rooms, Equipment Rooms	Intact	11,200 SF	P-08	<0.010%	Exercise Room
Walls/Columns	Throughout Garage Structure	Intact	33,000 SF	P-10	<0.010%	3 rd Floor
Pavement striping	Throughout Garage Structure	Intact	5,000 SF	P-09	<0.010%	3 rd Floor

NS = Not Sampled
NA = Not Applicable

Stantec was requested to provide a minimal level of effort in regards to the assessment of suspect lead-based paint in an effort to reduce the projected cost of abatement in regards to this Infrastructure Study Report. As such, survey techniques, analytical results, and reporting should not be construed as a comprehensive survey that would satisfy applicable regulatory requirements. It is recommended that a project specific survey be performed prior to any renovation and/or construction activities that satisfy applicable regulations.

C. Hazardous Materials

Stantec conducted a visual inspection on floors 1, 2, 3, 5, 10, 15, 17, 19, 21, and the parking garage at the site to identify other visible suspect hazardous materials present. The survey was limited to above grade only, and did not include a soil or subsurface investigation, or sample collection of observed hazardous materials.

Hazardous materials are those that are manufactured and could have an adverse effect on human health or the environment. Hazardous materials could include but are not limited to: hazardous substances as defined by the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA); hazardous wastes as defined by the Resource Conservation and Recovery Act (RCRA); and petroleum products. The suspect materials encompassed within this inspection included: refrigerants, halon, and other Chlorofluorocarbons (CFC's) such as fire extinguishing systems and cans of Freon used in association with building drinking fountains; heavy metals as may be commonly found in cooling tower water treatment systems; solvents, paints, fuel (storage tanks), lubricants, and other associated maintenance and cleaning products; and miscellaneous materials such as unlabeled materials or substances of concern.

Assessment of these hazardous materials was based solely on the identification placards on the equipment and containers. If the presence and/or absence of a particular material were not clearly marked, then the piece of equipment was assumed to contain a concentration of the particular material in question. Stantec did not perform sample collection to identify hazardous materials.

All materials were observed to be properly stored with no signs of leaks or spills, unless otherwise noted in Table 3 below. Table 3 identifies potentially hazardous materials that were observed at the site. Stantec does not guarantee that this list is all-inclusive of hazardous materials at the site, and is only limited to those areas which were observed.

Table 3 – Suspect Hazardous Materials				
Hazardous Material	Location	Type of Storage	Condition	Approx. Quantity
Floor 1				
Janitorial Supplies	Kitchen, Janitorial Closets	Retail sized plastic and metal containers	Good	Various
Freon	Throughout	Contained within drinking fountains	Good	6 drinking fountains
Halon 1301	Halon Fire Extinguishing System in Printer Operations Room (room 135)	Aboveground tanks	Good	One 590 pound tank One 200 pound tank
Printing Alcohols and Activators	Printing and Publishing Services Room (room 139)	Plastic and metal containers stored within Flammable Cabinet	Good	Ten 1-gallon containers
Waste Flammable Solids (rags, PPE, miscellaneous solids for incineration)	Printing and Publishing Services Room (room 139)	Metal drum within Flammable Cabinet	Good	45-gallons
Flammable Liquid Waste Ink and Solvent	Printing and Publishing Services Room (room 139)	Metal drum within Flammable Cabinet	Good	35-gallons
Gasoline	Printing and Publishing Services Room (room 139)	Metal gas cans within Flammable Cabinet	Good	5-gallons
Printing Ink	Printing and Publishing Services Room (room 139)	Various sized metal and plastic containers	Good	Various

Table 3 – Suspect Hazardous Materials				
Hazardous Material	Location	Type of Storage	Condition	Approx. Quantity
Hydraulic Oil	Elevator Equipment Room	Self-contained within hydraulic elevator equipment	Good	Not reported
Unlabeled Drum	Elevator Equipment Room	Metal drum	Good	55-gallons
Hydraulic Oil	Exterior Loading Dock Area	Self-contained within garbage compactor	Good	Not reported
Typical Floors (Floors 2 through 24)				
Janitorial Supplies	Janitorial Closets	Retail sized plastic and metal containers	Good	Various
Halon 1301	Halon Fire Extinguishing System in Server Room (room 515), the tanks for the system are located in Telecom Room (room 517)	Aboveground tanks	Good	One 590 pound tank One 200 pound tank
Freon	Throughout	Contained within drinking fountains	Good	42 drinking fountains
Penthouse				
Formula 12-L	Penthouse	300 pound container	Good	300 pounds
Hydraulic Oil	Penthouse	Plastic container in Flammable Cabinet	Good	5-gallons
Motor Oil	Penthouse	Plastic containers in Flammable Cabinet	Good	Two 5-gallons
Gasoline	Penthouse	Plastic containers in Flammable Cabinet	Good	5-gallons 2-gallons
Miscellaneous Caulking, Lubricants, Degreasers, Adhesives	Penthouse	Various retail-sized containers in Flammable Cabinet	Good	Various
Acetylene	Penthouse	Two canisters	Good	2 canisters
Forane 22	Penthouse	Flammable Cabinet	Good	30 pounds
Paint	Penthouse	Various retail sized plastic and metal containers	Good	Forty 1-gallon containers Fourteen

Table 3 – Suspect Hazardous Materials				
Hazardous Material	Location	Type of Storage	Condition	Approx. Quantity
				5-gallon containers Ten 1-quart containers
Parking Garage				
Bearing Oil	Elevator Equipment Room	Plastic container	Good	5-gallons
Petroleum Oil	Elevator Equipment Room	Plastic container	Good	1-gallon
Hydraulic Oil	Elevator Equipment Room	Self-contained within hydraulic elevator equipment	Appears to have leaked on concrete flooring	Not reported
Freon	Exercise Room (Room 146)	Contained within drinking fountain	Good	1 drinking fountain
Motor Oil	Generator Room on west side of building	Metal Drum	Good	55-gallons
Diesel Fuel	Generator Room on west side of building	Day tank associated with generator	Good	50-gallons
Diesel Fuel	Generator Room	Aboveground Storage Tank (AST)	Appears to have had a leak due to the presence of absorbent material within secondary containment.	Not reported
Formula 3338	3 rd Floor Boiler Room	Plastic Drum	Good	28-gallons
Formula 248L	3 rd Floor Boiler Room	Plastic Drum	Good	28-gallons
Parts cleaning solvent	3 rd Floor Boiler Room	Metal Drum	Good	15-gallons
Lime Remover	3 rd Floor Boiler Room	Plastic containers	Good	Twelve 1-gallon containers
Antifreeze	3 rd Floor Chiller Room	Plastic containers	Good	Six 1-gallon containers

Stantec recommends that the contents of the unlabeled drum be identified, and the drum be properly labeled.

Stantec was provided with a copy of a Hazardous Materials Plan (HMP) renewal, dated May 15, 2008 submitted to the County of Sacramento Environmental Management Department (CSEMD). Table 4 identifies hazardous materials listed in the HMP, reported to be present at the site.

Table 4 – Reported Hazardous Materials				
Hazardous Material	Location	Type of Storage	Condition	Approx. Quantity
Formula 2610	12 th Floor Mechanical Room	Plastic Drum	Not observed	55-gallons maximum daily amount
Formula 3338	12 th Floor Mechanical Room	Plastic Drum	Not observed	55-gallons maximum daily amount
Formula 305	12 th Floor Mechanical Room	Plastic Drum	Not observed	55-gallons maximum daily amount
Formula 2011	12 th Floor Mechanical Room	Plastic Drum	Not observed	55-gallons maximum daily amount
Formula 2001	12 th Floor Mechanical Room	Plastic Drum	Not observed	55-gallons maximum daily amount
Formula 30-A	12 th Floor Mechanical Room	Plastic Drum	Not observed	55-gallons maximum daily amount
Formula 31-A	12 th Floor Mechanical Room	Plastic Drum	Not observed	55-gallons maximum daily amount

The 12th Floor Mechanical Room was not accessible by Stantec during the hazardous materials site visit. The materials observed by Stantec and identified in Table 3 are not listed on the HMP provided for review.

Stantec recommends that the appropriate forms be completed as required by local, state, and/or federal regulations for reporting of hazardous materials stored on-site, and appropriate permits, as necessary, are maintained.

D. Universal Wastes

Universal wastes are hazardous wastes that are generated by a wide variety of applications that contain mercury, lead, cadmium, copper and other substances hazardous to human and environmental health. In general, universal waste may not be discarded in solid waste landfills.

Stantec conducted a visual inspection on floors 1, 2, 3, 5, 10, 15, 17, 19, 21, and the parking garage at the site to identify other visible suspect regulated materials present. The survey was limited to above grade only, and did not include a soil or subsurface investigation, or sample collection. The suspect materials encompassed within this

inspection included: polychlorinated biphenyls (PCBs) containing units such as lighting ballasts and PCB containing electrical units (i.e. electrical transformers); lead-containing units such as car batteries or emergency exit sign batteries; fluorescent lighting tubes; mercury containing units such as light switches and thermostats; radioactive materials that may be contained in units such as smoke detectors, or medical equipment; and equipment such as computer monitors.

Assessment of universal wastes was based solely on the identification placards on the equipment. If the presence and/or absence of a particular material was not clearly marked then the piece of equipment was assumed to contain a concentration of the particular material in question. Stantec did not perform sample collection to identify universal wastes.

Stantec visually inspected a representative number of fluorescent lighting ballasts, which were labeled as non-PCB containing ballasts.

Table 5 identifies the suspect universal wastes that were observed at the site. Stantec does not guarantee that this list is all-inclusive of universal wastes at the site, and is only limited to those areas which were observed.

Table 5 – Suspect Universal Waste		
Universal Waste	Location	Approx. Quantity
Floor 1		
Fluorescent Lighting Tubes	Throughout	1,062
Smoke Detectors (radioactive source)	Throughout	63
Lead-acid batteries	Electrical Equipment Room, Warehouse, Supply Room (room 134), Bulk Mailing Room (room 140)	6
Electronic Waste (computers and monitors)	Supply Storage Room (room 156)	Various
X-ray machine (radioactive source)	Bulk Mailing Room (room 140)	1
Exit Signs (batteries)	Throughout	30
Typical Floors (Floors 2 through 24)		
Fluorescent Lighting Tubes	Throughout	18,522
Smoke Detectors (radioactive source)	Throughout	421
Lead-acid batteries	5 th Floor Server Room (room 515)	Not reported; batteries are enclosed and not accessible.
Exit Signs (batteries)	Throughout	85
Penthouse		
Fluorescent Lighting Tubes	Throughout	100
Smoke Detectors (radioactive source)	Throughout	5
Parking Garage		
Fluorescent Lighting Tubes	Throughout	1,500

Pallets of electronic waste (computers and monitors) were observed in the Supply Storage Room (room 156), secured on pallets. Reportedly, the electronic waste is auctioned off, and is not disposed of.

Reportedly used fluorescent tubes are stored in the Supply Storage Room (room 156) and picked up by a recycler. At the time of Stantec's site visit, the used fluorescent tubes had recently been picked up; therefore, used fluorescent tubes were not observed during the site visit.

Stantec recommends that all universal waste is disposed of in accordance with local, state, and/or federal regulations.

APPENDIX A
LAB ANALYSIS OF SUSPECT MATERIALS



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Customer ID: SECI62
Customer PO: 184710132307000
Received: 05/20/09 9:00 AM
EMSL Order: 090903821

Fax: (916) 861-0430 Phone: (916) 861-0400
Project: **184710132.307.000, Board of Equalization Infrastructure**
Study, 450 N Street, Sacramento, CA

EMSL Proj:
Analysis Date: 5/22/2009

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
01-2'x4' ACT w/D+F <i>090903821-0001</i>	Floor 22, NW of Column K20	White Fibrous Heterogeneous	50% Cellulose 20% Glass	30% Non-fibrous (other)	None Detected
02-Fireproofing <i>090903821-0002</i>	Floor 22, NW of Column K20	Gray Fibrous Heterogeneous	40% Cellulose 10% Glass	50% Non-fibrous (other)	None Detected
03-Vinyl Floor Sheeting <i>090903821-0003</i>	Floor 22, Janitor's Closet	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
03-Backing <i>090903821-0003A</i>	Floor 22, Janitor's Closet	Gray Fibrous Heterogeneous	80% Cellulose	20% Non-fibrous (other)	None Detected
03-Mastic <i>090903821-0003B</i>	Floor 22, Janitor's Closet	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
04-Cove Base Glue <i>090903821-0004</i>	Floor 22, SWC Elevator Lobby	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Report Amended: 5/26/2009 6:12:37 PM Replaces the Initial Report . Reason Code: Data Entry Error-Change to Sample ID

Analyst(s)

Rui Cindy Geng (44)

h/c
Baojia Ke, Laboratory Manager
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. Samples reported as <1% or none detected may require additional testing by TEM to confirm asbestos quantities. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted.

NVLAP Lab Code 101048-3



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Study, 450 N Street, Sacramento, CA

EMSL Proj:
Analysis Date: 5/22/2009

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Table with 7 columns: Sample, Description, Appearance, % Fibrous, % Non-Fibrous, Asbestos % Type. Rows include samples like 05-Vinyl Floor Tile Mastic, 06-12"x12" Vinyl Floor Tile, 07-2'x4' ACT w/D+F, 08-Carpet Glue, 09-Wall Texture, and 10-DW.

Report Amended: 5/26/2009 6:12:37 PM Replaces the Initial Report. Reason Code: Data Entry Error-Change to Sample ID

Analyst(s)

Rui Cindy Geng (44)

Baojia Ke, Laboratory Manager
or other approved signatory

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NVLAP Lab Code 101048-3



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Study, 450 N Street, Sacramento, CA

EMSL Proj:
Analysis Date: 5/22/2009

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Table with 7 columns: Sample, Description, Appearance, % Fibrous, % Non-Fibrous, % Type, Asbestos. Rows include samples 10-JC, 11-12"x12" Vinyl Floor Tile, 11-Mastic, 12-HVAC Vibration Gasket, 13-Fireproofing, 14-Boiler Door gasket.

Report Amended: 5/26/2009 6:12:37 PM Replaces the Initial Report . Reason Code: Data Entry Error-Change to Sample ID

Analyst(s)

Rui Cindy Geng (44)

Baojia Ke, Laboratory Manager
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. Samples reported as <1% or none detected may require additional testing by TEM to confirm asbestos quantities. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted.
NVLAP Lab Code 101048-3



EMSL Analytical, Inc

2235 Polvorosa Ave , Suite 230, San Leandro, CA 94577

Phone: (510) 895-3675 Fax: (510) 895-3680 Email: ml@emsl.com

Attn: Danielle Manning
Stantec Consulting Corporation
3017 Kilgore Road
Suite 100
Rancho Cordova, CA 95670

Customer ID: SECI62
Customer PO: 184710132307000
Received: 05/20/09 9:00 AM
EMSL Order: 090903821

Fax: (916) 861-0430 Phone: (916) 861-0400
Project: 184710132.307.000, Board of Equalization Infrastructure
Study, 450 N Street, Sacramento, CA

EMSL Proj:
Analysis Date: 5/22/2009

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Table with 7 columns: Sample, Description, Appearance, % Fibrous, % Non-Fibrous, % Type. Rows include 15-12"x12" Vinyl Floor Tile, 15-Mastic, 16-Wall Texture, 17-DW, 17-JC, 18-2'x4' ACT, and 19-Carpet Glue.

Report Amended: 5/26/2009 6:12:37 PM Replaces the Initial Report . Reason Code: Data Entry Error-Change to Sample ID

Analyst(s)

Rui Cindy Geng (44)

Baojia Ke, Laboratory Manager
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. Samples reported as <1% or none detected may require additional testing by TEM to confirm asbestos quantities. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted.

NVLAP Lab Code 101048-3



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Attn: Danielle Manning
Stantec Consulting Corporation
3017 Kilgore Road
Suite 100
Rancho Cordova, CA 95670

Customer ID: SECI62
Customer PO: 184710132307000
Received: 05/20/09 9:00 AM
EMSL Order: 090903821

Fax: (916) 861-0430 Phone: (916) 861-0400
Project: 184710132.307.000, Board of Equalization Infrastructure
Study, 450 N Street, Sacramento, CA

EMSL Proj:
Analysis Date: 5/22/2009

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Table with 7 columns: Sample, Description, Appearance, % Fibrous, % Non-Fibrous, Asbestos % Type. Rows include samples 20-Cove Base Glue, 21-Expansion Pad, 22-DW, 22-JC, 23-Plaster, 23-Skim Coat, and 24-Fire door.

Report Amended: 5/26/2009 6:12:37 PM Replaces the Initial Report . Reason Code: Data Entry Error-Change to Sample ID

Analyst(s)

Rui Cindy Geng (44)

Baojia Ke, Laboratory Manager
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. Samples reported as <1% or none detected may require additional testing by TEM to confirm asbestos quantities. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted.

NVLAP Lab Code 101048-3



EMSL Analytical, Inc

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Attn: Danielle Manning
Stantec Consulting Corporation
3017 Kilgore Road
Suite 100
Rancho Cordova, CA 95670

Customer ID: SEC162
Customer PO: 184710132307000
Received: 05/20/09 9:00 AM
EMSL Order: 090903821

Fax: (916) 861-0430 Phone: (916) 861-0400
Project: 184710132.307.000, Board of Equalization Infrastructure
Study, 450 N Street, Sacramento, CA

EMSL Proj:
Analysis Date: 5/22/2009

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Table with 7 columns: Sample, Description, Appearance, % Fibrous, % Non-Fibrous, % Type. Rows include samples like 25-2'x4' ACT, 26-12"x12" Vinyl Floor Tile, 26-Mastic, 27-12"x12" Vinyl Floor Tile, 27-Mastic, 28-HVAC Duct Mastic.

Report Amended: 5/26/2009 6:12:37 PM Replaces the Initial Report. Reason Code: Data Entry Error-Change to Sample ID

Analyst(s)

Rui Cindy Geng (44)

Baojia Ke, Laboratory Manager
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. Samples reported as <1% or none detected may require additional testing by TEM to confirm asbestos quantities. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted.

NVLAP Lab Code 161548-3



EMSL Analytical, Inc

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Phone: (510) 895-3675 Fax: (510) 895-3680 Email: ml@ptaslab@emsl.com

Attn: Danielle Manning
Stantec Consulting Corporation
3017 Kilgore Road
Suite 100
Rancho Cordova, CA 95670

Customer ID: SEC162
Customer PO: 184710132307000
Received: 05/20/09 9:00 AM
EMSL Order: 090903821

Fax: (916) 861-0430 Phone: (916) 861-0400
Project: 184710132.307.000, Board of Equalization Infrastructure
Study, 450 N Street, Sacramento, CA

EMSL Proj:
Analysis Date: 5/22/2009

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Table with 7 columns: Sample, Description, Appearance, % Fibrous, % Non-Fibrous, % Type. Rows include samples like 29-Sink Under Coating, 30-Cove Base Glue, 31-Carpet Glue, 32-DW, 32-JC, and 33-Fireproofing.

Report Amended: 5/26/2009 6:12:37 PM Replaces the Initial Report . Reason Code: Data Entry Error-Change to Sample ID

Analyst(s)

Rui Cindy Geng (44)

Baojia Ke, Laboratory Manager
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. Samples reported as <1% or none detected may require additional testing by TEM to confirm asbestos quantities. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted.

NVLAP Lab Code 101048-3



Chain of Custody

Asbestos Lab Services

EMSL Analytical, Inc.
 Suite 230
 2235 Polvorosa Ave
 San Leandro,
 CA 94577
 Phone: (510) 895-
 3675 (888) 455-3675
 Fax: (510) 895-3680
<http://www.emsl.com>

Please print all information legibly.

Company:	Stantec Consulting Corporation	Bill To:	Stantec Consulting Corporation
Address1:	3017 Kilgore Road, Suite 100	Address1:	3017 Kilgore Road, Suite 100
Address2:		Address2:	
City, State:	Rancho Cordova, CA	City, State:	Rancho Cordova, CA
Zip/Post Code:	95670	Zip/Post Code:	95670
Country:	USA	Country:	USA
Contact Name:	Danielle Manning	Attn:	Danielle Manning
Phone:	916-861-0400	Phone:	916-861-0400
Fax:	916-861-0430	Fax:	916-861-0430
Email:	danielle.manning@stantec.com	Email:	danielle.manning@stantec.com
EMSL Rep:	Andrea Norman	P.O. Number:	
Project Name/Number: BOE/184710132.307.000			

MATRIX			TURNAROUND			
<input type="checkbox"/> Air	<input type="checkbox"/> Soil	<input type="checkbox"/> Micro-Vac	<input type="checkbox"/> 3 Hours	<input type="checkbox"/> 6 Hours		<input type="checkbox"/> 24 Hours (1 day)
<input checked="" type="checkbox"/> Bulk	<input type="checkbox"/> Drinking Water		<input checked="" type="checkbox"/> 48 Hours (2 days)	<input type="checkbox"/> 72 Hours (3 days)	<input type="checkbox"/> 96 Hours (4 days)	<input type="checkbox"/> 120 Hours (5 days)
<input type="checkbox"/> Wipe	<input type="checkbox"/> Wastewater		<input type="checkbox"/> 144+ hours (6-10 days)			

TEM AIR, 3 hours, 6 hours, Please call ahead to schedule. There is a premium charge for 3-hour tat, please call 1-800-220-3675 for price prior to sending samples. You will be asked to sign an authorization form for this service.

PCM - Air	TEM Air	TEM WATER
<input type="checkbox"/> NIOSH 7400(A) Issue 2: August 1994	<input type="checkbox"/> AHERA 40 CFR, Part 763 Subpart E	<input type="checkbox"/> EPA 100.1
<input type="checkbox"/> OSHA w/TWA	<input type="checkbox"/> NIOSH 7402	<input type="checkbox"/> EPA 100.2
<input type="checkbox"/> Other:	<input type="checkbox"/> EPA Level II	<input type="checkbox"/> NYS 198.2
PLM - Bulk	TEM BULK	TEM Microvac/Wipe
<input checked="" type="checkbox"/> EPA 600/R-93/116	<input type="checkbox"/> Drop Mount (Qualitative)	<input type="checkbox"/> ASTM D 5755-95 (quantitative method)
<input type="checkbox"/> EPA Point Count	<input type="checkbox"/> Chatfield SOP - 1988-02	<input type="checkbox"/> Wipe Qualitative
<input type="checkbox"/> NY Stratified Point Count	<input type="checkbox"/> TEM NOB (Gravimetric) NYS 198.4	
<input type="checkbox"/> PLM NOB (Gravimetric) NYS 198.1	<input type="checkbox"/> EMSL Standard Addition:	XRD
<input type="checkbox"/> NIOSH 9002:		<input type="checkbox"/> Asbestos
<input type="checkbox"/> EMSL Standard Addition:	PLM Soil	<input type="checkbox"/> Silica NIOSH 7500
SEM Air or Bulk	<input type="checkbox"/> EPA Protocol Qualitative	
<input type="checkbox"/> Qualitative	<input type="checkbox"/> EPA Protocol Quantitative	OTHER
<input type="checkbox"/> Quantitative	<input type="checkbox"/> EMSL MSD 9000 Method fibers/gram	<input type="checkbox"/>

Received at EMSL Analytical, Inc.
 San Leandro, CA (888) 455-3675

By *S. Manning*

Date *5/20/09 @ 9:00 am* pm

F/E



3017 Kilgore Road, Suite 100,
Ranch Cordova, CA 95670
(916) 861-0400 (916) 861-0430 Fax

Stantec

Asbestos Survey Form

Project Name: Board of Equalization Infrastructure Study
Project #: 184710132 Task #: 307.00

Site Name: Board of Equalization Date: 5/18/09
Site Address: 450 N Street Inspector: D. Mochrie
Sacramento, CA D. Manning

Sample Number	Material Description	Sample Location	Estimated Quantity	Condition	Notes/Comments
01	2'x4' ACT w/DAF WHITE	FL 2Z, NW OF COLUMN K20		GOOD	REPORTED TO SE. NEW INSTALLATION
02	FIREPROOFING	FL 2Z, NW OF COLUMN K20	543,000 SF	GOOD	LOCATED T/O
03	VINYL FLOOR SHEETING	JANITOR CLOSET FL 2Z	1,200 SF	GOOD	LIGHT → DARK GRAY MOTTLED PATTERN
04	COVE BASE GLUE	FL 2Z, SWC ELEVATOR LOBBY	32,800 LF	GOOD	YELLOW BLUE
05	VINYL FLOOR TILE MASTIC	FL 2Z, STORAGE ROOM 22B, WEST SIDE	4,000 SF	GOOD	
06	12" x 12" VINYL FLOOR TILE	↓	↓	↓	WHITE w/BLUE SPECKS
07	2' x 4' ACT w/DAF	FL 11, ADJ TO COLUMN K-22		GOOD	OLD ACT
08	CARPET GLUE	FL 11, SWC	457,000 SF	GOOD	
09	WALL TEXTURE	MEZZANINE LEVEL, COPY ROOM N. WALL MEZZANINE LEVEL,		GOOD	WHITE,
10	DAF JC	SEC COPY ROOM	259,000 SF	GOOD	

Relinquished By: David Manning Date: 5/19/09 Received By: SM Date: 5/20/09
 Page 1 of 4 9:00 FILE



3017 Kilgore Road, Suite 100,
Ranch Cordova, CA 95670
(916) 861-0400 (916) 861-0430 Fax

Stantec

Asbestos Survey Form

Project Name: Board of Equalization Infrastructure Study
Project #: 184710132 Task #: 307.00

Site Name: Board of Equalization
Site Address: 450 N Street
Sacramento, CA

Date: 5/18/09
Inspector: D. Mochrie
D. Manning

Sample Number	Material Description	Sample Location	Estimated Quantity	Condition	Notes/Comments
11	12" x 12" VINYL FLOOR TILE + MASTIC	MEZZANINE LEVEL, WOMENS R/R SEC	200 SF	GOOD	LOCATED IN MEN'S R/R ALSO. GRAY BLAKE WHITE SPECKLE PATTERN
12	HVAC VIBRATION GASKET	MEZZANINE LEVEL, SUPPLY FANS B+H	480 EA	GOOD	
13	FIRE PROFILING	PENTHOUSE, SEC COLUMN	11,800 SF	GOOD	
14	BOILER DOOR GASKET	PENTHOUSE BOILER	4 ea	GOOD	WOVEN FABRIC
15	12" x 12" VINYL FLOOR TILE + MASTIC	PENTHOUSE OFFICE	4,000 SF	GOOD	LOCATED IN PH LOCKER ROOMS, OFFICE + BREAKROOM
16	WALL TEXTURE	PENTHOUSE LOCKER ROOM SEC	3,100 SF	GOOD	↓ + HALLWAYS
17	DW/SC	PENTHOUSE STORAGE ROOM N. SIDE	4,500 SF	GOOD	
18	2' x 4' ACT	PARKING GARAGE - EXPOSED ROOM - CENTER	600 SF	GOOD	WHITE w/DOF
19	CARPET GLUE	↓ E. SIDE	600 SF	GOOD	
20	CORE BASE GLUE	↓ E. SIDE	100 LF	GOOD	

Relinquished By: *D. Manning* Date: 5/19/09 Received By: *Sm...* Date: 5/20/09
Page 2 of 4 9:00



3017 Kilgore Road, Suite 100,
Ranch Cordova, CA 95670
(916) 861-0400 (916) 861-0430 Fax

Stantec

Asbestos Survey Form

Project Name: Board of Equalization Infrastructure Study
Project #: 184710132 Task #: 307.00

Site Name: Board of Equalization
Site Address: 450 N Street
Sacramento, CA

Date: 5/18/09
Inspector: D. Mochrie
D. Manning

Sample Number	Material Description	Sample Location	Estimated Quantity	Condition	Notes/Comments
21	EXPANSION PAO	PARKING GARAGE, 3rd FLOOR ASJ ELEVATOR	120 EA	GOOD	
22	DW/JC	PARKING GARAGE-3rd Fl Boiler room Electrical room	1,600 SF	GOOD	
23	PLASTER	PARKING GARAGE-3rd Fl BOILER ROOM	500 SF	GOOD	WHITE
24	FIRE DOOR	STOCK IN BOILER ROOM IN P.G., 3rd FL.	150 EA	GOOD	ELEVATOR FIRE DOOR
25	2' X 4' AGF	NEC MAIL PROCESSING ROOM	1500 SF	GOOD	
26	12" X 12" VINYL FLOOR TILE + MASTIC	MAIL PROCESSING ROOM NWC	600 SF	GOOD	WHITE VFT + YELLOW MASTIC
27	12" X 12" VINYL FLOOR TILE + MASTIC	Room 139	1,000 SF	GOOD	GRAY VFT + YELLOW MASTIC
28	HVAC DUCT MASTIC	Room 139 CENTER	50 EA	GOOD	WHITE
29	SINK UNDERCOATING	DAYCARE KITCHEN	10 SF	GOOD	
30	COKE BASE GLUE	NORTH SIDE CAFETERIA	1,700 LF	GOOD	

Relinquished By: *Danielle Manning* Date: 5/19/09 Received By: *DM* Date: 5/20/09
Page 3 of 4



LA Testing

169 Pasadena Avenue, South Pasadena, CA 91030

Phone: (916) 861-0430 Fax: (916) 861-0400 Email: pasadena@la-testing.com

Attn: Danielle Manning
Stantec Consulting Corporation
3017 Kilgore Road
Suite 100
Rancho Cordova, CA 95670

Customer ID: 32SECI62
Customer PO:
Received: 05/20/09 9:00 AM
LA Testing Order: 320905079

Fax: (916) 861-0430 Phone: (916) 861-0400
Project: BOE/184710132.307.000

LA Testing Proj:

Lead in Paint Chips by Flame AAS (SW 846 3050B*/7000B)

Table with 5 columns: Client Sample Description, Lab ID, Collected, Analyzed, Lead Concentration. Contains 11 rows of sample data.



Handwritten signature of Derrick Tanner

Derrick Tanner, Laboratory Manager
or other approved signatory

Reporting limit is 0.01 % wt. The QC data associated with these results included in this report meet the method QC requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. * slight modifications to methods applied.



LA Testing
 158 Pasadena Avenue, South Pasadena, CA 91730
 Phone: (916) 861-0430 Fax: (916) 861-0400 Email: yug@laaas213.com

Attn: **Danielle Manning**
Stantec Consulting Corporation
3017 Kilgore Road
Suite 100
Rancho Cordova, CA 95670

Customer ID: 32SEC162
 Customer PO:
 Received: 05/20/09 9:00 AM
 LA Testing Order: 320905079

Fax: (916) 861-0430 Phone: (916) 861-0400
 Project: BOE/184710132.307.000

LA Testing Proj:

Lead in Paint Chips by Flame AAS (SW 846 3050B*/7000B)

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Lead Concentration</i>
P-12 Daycare Kitchen NWC Kitchen in Daycare	0012	5/18/2009	5/20/2009	<0.010 % wt
P-13 Electrical Room 1st Fl N. Wall	0013	5/18/2009	5/20/2009	0.052 % wt

Derrick Tanner, Laboratory Manager
 or other approved signatory

Reporting limit is 0.01 % wt. The QC data associated with these results included in this report meet the method QC requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected. EMST bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. * slight modifications to methods applied.

320905079



Chain of Custody Lead Lab Services

EMSL Analytical, Inc.
159 Pasadena Avenue
South Pasadena,
CA 91030

Phone: 1-800-303-0047
Fax: 323-254-9982
<http://www.emsl.com>

Please print all information legibly.

Company:	Stantec Consulting Corporation	Bill To:	Stantec Consulting Corporation
Address1:	3017 Kilgore Road, Suite 100	Address1:	3017 Kilgore Road, Suite 100
Address2:		Address2:	
City, State:	Rancho Cordova, CA	City, State:	Rancho Cordova, CA
Zip/Post Code:	95670	Zip/Post Code:	95670
Country:	USA	Country:	USA
Contact Name:	Danielle Manning	Attn:	Danielle Manning
Phone:	916-861-0400	Phone:	916-861-0400
Fax:	916-861-0430	Fax:	916-861-0430
Email:	danielle.manning@stantec.com	Email:	danielle.manning@stantec.com
EMSL Rep:	Andrea Norman	P.O. Number:	
Project Name/Number: BOE/184710132.307.000			

MATRIX	METHOD	INSTRUMENT	RL (Reporting Limit)	TAT
Lead Chips*	SW846-7420, 3050B Mod./AOAC(974.02)	Flame Atomic Absorption	0.01% ++	Z DAY <i>de</i>
Lead WasteWater	SW846-7420	Flame Atomic Absorption	0.4 mg/l water 40 mg/kg (ppm) soil	
Lead Soil +	or SW846-6010B	ICP	0.1 mg/l water 10 mg/kg (ppm) soil	
Lead in Air ***	NIOSH 7082 Mod.	Flame Atomic Absorption	4 ug/filter	
	or NIOSH 7300 Mod.	ICP	3.0 ug/filter	
Lead in Wipe^ <input type="checkbox"/> -ASTM List Wipe Type	SW846-7420 / HUD Appendix 14.2 Digest	Flame Atomic Absorption	10 ug/wipe	
<input type="checkbox"/> -non ASTM	or SW846-6010B	ICP	3.0 ug/wipe	
TCLP Lead **	SW846-1311/ 7420	Flame Atomic Absorption	0.4 mg/l (ppm)	
	or SW846-6010B	ICP	0.1 mg/l (ppm)	
STLC Lead (California) #	CA Title 22 66261.126/ SW846-7420	Flame Atomic Absorption	0.4 mg/l (ppm)	
	or SW846-6010B	ICP	0.1 mg/l (ppm)	
Lead in Air ****	NIOSH 7105 Mod.	Graphite Furnace Atomic Absorption	0.03 ug/filter	
Lead WasteWater	SW846-7421	Graphite Furnace Atomic Absorption	0.003 mg/l (ppm) water	
Lead Soil +			0.03 mg/kg (ppm) soil	
Lead in Drinking Water (check state Certification requirements)	EPA 239.2 / 200.9	Graphite Furnace Atomic Absorption	0.003 mg/l (ppm)	
Total Dust	NIOSH 0500-0600	Gravimetric Reduction	0.0001g	

TAT (Turnaround) - Same day, 24 hr - 1 Day, 2 Days, 3 Days, 4 Days, 5 Days, 6-10 Days

*, **, ***, ****, +, ++, # Please Refer to Price Quote

A (PE) 5/20 9AM



320905079

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Tel: (916) 861-0400
Fax: (916) 861-0430

Paint Chip Sample Log

Stantec

Project Name: Board of Equalization Site Address: 450 N Street Date: 5/18/09
 Project Number: 184710132 Task #: 307.00 Inspector: Mochrie
 D. Manning, D.

Sample Number	Room	Component	Substrate	Sample Location*	Estimated Quantity	Notes/Condition/ Paint Color
P-01	JANITOR CLOSET FLOOR 22	DOOR FRAME METAL	METAL	WEST SIDE OF DOOR FRAME		WHITE, GOOD CONDITION
P-02	↓	DOOR	METAL	AT DOOR JAMB		WHITE, GOOD CONDITION
P-03	↓	WALL	GYPSUM BOARD	SOUTH SIDE WALL		WHITE, GOOD CONDITION
P-04	STORAGE ROOM 22 & FL 22	CEILING	GYPSUM BOARD	CEILING, SOUTH SIDE		↓
P-05	PENT HOUSE	STRUCTURAL GLASS	STEEL	SOUTH SIDE, CENTER		SAMPLED & ANALYZED LOCATION, RED
P-06	↓	DOOR	WOOD	ELEVATOR FIRE DOOR		GRAY, GOOD CONDITION
P-07	↓	WALL	GYPSUM BOARD	SOUTH SIDE OF PH, ADJ TO ELEVATOR		WHITE, GOOD CONDITION
P-08	EXERCISE ROOM 146	WALL	GYPSUM BOARD	SOUTH WALL		WHITE, GOOD CONDITION
P-09	PARKING GARAGE 306A	FLOOR	CONCRETE	EAST SIDE		↓
P-10	↓	WALL	↓	↓		↓

* - Include sample dimensions if trying to achieve mg/cm².

Relinquished By: *D. Manning* Date: 5/19/09 Received By: _____ Date: _____
 Relinquished By: _____ Date: _____ Received By: _____ Date: _____



Stantec

320905079

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Tel: (916) 861-0400
Fax: (916) 861-0430

Paint Chip Sample Log

Date: 5/18/09
18 (DAM)

Project Name: Board of Equalization Site Address: 450 N Street Date: 5/18/09
Inspector: D. Manning, D. Mochrie
Project Number: 184710132 Task #: 307.00 Sacramento, CA

Sample Number	Room	Component	Substrate	Sample Location*	Estimated Quantity	Notes/Condition/ Paint Color
P-11	MAIL PROCESSING	WALL	GYPSUM BOARD	NORTHEAST CORNER		WHITE, GOOD CONDITION
P-12	DAYCARE KITCHEN	WALL	GYPSUM BOARD	NWC KITCHEN IN DAYCARE		↓
P-13	ELECTRICAL ROOM IS/FL	WALL	GYPSUM BOARD	N. WALL		↓
NOTHING ELSE FOLLOWS						

* - Include sample dimensions if trying to achieve mg/cm².

Relinquished By: *[Signature]* Date: 5/19/09 Received By: _____ Date: _____
Relinquished By: _____ Date: _____ Received By: _____ Date: _____