
HAZMAT INSPECTION REPORT

For:

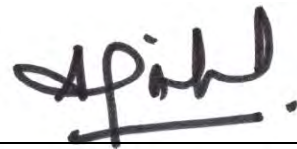
**VA PITTSBURGH HEALTHCARE SYSTEM
UNIVERSITY DRIVE C,
PITTSBURGH, PENNSYLVANIA 15240**

Prepared For:

**Miller-Remick Corporation
1010 Kings Highway South
Building One - First Floor
Cherry Hill, New Jersey 08034**

Prepared By:

**Langan Engineering & Environmental Services, Inc.
2700 Kelly Road, Suite 200
Warrington, PA 18976**



**Vijay Patel
Senior Associate**

**October 7, 2011
250013701**



TABLE OF CONTENTS

	<u>Page No.</u>
ACRONYMS	1
1.0 INTRODUCTION	2
2.0 SITE DESCRIPTION	2
3.0 HAZMAT FINDINGS	2
3.1 Terminology	2
3.2 Inspection Methodology	3
3.3 Observations and Findings	4
3.3.1 Asbestos-Containing Materials	4
3.3.2 Lead-Based Paint	6
3.3.3 Universal Waste	7
4.0 CONCLUSIONS AND RECOMMENDATIONS	7
4.1 Asbestos Containing Materials	7
4.2 Lead Based Paint	9
4.3 Universal and Other Miscellaneous Wastes	10
5.0 LIMITATIONS, EXCEPTIONS AND ASSUMPTIONS	10

TABLES

Table 1	Summary of Asbestos Inspection Findings
Table 2	Summary of Asbestos Sample Results
Table 3	Lead Paint XRF Screening Data
Table 4	Summary of Universal Waste

LIST OF DRAWINGS

AS-1	Asbestos Sampling Locations – Ground Floor
AS-2	Asbestos Sampling Locations – 1st Floor
AS-3	Asbestos Sampling Locations – 2nd Floor

APPENDICES

Appendix A	Laboratory Test Results and Chain of Custody Documentations
Appendix B	Langan’s Certifications and Laboratory Accreditations

ACRONYMS

USEPA	United States Environmental Protection Agency
ASHERA	Asbestos Hazard Emergency Response Act
OSHA	Occupational Safety and Health Administration
CFR	Code of Federal Regulation
NESHAPS	National Standards for Hazardous Air Pollutants
HUD	Housing and Urban Development
PADEP	Pennsylvania Department of Environmental Protection
PADOLAI	Pennsylvania Department of Labor and Industry
PADOH	Pennsylvania Department of Health
RCRA	Resource Conservation and Recovery Act
PLM	Polarized Light Microscopy
ACM	Asbestos-Containing Materials
LBP	Lead-Based Paint
SF	Square Feet
LF	Linear Feet
CY	Cubic Yard
mg/cm ²	Milligrams per square centimeter
XRF	X-ray Fluorescence
AAS	Atomic Absorption Spectrometry
TCLP	Toxicity Characteristic Leaching Procedures

1.0 INTRODUCTION

Langan Engineering and Environmental Services, Inc. has prepared this Hazmat Inspection Report to identify the presence/absence of asbestos containing materials (ACM), lead based paint (LBP), Polychlorinated Biphenyls (PCB)/Mercury containing electrical articles, batteries; smoke detectors and emergency signs which may contain radioactive materials; and other miscellaneous and universal articles in the Animal Research Center Building (Building #6) located within the VA Pittsburgh Healthcare System Complex at University Drive C, Pittsburgh, Pennsylvania 15240.

The purpose of the inspection was to identify the presence/absence of ACM, LBP, and other hazmat, and to prepare an inventory of these materials so they could be appropriately segregated, removed and disposed of as part of the remediation prior to building demolition. The remainder of this Report presents our observations, findings, laboratory test results of samples collected, plans showing sampling locations, and itemized inventory of hazmat identified in the building.

2.0 SITE DESCRIPTION

The Site lies within an area surrounded by university, sport complex and residential communities. The subject building is located on the north section of the Healthcare complex. The original building was constructed in the early 1950's with additions in 1963 and 1985. The building is of masonry, concrete and steel construction.

3.0 HAZMAT FINDINGS

3.1 Terminology

Suspect Asbestos-Containing Materials

Historically, asbestos was used in certain types of construction and building materials. There is an extensive list of materials suspected of containing asbestos, as such, until the suspect material is examined using light microscopy or a similar technique, it is considered to be an asbestos-containing material. A few examples of these materials include floor tiles, ceiling panels, thermal system insulation, fireproofing insulation, roofing materials, etc. Any suspect ACM of unknown asbestos content (that is not tested) should be handled as if it were an

asbestos containing material.

Asbestos-Containing Material

A material with an asbestos concentration greater than one percent by weight is considered to be asbestos-containing by the United States Environmental Protection Agency (USEPA). Thus, a material which contains asbestos in concentrations greater than 1% by weight is considered as "Positive" while materials that do not contain asbestos or asbestos is detected in concentrations less than one percent by weight are considered as "Negative".

Friable Asbestos-Containing Material

A friable material is one that can be easily crumbled, pulverized, or reduced to powder by hand or mechanical pressure. This characteristic of a building material is directly linked to the potential of the material to release asbestos fibers into the air.

Non-friable Asbestos-Containing Material

Materials that are organically bound normally fall into this category as long as they are in good condition. Some of the materials, which would be defined as non-friable material, include floor tiles, roofing materials, mastic, etc.

3.2 Inspection Methodology

Asbestos-Containing Materials

The asbestos inspection was conducted in accordance with EPA protocol outlined in the EPA publication "Asbestos in Buildings". Suspect ACM was visually identified during a room-by-room, floor-by-floor inspection of the buildings. Suspect ACM was categorized into various homogeneous materials and types, and sampled and analyzed for asbestos content. Sampling and analysis were conducted in accordance with EPA protocol 600/M4-82-020 per 40 CFR 763. Samples that were collected were properly packaged in individual containers, sealed, catalogued and recorded on chain-of-custody documentation. Quantities of suspect materials and observations of physical condition and friability of the materials were noted.

Lead-Based Paint

A Niton XL 300 series X-Ray Fluorescence Spectrum Analyzer (XRF) was used to inspect the building for the presence of lead-based paint (LBP). The NITON analyzer uses a cadmium 109 radioactive source and an advanced solid-state radiation detector to generate an x-ray fluorescence spectrum of a painted surface. During the analysis, the intensity of the x-rays is converted by the instrument's internal software into an estimate of the concentration of lead in the substance being analyzed. The results are interpreted as concentrations of lead in milligrams per square centimeter (mg/cm^2). This device is a field-screening tool, used to collect multiple readings in a short period of time. The method of measurement is based on spectrometric analysis of lead K-shell x-ray fluorescence within a controlled depth of interrogation.

For the purpose of this inspection, the XRF results were compared against the Federal Housing and Urban Development (HUD) Guidelines. According to HUD, a XRF reading below $1.0 \text{ mg}/\text{cm}^2$ would designate paint as non-LBP while reading of $1.0 \text{ mg}/\text{cm}^2$ or greater would designate paint as LBP.

Universal Wastes

The building was visually inspected to identify the presence/absence of Universal waste including but not limited to: Fluorescent lamps, ballasts that may contain PCB, regular light bulbs, high intensity discharge lamps, emergency exit signs and batteries, and mercury-containing thermostats/meters.

3.3 Observations and Findings

Langan's USEPA/AHERA and State of Pennsylvania accredited asbestos and lead inspector, Sanjay Patel performed the hazmat inspection of the building. The field investigation of the subject building was conducted between September 22-26, 2011.

3.3.1 Asbestos-Containing Materials

The investigations included visual observations, assessing the conditions, collection of bulk samples as necessary, and quantification of suspect material. The building was occupied at the time our inspection, and therefore, intrusive means of investigation were not employed to identify potentially concealed suspect materials.

During Langan's investigation one hundred seventeen (117) bulk samples of the observed suspect materials were collected from the building. As required by the USEPA, samples were analyzed by individual layer (i.e., floor tile & the associated mastic were analyzed as two (2) separate samples). Samples were analyzed by AmeriSci laboratory of New York, New York using polarized light microscopy. AmeriSci is certified by National Voluntary Laboratory Accreditation Program (NVLAP).

The following suspect ACM were visually observed in the building during our site visit:

- Wall plaster
- Ceiling plaster
- Brick mortar
- Mud-pack pipe joint insulation
- Various colors baseboard molding and mastic/glue
- Pipe insulation (New type)
- Sheetrock board
- Various ceiling panels
- Pect materials 12-inch light green floor tile and glue
- 12-inch spackled beige floor tile and glue
- 12-inch mottled beige floor tile and mastic
- 9-inch stripped tan floor tile
- Beam/Column plaster
- Paper on ceiling deck
- Pipe cover on fiberglass pipe insulation
- Pipe wrap on fiberglass pipe insulation
- Table top material (Stone type)
- Glue associated with duct insulation pins
- Epoxy floor material and mastic
- Door caulking - Grey
- Door caulking - Beige
- Interior window caulking
- Old pipe insulation (observed)
- Louver caulking
- Debris inside radiator enclosure
- Radiator backing insulation
- Metal door insulation
- Door window caulking (Metal Doors)
- Transite wall panel
- Transite panel inside furnace
- Table top material
- 9-inch green floor tile and mastic
- 9-inch light brown floor tile and mastic
- 12-inch light olive green floor tile
- 9-inch alternative installed grey and beige floor tile and mastic
- 9-inch brown floor tile and mastic
- Door caulking - Lt. Grey
- Transite pipe
- Freezer waterproofing vapor barrier mastic materials within walls and floor
- Waterproofing vapor barrier mastic materials under ceramic floor and wall tiles
- Vibration dumper cloth
- Wooden door insulation
- Built-up roofing and flashing/mastic materials
- Window lintel flashing/mastic and

- Exterior window caulking
- Fire stop caulking
- Floor coating
- Caulking around steel duct seams
- Concrete expansion joint caulking
- Lintel caulking
- Exterior floor-wall joint compound
- wall/floor slab dump roofing materials
- Waterproofing mastic materials which may exist concealed underlying wall plaster
- Waterproofing mastic materials which may exist concealed underlying concrete floor slab
- Waterproofing vapor barrier materials which may exist concealed on building foundation walls
- Electrical wire insulation
- Wall expansion joint caulking
- Mastic on fiberglass duct insulation wrap
- Remnants of roof flashing
- Old pipe insulation that may exist concealed within wall, floor and ceiling pipe chases/cavities and plenums.

The details of the asbestos inspection findings are provided in Table 1, Summary of Asbestos Survey Findings. The laboratory test results are summarized in Table 2, and a copy of the analytical data and chain-of-custody documentation is provided in Appendix A.

3.3.2 Lead-Based Paint

For the LBP inspection, painted surfaces were screened to identify the presence/absence of LBP. The painted components which were screened primarily included plaster, cinderblock, brick and sheetrock walls, plaster and sheetrock ceilings, metal columns and beams, metal and wooden door and window components, metal lintels, metal radiator covers, metal piles, metal hatch doors and registers, metal ladder, metal ducts, and concrete floors. Based on the XRF screening results and comparison to the HUD guidelines, the paint on following building components was identified to be LBP:

- Paint on metal door and window lintels
- Coffee paint on metal stair components
- White and beige paint on metal beams
- Beige paint on metal columns

The summary of XRF Screening Results is provided in Table 3.

3.3.3 Universal Waste

Fluorescent light fixtures were observed throughout the building. The lights were energized, and therefore, we were unable to inspect the fixtures for the presence/absence of PCB ballasts. Florescent light bulbs and other mixed used high intensity discharge light bulbs containing mercury were observed throughout the building. Refrigerators were observed in the building which may contain CFC (chlorofluorocarbon) refrigerant. Refer to Table 4 for an inventory of electrical and other miscellaneous building materials which fall within the universal waste category that were identified during our inspections.

4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 Asbestos Containing Materials

Regulatory Guidelines and Requirements

Federal

In accordance with the Clean Air Act (CAA), the U.S. Environmental Protection Agency (EPA) established National Emission Standards for Hazardous Air Pollutants (NESHAP) to protect the public from exposure to airborne pollutants. Asbestos is one of the air pollutants, addressed under the NESHAP 40 CFR Part 61. The purpose of asbestos NESHAP regulations is to protect the public health by minimizing the release of asbestos when facilities, which contain ACM, are being renovated or demolished. EPA is responsible for enforcing regulations related to asbestos during renovations and demolition, however, the CAA allows the EPA to delegate this authority to State and Local Agencies. Even after EPA delegates responsibility to a state or Local agency, EPA retains the authority to oversee agency performance and to enforce NESHAP regulations as appropriate.

State

Asbestos abatement in Pennsylvania is regulated by the Department of Labor and Industry. This agency oversees licensing of asbestos abatement workers, supervisors and contractors. Removal must be completed in compliance with the Federal requirements discussed above.

Asbestos-containing materials were identified in friable and non-friable forms in the subject buildings. Refer to Table 1 for the details of asbestos inspection findings.

The Federal EPA and PADOL require all regulated asbestos-containing material (RACM) to be removed prior to building demolition. RACM include friable and category II non-friable ACM, as defined by the EPA's National Emission Standard for Hazardous Air Pollutants (NESHAP) regulation. An example of category II non-friable ACM is Transite panel.

Category I non-friable ACM, such as resilient flooring and bituminous roofing are not RACM and are not required to be removed prior to demolition provided that:

- 1) They are not made friable as a result of the demolition activities,
- 2) The building systems, such as concrete flooring, are not to be recycled.

Prior to conducting building demolition, we recommend the following:

- All regulated ACM, Category II Non-friable transite panels, and Category I non-friable materials such as floor tiles, caulking, etc. which are expected to become friable be properly removed and disposed prior to onset of demolition activities. The abatement work should be performed by a PADOL licensed asbestos handling contractor. Proper notifications should be filed with the USEPA, PADOL, and other local and state regulatory agencies prior to performing such activities.
- The Category I non-friable asbestos containing roof flashing materials are not expected to become friable as a result of building demolition activities. As such, prior to performing building demolition activities, the current regulations do not mandate removal of these materials. The resulting demolition debris that contains ACM roofing cannot, however, be reused on-site, but shall be disposed off at a landfill approved to receive such waste.
- Although not mandated by the current state regulation, the abatement activities should be monitored by a third party project monitor. The project monitor oversees the contractor's work practices to ensure regulatory compliance and performs final clearance visual inspections and clearance air testing.
- Technical specifications for asbestos abatement and abatement design drawings should be prepared for this project. Langan is preparing abatement design documents under a separate cover.

4.2 Lead Based Paint

Comparison of the XRF screening results to HUD guidelines indicates that the paint on several metal components including but not limited to stairs, door and window lintels, ladder, columns and beams in the building was identified as LBP. The paint on other tested building components was identified as non-LBP. Overall, the painted surfaces were observed to be in fair to good condition.

Under current regulations, incidental handling of LBP as part of a demolition or renovation project, when the objective of such handling itself is not meant as "mitigation or permanent elimination" of a LBP hazard, is not considered to constitute "lead abatement". Any contractor performing work for which it is otherwise qualified, may undertake LBP-handling activities, as long as the contractor acts in a prudent manner. The contractor may directly disturb LBP (e.g., cutting into the paint's substrate, demolition of paint surfaces, etc.), as long as effective methods are utilized to protect workers from undue exposure to LBP pursuant to the OSHA Lead Construction Standard.

The Federal Resource Conservation and Recovery Act (RCRA) regulation governs the handling, transportation, and disposal of hazardous materials. As part of the demolition work scope it must be determined whether the demolition debris that is generated exhibits one or more of the characteristic wastes listed in subpart C of 40 CFR Part 261. In the case of renovation/demolition debris, lead in paint is a characteristic waste, and therefore, the demolition debris must be characterized prior to its disposal and, if found to be hazardous waste as defined by Federal Statutes, it will need to be properly handled and disposed.

Metal objects painted with LBP are exempt from disposal regulations applicable to lead, provided they are recycled. Therefore, all metal objects that are painted with LBP which will be disposed should be sent to a certified recycling facility.

Concentrated LBP waste that will be generated by abatement activities involving stripping or scraping will be classified as hazardous waste under current federal and state code, requiring specialized containerization and disposal.

LBP associated with masonry/concrete wall and ceiling surfaces to be demolished is often not required to be handled as hazardous waste, assuming the mixed waste does not "fail" the

TCLP (Toxic Characteristic Leaching Procedure) test for classifying characteristic hazardous waste. The demolition waste should be properly characterized to determine if it is hazardous or not and disposed of accordingly.

Handling of building components containing LBP as part of any planned demolition project will require dust suppression and control relative to OSHA compliance and good industry practice to prevent fugitive dust exposure to personnel in adjacent areas. Specific waste handling is expected to be necessary on this project where concentrated waste is generated by demolition, specific stripping, scraping, and similar operations.

Painted surfaces that would be impacted by planned activities which include drilling, cutting, etc. and create dust should be properly addressed by following safe work practices and good housekeeping procedures. Grinding and sanding of paint without HEPA filter exhaust, torching with open flame, unconfined abrasive blasting, and chemical strippers containing methylene chloride or other human carcinogenic chemicals are not recommended.

4.3 Universal and Other Miscellaneous Wastes

Universal and miscellaneous hazmat waste that would be impacted by planned demolition must be properly removed prior to demolition. The waste removed must be properly recycled, and/or disposed of at a landfill permitted to accept such waste. The removal, handling, recycling, and disposal must be performed in accordance with applicable Federal, State, and local regulations.

5.0 LIMITATIONS, EXCEPTIONS AND ASSUMPTIONS

Opinions and recommendations presented in this report apply to site conditions and features as they existed at the time of Langan's site visit, and those reasonably foreseeable. They cannot necessarily apply to conditions and features of which Langan is unaware and has not had the opportunity to evaluate.

The conclusions presented in this report are professional opinions based solely upon Langan's visual observations of accessible areas, laboratory test data, and current regulatory requirements. These conclusions are intended exclusively for the purpose stated herein, at the site indicated, and for the project indicated. This report is not intended for use as a technical specification for remediation of the materials identified.

It is important to recognize that even the most comprehensive scope of services may fail to detect all asbestos containing materials that may be associated with the property. Therefore, Langan cannot act as insurers and cannot "certify" that all ACMs associated with the property have been identified, and no expressed or implied representation or warranty is included or intended in our report, except that our services were performed, within the limits prescribed by our client, with the customary thoroughness and competence of our profession. Any suspect material that is not listed in this report must be presumed as ACM until confirmed otherwise via laboratory testing.

TABLES 1

SUMMARY OF ASBESTOS INSPECTION FINDINGS

TABLE 1 - SUMMARY OF ASBESTOS SURVEY FINDINGS University Dr. Research Center - Bldg. 6 University Drive C, Pittsburgh, PA				
Material	Location	Inspection Results	Estimated Quantity of ACM or Presumed ACM	Notes/Comments
Materials identified to be ACM or Presumed ACM				
Old pipe insulation (observed)	Ground Floor - Room 118	ACM	1 SF	Approximately one linear foot of 4-inch diameter pipe insulation was observed in wall cavity.
Old pipe insulation that may exist concealed within wall, floor and ceiling pipe chases/cavities and plenums.	Throughout	ACM	672 SF	An estimate is provided for the presence of approximately 700 linear feet (672 sf) of ACM pipe insulation which may be concealed in wall and ceiling cavities.
Debris inside radiator enclosure	Floors 1 and 2 - Throughout	ACM	60 SF	ACM insulation debris was observed inside several metal radiator enclosures on the first floor. An estimate is provided for the presence of approximately 60 square feet of ACM debris which may exist within radiator enclosures on floors 1 and 2.
Radiator backing insulation	Floors 1 and 2 - Throughout	Presumed ACM	360 SF	An estimate is provided for the presence of approximately 360 square feet of presumed ACM radiator backing insulation which may exist behind all radiator enclosures on floors 1 and 2.
Metal door insulation	Ground Floor - Throughout; First and Second Floors - Localized Areas	ACM	680 SF	--
Door window caulking (Metal Doors)	Ground Floor - Throughout; First and Second Floors - Localized Areas	ACM	10 SF	--
Transite wall panel	Second Floor - Selected Locations	ACM	2,300 SF	--
Transite panel inside furnace	First Floor - Room 110	ACM	100 SF	--
Table top material	Ground Floor - Room 101	ACM	18 SF	--
9-inch green floor tile and mastic (FT-3)	Ground Floor - Rooms 112 & 113; First Floor - Room 114; Transformer Room	ACM	420 SF	--
9-inch light brown floor tile and mastic (FT-5)	First Floor - Hallway; Rooms 103, 104, 105, 106, 110, 111, 112, 113	ACM	2,280 SF	--
12-inch light olive green floor tile (FT-6)	First Floor - Hallway	ACM	90 SF	--
9-inch alternative installed grey and beige floor tile and mastic (FT-7)	Transformer Room; Second floor - Center Small Room	ACM	100 SF	--
9-inch brown floor tile and mastic (FT-9)	Second Floor Throughout (with the exception of staircases and restrooms)	ACM	3,850 SF	--
Door caulking - Lt. Grey	First Floor Level - Entrance to Staircase 2	ACM	2 SF	One masonry door opening.
Transite pipe	Second Floor - Center	ACM	120 SF	--
Freezer waterproofing vapor barrier mastic materials within walls and floor	Second Floor - Freezer	Presumed ACM	400 SF	This material may exist concealed within wall and ceiling cavities. Assumed to be ACM until confirmation sampling can be performed.
Waterproofing vapor barrier mastic materials under ceramic floor and wall tiles	Second Floor - Restrooms	Presumed ACM	700 SF	This material may exist concealed within wall, floor and ceiling cavities. Assumed to be ACM until confirmation sampling can be performed.

TABLE 1 - SUMMARY OF ASBESTOS SURVEY FINDINGS University Dr. Research Center - Bldg. 6 University Drive C, Pittsburgh, PA				
Material	Location	Inspection Results	Estimated Quantity of ACM or Presumed ACM	Notes/Comments
Vibration dumper cloth	Second Floor - Mechanical Room	Presumed ACM	10 SF	Due to occupancy, this material was not sampled. Assumed to be ACM until confirmation sampling can be performed.
Wooden door insulation	Floors 1 and 2 - Throughout	Presumed ACM	450 SF	This material may exist concealed. Assumed to be ACM until confirmation sampling can be performed.
Built-up roofing and flashing/mastic materials	Roofs	Presumed ACM	10,000 SF	In lieu of destructive inspection due to warranty conditions these materials were not sampled. Assumed to be ACM until confirmation sampling can be performed.
Window lintel flashing/mastic and wall/floor slab dump roofing materials	Floors 1 and 2 - Perimeter Walls	Presumed ACM	850 SF	Suspect waterproofing materials may exist concealed. Exterior probes would be necessary to confirm the presence/absence of this material. Assumed to be ACM until confirmation inspection and sampling can be performed.
Waterproofing mastic materials which may exist concealed underlying wall plaster	First and Second Floor Perimeter Walls - Old Building Sections	Presumed ACM	6,500 SF	
Waterproofing mastic materials which may exist concealed underlying concrete floor slab	Ground Floor - Throughout	Presumed ACM	8,700 SF	
Waterproofing vapor barrier materials which may exist concealed on building foundation walls	Building Foundations	Presumed ACM	3,000 SF	
Electrical wire insulation	Throughout	Presumed ACM	3,000 LF	Live electricity prohibited sampling. Assumed to be ACM until confirmation sampling can be performed.
Materials identified to be non-ACM				
Wall plaster	Throughout	Non-ACM	-- --	--
Ceiling plaster	Throughout	Non-ACM	-- --	--
Brick mortar	Throughout	Non-ACM	-- --	--
Mud-pack pipe joint insulation	Throughout	Non-ACM	-- --	--
Various colors baseboard molding and mastic/glue	Throughout	Non-ACM	-- --	--
Pipe insulation (New type)	Throughout	Non-ACM	-- --	--
Sheetrock board	Throughout	Non-ACM	-- --	--
Various ceiling panels	Throughout	Non-ACM	-- --	--
12-inch light green floor tile and glue	Ground Floor - GA 109	Non-ACM	-- --	--
12-inch spackled beige floor tile and glue	Ground Floor - GA 120	Non-ACM	-- --	--
12-inch mottled beige floor tile and mastic	Floor 1 - Women Locker Room	Non-ACM	-- --	--
9-inch stripped tan floor tile	Floor 1 - Rm 1A-103	Non-ACM	-- --	--
Beam/Column plaster	Throughout	Non-ACM	-- --	--
Paper on ceiling deck	Original Building Section - Throughout	Non-ACM	-- --	--
Pipe cover on fiberglass pipe insulation	Scattered Locations - Throughout	Non-ACM	-- --	--
Pipe wrap on fiberglass pipe insulation	Scattered Locations - Throughout	Non-ACM	-- --	--
Table top material (Stone type)	Ground Floor	Non-ACM	-- --	--
Glue associated with duct insulation pins	Ground Floor - Rm 131	Non-ACM	-- --	--
Epoxy floor material and mastic	Ground Floor	Non-ACM	-- --	--

TABLE 1 - SUMMARY OF ASBESTOS SURVEY FINDINGS University Dr. Research Center - Bldg. 6 University Drive C, Pittsburgh, PA				
Material	Location	Inspection Results	Estimated Quantity of ACM or Presumed ACM	Notes/Comments
Door caulking - Grey	Exterior	Non-ACM	-- --	--
Door caulking - Beige	Exterior	Non-ACM	-- --	--
Interior window caulking	Interior - Throughout	Non-ACM	-- --	--
Exterior window caulking	Exterior - Throughout	Non-ACM	-- --	--
Fire stop caulking	Throughout	Non-ACM	-- --	--
Floor coating	Exterior	Non-ACM	-- --	--
Caulking around steel duct seams	Exterior	Non-ACM	-- --	--
Concrete expansion joint caulking	Exterior	Non-ACM	-- --	--
Lintel caulking	Exterior	Non-ACM	-- --	--
Exterior floor-wall joint compound	Exterior	Non-ACM	-- --	--
Louver caulking	Exterior	Non-ACM	-- --	--
Wall expansion joint caulking	Exterior - Throughout	Non-ACM	-- --	--
Mastic on fiberglass duct insulation wrap	Roofs	Non-ACM	-- --	--
Remnants of roof flashing	Floor 1 - Rm 1A-100	Non-ACM	-- --	--

TABLE 2

**SUMMARY OF ASBESTOS
SAMPLE RESULTS**

TABLE 2 - BULK ASBESTOS SAMPLE ANALYSIS RESULTS University Dr. Research Center - Bldg. 6 University Drive C, Pittsburgh, PA				
SAMPLE ID	DESCRIPTION OF HOMOGENEOUS MATERIAL	SAMPLE LOCATION	RESULTS	
			PLM	TEM
WP-1	Wall plaster (2 layers)	Ground Floor - Staircase	L1:ND	--
			L2:ND	--
WP-2	Wall plaster (2 layers)	Floor 1 - Staircase	L1:ND	--
			L2:ND	--
WP-3	Wall plaster (2 layers)	Floor 1 - Staircase	L1:ND	--
			L2:ND	--
WP-4	Wall plaster (2 layers)	Floor 1	L1:ND	--
			L2:ND	--
WP-5	Wall plaster (2 layers)	Floor 2 - Staircase	L1:ND	--
			L2:ND	--
WP-6	Wall plaster (2 layers)	Floor 2	L1:ND	--
			L2:ND	--
WP-7	Wall plaster (2 layers)	Floor 2	L1:ND	--
			L2:ND	--
WP-8	Wall plaster (2 layers)	Floor 1	L1:ND	--
			L2:ND	--
WP-9	Wall plaster (2 layers)	Floor 1	L1:ND	--
			L2:ND	--
BMOR-1-A	Brick mortar	Exterior	ND	--
BMOR-1-B			ND	--
CP-1	Ceiling plaster (2 layers)	Ground Floor - GA-117	L1:ND	--
			L2:ND	--
CP-2	Ceiling plaster (2 layers)	Ground Floor - GA-117	L1:ND	--
			L2:ND	--
CP-3	Ceiling plaster (2 layers)	Ground Floor - GA-117	L1:ND	--
			L2:ND	--
CP-4	Ceiling plaster (2 layers)	Floor 1	L1:ND	--
			L2:ND	--
CP-5	Ceiling plaster (2 layers)	Floor 1	L1:ND	--
			L2:ND	--
BM-1-A	Beam/Column plaster	Floor 1 -1A-106	ND	--
BM-1-B		Floor 1 - Hallway	ND	--
BM-1-C		Floor 1 -1A-100	ND	--
SR-1-A	Sheetrock wall/ceiling board	Ground Floor	ND	--
SR-1-B		Ground Floor	ND	--
MPJ-1-A	Mud-pack pipe joint insulation	Ground Floor	ND	--
MPJ-1-B			ND	--
MPJ-1-C			ND	--
MPJ-1-D			ND	--
MPJ-1-E		Floor 1	ND	--
MPJ-1-F		Floor 2 - Fan Room	ND	--
CPP-1-A	2'x4' ceiling panel with small grooves design paper	Ground Floor - Hallway	ND	--
CPP-1-B			ND	--
CPP-2-A	2'x4' ceiling panel with big grooves	Ground Floor - 117	ND	--
CPP-2-B			ND	--
CPP-3-A	2'x2' ceiling panel with grooves	Ground Floor - 120A	ND	--
CPP-3-B		Ground Floor - 120	ND	--
CPR-1-A	Paper on ceiling deck	Ground Floor - 117	ND	--
CPR-1-B		Hot Water Tank Room	ND	--
PC-1-A	Pipe cover on fiberglass pipe insulation	Ground Floor - Hallway	ND	--
PC-1-B		Floor 1 - A/C Room	ND	--
PW-1-A	Pipe wrap on fiberglass pipe insulation	Ground Floor - Hallway	ND	--
PW-1-B			ND	--
PI-1-A	Pipe insulation	Floor 1 - Rm 1A-100	ND	--
PI-1-B			ND	--

TABLE 2 - BULK ASBESTOS SAMPLE ANALYSIS RESULTS University Dr. Research Center - Bldg. 6 University Drive C, Pittsburgh, PA				
SAMPLE ID	DESCRIPTION OF HOMOGENEOUS MATERIAL	SAMPLE LOCATION	RESULTS	
			PLM	TEM
OPI-1-A	Old-looking pipe insulation	Ground Floor - Pipe Chase Rm 118	CHRY 10.0%	--
OPI-1-B			ASFP	--
RDEB-1-A	Debris inside radiator space	Floor 1 - Rm 1A-100	CHRY 80.0%	--
RDEB-1-B			ASFP	--
DI-1-A	Metal door insulation	Floor 1 - Rm 1A-109	CHRY 40.0%	--
DI-1-B			ASFP	--
TWP-1-A	Transite wall panel	Floor 2 - Rm 2A-108	CHRY 20.0%	--
TWP-1-B		Floor 2 - Rm 2A-109	ASFP	--
TT-1-A	Table top material	Ground Floor - Rm 101	CHRY 16.0%	--
TT-1-B			ASFP	--
TT-2-A	Table top material	Ground Floor - Rm 147	ND	--
TT-2-B		Ground Floor - Rm 1A-112	ND	--
DPG-1-A	Glue associated with duct insulation pins	Ground Floor - Rm 131	ND	--
DPG-1-B		Ground Floor - Rm 101	ND	--
FT-1-A	12-inch light green floor tile and glue	Ground Floor - GA 109	FT: ND	--
			GL: ND	--
FT-1-B		Ground Floor - GA 109	FT: ND	--
			GL: ND	--
FT-2-A	12-inch spackled beige floor tile and glue	Ground Floor - GA 120	FT: ND	--
			GL: ND	--
FT-2-B		Ground Floor - GA 120	FT: ND	--
			GL: ND	--
FT-3-A	9-inch green floor tile and mastic	Ground Floor - GA 111 (under floor material)	FT: CHRY 5.0%	--
			MA: ND	--
FT-3-B		Ground Floor - GA 111 (under floor material)	FT: ASFP	--
			MA: ND	--
FT-4-A	12-inch mottled beige floor tile and mastic	Floor 1 - Women Locker Room	FT: ND	--
			MA: ND	--
FT-4-B		Floor 1 - Women Locker Room	FT: ND	--
			MA: ND	--
FT-5-A	9-inch light brown floor tile and mastic	Floor 1 - Hallway	FT: CHRY 5.0%	--
			MA: ND	--
FT-5-B		Floor 1 - Hallway	FT: ASFP	--
			MA: ND	--
FT-6-A	12-inch light olive green floor tile	Floor 1 - Hallway	CHRY 2.0%	--
FT-6-B		Floor 1 - Hallway	ASFP	--
FT-7-A	9-inch alternative installed grey and beige floor tile and mastic	Floor 1 - Transformer Room	FT: CHRY 5.0%	--
			MA: ND	--
FT-7-B		Floor 1 - Transformer Room	FT: ASFP	--
			MA: ND	--
FT-8-A	9-inch stripped tan floor tile	Floor 1 - Rm 1A-103	ND	--
FT-8-B		Floor 1 - Rm 1A-103	ND	--
FT-9-A	9-inch brown floor tile and mastic	Floor 2 - Near Entrance Door	FT: CHRY 5.0%	--
			MA: ND	--
FT-9-B		Floor 2 - Near Fan Room	FT: ASFP	--
			MA: ND	--
FM-1-A	Epoxy floor material and mastic	Ground Floor - GA 112	FM: ND	--
			MA: ND	--
FM-1-B		Ground Floor - GA 101	FM: ND	--
			MA: ND	--
BBM-1-A	Green baseboard molding and glue	Ground Floor - GA 109	BB: ND	--
			GL: ND	--
BBM-1-B		Ground Floor - GA 109	BB: ND	--
			GL: ND	--

TABLE 2 - BULK ASBESTOS SAMPLE ANALYSIS RESULTS University Dr. Research Center - Bldg. 6 University Drive C, Pittsburgh, PA				
SAMPLE ID	DESCRIPTION OF HOMOGENEOUS MATERIAL	SAMPLE LOCATION	RESULTS	
			PLM	TEM
BBM-2-A	Dark brown baseboard molding and glue	Ground Floor - GA 120	BB: ND	--
BBM-2-B			GL: ND	--
BBM-3-A	Brick red baseboard molding and glue	Ground Floor - GA 112	BB: ND	--
BBM-3-B			GL: ND	--
BBM-4-A	Black baseboard molding and glue	Floor 1 - Hallway	BB: ND	--
BBM-4-B			GL: ND	--
DC-1-A	Door caulking - Grey	Exterior - Floor 1 Entrance Door	ND	--
DC-1-B			ND	--
DC-2-A	Door caulking - Beige	Exterior - Door in the Lab.	ND	--
DC-2-B			ND	--
DC-3-A	Door caulking - Lt. Grey	Exterior - Staircase Door	CHRY 2.0%	--
DC-3-B			ASFP	--
DWC-1-A	Door window caulking	Ground Floor - Rm 145	CHRY 2.0%	--
DWC-1-B		Ground Floor - Hallway	ASFP	--
WC-1-A	Window caulking	Exterior	ND	--
WC-1-B		Exterior	ND	--
IWC-1-A	Interior window caulking	Interior	ND	--
IWC-1-B		Interior	ND	--
FSC-1-A	Fire stop caulking	Ground Floor - GA 131	ND	--
FSC-1-B		Floor 1 - Hallway	ND	--
FLC-1-A	Floor coating	Exterior - Near Stair by the Incinerator	ND	--
FLC-1-B			ND	--
DTC-1-A	Caulking around steel duct seams	Floor 1 - Hallway	ND	--
DTC-1-B		Floor 1 - Rm 1A-114	ND	--
CEJC-1-A	Concrete expansion joint caulking	Exterior	ND	--
CEJC-1-B		Exterior	ND	--
LC-1-A	Lintel caulking	Exterior	ND	--
LC-1-B		Exterior	ND	--
EFWJC-1-A	Exterior floor-wall joint compound	Exterior	ND	--
EFWJC-1-B		Exterior	ND	--
LCA-1-A	Louver caulking	Exterior - Mechanical Room	ND	--
LCA-1-B		Exterior - Mechanical Room	ND	--
EJC-1-A	Wall expansion joint caulking	Exterior	ND	--
EJC-1-B		Exterior	ND	--
DWI-1-A	Mastic on fiberglass duct insulation wrap	Roof - Near Mechanical Room	ND	--
DWI-1-B			ND	--
RRF-1-A	Remnants of roof flashing	Floor 1 - Rm 1A-100	ND	--
RRF-1-B		Floor 1 - Rm 1A-100	ND	--
PI-1-C	Pipe insulation	Floor 1 - Rm 1A-100	ND	--

Notes:

- 1 Concentrations in weight percent.
- 2 ND = "None Detected" – Asbestos not detected in that sample.
- 3 ASFP = Analysis Stopped after First Positive – Other samples in that homogeneous group not analyzed due
- 4 CHRY = Chrysotile Asbestos
- 5 PLM = Polarized Light Microscopy
- 6 TEM = Transmission Electron Microscopy
- 7 FT/MA/GL/BB = Floor tile/ Mastic/Glue/Baseboard
- 8 L1/L2:= Asbestos samples were analyzed by layer.
- 9 A material with asbestos content greater than one percent (>1.0%) is considered as an asbestos-containing

TABLE 3

**LEAD PAINT XRF
SCREENING DATA**

TABLE 3 - LEAD BASED PAINT XRF SCREENING DATA							
University Dr. Research Center - Bldg. 6							
University Drive C, Pittsburgh, PA							
Site Address: VA Pittsburgh Healthcare System			Project Name:	University Dr. Research Center - Bldg. 6		Action Level: 1.0 mg/cm ²	
University Drive C, Pittsburgh, PA			Survey Dates:	9/26/2011		Total Assays Reported: 178	
Survey ID ID#	Component	Substrate	Color	Test Location	Total Lead mg/cm ²	Results	Comments
1	Shutter Calibration				N/A		
2	Calibration				1		
3	Calibration				1		
4	Ceiling	Plaster	White	Ground Floor	0.02	Negative	
5	Ceiling	Concrete	White	Ground Floor	0.01	Negative	
6	Wall	Cinder Block	Green	Ground Floor	0.08	Negative	
7	Door	Wood	Green	Ground Floor	0.02	Negative	
8	Door Frame	Metal	Beige	Ground Floor	0.12	Negative	
9	Door Lintel	Metal	Green	Ground Floor	3.2	Positive	
10	Wall	Brick	Light Green	Ground Floor	0.01	Negative	
11	Wall	Brick	Beige	Ground Floor	0.07	Negative	
12	Wall	Cinder Block	Beige	Ground Floor	0	Negative	
13	Wall	Cinder Block	Beige	Ground Floor	0.1	Negative	
14	Wall	Brick	Beige	Ground Floor	0.02	Negative	
15	Door	Metal	Tan	Ground Floor	0	Negative	
16	Door Frame	Metal	Tan	Ground Floor	0	Negative	
17	Ceiling	Metal	Beige	Ground Floor	0	Negative	
18	Hatch Door	Sheetrock	Beige	Ground Floor	0	Negative	
19	Cabinet	Metal	Beige	Ground Floor	0	Negative	
20	Register	Metal	Beige	Ground Floor	< LOD	Negative	
21	Cabinet	Metal	White	Ground Floor	0	Negative	
22	Wall	Sheetrock	Blue	Ground Floor	0	Negative	
23	Wall	Sheetrock	Blue	Ground Floor	0.01	Negative	
24	Door	Metal	Tan	Ground Floor	0	Negative	
25	Door Frame	Metal	Tan	Ground Floor	0.02	Negative	
26	Wall	Cinder Block	Beige	Ground Floor	0.13	Negative	
27	Wall	Cinder Block	Beige	Ground Floor	0.03	Negative	
28	Wall	Cinder Block	Beige	Ground Floor	0.01	Negative	
29	Ladder	Metal	Gray	Ground Floor	2.5	Positive	
30	Door Frame	Metal	Gray	Ground Floor	0	Negative	
31	Ceiling	Sheetrock	Beige	Ground Floor	0.02	Negative	
32	Wall	Cinder Block	Beige	Ground Floor	0.06	Negative	
33	Door	Metal	Tan	Ground Floor	0.01	Negative	
34	Door Frame	Metal	Tan	Ground Floor	0	Negative	
35	Wall	Brick	Beige	Ground Floor	0.01	Negative	
36	Ceiling	Sheetrock	Beige	Ground Floor	0	Negative	
37	Wall	Cinder Block	Beige	Ground Floor	0.01	Negative	
38	Register	Metal	Beige	Ground Floor	0	Negative	
39	Pipe	Metal	Beige	Ground Floor	0.09	Negative	
40	Ceiling	Plaster	Light Green	Ground Floor	0.16	Negative	
41	Hatch Door	Metal	Beige	Ground Floor	0	Negative	
42	Wall	Cinder Block	Beige	Ground Floor	0.05	Negative	
43	Wall	Cinder Block	Beige	Ground Floor	0.02	Negative	
44	Door	Metal	Tan	Ground Floor	0	Negative	
45	Door Frame	Metal	Tan	Ground Floor	0.01	Negative	
46	Ceiling	Concrete	White	Ground Floor	0	Negative	
47	Wall	Cinder Block	White	Ground Floor	0	Negative	
48	Beam	Metal	White	Ground Floor	5.3	Positive	
49	Beam	Metal	Beige	Ground Floor	5.5	Positive	
50	Wall	Brick	Beige	Ground Floor	0.02	Negative	
51	Floor	Concrete	Tan	Ground Floor	0	Negative	
52	Floor	Concrete	Tan	Ground Floor	0	Negative	
53	Wall	Cinder Block	Beige	Ground Floor	0	Negative	
54	Ceiling	Metal	Beige	Ground Floor	0	Negative	
55	Door	Metal	Coffee	Ground Floor	0	Negative	
56	Door Frame	Metal	Coffee	Ground Floor	0	Negative	
57	Door	Metal	Tan	Ground Floor	0	Negative	
58	Door Frame	Metal	Tan	Ground Floor	0	Negative	
59	Door	Metal	Tan	Ground Floor	0	Negative	
60	Door Frame	Metal	Tan	Ground Floor	0	Negative	
61	Door	Metal	Tan	Ground Floor	0	Negative	

TABLE 3 - LEAD BASED PAINT XRF SCREENING DATA University Dr. Research Center - Bldg. 6 University Drive C, Pittsburgh, PA							
Site Address: VA Pittsburgh Healthcare System University Drive C, Pittsburgh, PA			Project Name:	University Dr. Research Center - Bldg. 6		Action Level: 1.0 mg/cm ²	
			Survey Dates:	9/26/2011		Total Assays Reported: 178	
Survey ID ID#	Component	Substrate	Color	Test Location	Total Lead mg/cm ²	Results	Comments
62	Door Frame	Metal	Tan	Ground Floor	0.01	Negative	
63	Wall	Cinder Block	Beige	Ground Floor	0	Negative	
64	Ceiling	Sheetrock	Beige	Ground Floor	0.01	Negative	
65	Wall	Cinder Block	Beige	Ground Floor	0	Negative	
66	Ceiling	Sheetrock	Beige	Ground Floor	0	Negative	
67	Hatch Door	Metal	Beige	Ground Floor	0	Negative	
68	Pipe	Metal	Beige	Ground Floor	0	Negative	
69	Floor	Concrete	Tan	Ground Floor	0	Negative	
70	Wall	Cinder Block	Beige	Ground Floor	0	Negative	
71	Wall	Cinder Block	Beige	Ground Floor	0	Negative	
72	Column	Metal	Beige	Ground Floor	11	Positive	
73	Column	Metal	Beige	Ground Floor	10.1	Positive	
74	Column	Metal	Beige	Ground Floor	17.3	Positive	
75	Wall	Cinder Block	Beige	Ground Floor	0	Negative	
76	Ceiling	Sheetrock	Beige	Ground Floor	0	Negative	
77	Wall	Cinder Block	Beige	Ground Floor	0.01	Negative	
78	Wall	Cinder Block	Beige	Ground Floor	0	Negative	
79	Wall	Cinder Block	Beige	Ground Floor	0	Negative	
80	Wall	Cinder Block	Beige	Ground Floor	0.01	Negative	
81	Wall	Cinder Block	Beige	Ground Floor	0	Negative	
82	Wall	Sheetrock	Beige	Ground Floor	0.01	Negative	
83	Wall	Cinder Block	Beige	Ground Floor	0	Negative	
84	Wall	Cinder Block	Beige	Ground Floor	0	Negative	
85	Ceiling	Sheetrock	White	Ground Floor	0	Negative	
86	Wall	Cinder Block	Beige	Ground Floor	0	Negative	
87	Wall	Cinder Block	Beige	Ground Floor	0	Negative	
88	Wall	Cinder Block	Beige	Ground Floor	0	Negative	
89	Door	Metal	Tan	Ground Floor	0	Negative	
90	Door Frame	Metal	Tan	Ground Floor	0.01	Negative	
91	Wall	Cinder Block	Beige	Ground Floor	0	Negative	
92	Floor	Concrete	Tan	Ground Floor	0	Negative	
93	Floor	Concrete	Tan	Ground Floor	0	Negative	
94	Wall	Plaster	White	Ground Floor	0.12	Negative	
95	Wall	Plaster	White	Ground Floor	0.21	Negative	
96	Wall	Plaster	White	Ground Floor	< LOD	Negative	
97	Handrail	Metal	Coffee	Ground Floor	4.9	Positive	
98	Stair	Metal	Coffee	Ground Floor	2.9	Positive	
99	Ceiling	Plaster	White	Ground Floor	0.29	Negative	
100	Ceiling	Concrete	Beige	Ground Floor	0.01	Negative	
101	Pipe	Metal	Red	1st Floor	0	Negative	
102	Wall	Plaster	White	1st Floor	0.25	Negative	
103	Ceiling	Plaster	White	1st Floor	0.07	Negative	
104	Stairpost	Metal	Coffee	1st Floor	2.8	Positive	
105	Wall	Plaster	Light Green	1st Floor	0.06	Negative	
106	Wall	Cinder Block	Light Green	1st Floor	0.05	Negative	
107	Door	Metal	Tan	1st Floor	0.01	Negative	
108	Door Frame	Metal	Light Green	1st Floor	0.04	Negative	
109	Door	Metal	Tan	1st Floor	< LOD	Negative	
110	Door Frame	Metal	White	1st Floor	0.15	Negative	
111	Ceiling	Plaster	Light Green	1st Floor	0.01	Negative	
112	Radiator Cover	Metal	White	1st Floor	0.1	Negative	
113	Radiator Cover	Metal	White	1st Floor	0.18	Negative	
114	Ceiling	Plaster	White	1st Floor	0.25	Negative	
115	Wall	Plaster	White	1st Floor	0.4	Negative	
116	Wall	Plaster	White	1st Floor	0.5	Negative	
117	Window Frame	Metal	Coffee	1st Floor	0	Negative	
118	Window Sash	Metal	Coffee	1st Floor	0	Negative	
119	Wall	Plaster	White	1st Floor	0.3	Negative	
120	Wall	Plaster	White	1st Floor	0.18	Negative	
121	Ceiling	Plaster	White	1st Floor	0	Negative	
122	Wall	Plaster	White	1st Floor	0.18	Negative	

TABLE 3 - LEAD BASED PAINT XRF SCREENING DATA							
University Dr. Research Center - Bldg. 6							
University Drive C, Pittsburgh, PA							
Site Address: VA Pittsburgh Healthcare System			Project Name:	University Dr. Research Center - Bldg. 6		Action Level: 1.0 mg/cm ²	
University Drive C, Pittsburgh, PA			Survey Dates:	9/26/2011		Total Assays Reported: 178	
Survey ID ID#	Component	Substrate	Color	Test Location	Total Lead mg/cm ²	Results	Comments
123	Wall	Plaster	White	1st Floor	0.25	Negative	
124	Wall	Plaster	White	1st Floor	0.06	Negative	
125	Ceiling	Plaster	White	1st Floor	0.01	Negative	
126	Wall	Plaster	White	1st Floor	0.28	Negative	
127	Wall	Plaster	White	1st Floor	0.1	Negative	
128	Wall	Plaster	White	1st Floor	0.3	Negative	
129	Stair	Metal	Coffee	1st Floor	1.9	Positive	
130	Stairpost	Metal	Coffee	1st Floor	3.8	Positive	
131	Ceiling	Plaster	Beige	1st Floor	0	Negative	
132	Ceiling	Plaster	Beige	1st Floor	0	Negative	
133	Door	Metal	Gray	1st Floor	0.01	Negative	
134	Door Frame	Metal	Tan	1st Floor	0	Negative	
135	Pipe	Metal	Red	1st Floor	0	Negative	
136	Wall	Cinder Block	White	1st Floor	0.09	Negative	
137	Wall	Cinder Block	White	1st Floor	0.04	Negative	
138	Wall	Cinder Block	White	1st Floor	0.01	Negative	
139	Ceiling	Plaster	White	1st Floor	0.02	Negative	
140	Ceiling	Plaster	White	1st Floor	0	Negative	
141	Ceiling	Plaster	White	1st Floor	0	Negative	
142	Wall	Plaster	White	2nd Floor	0.15	Negative	
143	Wall	Plaster	White	2nd Floor	0.22	Negative	
144	Ceiling	Plaster	White	2nd Floor	0.3	Negative	
145	Window Frame	Metal	Coffee	2nd Floor	0	Negative	
146	Window Sash	Metal	Coffee	2nd Floor	0	Negative	
147	Wall	Transite	White	2nd Floor	0.15	Negative	
148	Wall	Cinder Block	White	2nd Floor	0.16	Negative	
149	Wall	Cinder Block	Beige	2nd Floor	0.16	Negative	
150	Ceiling	Metal	White	2nd Floor	0.03	Negative	
151	Wall	Cinder Block	White	2nd Floor	0.03	Negative	
152	Ceiling	Metal	White	2nd Floor	0.01	Negative	
153	Wall	Cinder Block	White	2nd Floor	0.7	Negative	
154	Ceiling	Plaster	White	2nd Floor	0	Negative	
155	Wall	Cinder Block	White	2nd Floor	0.01	Negative	
156	Duct	Metal	White	2nd Floor	0.4	Negative	
157	Duct	Metal	White	2nd Floor	0.9	Negative	
158	Door Frame	Metal	White	2nd Floor	0.03	Negative	
159	Wall	Cinder Block	White	2nd Floor	0.02	Negative	
160	Ceiling	Plaster	White	2nd Floor	0.02	Negative	
161	Wall	Cinder Block	White	2nd Floor	0.04	Negative	
162	Wall	Cinder Block	White	2nd Floor	0.07	Negative	
163	Wall	Cinder Block	White	2nd Floor	0.04	Negative	
164	Wall	Plaster	White	2nd Floor	0.01	Negative	
165	Wall	Plaster	White	2nd Floor	0.07	Negative	
166	Wall	Plaster	White	2nd Floor	0.03	Negative	
167	Wall	Plaster	White	2nd Floor	0.1	Negative	
168	Wall	Plaster	White	2nd Floor	0.09	Negative	
169	Ceiling	Plaster	White	2nd Floor	0.07	Negative	
170	Ceiling	Plaster	White	2nd Floor	0	Negative	
171	Ceiling	Plaster	White	2nd Floor	0.11	Negative	
172	Ceiling	Plaster	White	2nd Floor	0	Negative	
173	Ceiling	Plaster	White	2nd Floor	0	Negative	
174	Ceiling	Plaster	White	2nd Floor	0.01	Negative	
175	Wall	Plaster	White	2nd Floor	0	Negative	
176	Window Lintel	Metal	Coffee	2nd Floor	2.7	Positive	
177	Window Lintel	Metal	Coffee	2nd Floor	4.6	Positive	
178	Window Lintel	Metal	Coffee	2nd Floor	7.7	Positive	
179	Window Lintel	Metal	Coffee	2nd Floor	5.6	Positive	
180	Door Lintel	Metal	Brick Red	2nd Floor	0	Negative	
181	Door Lintel	Metal	Coffee	2nd Floor	7.5	Positive	
182	Calibration				1		
183	Calibration				1		

TABLE 3 - LEAD BASED PAINT XRF SCREENING DATA							
University Dr. Research Center - Bldg. 6							
University Drive C, Pittsburgh, PA							
Site Address: VA Pittsburgh Healthcare System			Project Name:	University Dr. Research Center - Bldg. 6		Action Level: 1.0 mg/cm ²	
University Drive C, Pittsburgh, PA			Survey Dates:	9/26/2011		Total Assays Reported: 178	
Survey ID ID#	Component	Substrate	Color	Test Location	Total Lead mg/cm ²	Results	Comments

NEG	= Negative Lead Result
POS	= Positive Lead Result

DAILY CALIBRATIONS

Date 9/26/2011 Pre-Calibration Average: Post-Calibration Average:

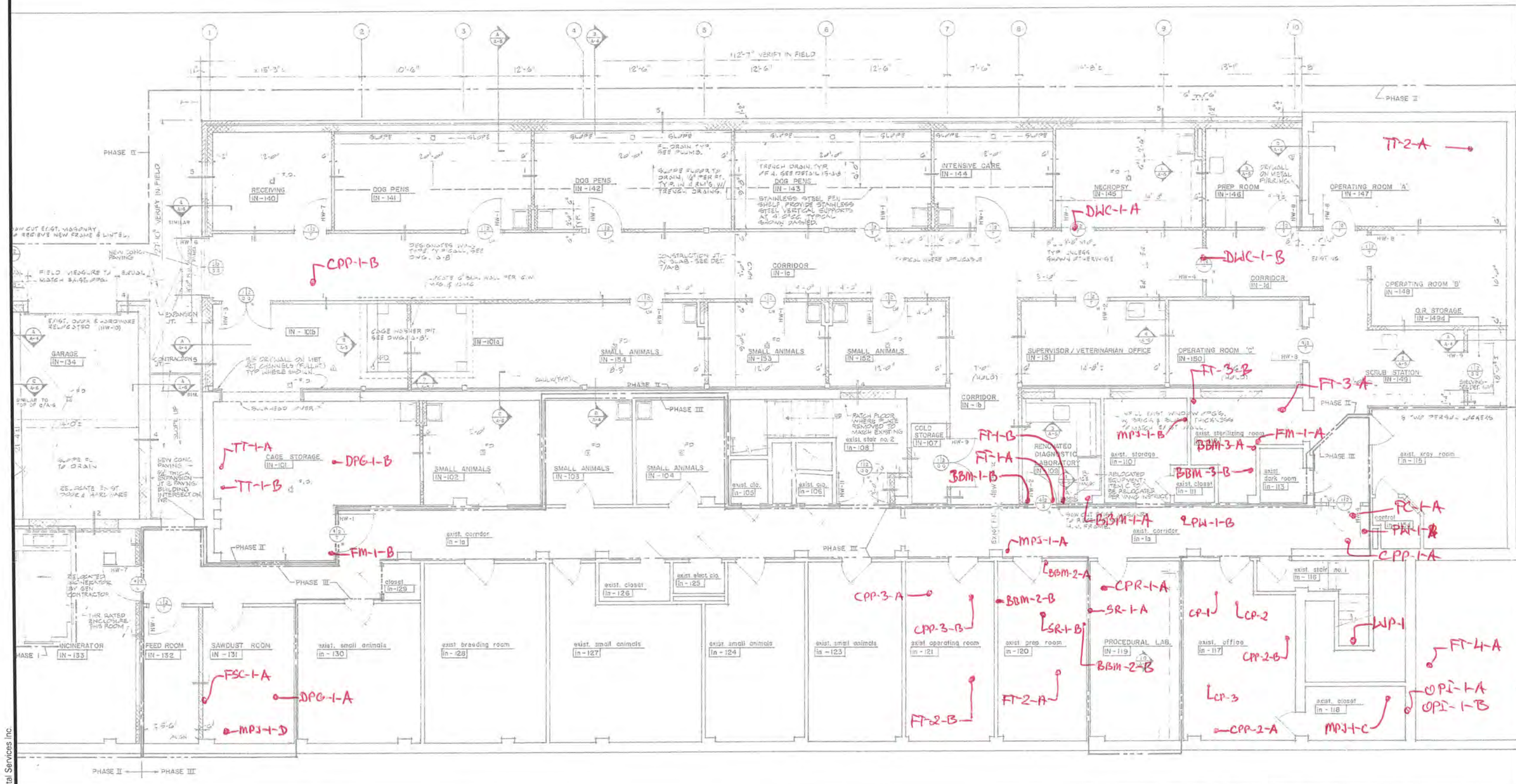
<u>Calibration Check</u>	<u>Calibration Check</u>
Good	Good

TABLE 4

SUMMARY OF UNIVERSAL WASTE

TABLE 4 - UNIVERSAL WASTE University Dr. Research Center - Bldg. 6 University Drive C, Pittsburgh, PA	
MISCELLANEOUS MATERIALS	APPROXIMATE QUANTITY
Florescent light ballasts	300
Florescent light bulbs (4 inches to 8 feet)	600
Mercury vapor containing bulbs (HID Lamps)	17
Transformer	1
Wall-mounted electronic devices (i.e. strobe lights, detectors, switches, speakers, etc.)	250
Air conditioning units which may contain CFC's	10
Refrigerators	21
Smoke detectors	4
Fire extinguisher	12
Exit signs	13
Regular bulbs/Halogens	11
Microwave Oven	4

DRAWINGS



LEGEND:
 — FT-2-A ASBESTOS SAMPLING LOCATIONS

GROUND FLOOR

LANGAN
 ENGINEERING & ENVIRONMENTAL SERVICES

River Drive Center 1 Elmwood Park, NJ 07407
 P: 201.794.6900 F: 201.794.0366
 www.langan.com

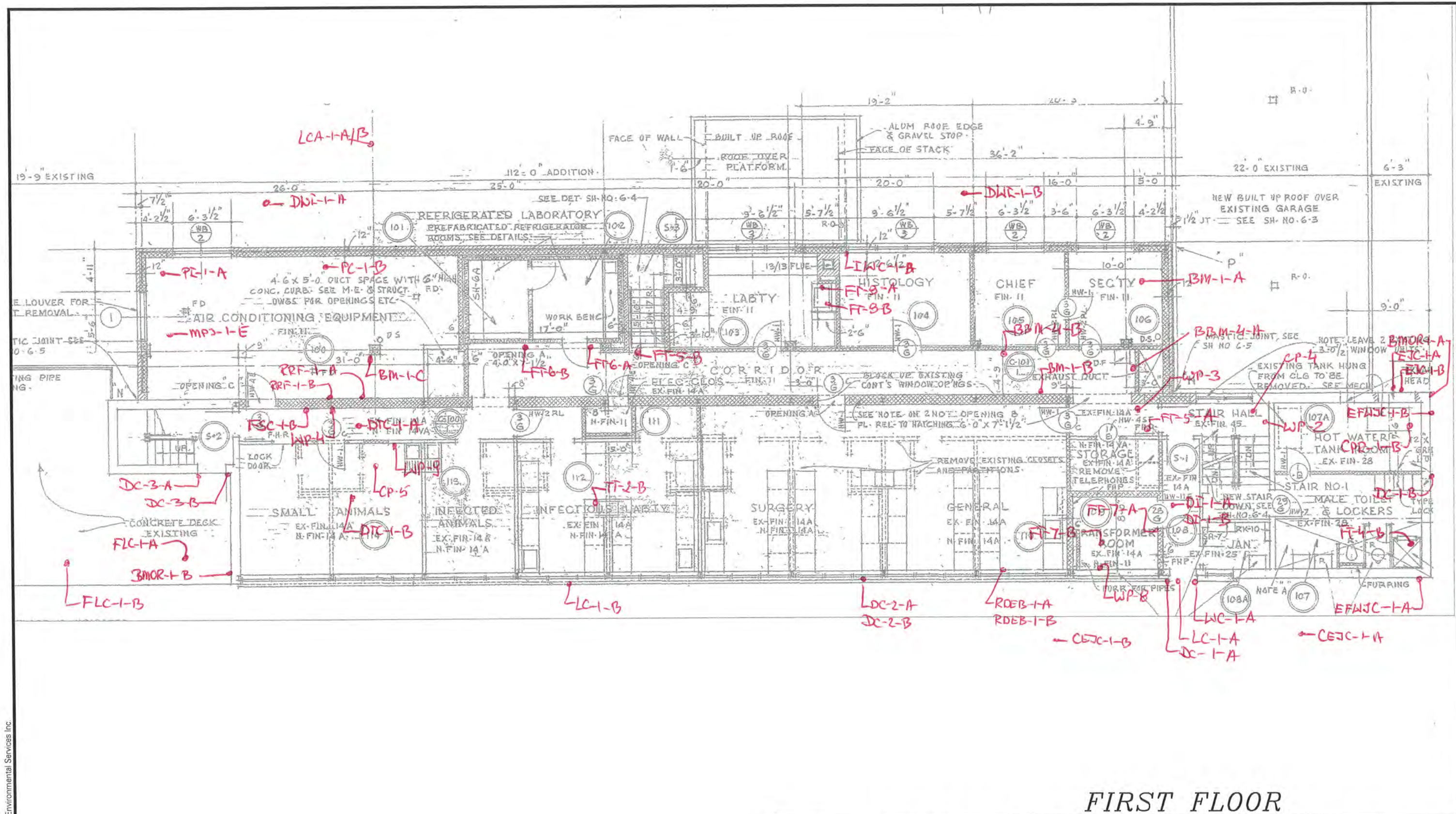
NEW JERSEY PENNSYLVANIA NEW YORK CONNECTICUT FLORIDA NEVADA VIRGINIA CALIFORNIA
 NJ Certificate of Authorization No: 24GA27996400

Project
University Dr. Research Center - Bldg. 6

ASBESTOS SAMPLING LOCATIONS

PITTSBURGH PENNSYLVANIA

Project No. 250013701	Date 10/6/2011	Scale NTS	Dwg. No. AS-1
--------------------------	-------------------	--------------	------------------

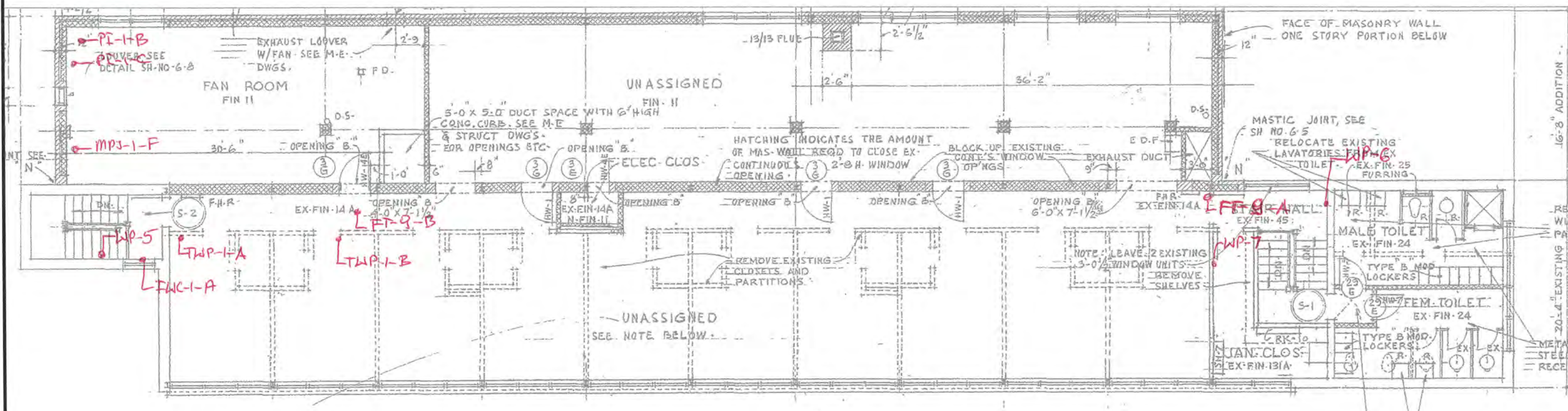


FIRST FLOOR

LEGEND:
 —●— TT-2-A ASBESTOS SAMPLING LOCATIONS

LANGAN
 ENGINEERING & ENVIRONMENTAL SERVICES
 River Drive Center 1 Elmwood Park, NJ 07407
 P: 201.794.6900 F: 201.794.0366
 www.langan.com
 NEW JERSEY PENNSYLVANIA NEW YORK CONNECTICUT FLORIDA NEVADA VIRGINIA CALIFORNIA
 NJ Certificate of Authorization No: 24GA27996400

Project University Dr. Research Center - Bldg. 6			
ASBESTOS SAMPLING LOCATIONS			
PITTSBURGH		PENNSYLVANIA	
Project No. 250013701	Date 10/6/2011	Scale NTS	Dwg. No. AS- 2



LEGEND:
● LWP-1-A ASBESTOS SAMPLING LOCATIONS



River Drive Center 1 Elmwood Park, NJ 07407
P: 201.794.6900 F: 201.794.0366
www.langan.com

NEW JERSEY PENNSYLVANIA NEW YORK CONNECTICUT FLORIDA NEVADA VIRGINIA CALIFORNIA

NJ Certificate of Authorization No: 24GA27996400

SECOND FLOOR

Project
University Dr. Research Center - Bldg. 6

ASBESTOS SAMPLING LOCATIONS

PITTSBURGH

PENNSYLVANIA

Project No.
250013701

Date
10/6/2011

Scale
NTS

Dwg. No.
AS-3

A P P E N D I X A

LABORATORY TEST RESULTS AND CHAIN OF CUSTODY DOCUMENTATION



Please Reply To:

AmeriSci New York

117 EAST 30TH ST.
NEW YORK, NY 10016
TEL: (212) 679-8600 • FAX: (212) 679-3114

FACSIMILE TELECOPY TRANSMISSION

To: Vijay Patel	From: Madell E. Collins
Langan Engineering & Environmental Services	AmeriSci Job #: 211094753
Fax #: (201) 794-7501	Subject: PLM 3 day Results
	Client Project: 250013701; University Dr.
	Research Center; Bldg. 6 -
	University Drive C
Email: vpatel@langan.com,spatel@langan.com	

Date: Tuesday, October 04, 2011

Time: 05:27:32

Comments:

Number of Pages:

39
(including cover sheet)

CONFIDENTIALITY NOTICE: Unless otherwise indicated, the information contained in this communication is confidential information intended for use of the individual named above. If the reader of this communication is not the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is prohibited. If you have received this communication in error, please immediately notify the sender by telephone and return the original message to the above address via the US Postal Service at our expense. Preliminary data reported here will be verified before final report is issued. Samples are disposed of in 60 days or unless otherwise instructed by the protocol or special instructions in writing. Thank you.

Certified Analysis Service 24 Hours A Day • 7 Days A Week Competitive Prices
visit our web site - www.amerisci.com

Boston • Los Angeles • New York • Richmond

**AmeriSci New York**117 EAST 30TH ST.
NEW YORK, NY 10016

TEL: (212) 679-8600 • FAX: (212) 679-3114

PLM Bulk Asbestos ReportLangan Engineering & Environmental S
Attn: Vijay Patel
River Drive Center 1

Elmwood Park, NJ 07407**Date Received** 09/29/11
Date Examined 10/03/11**AmeriSci Job #** 211094753**P.O. #****Page** 1 **of** 26**RE:** 250013701; University Dr. Research Center; Bldg. 6 -
University Drive C

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WP-1 1	211094753-01.1 Location: Wall Plaster (2 Layers) - Ground Floor Stair Landing - Skim Coat	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
WP-1 1	211094753-01.2 Location: Wall Plaster (2 Layers) - Ground Floor Stair Landing - Base Coat	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
WP-2 1	211094753-02.1 Location: Wall Plaster (2 Layers) - 1st Floor Stair - Skim Coat	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
WP-2 1	211094753-02.2 Location: Wall Plaster (2 Layers) - 1st Floor Stair - Base Coat	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: White, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
WP-3 1	211094753-03 Location: Wall Plaster (2 Layers) - 1st Floor Near Main Ent.	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 % Comment: Only one layer Present			

Client Name: Langan Engineering & Environmental Services

PLM Bulk Asbestos Report250013701; University Dr. Research Center; Bldg. 6 -
University Drive C

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WP-4 1	211094753-04.1 Location: Wall Plaster (2 Layers) - 1st Floor - Skim Coat	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
WP-4 1	211094753-04.2 Location: Wall Plaster (2 Layers) - 1st Floor - Base Coat	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
WP-5 1	211094753-05.1 Location: Wall Plaster (2 Layers) - 2nd Floor Stair - Skim Coat	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
WP-5 1	211094753-05.2 Location: Wall Plaster (2 Layers) - 2nd Floor Stair - Base Coat	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
WP-6 1	211094753-06.1 Location: Wall Plaster (2 Layers) - 2nd Floor - Skim Coat	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
WP-6 1	211094753-06.2 Location: Wall Plaster (2 Layers) - 2nd Floor - Base Coat	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			

Client Name: Langan Engineering & Environmental Services

PLM Bulk Asbestos Report250013701; University Dr. Research Center; Bldg. 6 -
University Drive C

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WP-7 1	211094753-07.1 Location: Wall Plaster (2 Layers) - 2nd Floor - Skim Coat	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
WP-7 1	211094753-07.2 Location: Wall Plaster (2 Layers) - 2nd Floor - Base Coat	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
WP-8 1	211094753-08.1 Location: Wall Plaster (2 Layers) - 1st Floor - Skim Coat	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
WP-8 1	211094753-08.2 Location: Wall Plaster (2 Layers) - 1st Floor - Base Coat	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
WP-9 1	211094753-09.1 Location: Wall Plaster (2 Layers) - 1st Floor - Skim Coat	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
WP-9 1	211094753-09.2 Location: Wall Plaster (2 Layers) - 1st Floor - Base Coat	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			

Client Name: Langan Engineering & Environmental Services

PLM Bulk Asbestos Report250013701; University Dr. Research Center; Bldg. 6 -
University Drive C

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
BMOR-1-A 2	211094753-10 Location: Mortar Attached With Bricks - Exterior	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
BMOR-1-B 2	211094753-11 Location: Mortar Attached With Bricks - Exterior	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
CP-1 3	211094753-12 Location: Ceiling Plaster - Ground Floor GA-117	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey/Gold, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			
CP-2 3	211094753-13 Location: Ceiling Plaster - Ground Floor GA-117	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey/Gold, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			
CP-3 3	211094753-14 Location: Ceiling Plaster - Ground Floor GA-127	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey/Gold, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose Trace, Non-fibrous 100 %			
CP-4 3	211094753-15.1 Location: Ceiling Plaster (2 Layers) - 1st Floor - Skim Coat	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			

Client Name: Langan Engineering & Environmental Services

PLM Bulk Asbestos Report250013701; University Dr. Research Center; Bldg. 6 -
University Drive C

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
CP-4 3	211094753-15.2 Location: Ceiling Plaster (2 Layers) - 1st Floor - Base Coat	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
CP-5 3	211094753-16.1 Location: Ceiling Plaster (2 Layers) - 2nd Floor - Skim Coat	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
CP-5 3	211094753-16.2 Location: Ceiling Plaster (2 Layers) - 2nd Floor - Base Coat	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
BM-1-A 4	211094753-17 Location: Beam/Column Plaster - 1st Fl. - 1A-106	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey/White, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Fibrous glass 25 %, Non-fibrous 75 %			
BM-1-B 4	211094753-18 Location: Beam/Column Plaster - 1st Fl. - Hallway	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey/White, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Fibrous glass 25 %, Non-fibrous 75 %			
BM-1-C 4	211094753-19 Location: Beam/Column Plaster - 1st Fl. 1A-100	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			

Client Name: Langan Engineering & Environmental Services

PLM Bulk Asbestos Report250013701; University Dr. Research Center; Bldg. 6 -
University Drive C

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
SR-1-A 5	211094753-20 Location: Sheetrock Wall/Ceiling Board - Ground Floor	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Tan/Brown, Heterogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 5 %, Fibrous glass Trace, Non-fibrous 95 %			
SR-1-B 5	211094753-21 Location: Sheetrock Wall/Ceiling Board - Ground Floor	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Tan/Brown, Heterogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 60 %, Fibrous glass Trace, Non-fibrous 40 %			
MPJ-1-A 6	211094753-22 Location: Mud Pack Pipe Joints Attached With Fiberglass Pipe Insulation - Ground Floor	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Fibrous glass 25 %, Non-fibrous 75 %			
MPJ-1-B 6	211094753-23 Location: Mud Pack Pipe Joints Attached With Fiberglass Pipe Insulation - Ground Floor	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 5 %, Fibrous glass 35 %, Non-fibrous 60 %			
MPJ-1-C 6	211094753-24 Location: Mud Pack Pipe Joints Attached With Fiberglass Pipe Insulation - Ground Floor	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Fibrous glass 35 %, Non-fibrous 65 %			
MPJ-1-D 6	211094753-25 Location: Mud Pack Pipe Joints Attached With Fiberglass Pipe Insulation - Ground Floor	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Fibrous glass 15 %, Non-fibrous 85 %			

Client Name: Langan Engineering & Environmental Services

PLM Bulk Asbestos Report250013701; University Dr. Research Center; Bldg. 6 -
University Drive C

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
MPJ-1-E 6	211094753-26 Location: Mud Pack Pipe Joints Attached With Fiberglass Pipe Insulation - 1st Floor	Yes	Trace (<1 %) (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material Asbestos Types: Chrysotile <1. % Other Material: Fibrous glass 30 %, Non-fibrous 70 %			
MPJ-1-F 6	211094753-27 Location: Mud Pack Pipe Joints Attached With Fiberglass Pipe Insulation - Fan Room On 2nd Floor	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 1 %, Fibrous glass 35 %, Non-fibrous 64 %			
CPP-1-A 7	211094753-28 Location: 2' x 4' Ceiling Panels With Small Grooves Design Paper - Ground Floor Hallway	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey/White, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 40 %, Fibrous glass 40 %, Non-fibrous 20 %			
CPP-1-B 7	211094753-29 Location: 2' x 4' Ceiling Panels With Small Grooves Design Paper - Ground Floor Hallway	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey/White, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 40 %, Fibrous glass 40 %, Non-fibrous 20 %			
CPP-2-A 8	211094753-30 Location: 2' x 4' With Big Grooves Ceiling Panels - Ground Floor 117	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey/Tan/White, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 50 %, Fibrous glass 30 %, Non-fibrous 20 %			
CPP-2-B 8	211094753-31 Location: 2' x 4' With Big Grooves Ceiling Panels - Ground Floor 117	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey/Tan/White, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 50 %, Fibrous glass 30 %, Non-fibrous 20 %			

Client Name: Langan Engineering & Environmental Services

PLM Bulk Asbestos Report250013701; University Dr. Research Center; Bldg. 6 -
University Drive C

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
CPP-3-A 9	211094753-32 Location: 2' x 2' With Grooves Ceiling Panels - Ground Floor 120A	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Tan, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 50 %, Fibrous glass 35 %, Non-fibrous 15 %			
CPP-3-B 9	211094753-33 Location: 2' x 2' With Grooves Ceiling Panels - Ground Floor 120	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Tan, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 50 %, Fibrous glass 35 %, Non-fibrous 15 %			
CPR-1-A 10	211094753-34 Location: Paper On Ceiling Deck - Ground Care Taker Fl. Office 117	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Tan/Black, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 100 %			
CPR-1-B 10	211094753-35 Location: Paper On Ceiling Deck - Hot Water Tank Room	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Tan/Black, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 100 %			
PC-1-A 11	211094753-36 Location: Pipe Cover On Fiberglass Pipe Insulation - Ground Floor Hallway	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: OffWhite, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 100 %			
PC-1-B 11	211094753-37 Location: Pipe Cover On Fiberglass Pipe Insulation - 1st Floor A/C Equipment Rm.	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: OffWhite, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 100 %			

Client Name: Langan Engineering & Environmental Services

PLM Bulk Asbestos Report250013701; University Dr. Research Center; Bldg. 6 -
University Drive C

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
PW-1-A 12	211094753-38 Location: Pipe Cover On Fiberglass Pipe Insulation - Ground Floor Hallway	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Silver/Tan/Black, Heterogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 60 %, Non-fibrous 40 %			
PW-1-B 12	211094753-39 Location: Pipe Cover On Fiberglass Pipe Insulation - Ground Floor Hallway	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Silver/Tan/Black, Heterogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 60 %, Non-fibrous 40 %			
PI-1-A 13	211094753-40 Location: Pipe Insulation - 1st Fl. Rm. 1A-100 Near Window	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 50 %, Fibrous glass 40 %, Non-fibrous 10 %			
PI-1-B 13	211094753-41 Location: Pipe Insulation - 1st Fl. Rm. 1A-100 Near Window	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 50 %, Fibrous glass 40 %, Non-fibrous 10 %			
OPI-1-A 14	211094753-42 Location: Old Leaking Pipe Insulation - Ground Fl. Wall Chase In Rm. 118	Yes	10 % (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material Asbestos Types: Chrysotile 10.0 % Other Material: Cellulose 80 %, Non-fibrous 10 %			
OPI-1-B 14	211094753-43 Location: Old Leaking Pipe Insulation - Ground Fl. Wall Chase In Rm. 118		NA/PS
Analyst Description: Bulk Material Asbestos Types: Other Material:			

Client Name: Langan Engineering & Environmental Services

PLM Bulk Asbestos Report250013701; University Dr. Research Center; Bldg. 6 -
University Drive C

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
RDEB-1-A 15	211094753-44 Location: Debris Inside The Radiator - 1st Floor Room 1A-110	Yes	80 % (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material Asbestos Types: Chrysotile 80.0 % Other Material: Non-fibrous 20 %			
RDEB-1-B 15	211094753-45 Location: Debris Inside The Radiator - 1st Floor Room 1A-110		NA/PS
Analyst Description: Bulk Material Asbestos Types: Other Material:			
DI-1-A 16	211094753-46 Location: Metal Door Insulation - 1st Floor Room 1A-109	Yes	40 % (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material Asbestos Types: Chrysotile 40.0 % Other Material: Animal hair Trace, Cellulose 50 %, Non-fibrous 10 %			
DI-1-B 16	211094753-47 Location: Metal Door Insulation - 1st Floor Room 1A-109		NA/PS
Analyst Description: Bulk Material Asbestos Types: Other Material:			
TWP-1-A 17	211094753-48 Location: Transite Wall Panels - 2nd Fl. 2A-108	Yes	20 % (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey/White, Homogeneous, Fibrous, Bulk Material Asbestos Types: Chrysotile 20.0 % Other Material: Non-fibrous 80 %			
TWP-1-B 17	211094753-49 Location: Transite Wall Panels - 2nd Fl. 2A-109		NA/PS
Analyst Description: Bulk Material Asbestos Types: Other Material:			

Client Name: Langan Engineering & Environmental Services

PLM Bulk Asbestos Report250013701; University Dr. Research Center; Bldg. 6 -
University Drive C

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
TT-1-A 18	211094753-50 Location: Table Top Material - Ground Floor Rm. 101	Yes	16 % (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Black, Homogeneous, Fibrous, Bulk Material Asbestos Types: Chrysotile 16.0 % Other Material: Non-fibrous 84 %			
TT-1-B 18	211094753-51 Location: Table Top Material - Ground Floor Rm. 101		NAD/PS
Analyst Description: Bulk Material Asbestos Types: Other Material:			
TT-2-A 19	211094753-52 Location: Laboratory Table Top - Ground Floor Rm. 147	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
TT-2-B 19	211094753-53 Location: Laboratory Table Top - 1st Floor Room 1A-112	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
DPG-1-A 20	211094753-54 Location: Glue Attached With Duct Insulation Pins - Ground Floor Rm. 101	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
DPG-1-B 20	211094753-55 Location: Glue Attached With Duct Insulation Pins - Ground Floor Rm. 101	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			

Client Name: Langan Engineering & Environmental Services

PLM Bulk Asbestos Report250013701; University Dr. Research Center; Bldg. 6 -
University Drive C

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
FT-1-A 21	211094753-56L1 Location: 12" sq. Lt. Green Floor Tiles & Glue - Ground Floor GA 109 - Floor Tile	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Green, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
FT-1-A 21	211094753-56L2 Location: 12" sq. Lt. Green Floor Tiles & Glue - Ground Floor GA 109 - Glue	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
FT-1-B 21	211094753-57L1 Location: 12" sq. Lt. Green Floor Tiles & Glue - Ground Floor GA 109 - Floor Tile	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Green, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
FT-1-B 21	211094753-57L2 Location: 12" sq. Lt. Green Floor Tiles & Glue - Ground Floor GA 109 - Glue	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
FT-2-A 22	211094753-58L1 Location: 12" sq. Spackled Beige Floor Tiles & Glue - Ground Floor GA 120 - Floor Tile	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Beige, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
FT-2-A 22	211094753-58L2 Location: 12" sq. Spackled Beige Floor Tiles & Glue - Ground Floor GA 120 - Glue	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			

Client Name: Langan Engineering & Environmental Services

PLM Bulk Asbestos Report250013701; University Dr. Research Center; Bldg. 6 -
University Drive C

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
FT-2-B 22	211094753-59L1 Location: 12" sq. Spackled Beige Floor Tiles & Glue - Ground Floor GA 120 - Floor Tile	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Beige, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
FT-2-B 22	211094753-59L2 Location: 12" sq. Spackled Beige Floor Tiles & Glue - Ground Floor GA 120 - Glue	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
FT-3-A 23	211094753-60L1 Location: 9" sq. Green Floor Tiles & Mastic - Ground Floor Under Floor Material GA 111 - Floor Tile	Yes	5 % (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Green, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Chrysotile 5.0 % Other Material: Non-fibrous 95 %			
FT-3-A 23	211094753-60L2 Location: 9" sq. Green Floor Tiles & Mastic - Ground Floor Under Floor Material GA 111 - Mastic	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
FT-3-B 23	211094753-61L1 Location: 9" sq. Green Floor Tiles & Mastic - Ground Floor Under Floor Material GA 111 - Floor Tile		NA/PS
Analyst Description: Bulk Material Asbestos Types: Other Material:			
FT-3-B 23	211094753-61L2 Location: 9" sq. Green Floor Tiles & Mastic - Ground Floor Under Floor Material GA 111 - Mastic	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			

Client Name: Langan Engineering & Environmental Services

PLM Bulk Asbestos Report250013701; University Dr. Research Center; Bldg. 6 -
University Drive C

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
FT-4-A 24	211094753-62L1	No	NAD
Location: 12" sq. Mottled Beige Floor Tiles & Mastic - Women Locker Room 1st Fl. By Hot Water Tank Room - Floor Tile			(by CVES) by Madell E. Collins on 10/03/11
Analyst Description: OffWhite, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
FT-4-A 24	211094753-62L2	No	NAD
Location: 12" sq. Mottled Beige Floor Tiles & Mastic - Women Locker Room 1st Fl. By Hot Water Tank Room - Mastic			(by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
FT-4-B 24	211094753-63L1	No	NAD
Location: 12" sq. Mottled Beige Floor Tiles & Mastic - Women Locker Room 1st Fl. By Hot Water Tank Room - Floor Tile			(by CVES) by Madell E. Collins on 10/03/11
Analyst Description: OffWhite, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
FT-4-B 24	211094753-63L2	No	NAD
Location: 12" sq. Mottled Beige Floor Tiles & Mastic - Women Locker Room 1st Fl. By Hot Water Tank Room - Mastic			(by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
FT-5-A 25	211094753-64L1	Yes	5 %
Location: 9" sq. Light Brown Floor Tiles & Mastic - 1st Floor Hallway - Floor Tile			(by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types: Chrysotile 5.0 %			
Other Material: Non-fibrous 95 %			
FT-5-A 25	211094753-64L2	No	NAD
Location: 9" sq. Light Brown Floor Tiles & Mastic - 1st Floor Hallway - Mastic			(by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-fibrous 100 %			

Client Name: Langan Engineering & Environmental Services

PLM Bulk Asbestos Report250013701; University Dr. Research Center; Bldg. 6 -
University Drive C

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
FT-5-B 25	211094753-65L1 Location: 9" sq. Light Brown Floor Tiles & Mastic - 1st Floor Hallway - Floor Tile		NA/PS
Analyst Description: Bulk Material Asbestos Types: Other Material:			
FT-5-B 25	211094753-65L2 Location: 9" sq. Light Brown Floor Tiles & Mastic - 1st Floor Hallway - Mastic	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
FT-6-A 26	211094753-66 Location: 12" sq. Light Olive Green Floor Tiles / No Mastic - 1st Floor Hallway Near Freezer	Yes	2 % (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: OffWhite, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Chrysotile 2.0 % Other Material: Non-fibrous 98 %			
FT-6-B 26	211094753-67 Location: 12" sq. Light Olive Green Floor Tiles / No Mastic - 1st Floor Hallway Near Freezer		NA/PS
Analyst Description: Bulk Material Asbestos Types: Other Material:			
FT-7-A 27	211094753-68L1 Location: 9" sq. Alternative Gray & Beige Floor Tiles & Mastic - 1st Floor Trans. Room - Floor Tile	Yes	5 % (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Chrysotile 5.0 % Other Material: Non-fibrous 95 %			
FT-7-A 27	211094753-68L2 Location: 9" sq. Alternative Gray & Beige Floor Tiles & Mastic - 1st Floor Trans. Room - Mastic	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			

Client Name: Langan Engineering & Environmental Services

PLM Bulk Asbestos Report250013701; University Dr. Research Center; Bldg. 6 -
University Drive C

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
FT-7-B 27	211094753-69L1 Location: 9" sq. Alternative Gray & Beige Floor Tiles & Mastic - 1st Floor Trans. Room - Floor Tile		NA/PS
Analyst Description: Bulk Material Asbestos Types: Other Material:			
FT-7-B 27	211094753-69L2 Location: 9" sq. Alternative Gray & Beige Floor Tiles & Mastic - 1st Floor Trans. Room - Mastic	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
FT-8-A 28	211094753-70 Location: 9" Sq. Striped Tan Floor Tiles - 1st Floor Room 1A-103	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Tan/White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
FT-8-B 28	211094753-71 Location: 9" Sq. Striped Tan Floor Tiles - 1st Floor Room 1A-103	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Tan/White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
FT-9-A 29	211094753-72L1 Location: 9" Sq. Brown Floor Tiles & Mastic - 2nd Floor Near Entrance Door - Floor Tile	Yes	5 % (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Chrysotile 5.0 % Other Material: Non-fibrous 95 %			
FT-9-A 29	211094753-72L2 Location: 9" Sq. Brown Floor Tiles & Mastic - 2nd Floor Near Entrance Door - Mastic	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			

Client Name: Langan Engineering & Environmental Services

PLM Bulk Asbestos Report250013701; University Dr. Research Center; Bldg. 6 -
University Drive C

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
FT-9-B 29	211094753-73L1 Location: 9" Sq. Brown Floor Tiles & Mastic - 2nd Floor Near Entrance Door - Floor Tile		NA/PS
Analyst Description: Bulk Material Asbestos Types: Other Material:			
FT-9-B 29	211094753-73L2 Location: 9" Sq. Brown Floor Tiles & Mastic - 2nd Floor Near Entrance Door - Mastic	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
FM-1-A 30	211094753-74L1 Location: Epoxy Floor Material & Attached Mastic - Ground Floor Rm. GA-111 - Epoxy Floor Material	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Tan/White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
FM-1-A 30	211094753-74L2 Location: Epoxy Floor Material & Attached Mastic - Ground Floor Rm. GA-111 - Mastic	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
FM-1-B 30	211094753-75L1 Location: Epoxy Floor Material & Attached Mastic - Ground Floor Rm. GA-111 - Epoxy Floor Material	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Tan/White, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
FM-1-B 30	211094753-75L2 Location: Epoxy Floor Material & Attached Mastic - Ground Floor Rm. GA-111 - Mastic	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			

Client Name: Langan Engineering & Environmental Services

PLM Bulk Asbestos Report250013701; University Dr. Research Center; Bldg. 6 -
University Drive C

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
BBM-1-A 31	211094753-76L1 Location: Green Baseboard Covering & Glue - Ground Fl. GA-109 - Baseboard	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Green, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
BBM-1-A 31	211094753-76L2 Location: Green Baseboard Covering & Glue - Ground Fl. GA-109 - Glue	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
BBM-1-B 31	211094753-77L1 Location: Green Baseboard Covering & Glue - Ground Fl. GA-109 - Baseboard	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Green, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
BBM-1-B 31	211094753-77L2 Location: Green Baseboard Covering & Glue - Ground Fl. GA-109 - Glue	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
BBM-2-A 32	211094753-78L1 Location: Dark Brown Baseboard & Glue - Floor Room GA-120 - Baseboard	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
BBM-2-A 32	211094753-78L2 Location: Dark Brown Baseboard & Glue - Floor Room GA-120 - Glue	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			

Client Name: Langan Engineering & Environmental Services

PLM Bulk Asbestos Report250013701; University Dr. Research Center; Bldg. 6 -
University Drive C

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
BBM-2-B 32	211094753-79L1 Location: Dark Brown Baseboard & Glue - Floor Room GA-120 - Baseboard	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
BBM-2-B 32	211094753-79L2 Location: Dark Brown Baseboard & Glue - Floor Room GA-120 - Glue	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
BBM-3-A 33	211094753-80L1 Location: Brick Red Baseboard & Glue - Ground Floor GA-111 - Baseboard	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Red, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
BBM-3-A 33	211094753-80L2 Location: Brick Red Baseboard & Glue - Ground Floor GA-111 - Glue	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
BBM-3-B 33	211094753-81L1 Location: Brick Red Baseboard & Glue - Ground Floor GA-111 -Baseboard	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Red, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
BBM-3-B 33	211094753-81L2 Location: Brick Red Baseboard & Glue - Ground Floor GA-111 - Glue	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			

Client Name: Langan Engineering & Environmental Services

PLM Bulk Asbestos Report250013701; University Dr. Research Center; Bldg. 6 -
University Drive C

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
BBM-4-A 34	211094753-82L1 Location: Black Baseboard & Glue - 1st Floor Hallway - Baseboard	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
BBM-4-A 34	211094753-82L2 Location: Black Baseboard & Glue - 1st Floor Hallway - Glue	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
BBM-4-B 34	211094753-83L1 Location: Black Baseboard & Glue - 1st Floor Hallway - Baseboard	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
BBM-4-B 34	211094753-83L2 Location: Black Baseboard & Glue - 1st Floor Hallway - Glue	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
DC-1-A 35	211094753-84 Location: Door Caulking Garage - Exterior Ent. Door 1st Floor	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
DC-1-B 35	211094753-85 Location: Door Caulking Garage - Exterior Ent. Door 1st Floor	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Clear, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			

Client Name: Langan Engineering & Environmental Services

PLM Bulk Asbestos Report250013701; University Dr. Research Center; Bldg. 6 -
University Drive C

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
DC-2-A 36	211094753-86 Location: Beige Door Caulking - Exterior Door In The Lab	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Beige, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
DC-2-B 36	211094753-87 Location: Door Caulking Garage - Exterior Ent. Door 1st Floor	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Beige, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
DC-3-A 37	211094753-88 Location: Door Caulking Lt. Gray - Staircase Door Exterior	Yes	2 % (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Chrysotile 2.0 % Other Material: Non-fibrous 98 %			
DC-3-B 37	211094753-89 Location: Door Caulking Lt. Gray - Staircase Door Exterior		NA/PS
Analyst Description: Bulk Material Asbestos Types: Other Material:			
DWC-1-A 38	211094753-90 Location: Door Window Caulking - Ground Floor Rm. 145	Yes	2 % (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Chrysotile 2.0 % Other Material: Non-fibrous 98 %			
DWC-1-B 38	211094753-91 Location: Door Window Caulking - Ground Floor Hallway		NA/PS
Analyst Description: Bulk Material Asbestos Types: Other Material:			

Client Name: Langan Engineering & Environmental Services

PLM Bulk Asbestos Report250013701; University Dr. Research Center; Bldg. 6 -
University Drive C

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
WC-1-A 39	211094753-92 Location: Window Caulking - Exterior	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
WC-1-B 39	211094753-93 Location: Window Caulking - Exterior	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
IWC-1-A 40	211094753-94 Location: Window Caulking - Interior	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
IWC-1-B 40	211094753-95 Location: Window Caulking - Interior	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
FSC-1-A 41	211094753-96 Location: Fire Stop Caulking - Ground Floor GA-131	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Red, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Fibrous glass 10 %, Non-fibrous 90 %			
FSC-1-B 41	211094753-97 Location: Fire Stop Caulking - 1st Floor Hallway	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Red, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Fibrous glass 10 %, Non-fibrous 90 %			

Client Name: Langan Engineering & Environmental Services

PLM Bulk Asbestos Report250013701; University Dr. Research Center; Bldg. 6 -
University Drive C

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
FLC-1-A 42	211094753-98 Location: Floor Coating - Exterior Near Stair By Incinerator	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
FLC-1-B 42	211094753-99 Location: Floor Coating - Exterior Near Stair By Incinerator	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
DTC-1-A 43	211094753-100 Location: Caulking Around Stainless Steel Duct Seams - 1st Floor Hallway	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
DTC-1-B 43	211094753-101 Location: Caulking Around Stainless Steel Duct Seams - 1st Floor Rm. 1A-114	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
CEJC-1-A 44	211094753-102 Location: Concrete Expansion Joint Caulking - Exterior	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
CEJC-1-B 44	211094753-103 Location: Concrete Expansion Joint Caulking - Exterior	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			

Client Name: Langan Engineering & Environmental Services

PLM Bulk Asbestos Report250013701; University Dr. Research Center; Bldg. 6 -
University Drive C

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
LC-1-A 45	211094753-104 Location: Lintel Caulking - Exterior	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
LC-1-B 45	211094753-105 Location: Lintel Caulking - Exterior	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
EFWJC-1-A 46	211094753-106 Location: Exterior Floor Wall Joint Compound - Exterior	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Black, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 5 %, Fibrous glass Trace, Non-fibrous 95 %			
EFWJC-1-B 46	211094753-107 Location: Exterior Floor Wall Joint Compound - Exterior	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Black, Homogeneous, Fibrous, Bulk Material Asbestos Types: Other Material: Cellulose 5 %, Fibrous glass Trace, Non-fibrous 95 %			
LCA-1-A 47	211094753-108 Location: Louver Caulking - Mechanical Room Exterior	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
LCA-1-B 47	211094753-109 Location: Louver Caulking - Mechanical Room Exterior	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			

Client Name: Langan Engineering & Environmental Services

PLM Bulk Asbestos Report250013701; University Dr. Research Center; Bldg. 6 -
University Drive C

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
EJC-1-A 48	211094753-110 Location: Wall Expansion Joint Caulking - Exterior	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
EJC-1-B 48	211094753-111 Location: Wall Expansion Joint Caulking - Exterior	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
DWI-1-A 49	211094753-112 Location: Mastic On Fiberglass Duct Insulation Wrap - Roof Near Mechanical Room	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
DWI-1-A 49	211094753-113 Location: Mastic On Fiberglass Duct Insulation Wrap - Roof Near Mechanical Room	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
RRF-1-A 50	211094753-114 Location: Remnants Of Roof Flashing - 1st Floor Room 1A-100	No	NAD (by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			
RRF-1-B 50	211094753-115 Location: Remnants Of Roof Flashing - 1st Floor Room 1A-100	No	NAD (by CVES) by Madell E. Collins on 10/04/11
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material Asbestos Types: Other Material: Non-fibrous 100 %			

Client Name: Langan Engineering & Environmental Services

PLM Bulk Asbestos Report

250013701; University Dr. Research Center; Bldg. 6 -
University Drive C

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
PI-1-C	211094753-116	No	NAD
Location: Pipe Insulation - 1st Floor Room 1A100-Near Window			(by CVES) by Madell E. Collins on 10/03/11
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose 35 %, Fibrous glass 40 %, Non-fibrous 25 %			

Reporting Notes:

Analyzed by: Madell E. Collins



*NAD/NSD =no asbestos detected; NA =not analyzed; NA/PS=not analyzed/positive stop; PLM Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab Code 200546-0), ELAP PLM Method 198.1 for NY friable samples or 198.6 for NOB samples (NY ELAP Lab ID11480); Note:PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non asbestos-containing in NY State (also see EPA Advisory for floor tile, FR 59,146,38970,8/1/94) National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the lab.This PLM report relates ONLY to the items tested. AIHA Lab # 102843, RI Cert#AAL-094, CT Cert#PH-0186, Mass Cert#AA000054.

Reviewed By: _____ END OF REPORT _____



Langan
Engineering and Environmental Services



River Drive Center I
Elmwood Park, NJ 07407
Phone: 201-794-6900
Fax: 201-794-7501



90 West Street
New York, NY 10006-1039
Phone: 212-964-7888
Fax: 212-964-7885



Georgetown Crossing
3655 Route 202, Ste 225
Doylestown, PA 19011-1699
Phone: 215-348-7101
Fax: 215-348-7125



1 Penn Center & Suburban Stn
1617 JFK Boulevard, Ste 889
Philadelphia, PA 19103
Phone: 215-864-0640
Fax: 215-864-0671



Long Wharf Maritime Center
555 Long Wharf Drive
New Haven, CT 06511-6107
Phone: 203-562-5771
Fax: 203-789-6142

CHAIN OF CUSTODY RECORD / ANALYSIS REQUEST

Project Name: University Dr. Research Center - Bldg. 6		Project No.: 250013701		ANALYSIS REQUESTED: Asbestos:		Lead: XX		
Address: University Drive C		Auth. By: Vijay Patel		BULK:				
Site Location: Pittsburgh, PA		Phone No: (201) 794-6900						
Sampled By: S. Patel		License #: 30492						
Company: LANGAN								
Sample ID Number	Description of Sample	Location	Sampling Date	PLM	PLM-NOB	TEM	AAS	TCLP
WP-1	Wall Plaster C2 layers	Ground Floor - stair landing	09/22-26/11	X				
WP-2		1st Floor - stair		X				
WP-3		↓ - near main exit		X				
WP-4		1st floor		X				
WP-5		2nd Floor - stair		X				
WP-6		2nd floor		X				
WP-7		↓		X				
WP-8		1st floor		X				
WP-9		↓		X				
✓		✓		✓				

Total No. of Samples: 09

Laboratory Instructions/Turnaround Requested: 72 hrs. TAT

XXX Stop at first positive result for each homogeneous sample; Analyze by layer.

Email results at spatel@langan.com ; vpatel@langan.com .

211094753

Relinquished By: S. Patel	DATE: 09/28/2011	Received By: <i>[Signature]</i>	DATE:
<i>[Signature]</i>	TIME:	<i>[Signature]</i>	TIME:
Company: LANGAN		Company: LANGAN	

Laboratory Name & Address: AmeriSci, NY



Langan
Engineering and Environmental Services

☒ River Drive Center I
Elmwood Park, NJ 07407
Phone: 201-794-6900
Fax: 201-794-7501

☐ 90 West Street
New York, NY 10006-1039
Phone: 212-964-7888
Fax: 212-964-7885

☐ Georgetown Crossing
3655 Route 202, Ste 225
Doylestown, PA 19011-1699
Phone: 215-348-7101
Fax: 215-348-7125

☐ 1 Penn Center & Suburban Stn
1617 JFK Boulevard, Ste 889
Philadelphia, PA 19103
Phone: 215-864-0640
Fax: 215-864-0671

☐ Long Wharf Maritime Center
555 Long Wharf Drive
New Haven, CT 06511-6107
Phone: 203-562-5771
Fax: 203-789-6142

CHAIN OF CUSTODY RECORD / ANALYSIS REQUEST

Project Name: University Dr. Research Center - Bldg. 6		Project No.: 250013701		ANALYSIS REQUESTED: Asbestos:		Lead: XX	
Address: University Drive C		Auth. By: Vijay Patel		BULK:			
Site Location: Pittsburgh, PA		Phone No: (201) 794-6900		PLM		AAS	
Sampled By: S. Patel		License #: 30492		PLM-NOB		TEM	
Company: LANGAN				PLM		TCLP	
Sample ID Number	Description of Sample	Location	Sampling Date	PLM	PLM-NOB	TEM	TCLP
BMOR-1-A	Mortar attached with bricks	Exterior	09/22-26/11	X			
BMOR-1-B				X			
CP-1	Ceiling Plaster	Ground Floor		X			
CP-2		GA-117		X			
CP-3		-GA-127		X			
CP-4	(2 layers)	1st Floor		X			
CP-5		2nd Floor		X			
BM-1-A	Beam Plaster	1st Fl. - 1A-106		X			
BM-1-B	Column	- Hallway		X			
BM-1-C		- 1A-100		X			

211094753

XXX Stop at first positive result for each homogeneous sample; Analyze by layer.
Email results at spatel@langan.com ; vpatel@langan.com .

Total No. of Samples: 10

Laboratory Instructions/Turnaround Requested: 72 hrs. TAT

Relinquished By: S. Patel	Received By: <i>[Signature]</i>	DATE: 09/28/2011	Received By:
<i>[Signature]</i>	<i>[Signature]</i>	TIME: 9/29	DATE:
Company: LANGAN	Company: LANGAN		TIME:
Laboratory Name & Address: AmeriSci, NY	Company: LANGAN		Company:



Langston
Engineering and Environmental Services



River Drive Center 1
Elmwood Park, NJ 07407
Phone: 201-794-6900
Fax: 201-794-7501



90 West Street
New York, NY 10006-1039
Phone: 212-964-7888
Fax: 212-964-7885



Georgetown Crossing
3655 Route 202, Site 225
Doylestown, PA 19011-1699
Phone: 215-348-7101
Fax: 215-348-7125



1 Penn Center & Suburban Stn
1617 JFK Boulevard, Site 889
Philadelphia, PA 19103
Phone: 215-864-0640
Fax: 215-864-0671



Long Wharf Maritime Center
555 Long Wharf Drive
New Haven, CT 06511-6107
Phone: 203-362-5771
Fax: 203-789-6142

CHAIN OF CUSTODY RECORD / ANALYSIS REQUEST

Project Name: University Dr. Research Center - Bldg. 6		Project No.: 250013701		ANALYSIS REQUESTED: Asbestos:		Lead: XX		
Address: University Drive C		Auth. By: Vijay Patel		BULK:				
Site Location: Pittsburgh, PA		Phone No: (201) 794-6900		PLM		TEM		
Sampled By: S. Patel		License #: 30492		PLM-NOB		AAS		
Company: LANGAN				TCLP				
Sample ID Number	Description of Sample	Location	Sampling Date	PLM	PLM-NOB	TEM	AAS	TCLP
SR-1-A	Sheetrock wall/ceiling board	Ground Floor	09/22-26/11	X				
SR-1-B				✓				
MPJ-1-A	mud-jack pipe joints attached with fiberglass pipe insulation	Ground Floor		X				
MPJ-1-B				X				
MPJ-1-C				X				
MPJ-1-D				X				
MPJ-1-E		1st Floor		X				
MPJ-1-F		Fan-Room on 2nd Floor		X				
CPP-1-A	2'x4' ceiling panels with small grooves design paper	Ground Floor - Hallway		X				
CPP-1-B				X				

Total No. of Samples: 10

Laboratory Instructions/Turnaround Requested: 72 hrs. TAT

XXX Stop at first positive result for each homogeneous sample; Analyze by layer.
Email results at spatel@langan.com ; vpatel@langan.com .

211094753

Relinquished By: S. Patel	DATE: 09/28/2011	Received By: J. Subramanian	DATE:
Langston Patel			TIME:
Fed-Ex			
Company: LANGAN	Company: LANGAN	Company: LANGAN	Company:

Laboratory Name & Address: AmeriSci, NY



Langan
Engineering and Environmental Services



River Drive Center I
Elmwood Park, NJ 07407
Phone: 201-794-6900
Fax: 201-794-7501



90 West Street
New York, NY 10006-1039
Phone: 212-964-7888
Fax: 212-964-7885



Georgetown Crossing
3655 Route 202, Ste 225
Doylestown, PA 19011-1699
Phone: 215-348-7101
Fax: 215-348-7125



1 Penn Center & Suburban Stn
1617 JFK Boulevard, Ste 889
Philadelphia, PA 19103
Phone: 215-864-0640
Fax: 215-864-0671



Long Wharf Maritime Center
555 Long Wharf Drive
New Haven, CT 06511-6107
Phone: 203-562-5771
Fax: 203-789-6142

CHAIN OF CUSTODY RECORD / ANALYSIS REQUEST

Project Name: University Dr. Research Center - Bldg. 6		Project No.: 250013701		ANALYSIS REQUESTED: Asbestos:		Lead: XX	
Address: University Drive C		Auth. By: Vijay Patel		BULK:			
Site Location: Pittsburgh, PA		Phone No: (201) 794-6900		PLM		AAS	
Sampled By: S. Patel		License #: 30492		PLM-NOB		TEM	
Company: LANGAN						TCLP	
Sample ID Number	Description of Sample	Location	Sampling Date	PLM	PLM-NOB	TEM	TCLP
CPP-2-A	2x4 with big grooves cutting panels	Ground Floor - 117	09/22-26/11	X			
CPP-2-B	1' with grooves cutting panels	↓ - 117		X			
CPP-3-A	2x2 with grooves cutting panels	Ground Floor - 120A		X			
CPP-3-B	↓	↓ - 120		X			
CPR-1-A	Paper on ceiling deck	Ground Floor - 117		X			
CPR-1-B	↓	Hot water tank room		X			
PC-1-A	Pipe cover on fiberglass pipe insulation	Ground Floor - Hallway		X			
PC-1-B	↓	1st Floor - A/C equipment room		X			
PW-1-A	Pipe wrap on fiberglass pipe insulation	Ground Floor - Hallway		X			
PW-1-B	↓	↓		X			

211094753

XXX Stop at first positive result for each homogeneous sample; Analyze by layer.
Email results at spatel@langan.com ; vpatel@langan.com .

Total No. of Samples: 10
Laboratory Instructions/Turnaround Requested: 72 hrs. TAT

Relinquished By: S. Patel	DATE: 09/28/2011	Received By: <i>[Signature]</i>	DATE: 9/29
<i>[Signature]</i>	TIME:	<i>[Signature]</i>	TIME: 1620
Company: LANGAN	Company: LANGAN	Company: LANGAN	Company: LANGAN

Laboratory Name & Address: AmeriSci, NY



Langan
Engineering and Environmental Services



River Drive Center I
Elmwood Park, NJ 07407
Phone: 201-794-6900
Fax: 201-794-7501



90 West Street
New York, NY 10006-1039
Phone: 212-964-7888
Fax: 212-964-7885



Georgetown Crossing
3655 Route 202, Ste 225
Doyletown, PA 8901-1699
Phone: 215-348-7101
Fax: 215-348-7125



1 Penn Center & Suburban Stn
1617 JFK Boulevard, Ste 889
Philadelphia, PA 19103
Phone: 215-864-0640
Fax: 215-864-0671



Long Wharf Maritime Center
555 Long Wharf Drive
New Haven, CT 06511-6107
Phone: 203-562-5771
Fax: 203-789-6142

CHAIN OF CUSTODY RECORD / ANALYSIS REQUEST

Project Name: University Dr. Research Center - Bldg. 6		Project No.: 250013701		ANALYSIS REQUESTED: Asbestos:		Lead: XX	
Address: University Drive C		Auth. By: Vijay Patel		BULK:			
Site Location: Pittsburgh, PA		Phone No: (201) 794-6900		PLM		TEM	
Sampled By: S. Patel		License #: 30492		PLM-NOB		AAS	
Company: LANGAN				TCLP			
Sample ID Number	Description of Sample	Location	Sampling Date	PLM	PLM-NOB	TEM	TCLP
PI-1-A	Pipe insulation	1st Fl. - Rm 1A-100 NEW window	09/22-26/11	X			
PI-1-B	Old leaking pipe insulation	Ground Fl. - wall		X			
OPI-1-A		Chase - in Rm. 118		X			
OPI-1-B				X			
RDEB-1-A	Debris inside the Radiator	1st Floor - Room 1A-110		X			
RDEB-1-B				X			
DI-1-A	Metal door insulation	1st Floor - Room 1A-109		X			
DI-1-B				X			
TWP-1-A	Transite wall panels	2nd Fl. - 2A-108		X			
TWP-1-B		↓ - 2A-109		X			

Total No. of Samples: 10

Laboratory Instructions/Turnaround Requested: 72 hrs. TAT

XXX Stop at first positive result for each homogeneous sample; Analyze by layer.
Email results at spatel@langan.com ; vpatel@langan.com .

211094753

Relinquished By: S. Patel	DATE: 09/28/2011	Received By: <i>[Signature]</i>	DATE: 9/29
Company: LANGAN	TIME:	Company: LANGAN	TIME:
Laboratory Name & Address: AmeriSci, NY		Company: LANGAN	

Relinquished By:	DATE:	Received By:
Company: LANGAN		Company:



Langan
Engineering and Environmental Services

☒ River Drive Center I
Elmwood Park, NJ 07407
Phone: 201-794-6900
Fax: 201-794-7501

☐ 90 West Street
New York, NY 10006-1039
Phone: 212-964-7888
Fax: 212-964-7885

☐ Georgetown Crossing
3655 Route 202, Ste 225
Doylestown, PA 19013
Phone: 215-348-7101
Fax: 215-348-7125

☐ 1 Penn Center & Suburban Stn
1617 JFK Boulevard, Ste 889
Philadelphia, PA 19103
Phone: 215-864-0640
Fax: 215-864-0671

☐ Long Wharf Maritime Center
555 Long Wharf Drive
New Haven, CT 06511-6107
Phone: 203-562-5771
Fax: 203-789-6142

CHAIN OF CUSTODY RECORD / ANALYSIS REQUEST

Project Name:	University Dr. Research Center - Bldg. 6	Project No.:	250013701
Address:	University Drive C	Auth. By:	Vijay Patel
Site Location:	Pittsburg, PA	Phone No.:	(201) 794-6900
Sampled By:	S. Patel	License #:	30492
Company:	LANGAN		

ANALYSIS REQUESTED: Asbestos:		Lead: XX
BULK:		

Sample ID Number	Description of Sample	Location	Sampling Date	PLM	PLM-NOB	TEM	AAS	TCLP
TT-1-A	Table top material	Ground Floor - Rm 101	09/22-26/11	X				
TT-1-B				X				
TT-2-A	Laboratory table top	Ground Floor - Rm 1A7		X				
TT-2-B		1st Floor - Room 1A-112		X				
DPG-1-A	Glue attached with duct insulation pins	Ground Floor - Rm 101		X				
DPG-1-B				X				
FT-1-A	12" sq. LF. green floor tiles and glue	Ground Floor - GA 109		X				
FT-1-B				X				
FT-2-A	12" sq. speckled beige floor tiles and glue	Ground Floor - GA 120		X				
FT-2-B				X				

Total No. of Samples: 10
Laboratory Instructions/Turnaround Requested:

72 hrs. TAT

XXX Stop at first positive result for each homogeneous sample; Analyze by layer.
Email results at spatel@langan.com ; vpatel@langan.com .

211094753

Relinquished By: S. Patel	DATE:	09/28/2011
<i>Sampy Patel</i>	TIME:	
Company: LANGAN		

Received By:	DATE:	9/29
<i>[Signature]</i>	TIME:	
Company: LANGAN		

Relinquished By:	DATE:	
	TIME:	
Company: LANGAN		

Laboratory Name & Address: AmeriSci, NY



Langdon
Engineering and Environmental Services

☒ River Drive Center I
Elmwood Park, NJ 07407
Phone: 201-794-6900
Fax: 201-794-7501

☐ 90 West Street
New York, NY 10006-1039
Phone: 212-964-7888
Fax: 212-964-7885

☐ Georgetown Crossing
3655 Route 202 Ste 225
Doylestown, PA 19011-1699
Phone: 215-348-7101
Fax: 215-348-7125

☐ 1 Penn Center & Suburban Stn
1617 JFK Boulevard, Ste 889
Philadelphia, PA 19103
Phone: 215-864-0640
Fax: 215-864-0671

☐ Long Wharf Maritime Center
555 Long Wharf Drive
New Haven, CT 06511-6107
Phone: 203-562-5771
Fax: 203-789-6142

CHAIN OF CUSTODY RECORD / ANALYSIS REQUEST

Project Name: University Dr. Research Center - Bldg. 6		Project No.: 250013701		ANALYSIS REQUESTED: Asbestos:		Lead: XX		
Address: University Drive C		Auth. By: Vijay Patel		BULK:				
Site Location: Pittsburgh, PA		Phone No: (201) 794-6900						
Sampled By: S. Patel		License #: 30492						
Company: LANGAN								
Sample ID Number	Description of Sample	Location	Sampling Date	PLM	PLM-NOB	TEM	AAS	TCLP
FT-3-A	9" sq. Green floor tiles and mastic	Ground Floor - Under floor material - 9A 111	09/22-26/11	X				
FT-3-B	12" sq. mottled beige floor tiles and mastic	Women locker room - 1st fl. by hot water tank room		X				
FT-4-A	9" sq. light brown floor tiles and mastic	1st Floor - Hallway		X				
FT-4-B	12" sq. light olive green floor tiles and mastic	1st Floor - Hallway near freezer		X				
FT-5-A	9" sq. alternative gray and beige floor tiles and mastic	1st Floor - Transition - men room		X				
FT-5-B				X				
FT-6-A				X				
FT-6-B				X				
FT-7-A				X				
FT-7-B				X				

Total No. of Samples: 10
Laboratory Instructions/Turnaround Requested:

72 hrs. TAT

XXX Stop at first positive result for each homogeneous sample; Analyze by layer.
Email results at spatel@langan.com ; vpatel@langan.com .

211094753

Relinquished By: S. Patel	DATE: 09/28/2011	Received By: <i>[Signature]</i>	DATE: 9/29
Company: LANGAN		Company: LANGAN	

Relinquished By:	DATE:	Received By:
Company: LANGAN		Company:

Laboratory Name & Address: AmeriSci, NY



Langan
Engineering and Environmental Services



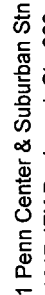
Elmwood Park, NJ 07407
Phone: 201-794-6900
Fax: 201-794-7501



New York, NY 10006-1039
Phone: 212-964-7888
Fax: 212-964-7885



3655 Route 202, Ste 225
Doylstown, PA 19013
Phone: 215-348-7101
Fax: 215-348-7125



Long Wharf Maritime Center
555 Long Wharf Drive
New Haven, CT 06511-6107
Phone: 203-562-5771
Fax: 203-789-6142

CHAIN OF CUSTODY RECORD / ANALYSIS REQUEST

Project Name: University Dr. Research Center - Bldg. 6		Project No.: 250013701		ANALYSIS REQUESTED: Asbestos:		Lead: XX	
Address: University Drive C		Auth. By: Vijay Patel		BULK:			
Site Location: Pittsburgh, PA		Phone No: (201) 794-6900		PLM		AAS	
Sampled By: S. Patel		License #: 30492		PLM-NOB		TEM	
Company: LANGAN				PLM		TCLP	
Sample ID Number	Description of Sample	Location	Sampling Date	PLM	PLM-NOB	TEM	TCLP
FT-8-A	9" sq. striped tan floor tiles	1st Floor - Room 1A-103	09/22-26/11	X			
FT-8-B	9" sq. brown floor tiles and mastic	2nd Floor - Near entrance door		X			
FT-9-A	9" sq. brown floor tiles and mastic	2nd Floor - Near Fan room		X			
FT-9-B	9" sq. brown floor tiles and mastic	2nd Floor - Near Fan room		X			
FM-1-A	Epoxy floor material and attached mastic	Ground Floor - Room - GA 111		X			
FM-1-B	Epoxy floor material and attached mastic	Ground Floor - Room - GA 111		X			
BBM-1-A	Green baseboard covering and glue	Ground Fl. - GA 109		X			
BBM-1-B	Green baseboard covering and glue	Ground Fl. - GA 109		X			
BBM-2-A	Dark brown baseboard and glue	1st Floor - Room GA 120		X			
BBM-2-B	Dark brown baseboard and glue	1st Floor - Room GA 120		X			

Total No. of Samples: 10

Laboratory Instructions/Turnaround Requested: 72 hrs. TAT

XXX Stop at first positive result for each homogeneous sample; Analyze by layer. Email results at spatel@langan.com ; vpatel@langan.com .

211094753

Relinquished By: S. Patel	DATE: 09/28/2011	Received By:	DATE: 9/29
Company: LANGAN	TIME:	Company: LANGAN	TIME:

Relinquished By:	DATE:	Received By:
Company: LANGAN	TIME:	Company:

Laboratory Name & Address: AmeriSci, NY



Langon
Engineering and Environmental Services



River Drive Center I
Elmwood Park, NJ 07407
Phone: 201-794-6900
Fax: 201-794-7501



90 West Street
New York, NY 10006-1039
Phone: 212-964-7888
Fax: 212-964-7885



Georgetown Crossing
3655 Route 202, Ste 225
Doylestown, PA 19011-1699
Phone: 215-348-7101
Fax: 215-348-7125



1 Penn Center & Suburban Stn
1617 JFK Boulevard, Ste 889
Philadelphia, PA 19103
Phone: 215-864-0640
Fax: 215-864-0671



Long Wharf Maritime Center
555 Long Wharf Drive
New Haven, CT 06511-6107
Phone: 203-562-5771
Fax: 203-789-6142

CHAIN OF CUSTODY RECORD / ANALYSIS REQUEST

Project Name: University Dr. Research Center - Bldg. 6		Project No.: 250013701		ANALYSIS REQUESTED: Asbestos:		Lead: XX		
Address: University Drive C		Auth. By: Vijay Patel		BULK:				
Site Location: Pittsburgh, PA		Phone No: (201) 794-6900						
Sampled By: S. Patel		License #: 30492						
Company: LANGAN								
Sample ID Number	Description of Sample	Location	Sampling Date	PLM	PLM-NOB	TEM	AAS	TCLP
BBM-3-A	Brick red baseboard and glue	Ground floor - GA 111	09/22-26/11	X				
BBM-3-B	Black baseboard and glue	1st Floor - Hallway		X				
BBM-4-A				X				
BBM-4-B				X				
DC-1-A	Door caulking - gray	Exterior - Int. door - 1st Floor		X				
DC-1-B				X				
DC-2-A	Beige - Door caulking	Exterior - Doors in the lab.		X				
DC-2-B				X				
DC-3-A	Door caulking - lt. gray	Staircase door - Exterior		X				
DC-3-B				X				

Total No. of Samples: 10

Laboratory Instructions/Turnaround Requested:

72 hrs. TAT

XXX Stop at first positive result for each homogeneous sample; Analyze by layer.
Email results at spatel@langan.com ; ypatel@langan.com .

211094753

Relinquished By: S. Patel	DATE: 09/28/2011	Received By: [Signature]	DATE: []
Company: LANGAN	TIME: []	Company: LANGAN	TIME: []
Laboratory Name & Address: AmeriSci, NY		Company: []	

Relinquished By: []	DATE: []	Received By: []	DATE: []
Company: []	TIME: []	Company: []	TIME: []
Company: LANGAN		Company: []	



Langgan
Engineering and Environmental Services



River Drive Center I
Elmwood Park, NJ 07407
Phone: 201-794-6900
Fax: 201-794-7501



90 West Street
New York, NY 10006-1039
Phone: 212-964-7888
Fax: 212-964-7885



Georgetown Crossing
3655 Route 202, Ste 225
Doylestown, PA 19001-1699
Phone: 215-348-7101
Fax: 215-348-7125



1 Penn Center & Suburban Stn
1617 JFK Boulevard, Ste 889
Philadelphia, PA 19103
Phone: 215-864-0640
Fax: 215-864-0671



Long Wharf Maritime Center
555 Long Wharf Drive
New Haven, CT 06511-6107
Phone: 203-362-5771
Fax: 203-789-6142

CHAIN OF CUSTODY RECORD / ANALYSIS REQUEST


Project Name: University Dr. Research Center - Bldg. 6		Project No.: 250013701		ANALYSIS REQUESTED: Asbestos:		Lead: XX		
Address: University Drive C		Auth. By: Vijay Patel		BULK:				
Site Location: Pittsburgh, PA		Phone No: (201) 794-6900						
Sampled By: S. Patel		License #: 30492						
Company: LANGAN								
Sample ID Number	Description of Sample	Location	Sampling Date	PLM	PLM-NOB	TEM	AAS	TCLP
DWC-1-A	Door window caulking	Ground Floor - Rm 145	09/22-26/11	X				
DWC-1-B	↓	↓ - Hallway		X				
WC-1-A	Window caulking	Exterior		X				
WC-1-B	↓	↓		X				
INC-1-A	Window caulking	Interior		X				
INC-1-B	↓	↓		X				
FSC-1-A	Fire stop caulking	Ground Floor		X				
FSC-1-B	↓	Ground Floor CnA -131		X				
FLC-1-A	Floor Coating	1st Floor-Hallway		X				
FLC-1-B	↓	Exterior - Stair by incinerator		X				
FLC-1-C	↓	↓		X				

Total No. of Samples: 10

Laboratory Instructions/Turnaround Requested: 72 hrs. TAT

XXX Stop at first positive result for each homogeneous sample; Analyze by layer.
Email results at spatel@langan.com ; vpatel@langan.com .

211094753

Relinquished By: S. Patel	DATE: 09/28/2011	Received By: 	DATE: 9/29
Company: LANGAN	TIME:	Company: LANGAN	TIME: 1620

Relinquished By:	DATE:	Received By:
Company: LANGAN	TIME:	Company:

Laboratory Name & Address: AmeriSci, NY



Langston
Engineering and Environmental Services

☒ River Drive Center I
Elmwood Park, NJ 07407
Phone: 201-794-6900
Fax: 201-794-7501

☐ 90 West Street
New York, NY 10006-1039
Phone: 212-964-7888
Fax: 212-964-7885

☐ Georgetown Crossing
3655 Route 202, Ste 225
Doylestown, PA 19001-1699
Phone: 215-348-7101
Fax: 215-348-7125

☐ 1 Penn Center & Suburban Stn
1617 JFK Boulevard, Ste 889
Philadelphia, PA 19103
Phone: 215-864-0640
Fax: 215-864-0671

☐ Long Wharf Maritime Center
555 Long Wharf Drive
New Haven, CT 06511-6107
Phone: 203-562-5771
Fax: 203-789-6142

CHAIN OF CUSTODY RECORD / ANALYSIS REQUEST

Project Name: University Dr. Research Center - Bldg. 6		Project No.: 250013701		ANALYSIS REQUESTED: Asbestos:		Lead: XX	
Address: University Drive C		Auth. By: Vijay Patel		BULK:			
Site Location: Pittsburgh, PA		Phone No: (201) 794-6900		PLM		AAS	
Sampled By: S. Patel		License #: 30492		PLM-NOB		TEM	
Company: LANGAN				PLM		TCLP	
Sample ID Number	Description of Sample	Location	Sampling Date				
DTC-1-A	Caulking around stainless steel duct seams	1st Floor-Hallway	09/22-26/11	X			
DTC-1-B	Concrete expansion joint	↓ - Rm 1A-114		X			
CEJC-1-A	Caulking	Exterior		X			
CEJC-1-B		↓		X			
LC-1-A	United Caulking	Exterior		X			
LC-1-B		↓		X			
EFWJC-1-A	Exterior vapor-wall joint compound	Exterior		X			
EFWJC-1-B		↓		X			
LCA-1-A	Couleur caulking	Mechanical Room-Exterior		X			
LCA-1-B		↓		X			

Total No. of Samples: 10

Laboratory Instructions/Turnaround Requested: 72 hrs. TAT

XXX Stop at first positive result for each homogeneous sample; Analyze by layer.
Email results at spatel@langan.com ; vpatel@langan.com .

211094753

Relinquished By: S. Patel	DATE: 09/28/2011	Received By: [Signature]	DATE: 9/29
Company: LANGAN	TIME:	Company: LANGAN	TIME: 1620

Relinquished By:	DATE:	Received By:
Company: LANGAN	TIME:	Company:

Laboratory Name & Address: AmeriSci, NY



A P P E N D I X B

LANGAN'S CERTIFICATIONS AND LABORATORY ACCREDITATIONS

PENNSYLVANIA ASBESTOS CERTIFICATION

030402



Sex: M Height: 5'11" Eyes: BLK Birth Date: 09/18/1967

Expires: 10/08/2011 Issue Date: 10/29/2010

Class:
INSPECTOR

SANJAYKUMA PATEL
60 FAIRMOUNT RD
PARSIPPANY NJ 07054

Sanjay

PENNSYLVANIA LEAD CERTIFICATION

003785



Sex: M Height: 5'11" Eyes: BLK Skin: [REDACTED]

Expires: 02/11/2012 Recert: 03/02/2011

ISS: INSPECTOR

SANJAY B PATEL
80 FAIRMOUNT RD
PARSIPPANY NJ 07054



1.0



0085 493 10

If found, please contact:

Department of Labor & Industry
Certification, Accreditation & Licensing Division
651 Boas Street, Room 1606
Harrisburg, PA 17121.
(717) 772-3396



NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER
RICHARD F. DAINES, M.D.

Expires 12:01 AM April 01, 2011
Issued April 01, 2010



CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. PAUL MUCHA
AMERICA SCIENCE TEAM NEW YORK INC
117 EAST 30TH ST
NEW YORK, NY 10016

NY Lab Id No: 11480
EPA Lab Code: NY01378

is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved subcategories and/or analytes are listed below:

Miscellaneous

Asbestos in Friable Material	EPA 600/M4/82/020
	Item 198.1 of Manual
Asbestos in Non-Friable Material-PLM	Item 198.6 of Manual (NOB by PLM)
Asbestos in Non-Friable Material-TEM	ITEM 198.4 OF MANUAL

Serial No.: 41865

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify the laboratory's accreditation status.





**National Voluntary
Laboratory Accreditation Program**



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

AmeriSci New York

DBA: AmeriSci New York

117 E. 30th Street

New York, NY 10016

Mr. Paul Mucha

Phone: 212-679-8600 Fax: 212-679-2711

E-Mail: pmucha@amerisci.com

URL: <http://www.amerisci.com>

BULK ASBESTOS FIBER ANALYSIS (PLM)

NVLAP LAB CODE 200546-0

NVLAP Code Designation / Description

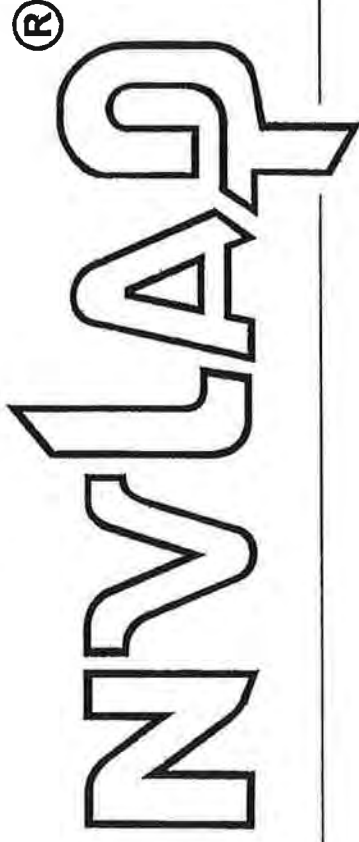
18/A01	EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples
--------	--

2011-07-01 through 2012-06-30

Effective dates


For the National Institute of Standards and Technology

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200546-0

AmeriSci New York
New York, NY

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for.*

BULK ASBESTOS FIBER ANALYSIS

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communiqué dated January 2009).*

2011-07-01 through 2012-06-30

Effective dates



Dolly S. Bruce
For the National Institute of Standards and Technology